BUILDING PERMITS: #SB891327 - 5-23-89 - Kally Roofing - Reroof with tiles - $10,500.00
#8900322 - 6-21-89 - Llerandi Quality Pools Inc. - New 15000 gls. swimming pool, $11,000.00
#B8900319 - 6-26-89 - Oscar Corral - Remodeling, windows, plastering, painting $33,500.00
#BM890967 - Sir Custom A/C - Central heating, 3-7ton a/c central, duct work, 1 mechanical ventilation - 7-21-89

PLUMBING PERMITS: #BP890882 - 6-21-89 - F & F Plumbing - Water service replace
#BP890932 - F & F Plumbing - Add sewer conn. to existing permit - 7-7-89

ELECTRICAL PERMITS: #BE891371 - LLERANDI QUALITY POOLS INC - NEW A/C,MOTORS,NEW SERVICE, RECEPTACLES 7/17/89

. Fetzer

Owner WILBERT HARBORN Mailing Address Permit No. 6949

Lot 10 & 11 Block 14 Subdivision Beach View Addition No. 6431 6437 Street Bay Road Date May 10-1935

General Contractor Harborn Construction Company Address

Architect Russell Pancoast 16320 Address

Front Depth Height Stories Use Residence & Garage

Type of construction Cem blocks Cost $25,000.00 Foundation concrete pile Roof Tile

---

Plumbing Contractor McCaughan permit # 8133 Address Date May 16, 1935

No. fixtures 22 Gas 6 Rough approved by Date

Plumbing Contractor Address Date

No. fixtures set Final approved by Date

Sewer connection 1 Septic tank Make Date

Electrical Contractor Triangle Electric Co., # 5318 Address Date June 7-1935

No. outlets 120 Heaters 4 Stoves Motors 1 Fans Temporary service

Rough approved by Date

Electrical Contractor Address Date

No. fixtures set Final approved by Date

Date of service

Alterations or repairs # 19813.. Building maintenance. Ludman Corp: $ 395.40 Date Mar.14,1945

ELECTRICAL PERMIT # 21019 Lyon Electric: 1 range outlet, 2 water heater outlets, 1 service equipment May 1,1945

BUILDING PERMIT # 22047 Addition of one room over garage -Russell Pancoast, architect: Mulford Stow, contractor: $ 4,700: March 14, 1946 --

PLUMBING PERMIT # 19591-Stolpman Pbbg. Co.- 2 water closets, 1 lavatory, 1 bath tub 1 laundry tray

4-5-46

BUILDING PERMIT # 29255 Painting - John L. Powers, contr. $ 600... Jan. 10, 1949
OK, Plaag 1/24/1956 49415 C. E. Morgan: Install one - 3/4 ton A. C. Unit $ 200.00 December 12, 19
6437 N. Bay #53823 Acme Air Cond: 1-5 ton pkg air conditioner-$1500-July 3, 1957 OK 8-29-57 Plaag
#68664 Alton Paint & Roofing Co.: Reroof - $1800. - 1/9/63
#1179 - Morgan A/C/ type 16320 - air Cond. wind - 3 (1-14,000-1-15,500-1-22,500 7/6/70
#07958-James Glico Roofing-Re-roof 7 sqs-$800-9-16-75

ELECTRICAL PERMIT: # 22499- Lyon- 4 switch outlets 6 light outlets, 4 receptacles, 6 fixtures,
1 iron outlet, 1 space heaters(bath) 2 motors 1 center of distribution--4-25-46
OK. Woodmansee, 5/27/1946
38277 Lyon Electric: 1 center of distribution, 2 motors (1HP): Dec 8, 1952 - OK,
OK, Plaag 1/24/1956 ---#46443 Lyon Electric: one motor December 22, 1955 Meginniss, 12/9/52
#50302 Miller Elec: 2 switch outlets, 2 motors(1HP),1 Motor(2-5HP)-July 5, 1957
#50361 Astor Elec: 6 light outlets - July 12, 1957 OK 7/12/57 Meginniss
#58885 Astor Elec: 1 motor, 0-1 hp - 10/11/62
#59612 Astor Elec: 1 motor 0-1 HP, 1 cent. dist.-5/16/63
#68081 - Astor Elect. - 2 motors 0-1 HP 7/2/70

Plumbing Permit #50393-Alco Plumbing- change kitchen sink-11-30-73

COASTAL CONTROL ZONE

CUMULATIVE COST OF CONSTRUCTION OF PERMITS ISSUED

DATE ISSUED	PROCESS NO.	DESCRIPTION OF WORK	WORK COST	CUMULATIVE WORK COST	APPRAISED BLDG. VALUE BEFORE REMODEL	%	COMMENTS	BUILDING PERMIT NO.
5-23-89		Reroof with tiles	$10,500.00					SB8913827
6-21-89		New 15000 gls swimming pool	$11,000.00					8589003
6-26-89		Remodeling windows plastering painting	$33500.00					BS900319

GENERAL NOTES

The Electrical Contractor shall carefully examine the drawings and specifications, shall check and verify all dimensions, and shall examine existing conditions before commencing work. He shall report any discrepancy to the Architect before commencing work. All work to conform to the South Florida Building Code (Latest Edition) and all other applicable Federal, State, County and Municipal laws, codes, and regulations.

The Electrical Contractor is to be solely responsible for construction means, methods, techniques, sequences, procedures and for safety precautions and programs in connection with the work.

ELECTRICAL NOTES

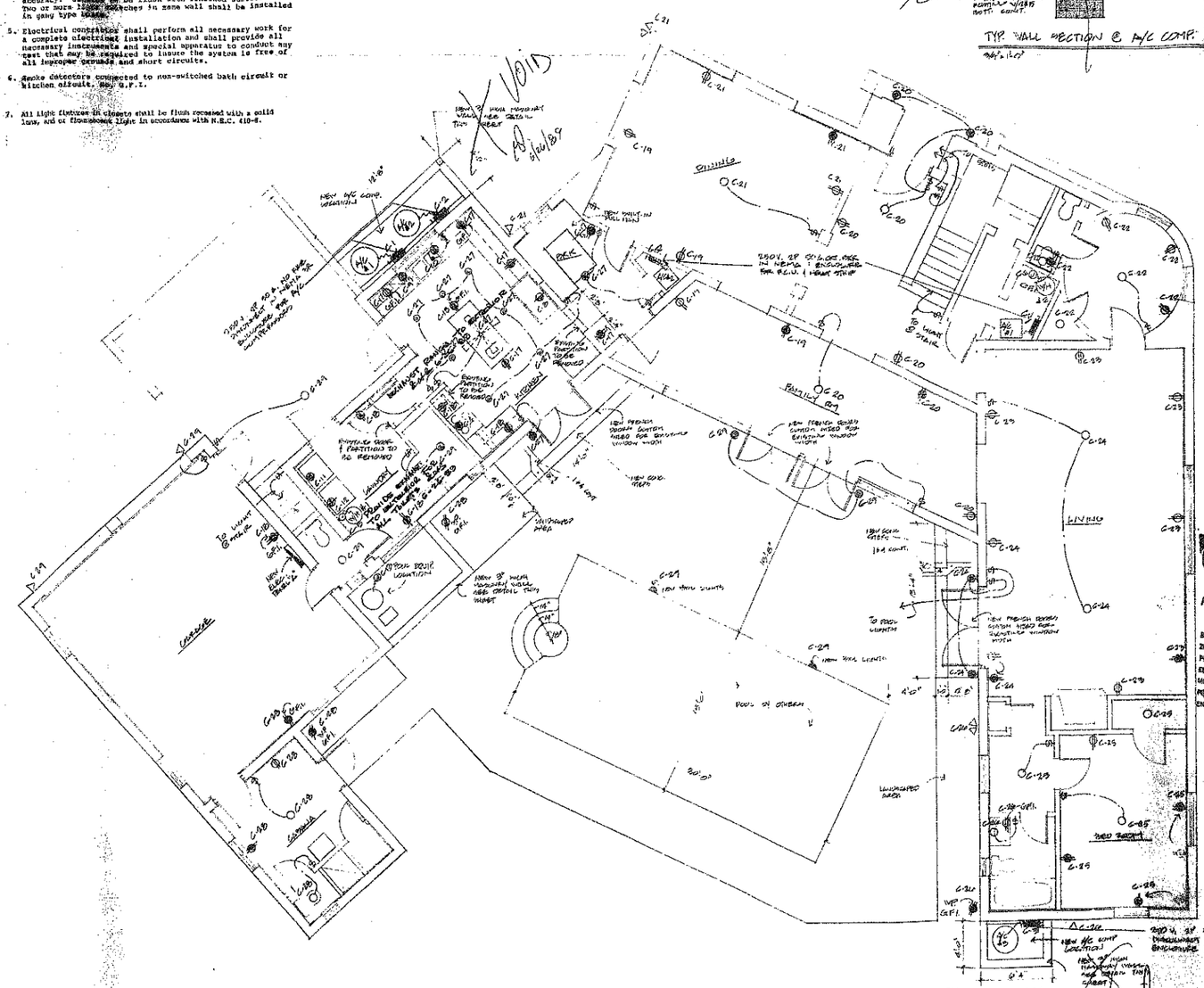
1. All electrical work shall comply with the National Electrical Code, South Florida Building Code and other applicable codes.
2. Cable and wire indicated on drawings shall be copper, 60 degrees C in sizes No. 14,12 and 10 AWG, 75 degrees C in sizes No. 8 and larger.
3. Conduit installed underground shall be PVC SCH. 40 conduit installed exposed to weather shall be IMC. Conduit installed elsewhere shall be EMT. Flexible conduit used where indicated shall be "Seal-Tite".
4. Generally outlet locations may be scaled with reasonable accuracy. Outlets to be flush with finished surface. Two or more 15AMP switches in same wall shall be installed in gang type boxes.
5. Electrical contractor shall perform all necessary work for a complete electrical installation and shall provide all necessary instruments and special apparatus to conduct any test that may be required to insure the system is free of all improper grounds and short circuits.
6. Smoke detectors connected to non-switched bath circuit or kitchen circuit. Min. G.F.I.
7. All light fixtures in closets shall be flush recessed with a solid lens, and or fluorescent light in accordance with N.E.C. 410-8.

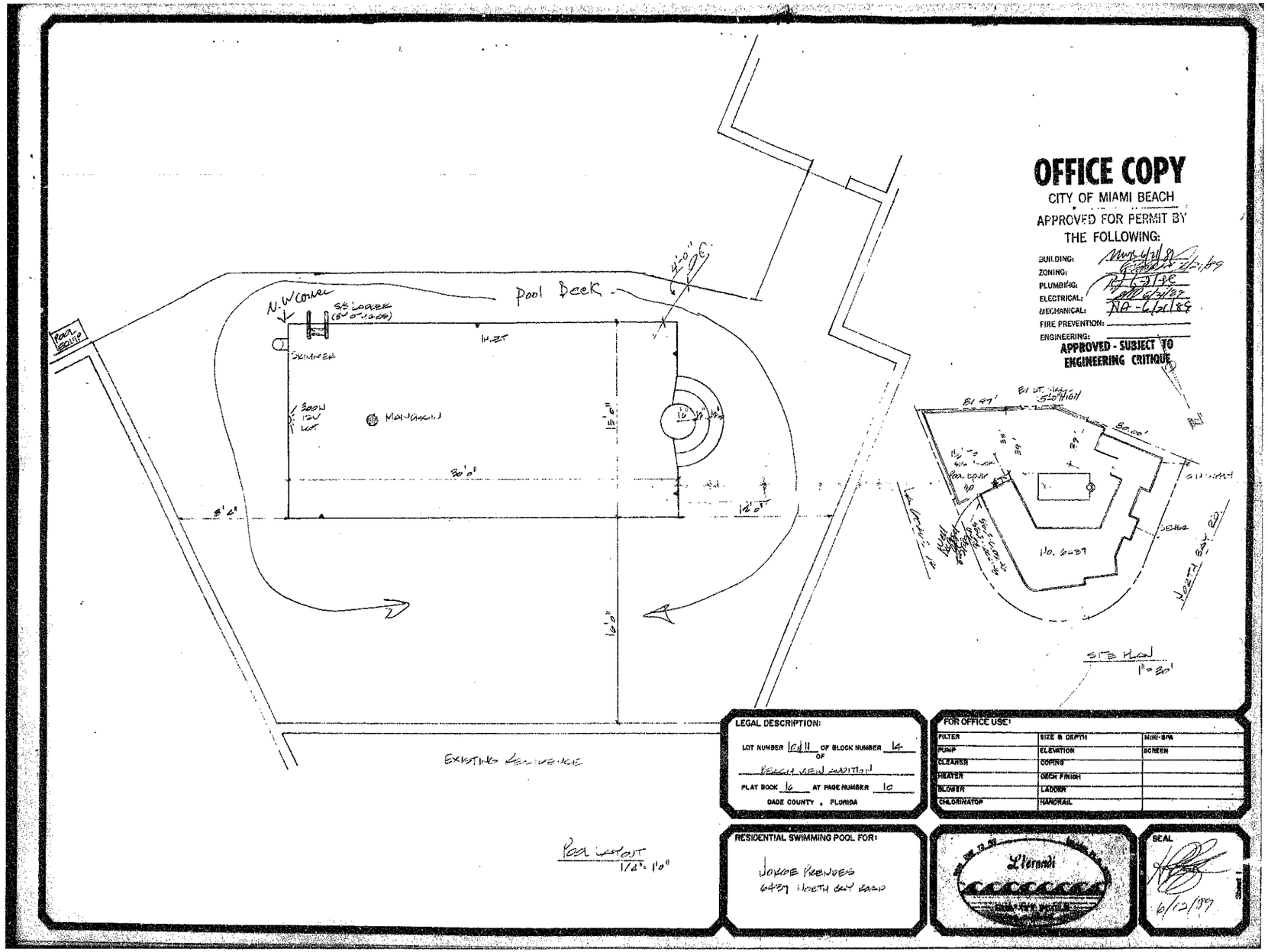
SCOPE OF WORK

1. NEW ELECTRICAL SERVICE & RE-WIRE SYSTEM
2. NEW UNDERGROUND PRIMARY LINES
3. RE-PLACE ALL EXISTING WINDOWS
4. RE-PAINT INTERIOR
5. RE-PAINT INTERIOR AND EXTERIOR
6. NEW A/C SYSTEM.

SYMBOL LEGEND

- NEW ELEC. OUTLETS
- NEW LIGHT FIXTURES
- EXISTING ELEC. OUTLETS TO REMAIN
- EXISTING LIGHTS TO REMAIN
- EXISTING OUTLETS TO BE RELOCATED AS SHOWN


NEW A/C COMP. LOCATION
NEW SPLIT-IN WALL UNIT
NEW FRENCH DOORS WITH SIDE LIGHTS
NEW FRENCH DOORS WITH SIDE LIGHTS AND TRANSOM WINDOW
NEW 30" HIGH LANDSCAPED PLANTER WITH CONCRETE CAP
NEW 6'-0" HIGH WOOD FENCE
NEW 3'-0" HIGH LANDSCAPED PLANTER WITH CONCRETE CAP
NEW 6'-0" HIGH WOOD FENCE
NEW 6'-0" HIGH WOOD FENCE
NEW 6'-0" HIGH WOOD FENCE



OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL: NA - 6/26/89
FIRE PREVENTION:
ENGINEERING:

APPROVED - SUBJECT TO ENGINEERING CRITIQUE

LEGAL DESCRIPTION:

LOT NUMBER 10 & 11 OF BLOCK NUMBER 14
OF
BEACH VIEW ADDITION
PLAT BOOK 16 AT PAGE NUMBER 10
DADE COUNTY, FLORIDA

FOR OFFICE USE:

FILTER	SIZE & DEPTH	MIN. SPA
PUMP	ELEVATION	SCREEN
CLEANER	COPING	
HEATER	DECK FINISH	
BLOWER	LADDER	
CHLORINATOR	HANDRAIL	

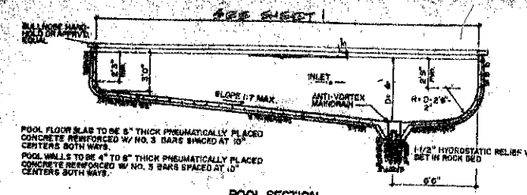
RESIDENTIAL SWIMMING POOL FOR:

JORGE RODRIGUES
6489 NORTH BAY ROAD

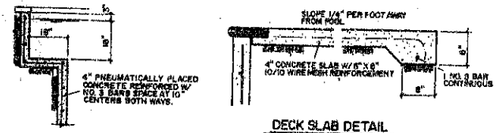
L'Eternité

SEAL

6/12/89

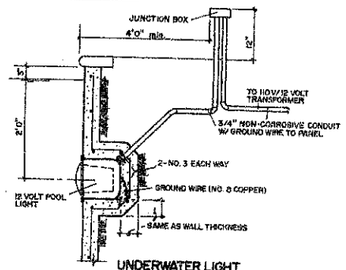


POOL SECTION

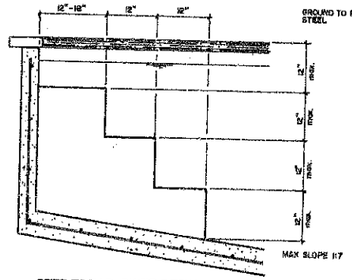


SWIMOUT DETAIL

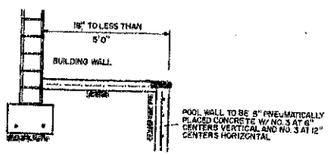
DECK SLAB DETAIL



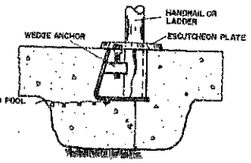
UNDERWATER LIGHT DETAIL



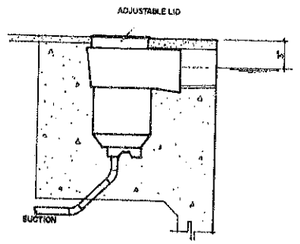
STEP TREAD-RISER DETAIL



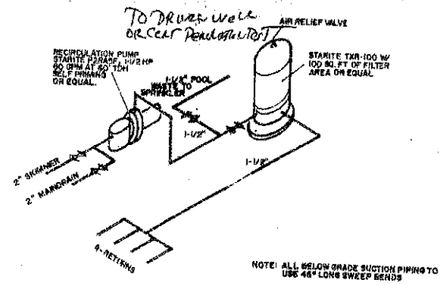
BUILDING-POOL SECTION



WEDGE ANCHOR DETAIL

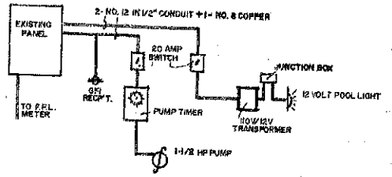


SKIMMER DETAIL



NOTE: ALL BELOW GRADE SUCTION PIPING TO USE 45° LONG SWEEP BENDS

EQUIPMENT ISOMETRIC



ELECTRICAL RISER DIAGRAM

GENERAL NOTES:

1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS WITHIN 28 DAYS:
   a. POOL STRUCTURE - 3500 PSI
   b. DECK SLABS - 2500 PSI
   c. FOOTINGS - 3000 PSI
2. REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. ALL POOL AND EQUIPMENT PIPING (EXCEPTION: OPTIONAL POOL HEATER) SHALL BE SCHEDULE 40, PVC-PW, NON-THREADED, NSF APPROVED.
4. HEATER (WHEN PROVIDED) SHALL HAVE A MINIMUM 4'0" OF COPPER OR CPVC PIPING AT INFLUENT AND EFFLUENT TO HEATER.
   a. HEATER SHALL HAVE ACCESSIBLE MANUAL SHUTOFF VALVE ON THE GAS LINE WITHIN 6 FEET OF HEATER.
   b. LPG SYSTEMS SHALL HAVE EMERGENCY SHUTOFF VALVES AT THE TANK.
5. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE.
6. ALL ELECTRICAL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 680 OF NATIONAL ELECTRICAL CODE.
7. NO OVERHEAD ELECTRIC WIRING SHALL BE LOCATED WITHIN 10 FEET OF POOL WATER EDGE.
8. POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH SOUTH FLORIDA BUILDING CODE, SECTION 5004.3
9. POOL HEATER SHALL BE LOCATED AWAY FROM ALL WINDOWS AND DOORS AND OUT FROM UNDER ALL ROOF OVERHANGS.
10. GAS STORAGE TANKS SHALL NOT BE LOCATED WITHIN 10 FEET OF ANY SPARK PRODUCING APPARATUS.

HYDROSTATIC UPLIFT

ELEVATION TOP OF POOL WALL	2.5
LESS POOL DEPTH	6.0
ELEVATION TOP OF MAINDRAIN	1.5
FLOOD CRITERIA	5.0
LESS ELEVATION TOP OF MAINDRAIN	1.5
POOL IN FLOOD CRITERIA	3.5
LESS 2'0" HYDROSTATIC VALVE	1.5
SLAB THICKNESS REQUIRED	2'

POOL DATA

POOL VOLUME 15,000 GALS.

TURNOVER RATE 4 HR. MIN.

SOIL STATEMENT

BASED ON A VISUAL INSPECTION OF THE SITE, SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE DESIGN BEARING OF 2000 PSF. IF DURING EXCAVATION, CONDITIONS OTHER THAN ABOVE ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED.

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CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: Mark 6/7/95
ZONING: 6/7/95
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RESIDENTIAL SWIMMING POOL FOR:

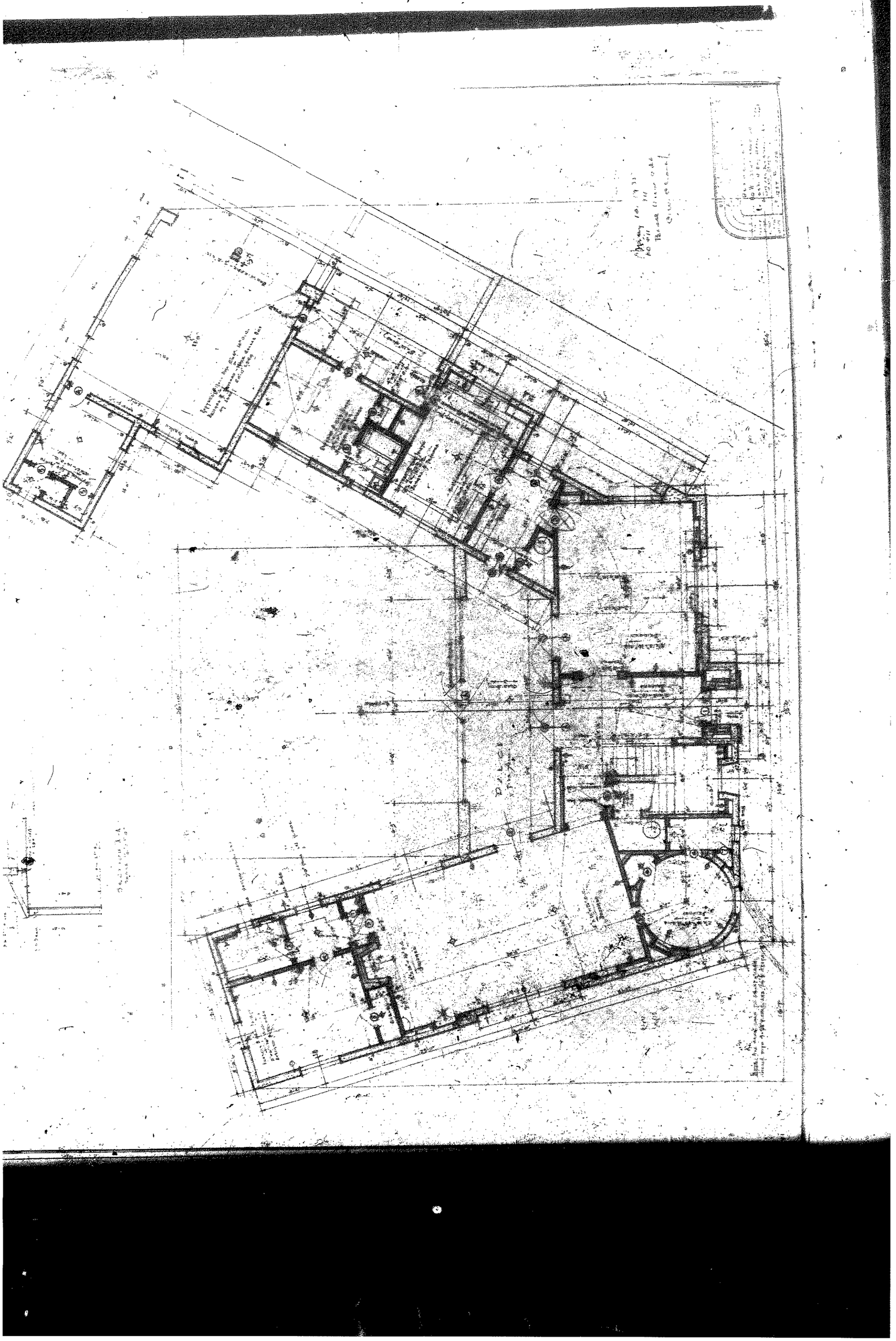
STANDARD DETAIL

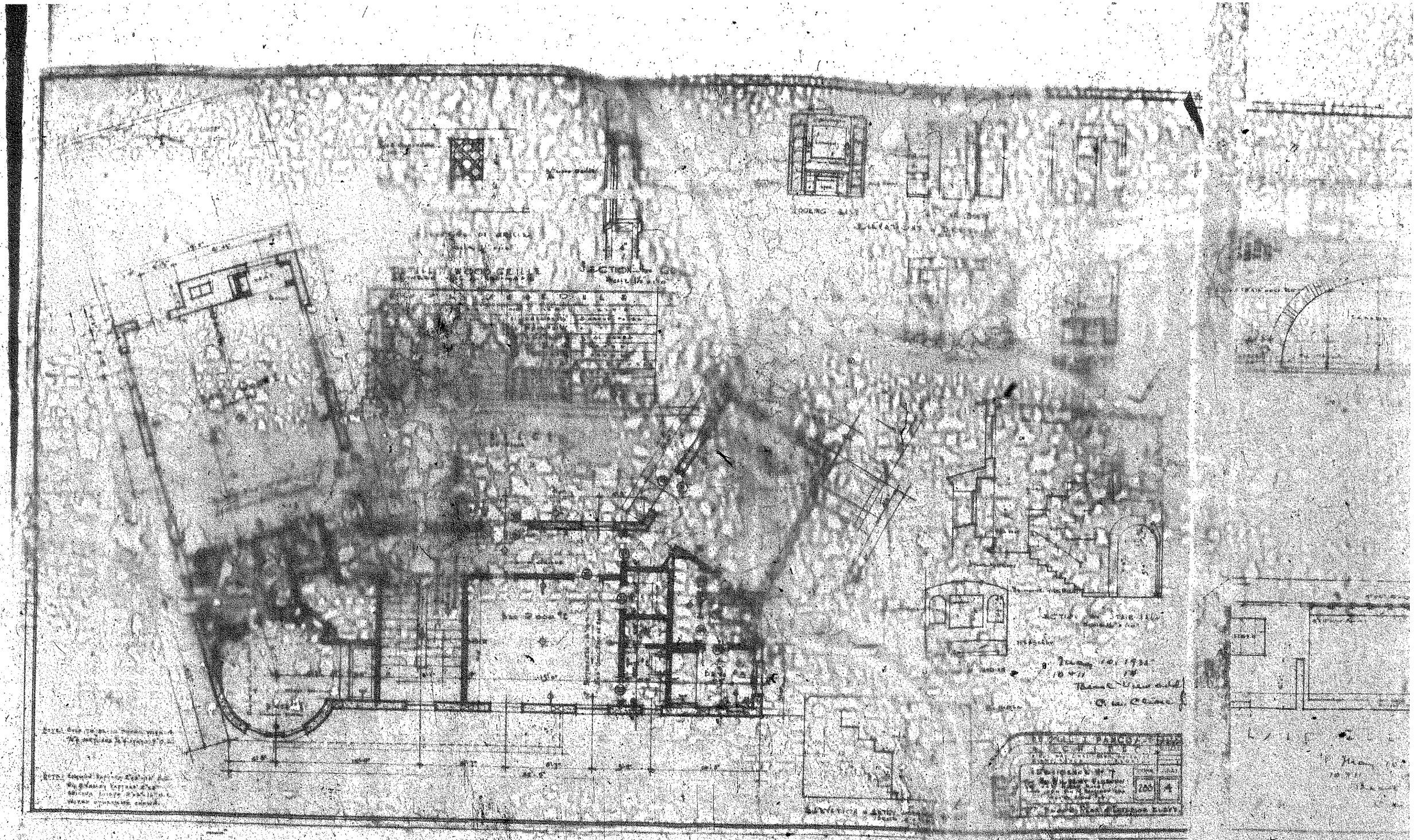
Llerandi

QUALITY POOLS

SEAL

6/12/95

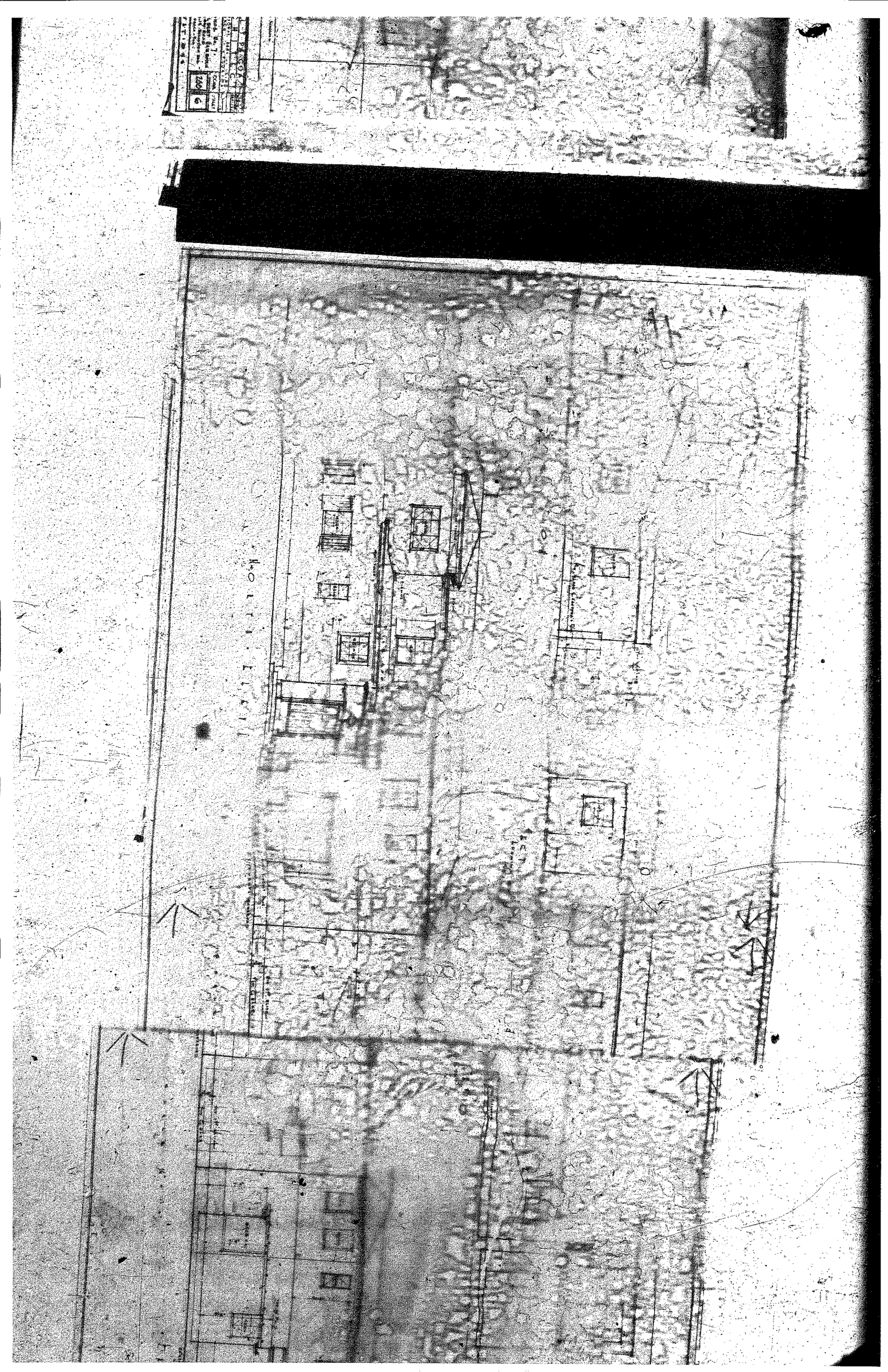




FLOOR FRAMING PLAN

Scale 1/4" = 1'-0"

Note: - pile outlets are shown below the 1st Floor



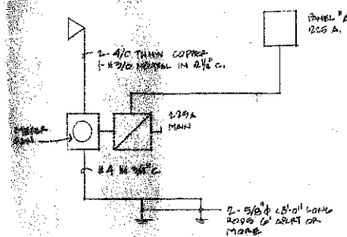
			RATING: 120/240 VOLT 1 PHASE, 3 WIRE		
			MAINS: 2-125 AMP. CKT. BKR.		
		50	2	10.0	2#6, 1"C.
		50	2	10.0	2#6, 1"C.
		50	2	10.0	2#6, 1"C.
		50	2	14.0	2#4, 1"C.
		30	2	4.9	2#10, ½"C.
		30	2	4.9	2#10, ½"C.
		30	2	4.9	2#10, ½"C.
		20	1	1.2	2#12, ½"C.
		20	1	1.2	2#12, ½"C.
		20	1	1.0	2#12, ½"C.
		30	2	5.0	2#10, ½"C.
		20	1	1.19	2#12, ½"C.
		20	3	2.9	2#12, ½"C.
		60	3	10.0	3#6, 1"C.
		20	1	1.8	2#12, ½"C.
		20	1	1.8	2#12, ½"C.
		30	1	4.5	2#10, ½"C.
		10	1	14.4	4#14, ½"C.
	TOTAL DEMAND LOAD			99.5	

ADD'D SQ. FT. @ 90 WATTS/SQ. FT. = $\frac{14400}{1000} = 14.4$

DEMAND LOAD

1ST KW @ 100% = 19.8
NEXT KW @ 100% = 10.0
REMAINDER @ 40% = 53.8
83.8

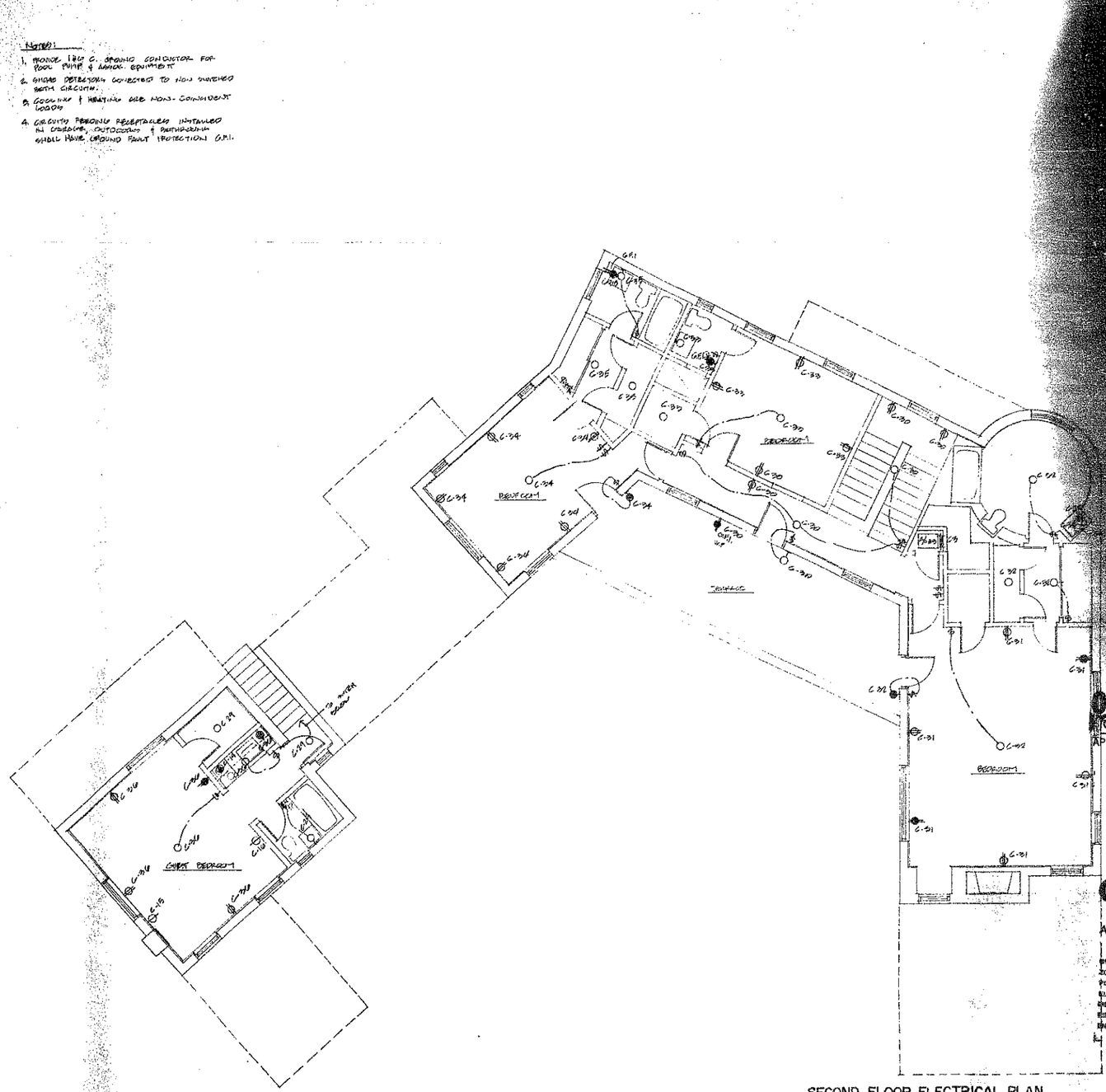
99.8 KW $\times \frac{1000}{240} = 412.00$ AMPS.



ELECTRICAL RISER DIAGRAM
N.T.S.

NOTES:

1. PROVIDE 1#10 C. SPARE CONDUCTOR FOR POOL PUMP & MOTOR EQUIPMENT
2. SHOWS OBSTRUCTIONS CONNECTED TO NON SWITCHED BATH CIRCUITS.
3. COOLING & HEATING ARE NON-COINCIDENT LOADS
4. CIRCUITS FEEDING RECEPTACLES INSTALLED IN CEILINGS, OUTDOORS & BATHROOMS SHALL HAVE GROUND FAULT PROTECTION G.F.I.



SECOND FLOOR ELECTRICAL PLAN

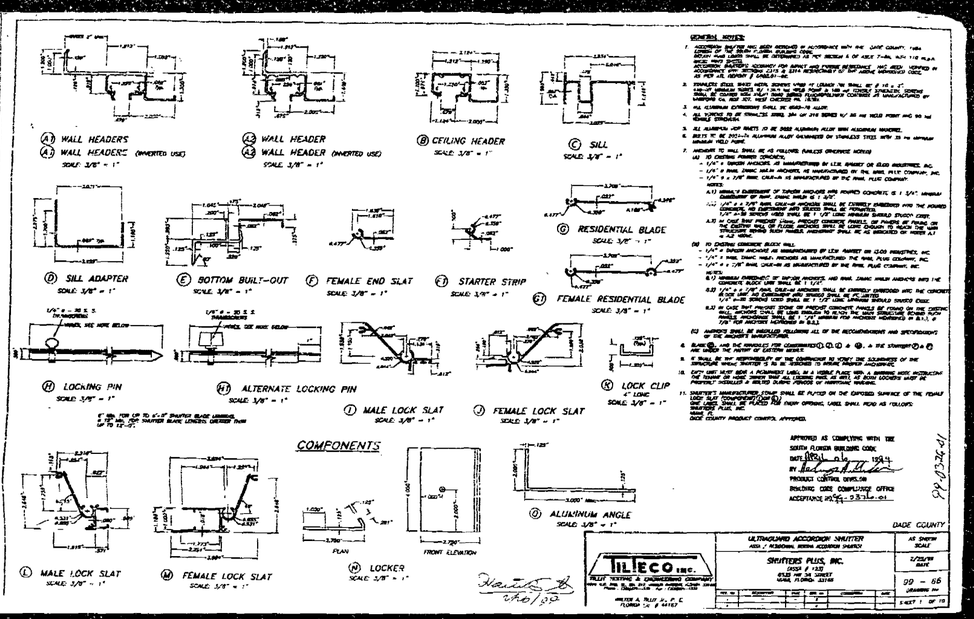
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT
THE FOLLOWING:
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

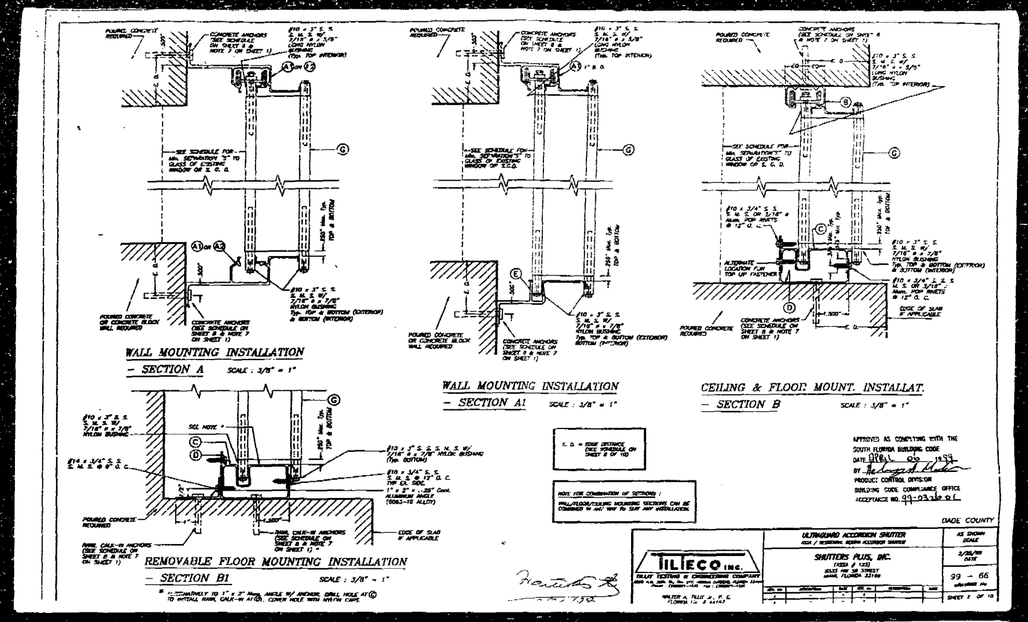
LASON
The Information Management Company

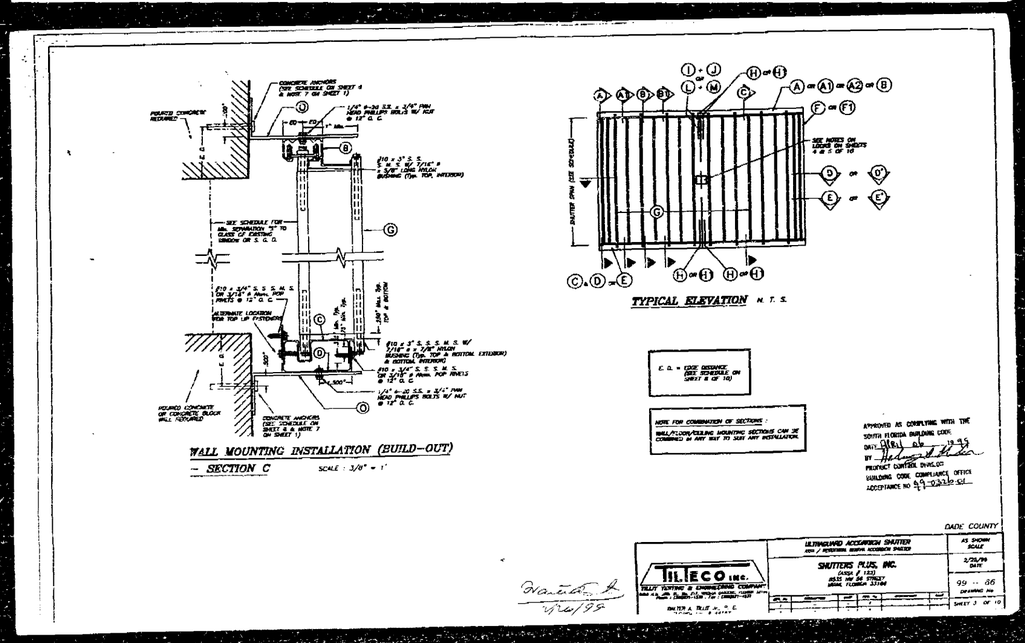
PERMIT #

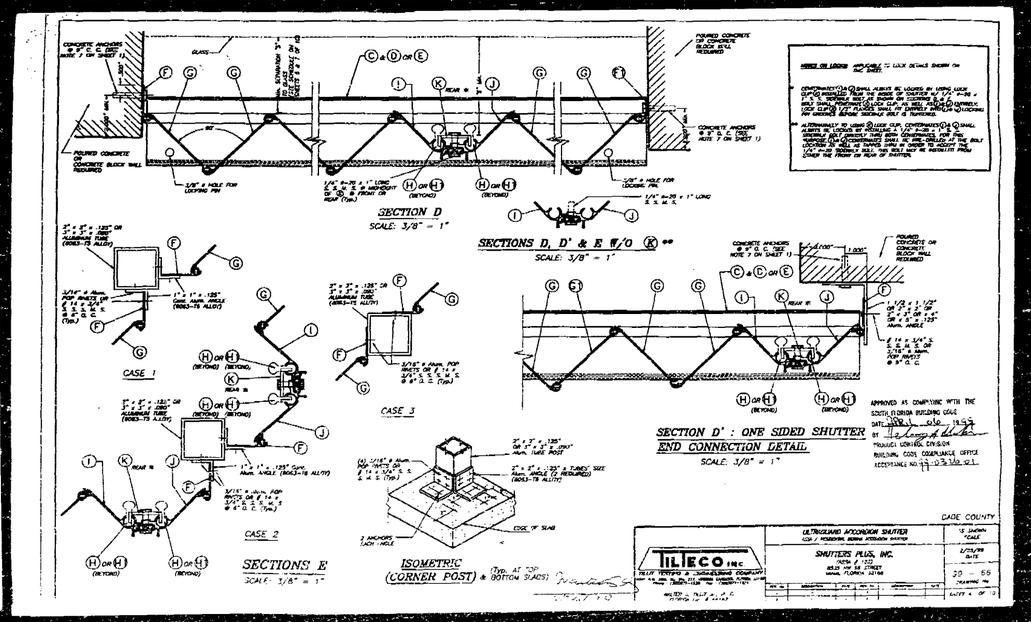
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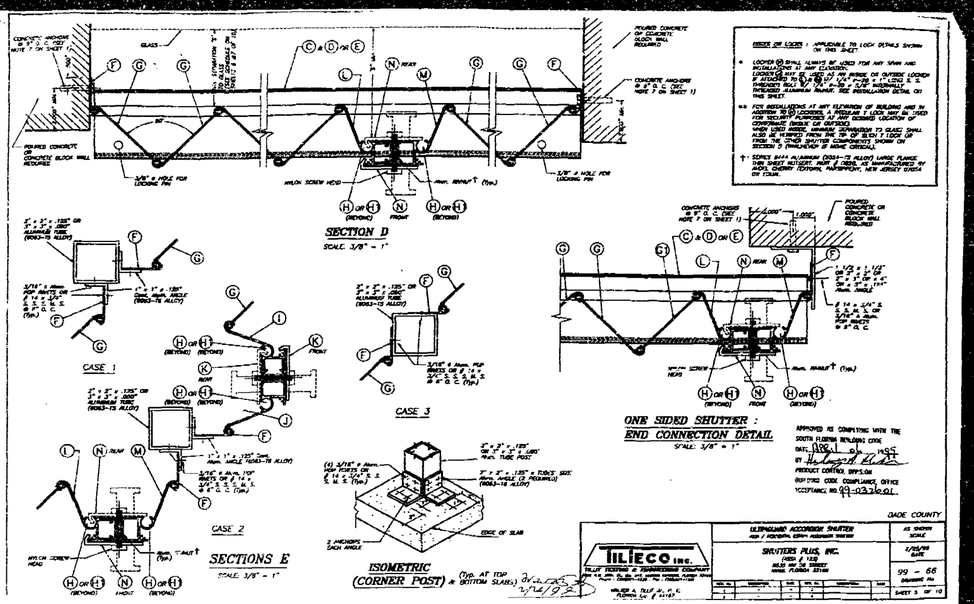

A1 WALL HEADER (INVERTED USE)
A2 WALL HEADER
A3 WALL HEADER (INVERTED USE)
B CEILING HEADER
C SILL
D SILL ADAPTER
E BOTTOM BUILT-OUT
F FEMALE END SLAT
F1 STARTER STRIP
G RESIDENTIAL BLADE
F1 FEMALE RESIDENTIAL BLADE
H LOCKING PIN
H1 ALTERNATE LOCKING PIN
I MALE LOCK SLAT
J FEMALE LOCK SLAT
K LOCK CLIP
L MALE LOCK SLAT
M FEMALE LOCK SLAT
N LOCKER
O ALUMINUM ANGLE
COMPONENTS
GENERAL NOTES:
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
DADE COUNTY
ULTRAGUARD ACCORDION SHUTTER
SHUTTERS PLUS, INC.
99 - 66
SHEET 1 OF 10


WALL MOUNTING INSTALLATION – SECTION A
WALL MOUNTING INSTALLATION – SECTION A1
CEILING & FLOOR MOUNT. INSTALLAT. – SECTION B
REMOVABLE FLOOR MOUNTING INSTALLATION – SECTION B1
E.D. = EDGE DISTANCE (SEE SCHEDULE ON SHEET 8 OF 10)
NOTE FOR COMBINATION OF SECTIONS: WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
DADE COUNTY
ULTRAGUARD ACCORDION SHUTTER
SHUTTERS PLUS, INC.
99 - 66
SHEET 2 OF 10


WALL MOUNTING INSTALLATION (BUILD-OUT) – SECTION C
TYPICAL ELEVATION N. T. S.
E.D. = EDGE DISTANCE (SEE SCHEDULE ON SHEET 8 OF 10)
NOTE FOR COMBINATION OF SECTIONS: WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
DADE COUNTY
ULTRAGUARD ACCORDION SHUTTER
SHUTTERS PLUS, INC.
99 - 66
SHEET 3 OF 10


SECTION D
SECTIONS D, D' & E W/O K
SECTION D' : ONE SIDED SHUTTER END CONNECTION DETAIL
CASE 1
CASE 2
CASE 3
SECTIONS E
ISOMETRIC (CORNER POST) & BOTTOM SLATS
HOLD OPEN LOCKS
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
DADE COUNTY
ULTRAGUARD ACCORDION SHUTTER
SHUTTERS PLUS, INC.
99 - 66
SHEET 4 OF 10

00031-5



LOCKS OR LOCKS : APPLICABLE TO LOCK DETAILS SHOWN ON THIS SHEET.

- LOCKED @ BOTH ALUMINUM SILL AND HEAD FOR ANY SPAN AND INSTALLATION TO ANY CLASSIFICATION.
- LOCKED @ SILL ALUMINUM SILL AND HEAD FOR ANY SPAN AND INSTALLATION TO ANY CLASSIFICATION. LOCKING BAR IS LOCATED AT TOP OF PANEL & 1" LONG & IS ATTACHED TO ONE OF THE TOP RAILS WITH (2) #10 x 1/2" SCREWS. EMBEDDED BOLT IS 3/8" x 3/4" INTERNALLY THREADED ALUMINUM INSERT. SEE INSTALLATION DETAIL ON THIS SHEET.
- ** FOR INSTALLATIONS AT ANY ELEVATION OF BUILDING AND IN HURRICANE ZONE, LOCKING AT TOP OF PANEL MAY BE OMITTED WHEN SPECIFIED ON SCHEDULE. ALTERNATE LOCKING LOCATION OF CONTINUOUS (BEGIN OR OUTSIDE) SHOWN USED ABOVE, MINIMUM SEPARATION TO GLASS SHALL ALSO BE MEASURED FROM THE TOP OF BEAM / DECK OR FROM THE UPPER SHUTTER COMPONENTS SHOWN ON SECTION D (INSTALLATION SAME DETAIL).
- † SERIES 8141 ALUMINUM EXTRUSION FLANGE MAY SHEET ALTOGETHER, PART # 08261, AS MANUFACTURED BY ALCO, CHERRY HILL, NEW JERSEY 08003 ON FOUND.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 1 69 1999
BY: Herbert H. Miller
PRODUCT CONTROL DIV'S ON
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0316-01

DADE COUNTY

TILLECO INC. — TILLIT TESTING & ENGINEERING COMPANY

ULTRAGUARD ACCORDION SHUTTER — HOR / HORIZONTAL ROLL ACCORDION SHUTTER — AS SHOWN SCALE

SHUTTERS PLUS, INC. (ADDA # 1233) 6535 NW 36 STREET MIAMI, FLORIDA 33166

2/25/99 DATE

99 - 66 DRAWING No.

SHEET 5 OF 10

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

(VALID FOR SECTIONS A, A1 & . ON SHEETS 2 & 3 OF 10).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-88 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
40.0	13'-1"	3 7/8"	3"
42.5	11'-11"	3 7/8"	3"
45.0	11'-0"	3 7/8"	3"
47.5	11'-0"	3 7/8"	3"
50.0	11'-0"	3 7/8"	3"
52.5	11'-0"	3 7/8"	3"
55.0	11'-0"	3 7/8"	3"
57.5	10'-10"	3 7/8"	3"
60.0	10'-7"	3 7/8"	3"
62.5	10'-4"	3 7/8"	3"
65.0	10'-2"	3 7/8"	3"
67.5	10'-0"	3 7/8"	3"
70.0	9'-10"	3 7/8"	3"
72.5	9'-8"	3 7/8"	3"
75.0	9'-6"	3 7/8"	3"
77.5	9'-5"	3 7/8"	3"
80.0	9'-3"	3 7/8"	3"
82.5	9'-2"	3 7/8"	3"

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
85.0	8'-11"	3 7/8"	3"
87.5	8'-8"	3 7/8"	3"
90.0	8'-5"	3 7/8"	3"
92.5	8'-3"	3 7/8"	3"
95.0	8'-1"	3 7/8"	3"
97.5	7'-10"	3 7/8"	3"
100.0	7'-8"	3 7/8"	3"
102.5	7'-6"	3 7/8"	3"
105.0	7'-3"	3 7/8"	3"
107.5	7'-1"	3 7/8"	3"
110.0	6'-11"	3 7/8"	3"
112.5	6'-10"	3 7/8"	3"
115.0	6'-8"	3 7/8"	3"
117.5	6'-6"	3 7/8"	3"
120.0	6'-5"	4 1/8"	3"
122.5	6'-3"	3 7/8"	3"
125.0	6'-1"	3 7/8"	3"
127.5	5'-10"	3 7/8"	3"
130.0	5'-10"	3 7/8"	3"
132.5	5'-8"	3 7/8"	3"
135.0	5'-6"	3 7/8"	3"
137.5	5'-5"	3 7/8"	3"

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
140.0	5'-4"	3 3/8"	3"
142.5	5'-3"	3 3/8"	3"
145.0	5'-1"	3 3/8"	3"
147.5	5'-0"	3 3/8"	3"
150.0	4'-11"	3 3/8"	3"
152.5	4'-10"	3 3/8"	3"
155.0	4'-9"	3 3/8"	3"
157.5	4'-8"	3 3/8"	3"
160.0	4'-7"	3 3/8"	3"
162.5	4'-6"	3 3/8"	3"
165.0	4'-5"	3 3/8"	3"
167.5	4'-4"	3 3/8"	3"
170.0	4'-3"	3 3/8"	3"
172.5	4'-2"	3 3/8"	3"
175.0	4'-1"	3 3/8"	3"
177.5	4'-1"	3 3/8"	3"
180.0	4'-0"	3 3/8"	3"

TABLE 1:

MINIMUM SEPARATION "S" BETWEEN GLASS AND SHUTTER FOR A GIVEN SHUTTER SPAN "L" FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. "30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER. MINIMUM SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 10.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S"
LESS OR EQUAL THAN 8'-0"	3 3/8"
28'-0" TO 12'-0"	3 7/8"

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING, SEE TABLE 1 FOR MINIMUM SEPARATION TO GLASS FOR SPANS SHOWN THAN THE MINIMUM SPANS SHOWN ON SCHEDULE.

** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 1 69 1999
BY: Herbert H. Miller
PRODUCT CONTROL DIV'S ON
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0316-01

DADE COUNTY

TILLECO INC. — TILLIT TESTING & ENGINEERING COMPANY

ULTRAGUARD ACCORDION SHUTTER — HOR / HORIZONTAL ROLL ACCORDION SHUTTER — SCALE

SHUTTERS PLUS, INC. (ADDA # 1233) 6535 NW 36 STREET MIAMI, FLORIDA 33166

2/25/99 DATE

99 - 66 DRAWING No.

SHEET 6 OF 10

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM SPAN "L" SCHEDULE.

(VALID FOR SECTION B & B1 ON SHEET 2 OF 10).

NOTE: DESIGN PRESSURE RATING CORRESPONDS ONLY TO NEGATIVE PRESSURE (SUCTION) LOADS, IN ACCORDANCE WITH ASCE 7-88 CRITERIA FOR A GIVEN OPENING. IF NEGATIVE PRESSURE VALUES COMPLY WITH THE REQUIRED PRESSURE FOR THE OPENING, THE POSITIVE PRESSURE WILL AUTOMATICALLY QUALIFY AND NEED NOT TO BE CHECKED.

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
40.0	13'-1"	3 7/8"	3"
42.5	11'-11"	3 7/8"	3"
45.0	11'-0"	3 7/8"	3"
47.5	11'-0"	3 7/8"	3"
50.0	11'-0"	3 7/8"	3"
52.5	11'-0"	3 7/8"	3"
55.0	11'-0"	3 7/8"	3"
57.5	10'-10"	3 7/8"	3"
60.0	10'-7"	3 7/8"	3"
62.5	10'-4"	3 7/8"	3"
65.0	10'-2"	3 7/8"	3"
67.5	10'-0"	3 7/8"	3"
70.0	9'-10"	3 7/8"	3"
72.5	9'-8"	3 7/8"	3"
75.0	9'-6"	3 7/8"	3"
77.5	9'-5"	3 7/8"	3"
80.0	9'-3"	3 7/8"	3"
82.5	9'-2"	3 7/8"	3"

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
85.0	8'-11"	3 7/8"	3"
87.5	8'-8"	3 7/8"	3"
90.0	8'-5"	3 7/8"	3"
92.5	8'-3"	3 7/8"	3"
95.0	8'-1"	3 7/8"	3"
97.5	7'-10"	3 7/8"	3"
100.0	7'-8"	3 7/8"	3"
102.5	7'-6"	3 7/8"	3"
105.0	7'-3"	3 7/8"	3"
107.5	7'-1"	3 7/8"	3"
110.0	6'-11"	3 7/8"	3"
112.5	6'-10"	3 7/8"	3"
115.0	6'-8"	3 7/8"	3"
117.5	6'-6"	3 7/8"	3"
120.0	6'-5"	4 1/8"	3"
122.5	6'-3"	3 7/8"	3"
125.0	6'-1"	3 7/8"	3"
127.5	5'-10"	3 7/8"	3"
130.0	5'-10"	3 7/8"	3"
132.5	5'-8"	3 7/8"	3"
135.0	5'-6"	3 7/8"	3"
137.5	5'-5"	3 7/8"	3"

MINIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S" TO GLASS (in.)	
		*	**
140.0	5'-4"	3 3/8"	3"
142.5	5'-3"	3 3/8"	3"
145.0	5'-1"	3 3/8"	3"
147.5	5'-0"	3 3/8"	3"
150.0	4'-11"	3 3/8"	3"
152.5	4'-10"	3 3/8"	3"
155.0	4'-9"	3 3/8"	3"
157.5	4'-8"	3 3/8"	3"
160.0	4'-7"	3 3/8"	3"
162.5	4'-6"	3 3/8"	3"
165.0	4'-5"	3 3/8"	3"
167.5	4'-4"	3 3/8"	3"
170.0	4'-3"	3 3/8"	3"
172.5	4'-2"	3 3/8"	3"
175.0	4'-1"	3 3/8"	3"
177.5	4'-1"	3 3/8"	3"
180.0	4'-0"	3 3/8"	3"

TABLE 1:

MINIMUM SEPARATION "S" BETWEEN GLASS AND SHUTTER FOR A GIVEN SHUTTER SPAN "L" FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ABOVE GRADE OF A GIVEN BUILDING. "30'-0" ELEVATION SHALL BE MEASURED AT BOTTOM OF SHUTTER. MINIMUM SEPARATION "S" TO BE MEASURED AS INDICATED ON SECTION D, SHEET 4 OF 10.

SHUTTER SPAN "L" (ft.)	MINIMUM SEPARATION "S"
LESS OR EQUAL THAN 8'-0"	3 3/8"
28'-0" TO 12'-0"	3 7/8"

* FOR SHUTTERS INSTALLED WITHIN THE FIRST 30'-0" ELEVATION OF BUILDING, SEE TABLE 1 FOR MINIMUM SEPARATION TO GLASS FOR SPANS SHOWN THAN THE MINIMUM SPANS SHOWN ON SCHEDULE.

** FOR SHUTTERS INSTALLED ABOVE 30'-0" ELEVATION OF BUILDING, MEASURED AT BOTTOM OF SHUTTER

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 1 69 1999
BY: Herbert H. Miller
PRODUCT CONTROL DIV'S ON
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0316-01

DADE COUNTY

TILLECO INC. — TILLIT TESTING & ENGINEERING COMPANY

ULTRAGUARD ACCORDION SHUTTER — HOR / HORIZONTAL ROLL ACCORDION SHUTTER — SCALE

SHUTTERS PLUS, INC. (ADDA # 1233) 6535 NW 36 STREET MIAMI, FLORIDA 33166

2/25/99 DATE

99 - 66 DRAWING No.

SHEET 7 OF 10

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING (in.) SCHEDULE. +

MAXIMUM DESIGN LOAD "W" (p.s.f.)	SECTION 1 & 2 WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)			SECTION 3 & 4 WALL MOUNTING INSTALLATION AT TOP OR BOTTOM (TO MASONRY & CONCRETE)			SECTION 5 & 6 CEILING & FLOOR MOUNTING INSTALLATION AT TOP OR BOTTOM (TO CONCRETE)		
	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 3
FROM 40.0 TO 62.5	13"	11"	8"	13"	8"	# 1/8"	13"	7"	# 1/8"
	13"	13"	10"	# 1/8"	# 1/8"	# 1/8"	13"	11"	8"
FROM 62.6 To 75.0	13"	8"	6"	11 1/8"	# 1/8"	6"	10"	8"	5"
	13"	13"	11 1/8"	8"	# 1/8"	6"	12"	9"	6"
FROM 75.1 TO 92.5	13"	7"	5"	6"	# 3 1/8"	# 1/8"	9"	6"	4"
	13"	10"	8"	# 1/8"	6"	4"	13"	# 1/8"	# 1/8"
FROM 92.6 TO 110.0	# 1/8"	9"	–	7"	# 1/8"	–	8"	5"	–
	13"	12"	–	9"	6"	–	# 1/8"	# 1/8"	–
FROM 110.1 TO 120.0	11"	8"	–	# 1/8"	5"	–	7"	4"	–
	13"	13"	–	# 1/8"	# 1/8"	–	# 1/8"	# 1/8"	–
FROM 120.1 TO 180.0	10"	7"	–	6"	4"	–	6"	3"	–
	13"	11"	–	# 1/8"	# 1/8"	–	# 1/8"	# 1/8"	–

ANCHOR SPACING LEGEND

(1) Max. ANCHOR SPACE VALID FOR SPANS OF 3'-0" OR LESS.
(2) Max. ANCHOR SPACE VALID FOR SPANS OVER 3'-0" TO 6'-0".
(3) Max. ANCHOR SPACE VALID FOR SPANS GREATER THAN 6'-0" TO Max. ALLOWED.

2 MAC MULL
"MCON OR RAWL CALK-IN
ANCHOR SPACING LEGEND

NOTES ON ANCHOR SPACING SCHEDULE

+ SEE SHEETS 8 & 10 OF 10 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD / Wood BUILDINGS.
MINIMUM ANCHOR SPACING ARE VALID FOR 2 1/2" EDGE DISTANCE. FOR EDGE DISTANCE LESS THAN 2 1/2" MULTIPLY BY THE VALUE FOR THE SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (Mcl, C. D. YGI RAWL CALK-IN IS 2 1/2").

ACTUAL E. D.= EDGE DISTANCE	FACTOR	
	MASON / CONC NAIL	RAWL CALK-IN
2"	.86	.75
2 1/2"	1"	1"
3"	1"	1"

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: APR 1 69 1999
BY: Herbert H. Miller
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0316-01

DADE COUNTY

TILLECO INC. — TILLIT TESTING & ENGINEERING COMPANY

ULTRAGUARD ACCORDION SHUTTER — HOR / HORIZONTAL ROLL ACCORDION SHUTTER — SCALE

SHUTTERS PLUS, INC. (ADDA # 1233) 6535 NW 36 STREET MIAMI, FLORIDA 33166

2/25/99 DATE

99 - 66 DRAWING No.

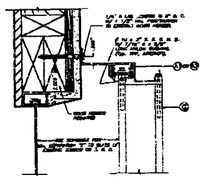
SHEET 8 OF 10

99-0316-01

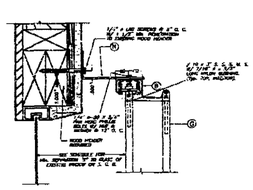
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES :
1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN 75 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
2. FOR NEW WOOD FRAME CONSTRUCTION WOOD MEMBERS TO BE SOUTHERN PINE No. 2 W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

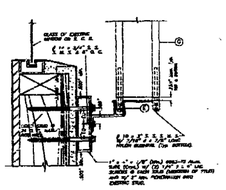
FOR PLY COMBINATION OF SECTIONS :
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



ALTERNATIVE 1



ALTERNATIVE 2



ALTERNATIVE 3

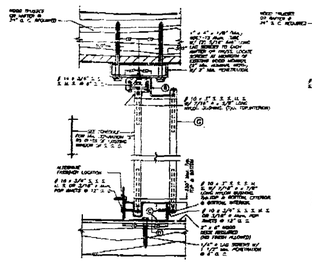
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 4/29/99
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0330.01

WALL MOUNTING INSTALLATION – SECTIONS A

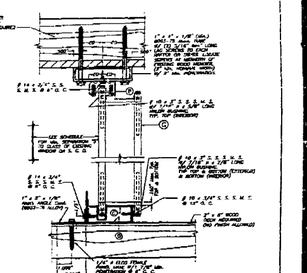
SCALE 1/4" = 1"

DADE COUNTY

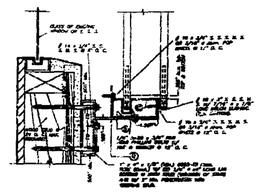
TILLECO INC. FIELD TESTING & ENGINEERING COMPANY 3440 NW 54 STREET MIAMI, FLORIDA 33142 WALTER A. TILLY P.E. FLORIDA No. 24167	ULTRAGUARD ACCORDION SHUTTER ASA / RESIDENTIAL SERIES ACCORDION SHUTTER		All Sections Scale
	SHUTTERS PLUS, INC. 14004 S 133 RD AVE SW 326TH MIAMI, FLORIDA 33186		4/29/99 Date
			99 - 85 Drawing No.
			Sheet 9 of 10



CEILING & FLOOR MOUNTING INSTALLATION – SECTION "I"
SCALE: 1/4" = 1"



CEILING & FLOOR MOUNTING INSTALLATION – SECTION "H"
SCALE: 1/4" = 1"



ALTERNATIVE 4

WALL MOUNTING INSTALLATION – SECTION A

SCALE: 1/4" = 1"

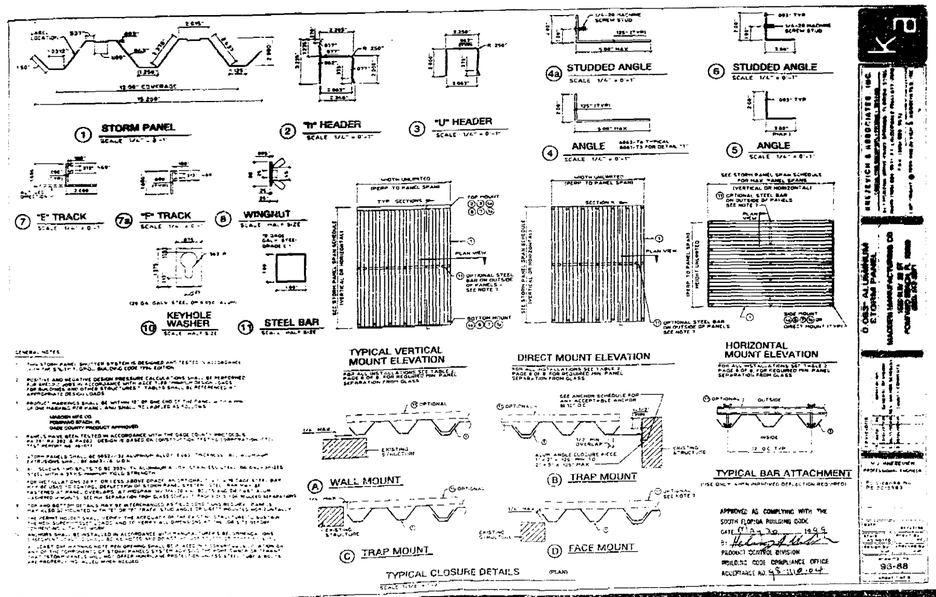
NOTE :
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

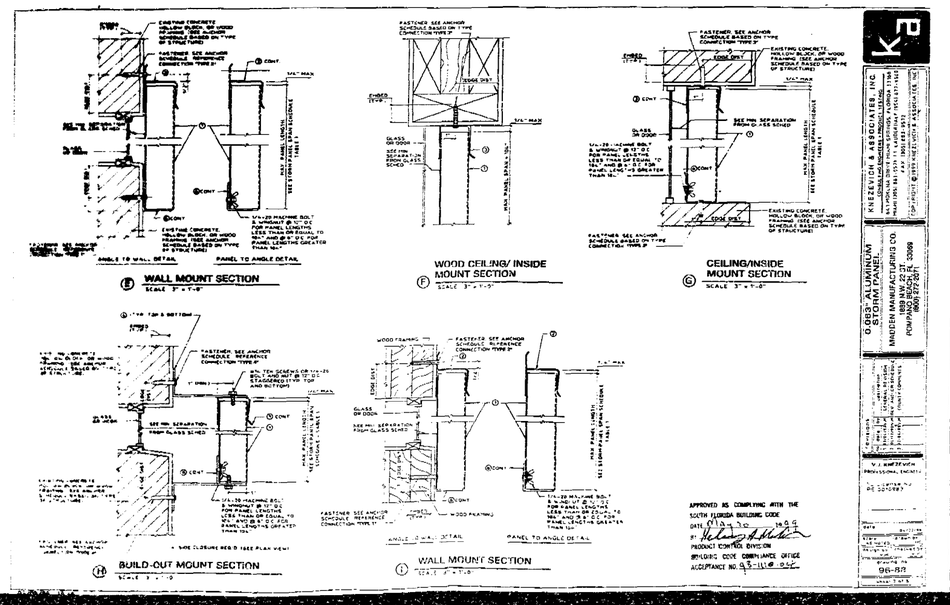
NOTES :
1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH DESIGN WIND LOADS LESS OR EQUAL THAN 75 p.s.f. AND 9'-0" Max. SHUTTER SPAN.
2. FOR NEW WOOD FRAME CONSTRUCTION WOOD MEMBERS TO BE SOUTHERN PINE No. 2 W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 4/29/99
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0330.01

DADE COUNTY

TILLECO INC. FIELD TESTING & ENGINEERING COMPANY 3440 NW 54 STREET MIAMI, FLORIDA 33142 WALTER A. TILLY P.E. FLORIDA No. 24167	ULTRAGUARD ACCORDION SHUTTER ASA / RESIDENTIAL SERIES ACCORDION SHUTTER		All Sections Scale
	SHUTTERS PLUS, INC. 14004 S 133 RD AVE SW 326TH MIAMI, FLORIDA 33186		1/16/99 Date
			99 - 66 Drawing No.
			Sheet 10 of 10

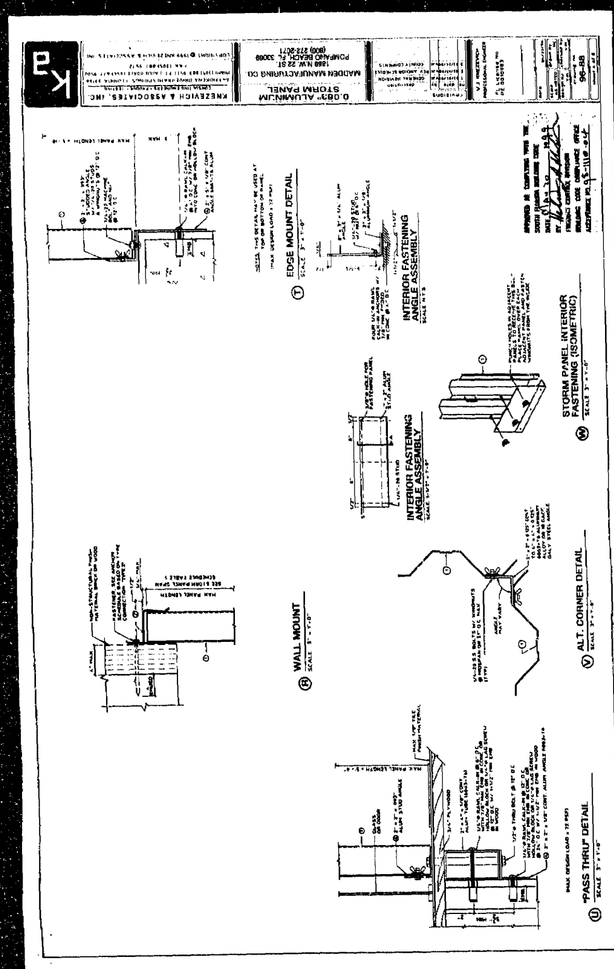


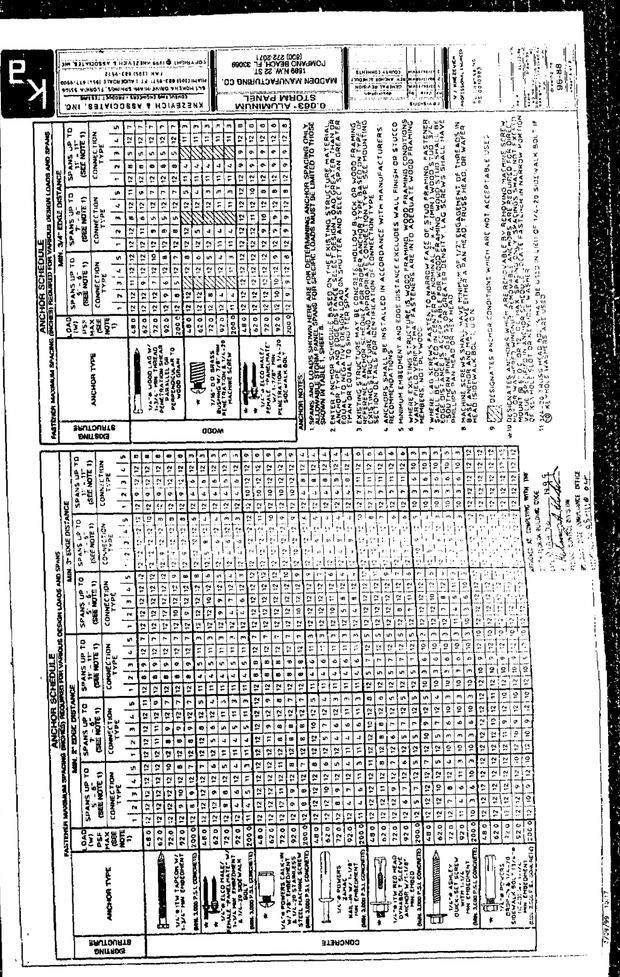


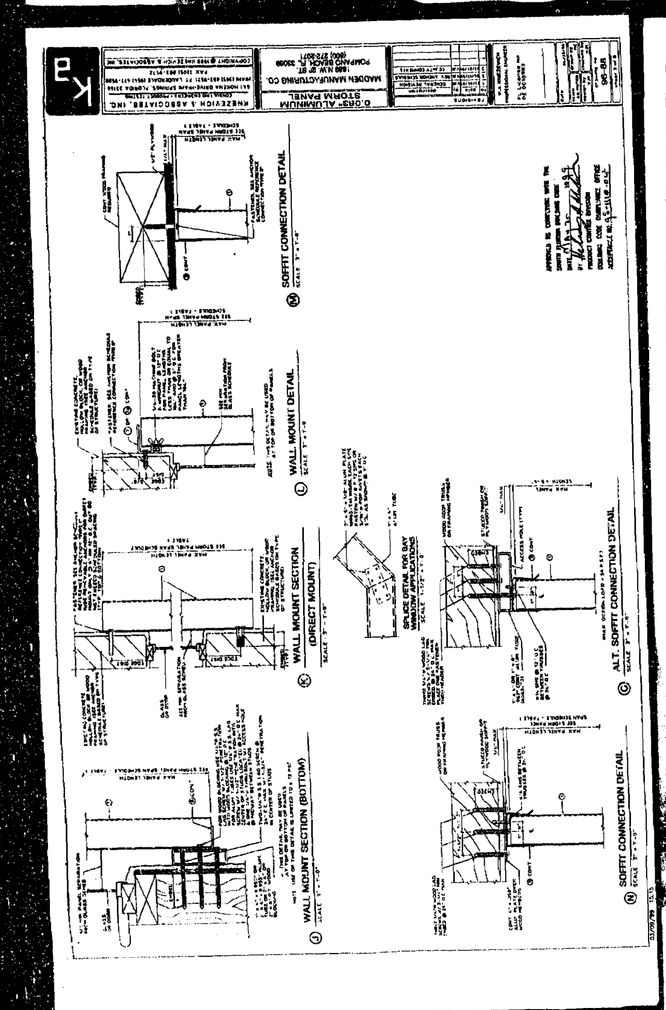
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 4/29/99
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0330.01

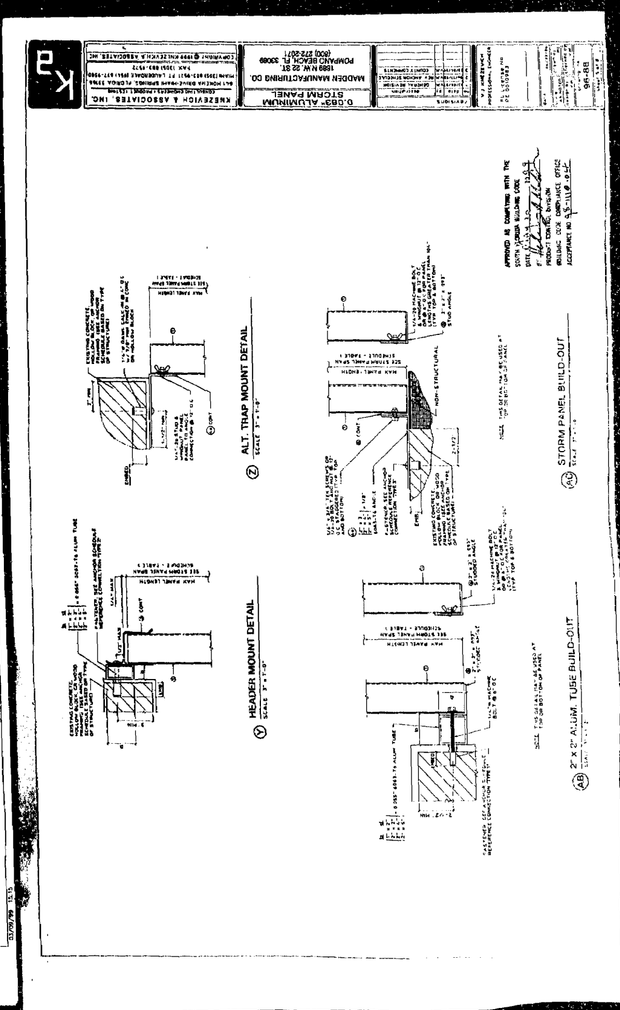
ENGINEERING & ARCHITECTURE INC. 3440 NW 54 STREET MIAMI, FLORIDA 33142	ULTRAGUARD ACCORDION SHUTTER ASA / RESIDENTIAL SERIES ACCORDION SHUTTER		All Sections Scale
	SHUTTERS PLUS, INC. 14004 S 133 RD AVE SW 326TH MIAMI, FLORIDA 33186		4/29/99 Date
			99 - 88 Drawing No.
			Sheet 11 of 12

88-1 E3 C3 E









ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXISTING CONDITIONS	ANCHOR TYPE	LOAD (+/-) PSF MIN (SEE NOTE 1)	MIN. 2" EDGE DISTANCE: SPANS UP TO 5'-5" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5	SPANS UP TO 7'-5" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5	SPANS UP TO 11'-11" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5	MIN. 3" EDGE DISTANCE: SPANS UP TO 5'-5" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5	SPANS UP TO 7'-5" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5	SPANS UP TO 11'-11" (SEE NOTE 1) CONNECTION TYPE 1 2 3 4 5
HOLLOW CONCRETE BLOCK	1/4"ø TAPCON W/ 1 1/4" MIN EMBEDMENT	48.0	12 12 9 12 5	10 6 7 10 3	7 4 7	12 12 11 12 6	10 9 5 12 6	5 3 5 8
		62.0	12 10 7 12 4	9 3 5 9 3	7 4 7	12 11 9 12 4	10 6 6 10 3	8 3 5 8
		72.0	11 5 6 11 3	8 [/] 6 [/] 3	7 4 7	12 6 7 12 4	9 3 5 9 [/]	8 3 5 8
		92.0	8 3 5 8 [/]	7 [/] 4 [/] 3	7 4 7	9 3 6 9 3	8 [/] 5 8 [/]	6 3 5 8
		200.0	7 [/] 4 7 [/]	6 [/] 3 [/] 3	7 4 7	8 3 5 8 [/]	6 [/] 4 [/] 3	5 3 5 8
	1/4"ø ELCO MAILY SCHALL PLANELOCK W/ 1 1/4" EMBEDMENT & 1/4" STAINLESS BOLT	48.0	12 12 12 12 7	12 12 8 12 5	11 4 5 11 3	12 12 12 12 8	12 12 10 12 6	12 4 6 12 3
		62.0	12 12 9 12 6	12 5 6 12 4	11 4 5 11 3	12 12 10 12 6	12 3 6 12 4	12 4 6 12 3
		72.0	12 8 8 12 5	11 4 5 11 3	11 4 5 11 3	12 9 9 12 5	12 4 6 12 4	12 4 6 12 3
		92.0	12 4 6 12 4	11 4 5 11 3	11 4 5 11 3	12 4 7 12 4	12 4 6 12 3	12 4 6 12 3
		200.0	11 4 5 11 3	11 4 5 11 3	11 4 5 11 3	12 4 6 12 3	12 4 6 12 3	12 4 6 12 3
	1/4"ø POWERS CAMEL HAS-IN W/ 1 1/4" EMBEDMENT & 1/4" STAINLESS STEEL MACHINE SCREW	48.0	12 12 10 12 5	12 5 5 12 3	10 3 4 10 3	12 12 12 12 6	12 6 6 12 4	12 4 7 12 4
		62.0	12 9 7 12 4	10 5 5 10 3	10 3 4 10 3	12 12 12 12 5	12 4 7 12 4	12 4 7 12 4
		72.0	12 7 6 12 4	10 5 5 10 3	10 3 4 10 3	12 9 10 12 5	12 4 7 12 4	12 4 7 12 4
		92.0	11 4 5 11 3	10 3 5 10 3	10 3 4 10 3	12 5 8 12 4	12 4 7 12 4	12 4 7 12 4
		200.0	10 3 4 10 3	10 3 - 10 3	10 3 4 10 3	12 4 7 12 4	12 4 7 12 4	12 4 7 12 4
	1/4"ø POWERS DAMAL HAS-IN W/ 1 1/4" MIN EMBEDMENT	48.0	12 12 8 12 4	9 6 6 9 3	6 3 6	12 12 12 12 5	12 8 8 12 4	8 5 6 8
		62.0	12 10 6 12 4	9 5 6 9 3	6 3 6	12 12 11 9 12	4 10 4 7 10 3	8 5 6 8
		72.0	10 5 6 10 3	7 [/] 5 [/] 3	6 3 6	11 8 11 3 8	3 6 8 [/]	8 5 6 8
		92.0	8 3 5 8 [/]	7 [/] 4 [/] 3	6 3 6	9 3 6 9 3	8 [/] 5 8 [/]	8 5 6 8
		200.0	7 [/] 4 7 [/]	6 [/] 3 [/] 3	6 3 6	8 [/] 5 8 [/]	6 [/] 4 [/] 3	8 5 6 8
	1/4"ø HILTI HUS WITH HUS-H 1 1/4" MIN EMBED	48.0	12 12 8 12 4	9 6 6 9 3	6 3 6	12 12 12 12 5	12 8 8 12 4	8 5 6 8
		62.0	10 5 6 10 3	7 [/] 5 [/] 3	6 3 6	12 10 9 12 4	9 5 6 9 3	8 5 6 8
		72.0	9 4 5 9 [/]	6 [/] 4 [/] 3	6 3 6	11 6 8 11 3	8 [/] 5 8 [/]	8 5 6 8
		92.0	7 [/] 4 7 [/]	6 [/] 3 [/] 3	6 3 6	8 [/] 5 8 [/]	6 [/] 4 [/] 3	8 5 6 8
		200.0	6 [/] 3 6 [/]	6 [/] 3 [/] 3	6 3 6	8 [/] 5 8 [/]	6 [/] 4 [/] 3	8 5 6 8
	1/4"ø ASHLEY QUICK-SET SCREW WITH 1 1/4" MIN EMBEDMENT	48.0	12 12 12 12 7	12 10 9 12 5	10 3 6 10 3	12 12 12 12 7	12 10 12 12 5	12 5 7 12 4
		62.0	12 12 10 12 5	12 5 7 12 4	10 3 6 10 3	12 12 12 12 10	12 5 12 12 4	10 3 6 10 3
		72.0	12 7 8 12 4	10 5 6 10 3	10 3 6 10 3	12 7 8 12 4	10 3 6 10 3	10 3 6 10 3
		92.0	11 4 6 11 3	10 3 6 10 3	10 3 6 10 3	12 4 7 12 4	10 3 6 10 3	10 3 6 10 3
		200.0	10 3 6 10 3	10 3 6 10 3	10 3 6 10 3	12 4 7 12 4	10 3 6 10 3	10 3 6 10 3

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, SHEET 8.
2. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
3. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE AS SPECIFIED FOR EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS MEANS FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
7. WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/16" DIA. PILOT HOLE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE DOUGLAS FIR #2 OR BETTER OR SOUTHERN PINE #2 OR BETTER DENSITY. LAG SCREWS SHALL BE 1/4" DIA. PHILLIPS PAN HEAD OR HEX HEAD.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SEMS WALT SEC. T). U.O.N.
9. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
10. ⊕ DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHER (IF PRESENT). REMOVABLE ANCHORS ARE REQUIRED FOR SHUTTER MOUNTED @ 6'-0" OR 12'-0" O.C. MAX. SPACING ONLY. SPACING SHALL NOT EXCEED VALUE SPECIFIED IN ANCHOR SCHEDULE. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE SLOT OR KEYHOLE WASHER.
11. 1/4"-20 TRUSS HEAD BOLTS MAY BE USED IN LIEU OF 1/4"-20 SIDEWALK BOLT IF (6) KEYHOLE WASHERS ARE USED.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 11/04/99
BY: [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-1118.04

K2

K. BREZEVICH & ASSOCIATES, INC.
CERTIFICATE OF AUTHORIZATION NO. 6855
2000 SOUTH DIXIE HIGHWAY, SUITE 205, WEST PALM BEACH, FLORIDA 33401
PHONE (561) 833-3123 FAX (561) 833-3124

COPYRIGHT © 1999 K. BREZEVICH & ASSOCIATES, INC.

O.DESS ALUMINUM STORM PANEL

MADDEN MANUFACTURING CO.
POMPANO BEACH, FL 33069
(800) 272-2071

REVISIONS	
1	
2	
3	
4	
5	

V.A. KREZEVICH
PROFESSIONAL ENGINEER
FL LICENSE NO. PE 0019983

DATE: 11/03/99
JOB NO.: 99-111
SCALE: AS NOTED
DRAWING NO.: 96-88
SHEET: 7 OF 9

11/09/99 15:17

STORM PANEL SPAN

STORM PANEL SCHEDULE

INSTALL 1

NEGATIVE DESIGN LOAD W (PSF)	FOR ALL MOUNTING CONDITIONS L MAX (FT-IN)
30.0	11 - 11
35.0	11 - 5
40.0	10 - 9
45.0	10 - 1
50.0	9 - 7
55.0	9 - 2
60.0	8 - 9
65.0	8 - 5
70.0	7 - 10
75.0	7 - 3
80.0	6 - 10
90.0	6 - 1
100.0	5 - 6
110.0	5 - 0
120.0	4 - 7
130.0	4 - 2
140.0	3 - 11
150.0	3 - 8
160.0	3 - 5
170.0	3 - 2
180.0	3 - 0
190.0	2 - 10
200.0	2 - 9

MIN. SEPARATION FROM GLASS SCHEDULE

INSTALL 2

POSITIVE DESIGN LOADING (PSF)	ACTUAL SHUTTER SPAN (L) (FT - IN)	MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE (INCHES) BAR	MINIMUM SEPARATION FOR INSTALLATIONS 30' OR LESS ABOVE GRADE (INCHES) NO BAR	MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES) NO BAR
30.0	3 - 0	2-3/8	2-3/4	1-1/2
	4 - 0	2-3/8	2-3/4	1-1/2
	5 - 0	2-3/8	2-3/4	1-1/2
	7 - 0	2-3/8	2-3/4	1-3/8
	8 - 8	2-3/8	2-3/4	1-7/8
	11 - 11	4-1/4	4-1/4	3-5/8
40.0	3 - 0	2-3/8	2-3/4	1-1/8
	4 - 0	2-3/8	2-3/4	1-1/8
	5 - 0	2-3/8	2-3/4	1-1/4
	7 - 0	2-3/8	2-3/4	1-1/2
	8 - 8	2-3/8	2-3/4	2
	10 - 9	4-1/4	4-1/4	3-1/4
50.0	3 - 0	2-3/8	2-3/4	1-1/8
	4 - 0	2-3/8	2-3/4	1-1/4
	5 - 0	2-3/8	2-3/4	1-1/4
	7 - 0	2-3/8	2-3/4	1-1/2
	8 - 8	2-3/8	2-3/4	2-1/4
	9 - 7	4-1/4	4-1/4	2-7/8
60.0	3 - 0	2-3/8	2-3/4	1-1/8
	4 - 0	2-3/8	2-3/4	1-1/4
	5 - 0	2-3/8	2-3/4	1-1/4
	7 - 0	2-3/8	2-3/4	1-1/2
	8 - 8	2-3/8	2-3/4	2-3/8
	9 - 9	4-1/4	4-1/4	3-3/8
70.0	3 - 0	2-3/8	2-3/4	1-1/8
	4 - 0	2-3/8	2-3/4	1-1/4
	5 - 0	2-3/8	2-3/4	1-1/4
	6 - 0	2-3/8	2-3/4	1-3/8
	7 - 0	2-3/8	2-3/4	2-3/4
	7 - 10	4-1/4	4-1/4	2

NOTES

1. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. PANEL SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
2. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SEPARATION FROM GLASS.
3. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 11/04/99
BY: [signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-1118.04

K2

K. BREZEVICH & ASSOCIATES, INC.
CERTIFICATE OF AUTHORIZATION NO. 6855
2000 SOUTH DIXIE HIGHWAY, SUITE 205, WEST PALM BEACH, FLORIDA 33401
PHONE (561) 833-3123 FAX (561) 833-3124

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O.DESS ALUMINUM STORM PANEL

MADDEN MANUFACTURING CO.
POMPANO BEACH, FL 33069
(800) 272-2071

REVISIONS	
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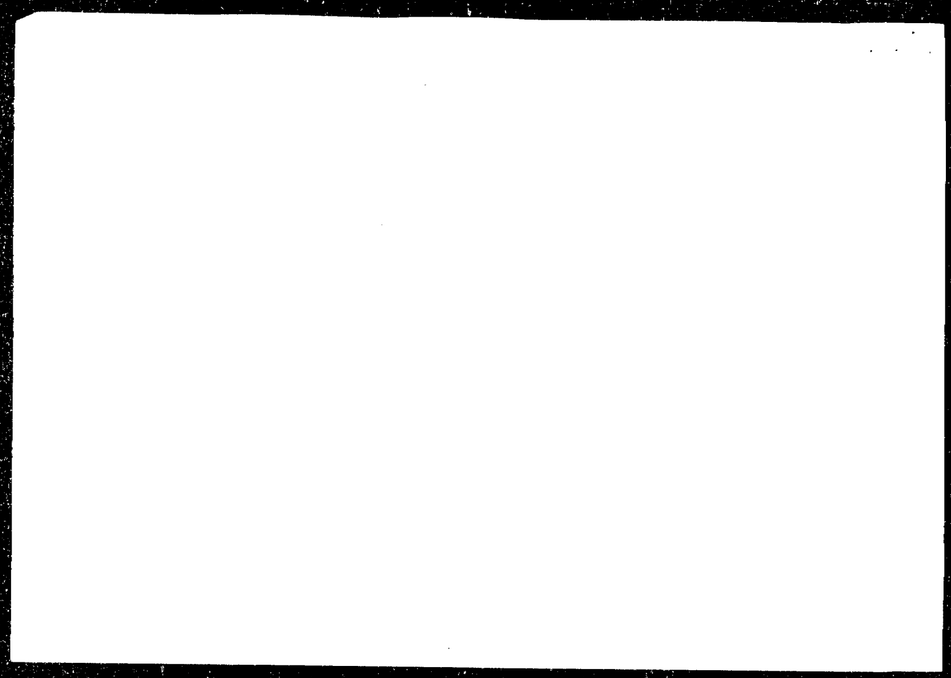
V.A. KREZEVICH
PROFESSIONAL ENGINEER
FL LICENSE NO. PE 0019983

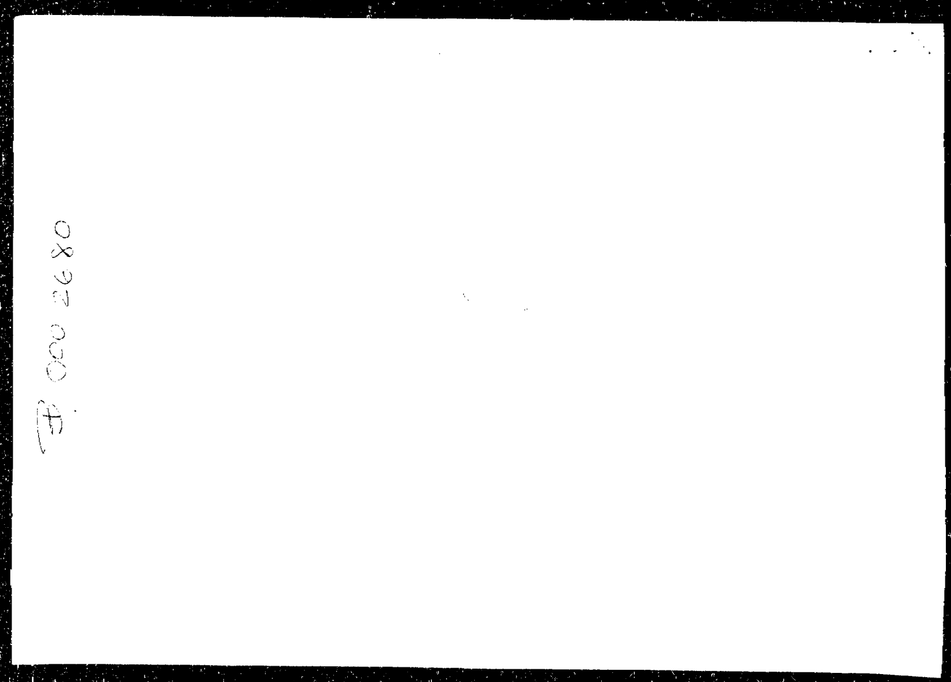
DATE: 11/03/99
JOB NO.: 99-111
SCALE: AS NOTED
DRAWING NO.: 96-88
SHEET: 8 OF 9

03/09/99 15:18

99003119

DECLASSIFIED





F 000 2680

M-F 9:00 - 11:00AM

CITY OF MIAMI BEACH
PLANNING DEPARTMENT
ADMINISTRATIVE DESIGN REVIEW APPLICATION FORM

1700 Convention Center Drive, Miami Beach, FL 33139
Telephone: (305) 673-7550 FAX: (305) 673-7559
PLEASE TYPE OR USE BOLD PRINT TO COMPLETE ALL APPLICABLE ITEMS BELOW.

Single Family Home ☒ Yes ☐ No

Name of Business or Property (if any)

6437 NORTH BAY ROAD

Address of Property (Job site) Unit #

MERV STERGATAL

Name of Property Owner

SAME

Address of Property Owner (if same, so indicate) Telephone

RICARDO BARUCHAH 19190 NW 82CIR CT (305)205 9249

Name and Address of Contractor Telephone

Name and Address of Applicant (if different than property owner or contractor) Telephone

THE UNDERSIGNED APPLICANT HEREBY CERTIFIES THAT HE/SHE UNDERSTANDS THAT A COMPLETED "ORIGIN AFFIDAVIT" EXECUTED BY THE OWNER OF THE SUBJECT PROPERTY SHALL BE SUBMITTED TO THE MIAMI BEACH BUILDING DEPARTMENT, IF APPROVED, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. THE UNDERSIGNED FURTHER CERTIFIES THAT HE/SHE IS AUTHORIZED ON BEHALF OF THE OWNERS TO REQUEST THE ABOVE ADMINISTRATIVE DESIGN REVIEW APPROVAL.

Signature of Applicant — RICARDO BARUCHAH (Print Name) — April 4 2000 Date Signed

SEE REVERSE SIDE FOR EXHIBITS AND FEES REQUIRED

NOTES:
1. The fee must be paid at the time of application: if paying by check, please make it payable to the "City of Miami Beach"
2. For additional information on required exhibits, please refer to the application instructions on the reverse side.
3. An administrative design review approval shall only be effective when this form is executed by an authorized staff person of the City of Miami Beach's Planning Department.
4. If mailing, send to: Planning Department, 1700 Convention Center Drive, Miami Beach, Fl. 33139

(Do Not Write Below This Line – For Staff Use Only)

☐Awnings ☐Awning ☐Fence ☐Paint ☐Landscaping ☐Parking Lot ☐Sweep ☐Furniture ☐Sign ☐Signature ☐Structural ☐Shutters ☐Other

File No. _____

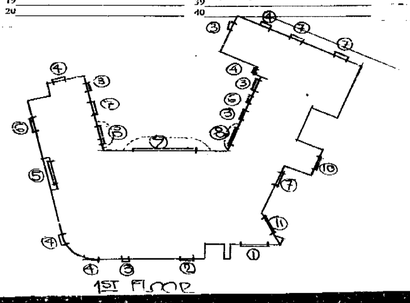
Date Approved _____ Init: _____

MCR #: _____

FEE: $ _____

SHUTTER LOCATION, TYPE & SIZE
P.O. #:
NAME: Elena Salomon
ADDRESS: 6437 North Bay RD
Miami Beach FL 33141

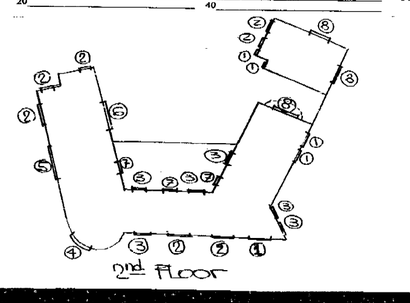
1	72x64 Ch1 Accordion	21	
2	96x48 Ch1 Bi-fold "	22	
3	20x40 Ch45 " "	23	
4	39x58 Ch45 " "	24	
5	145x66 Ch41 " "	25	
6	58x56 Ch4(6) " "	26	
7	37x90 Ch4(4) " "	27	
8	60x80 Ch42 "	28	
9	305x90 Ch41 " "	29	
10		30	
11	17	31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20		40	



1ST FLOOR

SHUTTER LOCATION, TYPE & SIZE
P.O. #:
NAME: Elena Salomon
ADDRESS: 6437 North Bay RD
Miami Beach FL 33141

1	120x40 Ch4(5) Accordion	21	
2	32x52 Ch4(3) "	22	
3	36x41 Ch4(6) "	23	
4	68x41 Ch4(1) "	24	
5	28x52 Ch4(3) "	25	
6	67x32 Ch4(1) "	26	
7	28x80 Ch4(3) "	27	
8	57x53 Ch4(3) "	28	
9		29	
10	17	30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20		40	



2ND FLOOR

00321

To Make Application for the Review of These Fee:

Along with this Application Form and the Proper Fee, You are Required to Submit the Following Exhibits From the List Below:

	The Fee is*:	
Antenna/Satellite Dish	$500.00	4,5,7,10
Awnings	50.00	4,5,6,7,9
Fences/Walls/Gates	50.00	4,5,7
Flags/Poles	50.00	4,5,6,7
Handicap Ramp	100.00	3,5,6,7
Landscaping	100.00	2,5,6,11
Painting	20.00	1,2
Parking Lots	100.00	5,7,11
Revision	25.00	
Security Grilles/Railings	50.00	4,6,7
Shutters	50.00	4,6,7
Signs	90.00	4,5,6,7
Speakers (external)	100.00	2,3,5,6
Storefront/Facade Rehab	100.00	3,4,5,7,8
Windows/Door Replacement	50.00	3,4,6,7,8
Other _____	____	3,4,5,7, ____

LIST OF EXHIBITS WHICH MAY BE REQUIRED WITH APPLICATION

1) Color Sample of exact Color to be used, except White
2) Color Photographs of entire Structure/Building (No Polaroid)
3) Three (3) sets of Plans Showing Existing/Proposed Improvements
4) Three (3) sets of Shop Drawings Showing all Details and Dimensions
5) Three (3) copies of Elevation Drawings
6) Color Photographs of entire Building/Lot to Include Adjacent Storefronts/Properties
7) Microfilm of Original Elevation if Located in the Historic District
8) Material Physical Sample
9) Roof Plan
10) Landscape Plan
11) _____

NOTE: POLAROID photographic emulsions rapidly fade in storage and may not be used to satisfy the photographic requirements of these applications.

* "After-the-Fact" applications are required to pay a **Triple Fee**, in accordance with Section 110-285 (A)(10) of City Code of the City of Mission Beach, as amended.

SHUTTERS PLUS, INC.
8535 N.W. 56 Street, Miami, FL 33166
Dade: 305/594-6694 ◆ Broward: 954/730-0094 ◆ FAX: 305/594-9017

SHUTTER PRODUCT APPROVAL AUTHORIZATION FORM

Building Official

Dear Building Official:

We are the Dade County Notice of Acceptance Holder for the Ultraguard Accordion Shutters under number 99-0326.01.

This letter authorizes [illegible] to use our Ultraguard Accordion Shutters, approved under number 99-0326.01, to be used at the following job:

Eden Mansion
5439 [illegible] Bay Rd.
Miami Beach, Fl 33141

Sincerely,
SHUTTERS PLUS, INC.

Robert M. Greene
President

1. This form must accompany the application for building permit and shall become part of the permit documents.
2. The authorized signature must bear the raised corporate seal of the company holding the Dade county Notice of Acceptance.

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1561
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2537 FAX (305) 375-2538

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2904 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Shutters Plus, Inc
8535 NW 56 Street
Miami FL 33166

Your application for Product Approval of:
Ultraguard Accordion Shutter
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 99-0326.01
Expires: 04/06/2002

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

City of Miami Beach
Building Department
Shutter Permit
OFFICE COPY

Review Type	Initials	Date
Building		
Zoning		

Approved: 04/06/1999

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

Internet mail address: postmaster@buildingcodeoffice.com Homepage: http://www.buildingcodeonline.com

Shutters Plus, Inc.

ACCEPTANCE No. : 99-0326.01
APPROVED : APR 0 5 1999
EXPIRES : APR 0 6 2002

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
This approves an Aluminum Extruded Residential Bertha Accordion Shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**
This Aluminum Extruded Residential Bertha Accordion Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 99-66, titled "Ultraguard Accordion Shutter - ASSA/ Residential Bertha Accordion Shutter", prepared by Tilteco Inc., dated February 25, 1999, sheets 1 through 10 of 10, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

4. **INSTALLATION**
This Aluminum Extruded Residential Bertha Accordion Shutter and its components shall be installed in strict compliance with the approved drawings.

5. **LABELING**
Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance.
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Helmy A. Bekhar, P.E.- Product Control Examiner
Product Control Division

00323

E

Shutters Plus, Inc.

ACCEPTANCE No. : 99-0326.01
APPROVED : APR 06 1999
EXPIRES : APR 06 2002

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product at no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not retain the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Hehmy A. Maizar, P.E.- Product Control Examiner
Product Control Division

3 of 3

MADDEN MANUFACTURING CO. INC.
1889 N.W. 22ND STREET POMPANO BEACH FL. 33069..... 800-272-2071/FAX 954-960-0567

BUILDING DEPARTMENT

DATE 4 / 28 / 2000

To whom it may concern:

We are the authorized manufacturer of **MADDEN MFG. STORM PNLS.**

UNDER PRODUCT CONTROL NUMBER 98-1110-04

THIS LETTER AUTHORIZES RICARDO BARUFALDI

TO USE OUR ABOVE NAMED PRODUCT IN ACCORDANCE WITH APPROPRIATE COUNTY CODES. IN ADDITION, ALL PRODUCT APPLICATIONS ARE TO BE STRICTLY ADHERED TO. ALWAYS REFER TO SUBMITTED ENGINEERING.

CONTRACTOR	JOB LOCATION
NAME RICARDO BARUFALDI	NAME MERY STERENTAL
ADD. 14190 NW 82 CT.	ADD. 6437 NORTH BAY RD.
CITY/ZIP HIALEAH, FL 33015	CITY/ZIP MIAMI BEACH, FL 33141

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2901 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Madden Manufacturing
1889 NW 22nd Street
Pompano Beach, FL. 33069

Your application for Product Approval of:
0.063" Aluminum Storm Panel Shutter
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 98-1110.04
Expires: 05/05/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

Approved: 05/20/1999

1 of 3

Internet mail address: postmaster@buildingcodeonline.com Homepage: http://www.buildingcodeonline.com

00032 4

Madden Manufacturing Co.

ACCEPTANCE No. : 98-1110.04
APPROVED : MAY 20 1999
EXPIRES : May 8, 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
This revises and renews the Notice of Acceptance No 96-0520.03, which was issued on May 8, 1997. It approves an Aluminum Storm Panel Shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**
This Aluminum Storm Panel Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 96-88, titled "0.063" Aluminum Storm Panel", prepared by Krezevich & Associates, Inc. dated April 22, 1996, last revision #3 dated March 4, 1999, sheets 1 through 8 of 8, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**
All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

4. ***INSTALLATION***
This Aluminum Storm Panel Shutter and its components shall be installed in strict compliance with the approved drawings.

5. **LABELING**
Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance.
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division

Madden Manufacturing Co.

ACCEPTANCE No. : 98-1110.04
APPROVED : MAY 20 1999
EXPIRES : May 8, 2003

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
b. The product is no longer the same product (identical) as the one originally approved.
c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
a. Unsatisfactory performance of this product or process.
b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division

00325

PERMIT #

B0200896

10

CITY OF MIAMI BEACH
Miami Beach, Florida 33139
Receipt of Payment

Building Work Permit

01-02-2002

Receipt

Activity Number: BR20090
Status: APPROVED

Date Applied: 12/07/2001
Date Completed:

Date Issued: 12/31/2001
Date Expired: 06/29/2002

Entered By: BUILWILR

Site Address: 6437 N BAY RD MBCH
Parcel #: 32110141300

Balance Due: $0.00
Valuation: $1,500.00

Applicant: MARY STERENTAL
6437 N BAY RD
MIAMI BEACH FL 331414
305

Owner: MERY STERENTAL
6437 N BAY RD
MIAMI BEACH FL 331414535

Description: Rpr broken stones in entry walk

Payments made for this receipt:

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

LEGAL DESCRIPTION: Lots 10 and 11, Block 14, BEACH VIEW ADDITION, according to the plat thereof, as recorded in Plat Book 36, Page 10, of the Public Records of Dade County, Florida.

SURVEY FOR:
STERENTAL, Mary
6437 No. Bay Road
Miami Beach, FL 33141

CERTIFIED TO:
Mary Sterental
Robinson, Kroop & Schottenstein, P.A.
Fidelity National Title Insurance Company of New York
14100 NW 58 Court
Miami, FL 33014

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING:
ZONING:
DRB/FP:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PROTECTION:
ENGINEERING:
PUBLIC WORKS:
OTHER:

SURVEYOR'S SEAL

REVISED:

BOUNDARY SURVEY

GARY B. CASTEL
Registered Land Surveyor No. 4729
State of Florida

GARY B. CASTEL SURVEYING, INC.
LAND SURVEYORS
[illegible] 132nd COURT, Miami, FLORIDA 33186
305 252 9720 FAX 251 5781

DATE: 10-29-97
SCALE: 1"=20'
DRWN BY:
JOB No:
PLOOD ZONE: AE

10

B0900896

6437 N BAY ROAD

B0902824 ENG LTR

CMB BUILDING DEPT

Edward A.
LANDERS, P.E.
CONSULTING ENGINEERS

ENGINEER'S CERTIFICATE OF COMPLETION. AND FINAL

B0902824
ENG LTR
Lance 6/29/08

June 29, 2008

City of Miami Beach Building Department
1700 Convention Center Drive
Miami Beach, Florida

Project:
Permit #B0902824
6437 North Bay Road, Miami Beach, Fl

Contractor:
Suntech Development, Inc.
P.O. Box 014014
Miami, Fl 33101

Dear Sirs:

As special inspectors for the above referenced job, we have performed and approved the required inspection:

I hereby attest, to the best of my knowledge, belief and professional opinion, the work meets the applicable Building codes and is in accordance with our plans and specifications.

Very Truly yours,

Edward A. Landers, P.E.

7850 N.W. 146 Street, Suite 509, Miami Lakes, Florida 33016 305-823-3939

EDWARD A. LANDERS, P.E.
7850 N.W. 146TH Street, Suite 509
Miami Lakes, Fl 33016

LOG OF APPROVED INSPECTIONS TO COMPLY WITH FLORIDA BUILDING CODE 105.13.4.1

PERMIT NUMBER: B0902824 **ADDRESS:** 6437 North Bay Road, Miami Beach, Fl

ARCH/ENGR: Edward A. Landers, P.E. **CONTRACTOR:** Suntech Development, Inc.

TYPE OF INSPECTION: FINAL

COMMENTS: Approved

APPROVED BY: [signature] **DATE:** 6/29/09

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

EDWARD A. LANDERS, P.E.
7850 N.W. 146TH Street, Suite 509
Miami Lakes, Fl 33016

LOG OF APPROVED INSPECTIONS TO COMPLY WITH FLORIDA BUILDING CODE 105.13.4.1

PERMIT NUMBER: B0902824 **ADDRESS:** 6437 North Bay Road, Miami Beach, Fl

ARCH/ENGR: Edward A. Landers, P.E. **CONTRACTOR:** Suntech Development, Inc.

TYPE OF INSPECTION: Reinforced steel on all exterior walls of the residence

COMMENTS: OK for concrete installation

APPROVED BY: Approved **DATE:** 6/9/09

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

EDWARD A. LANDERS, P.E.
7850 N.W. 146TH Street, Suite 509
Miami Lakes, Fl 33016

LOG OF APPROVED INSPECTIONS TO COMPLY WITH FLORIDA BUILDING CODE 105.13.4.1

PERMIT NUMBER:	B0902824	**ADDRESS:**	6437 North Bay Road, Miami Beach, Fl
ARCH/ENGR:	Edward A. Landers, P.E.	**CONTRACTOR:**	Suntech Development, Inc.

TYPE OF INSPECTION: Reinforced steel on East center wall

COMMENTS: OK for concrete installation

APPROVED BY: Approved **DATE:** 5/21/09

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

EDWARD A. LANDERS, P.E.
7850 N.W. 146TH Street, Suite 509
Miami Lakes, Fl 33016

LOG OF APPROVED INSPECTIONS TO COMPLY WITH FLORIDA BUILDING CODE 105.13.4.1

PERMIT NUMBER: B0902824 **ADDRESS:** 6437 North Bay Road, Miami Beach, Fl

ARCH/ENGR: Edward A. Landers, P.E. **CONTRACTOR:** Suntech Development, Inc.

TYPE OF INSPECTION: Reinforced steel on South facing walls on East most and West most walls

COMMENTS: OK for concrete installation

APPROVED BY: Approved **DATE:** 5/14/09

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

TYPE OF INSPECTION:

COMMENTS:

APPROVED BY: **DATE:**

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR - CITY HALL
MIAMI BEACH, FL 33139

NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE

I, (we) have been retained by: SUNTECH DEVELOPMENT to perform special inspector services under the Florida Building Code at the 6437 N. BAY ROAD project on the below listed structures as of 4-30-09 (date). I am a professional engineer licensed in the State of Florida.

Process Number: B0902824 **Master Permit (IF APPLICABLE):** _____

- ○ Special Inspector for Pilings, FBC 1822.1.20
- ○ Special Inspector for Soil Compaction, FBC 1820.3.1
- ○ Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A.)
- ○ Special Inspector for Reinforced Masonry, FBC 2122.4
- ○ Special Inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A.)
- ○ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- ☒ Special Inspector for CONCRETE REPAIR

NOTE: Only the marked boxes apply.

The following individual's) employed by this firm or me are authorized representatives to perform inspections*

1. _____ 2. _____
3. _____ 4. _____

***NOTE: FBC 2001 HVZ sections 1927.12.2, 2218.2, 2319.17.4.2 requires either a Registered professional Engineer or Registered Architect to perform the actual inspections.**

I, (we) will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Signed and Sealed
038398
License Number

Date: 4-30-09

Architect/Engineer Signature: _____
Architect/Engineer Name Printed: EDWARD A. LANDERS, P.E.
Address: 7850 NW 146th ST. #509
Phone Number: 305-823-3938 MIAMI LAKES, FL 33016
Owner/Agent Signature: _____
Owner/Agent Name Printed: _____
Building Department Accepted By: _____ 05/01/09

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

B105167

PGT Industries
1070 Technology Drive
Nokomis, FL 3427

SCOPE:

This NOA is being issued [illegible] applicable [illegible] and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: 1"x Std. Wall-Aluminum Tube Clipped Mullion-E.M.I.

APPROVAL DOCUMENT: Drawing No. **6220**, titled "1" STD Wall Elevations Aluminum Tube Clipped Mullion", sheets 1 through 5 of 5, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E., dated 04/28/00, with last revision on 05/30/06, bearing the Miami-Dade County Product Control Renewal Stamp with last the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

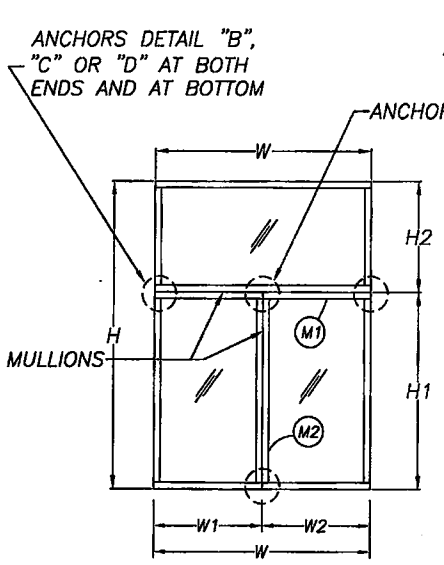
This NOA **revises and renews NOA # 04-0528.04** and, consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

PRODUCT CONTROL ACCEPTED

J. Gascon 6/28/06

NOA No 06-0125.06
Expiration Date: June 28, 2011
Approval Date: July 20, 2006
Page 1



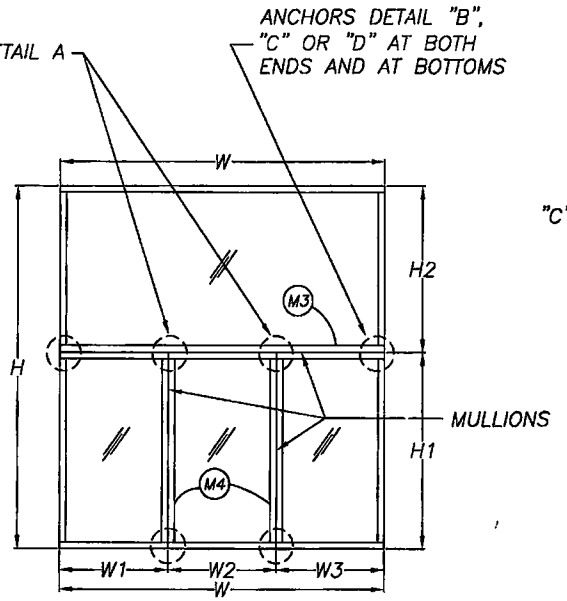
W = W1+W2
H = H1+H2

(2) WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M1) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2

M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1



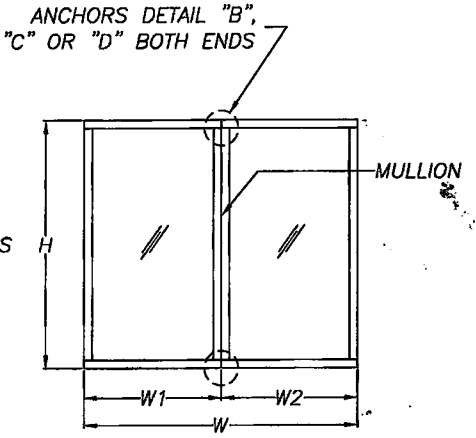
W = W1+W2+W3
H = H1+H2

MULTIPLE WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M3) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2+W3

M4) MAX OPENING = W1+W2 OR W2+W3
MULL LENGTH = H1

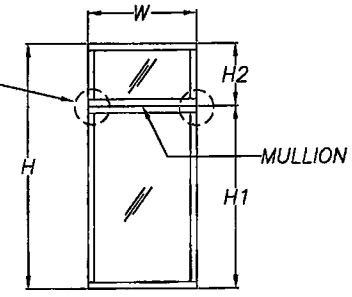


W = W1+W2

(2) WINDOWS MULLED TOGETHER

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

MAX OPENING = W OR W1+W2
MULL LENGTH = H



H = H1+H2

(1) WINDOW MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

MAX OPENING = H OR H1+H2
MULL LENGTH = W

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 06-0125.04
Expiration Date: 06/28/11
By: Miami-Dade Product Control Division

NOTES:

1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3 AND 5.
2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.
3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.
4. REFERENCE – TEST REPORTS: FTL-2902, 2903 AND 2975.
   ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
   ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
   ADM-2000 ALUMINUM DESIGN MANUAL
5. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2004 EDITION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
6. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

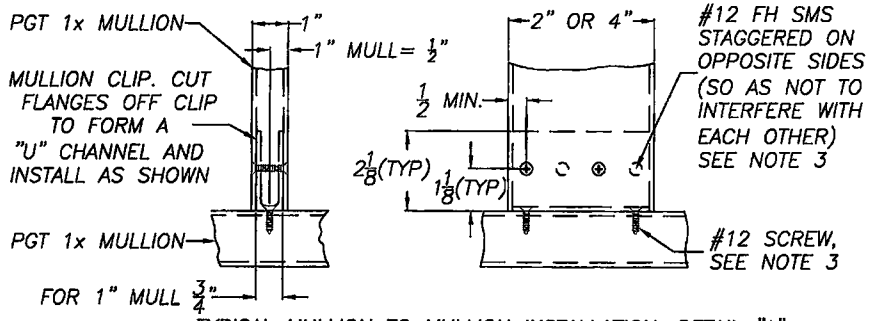
Revsd By:	Date:	Revisions:
F.K.	5/30/06	D-ADD NOTES 5 & 6
F.K.	5/8/06	C-ADD TECH. REFS.
Drawn By: P.J.P.	Date: 4/28/00	

Description: 1" STANDARD WALL, ELEVATIONS

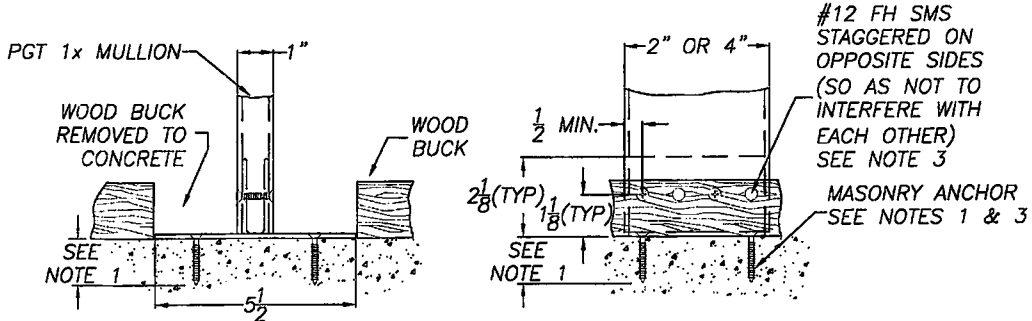
Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	1 of 5	6220	D

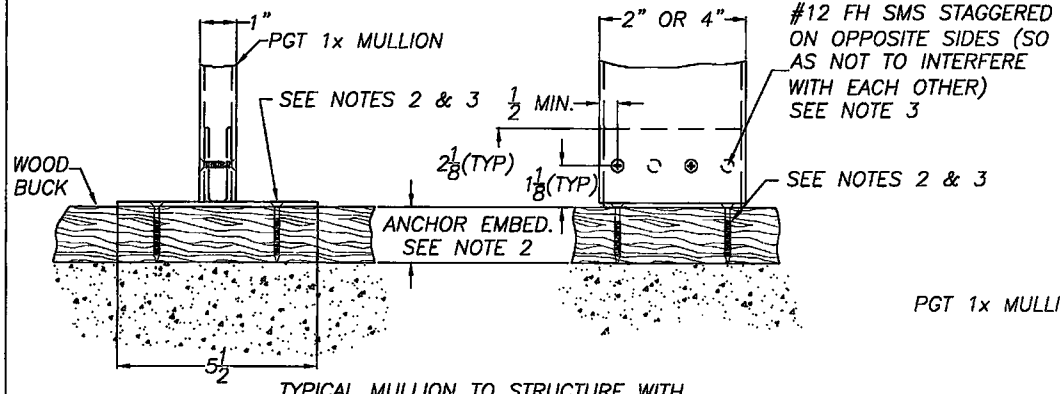
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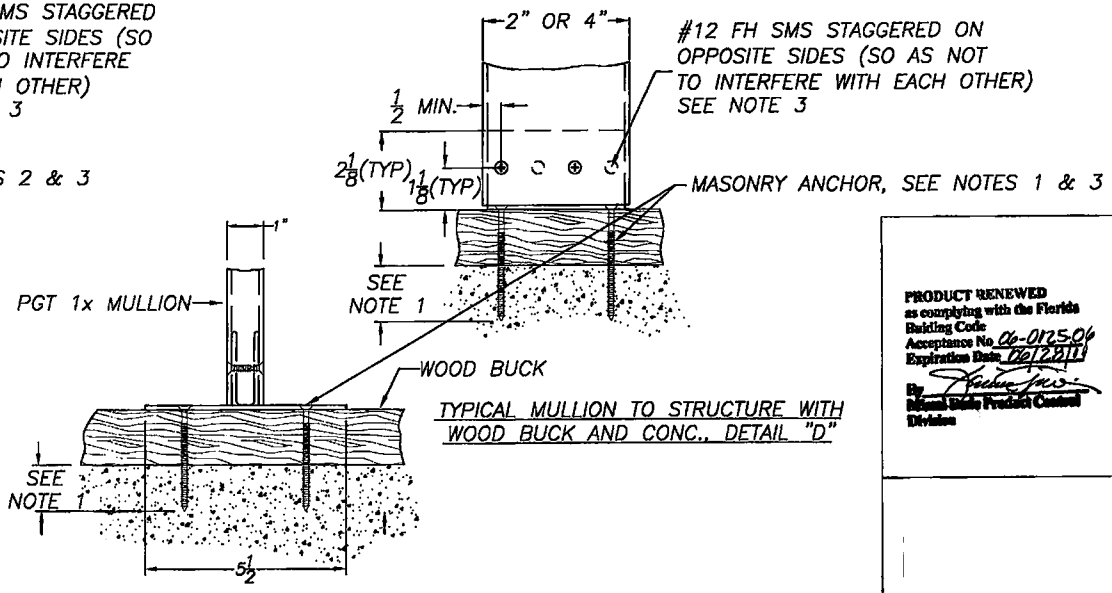
TYPICAL MULLION TO MULLION INSTALLATION, DETAIL "A"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC., DETAIL "C"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK, DETAIL "B"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC., DETAIL "D"

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MINIMUM DISTANCE FROM CENTER OF ANCHORS TO CONCRETE EDGE IS 2 1/2". MIN. EMBEDMENT: TAPCONS 1 1/4". CRETE-FLEX 1 3/4"
2. FOR WOOD APPLICATIONS USE #12 SCREWS, ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MIN. EMBEDMENT 1 1/2"
3. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR ⚠ STUCCO.
4. FOR MULL SIZE AND QUANTITY OF ANCHORS SEE SHEET 5. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF PINNING SCREWS FOR MULL-TO-CLIP TO BE HALF THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING (MINIMUM OF 2 SCREWS PER CLIP).
5. IMPORTANT: QUANTITY OF ANCHORS SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE APPLICABLE MULL SIZE AND ⚠ PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.
6. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 06-0125.06
Expiration Date 06/12/11
By
Miami-Dade Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By: F.K.	Date: 5/30/06	Revisions: D-MODIFY NOTES 3 & 5
Revsd By: F.K.	Date: 5/8/06	Revisions: C-ADD EMBED. DETAILS
Drawn By: P.J.P.	Date: 4/28/00	

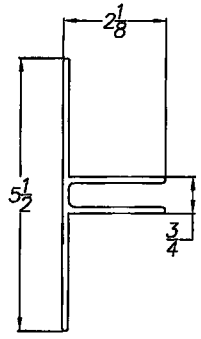
Description: 1" STD. WALL, CLIP INSTALLATION DETAIL

Title: ALUMINUM TUBE CLIPPED MULLION

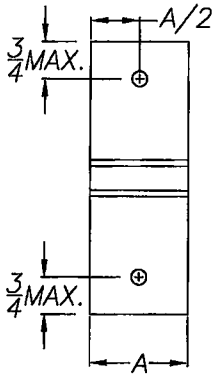
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	2 of 5	6220	D

Robert L. Clark, P.E.
PE #39712
Structural

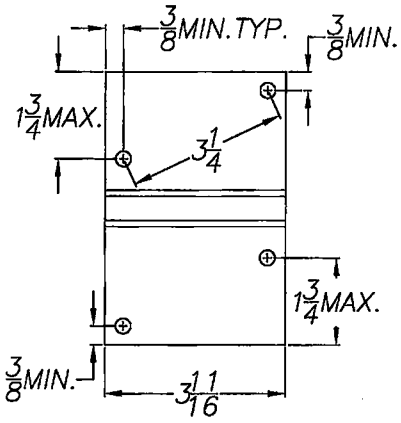
PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



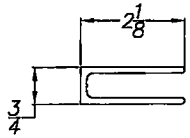
1" MULL CLIP
(CLIP TO OPENING)
EXTRUSION DWG #1099



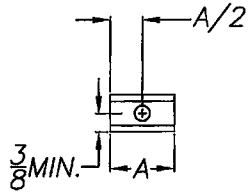
(A) TWO (2) ANCHOR LOCATIONS



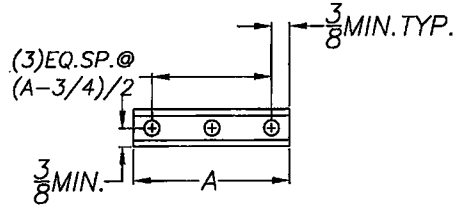
(B) FOUR (4) ANCHOR LOCATIONS



1" MULL CLIP
W/TABS REMOVED
(CLIP TO MULL)
EXTRUSION DWG #1099



(1) ONE (1) ANCHOR LOCATION



(2) THREE (3) ANCHOR LOCATIONS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125.06
Expiration Date 04/12/11
By
Miami-Dade Product Control
Division

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
1 x 2 x 1/8	1 11/16
1 x 4 x 1/8	3 11/16

NOTES:

1. IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
2. 3/8 MIN. EDGE DISTANCE APPLIES TO ALL DIMENSION SHOWN AS MAX.
3. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

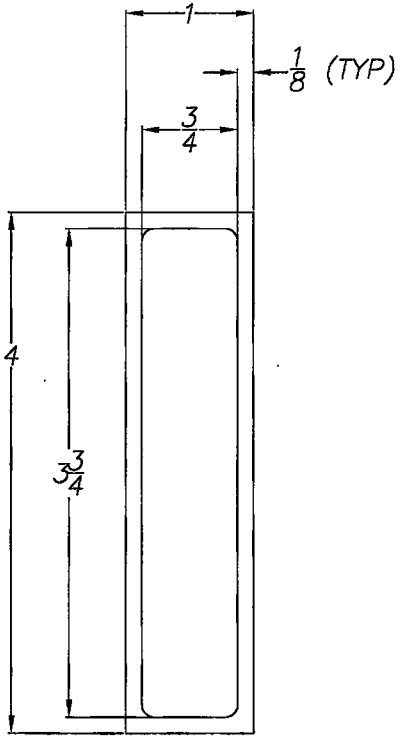
Revsd By:	Date:	Revisions:
F.K.	5/30/06	D-NO CHG THIS SHT
F.K.	5/8/06	C-REVISE SPACING
P.J.P.	4/28/00	

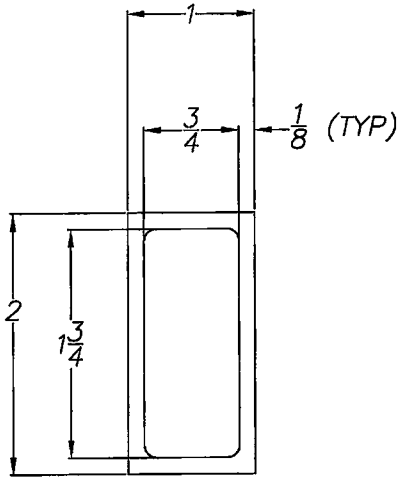
Description: 1" STD. WALL, ANCHOR LOCATIONS

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	3 of 5	6220	D

SHO





1x STD. WALL MULLS

MAT'L: 6063-T6

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125.06
Expiration Date: 04/19/11
By:
Miami-Dade Product Control
Division

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By:	Date:	Revisions:
F.K.	1/9/06	B-NO CHG. THIS SHT.
F.K.	5/8/06	C-NO CHG THIS SHT
Drawn By: P.J.P.	Date: 4/28/00	

Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Description: 1" STD. WALL, MULLION PROFILES

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	1X	4 of 5	6220	D

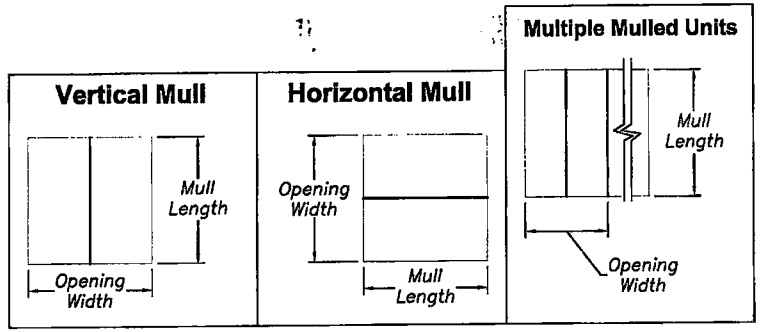
9NO

CHART 1. - 1x2x.125

QTY. & TYP. ANCHOR	MULL LENGTH IN INCHES	OPENING WIDTH IN INCHES									
		50	60	70	80	90	100	110	120	130	160
CLIP TO OPENING		(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B
CLIP TO MULL		(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B
MULL LENGTH IN INCHES	42	129	115	107	104	103	103	103	103	103	103
	48	83	73	67	63	61	61	61	61	61	61
	50.625	70	61	55	52	50	49	49	49	49	49
	54	57	49	44	41	39	38	38	38	38	38
	60	41	35	31	29	27	26	25	25	25	25
	63	35	30	27	24	23	22	21	20	20	20
	66	30	26	23	21	19	18	18	17	17	17
	72	23	20	17	16	-	-	-	-	-	-
	76	20	17	15	-	-	-	-	-	-	-
	78	18	15	-	-	-	-	-	-	-	-

CHART 2. - 1x4x.125

QTY. & TYP. ANCHOR	MULL LENGTH IN INCHES	OPENING WIDTH IN INCHES									
		50	60	70	80	90	100	110	120	130	160
CLIP TO OPENING		(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B
CLIP TO MULL		(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	170	170	170	170	170	170	170	170
	54	170	170	170	170	162	158	157	157	157	157
	60	170	170	157	143	134	127	124	122	122	122
	63	170	160	141	128	119	112	108	106	106	106
	66	170	145	127	115	106	100	96	93	92	92
	72	142	120	105	95	87	81	77	74	72	71
	76	120	102	90	81	74	69	65	63	61	59
	78	111	94	83	74	68	63	60	57	55	53
	84	88	75	65	59	53	49	46	44	42	40
	90	72	60	53	47	43	39	37	35	33	31
	96	59	50	43	38	35	32	30	28	27	24
	108	41	35	30	27	24	22	20	19	18	16
	111	38	32	28	24	22	20	19	17	16	-
	144	17	-	-	-	-	-	-	-	-	-



NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4")
   B. #12 SCREWS
5. SEE ANCHOR SPACING DETAILS SHEET 3.

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 06-0125.06 Expiration Date 06/28/11 By Miami-Dade Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

5/30/06
Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revsd By:	Date:	Revisions:
F.K.	5/30/06	D-NO CHG THIS SHT
F.K.	5/8/04	C-MARKED CHANGES
P.J.P.	4/28/00	

Description: 1" STD. WALL, PRESSURE CHARTS 1 & 2

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	5 of 5	6220	D

9NO

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

B100167

SCOPE:

This NOA is being issued per the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 2"x Heavy Wall Aluminum Tube Clipped Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. **6223**, titled "2" Heavy Wall, Elevations Aluminum Tube Clipped Mullion", sheets 1 through 5 of 5, dated 04/28/00, with revision "C" dated 05/03/06, prepared by PGT Industries, signed and sealed by Robert L.Clark, P.E., bearing the Miami-Dade County Product Control Renewal Stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

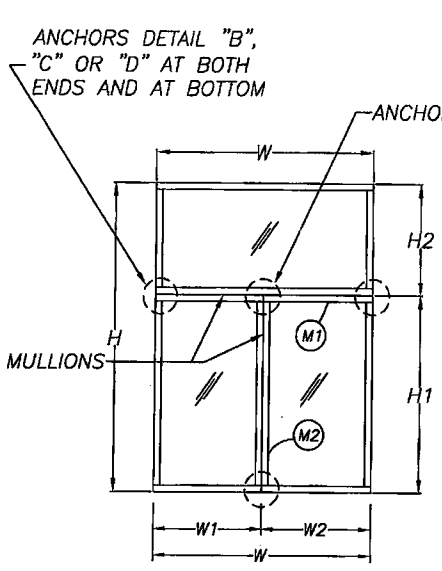
This NOA **renews NOA # 04-0528.06** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

PRODUCT CONTROL ACCEPTED

J. Gascon
5/16/06

NOA No 06-0125.08
Expiration Date: June 28, 2011
Approval Date: June 08, 2006
Page 1



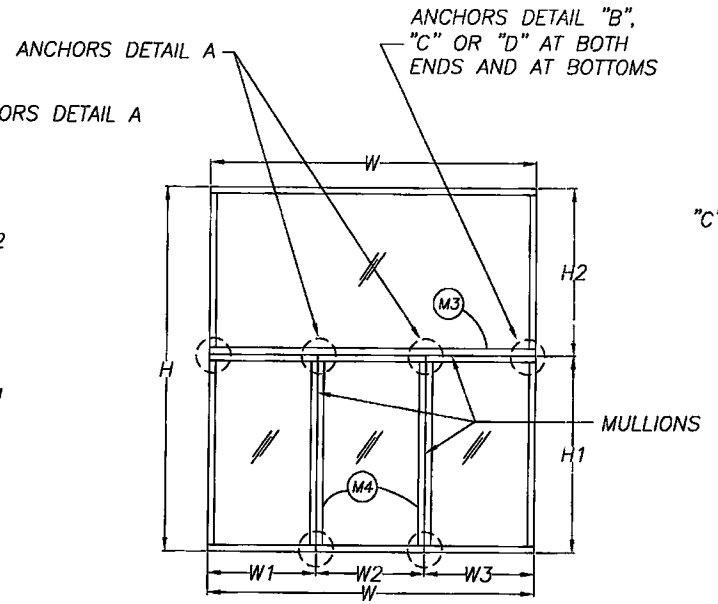
W = W1+W2
H = H1+H2

(2) WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M1) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2

M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1



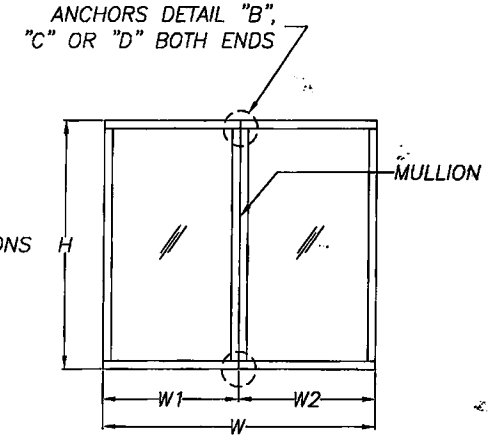
W = W1+W2+W3
H = H1+H2

MULTIPLE WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M3) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2+W3

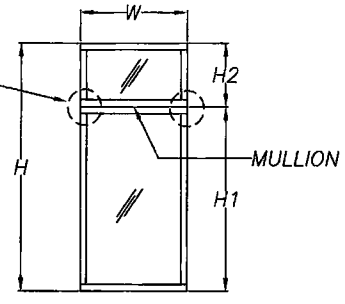
M4) MAX OPENING = W1+W2 OR W2+W3
MULL LENGTH = H1



W = W1+W2

(2) WINDOWS MULLED TOGETHER

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5
MAX OPENING = W OR W1+W2
MULL LENGTH = H



H = H1+H2

(1) WINDOW MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5
MAX OPENING = H OR H1+H2
MULL LENGTH = W

PRODUCT REVIEWED as complying with the Florida Building Code Acceptance No. 06-0125.08 Expiration Date 04.28.11 By [signature] Miami-Dade Product Control Division

NOTES:

1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3 AND 5.
2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.
3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.
4. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Robert L. Clark, P.E.
PE #39712
Structural

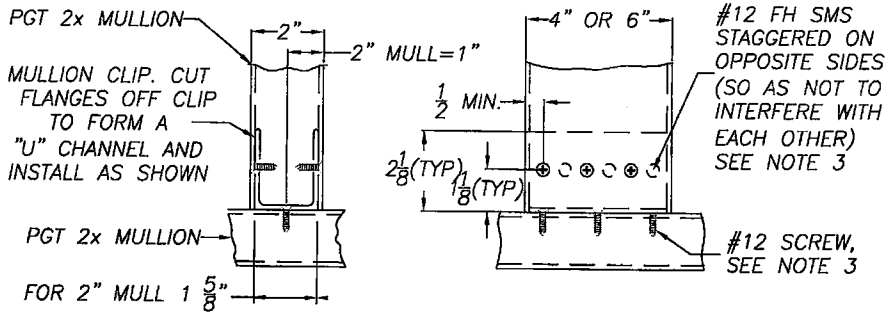
PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revsd By:	Date:	Revisions:
F.K.	1/9/06	B-REVISE ANCHORAGE
Revsd By: F.K.	Date: 5/3/06	Revisions: C-NO CHG THIS SHT
Drawn By: P.J.P.	Date: 4/28/00	

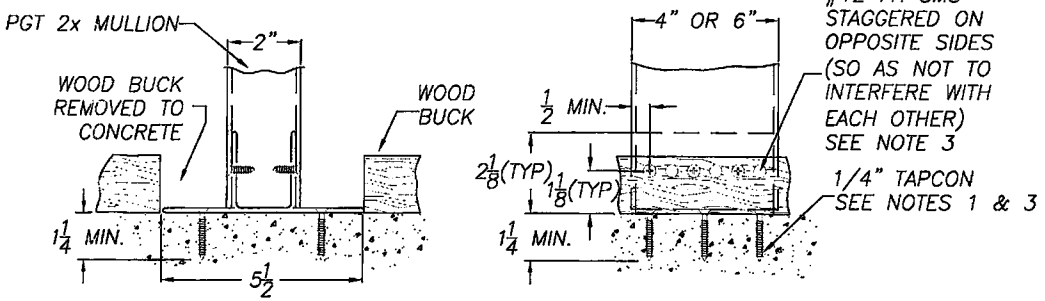
Description: 2" HEAVY WALL, ELEVATIONS

Title: ALUMINUM TUBE CLIPPED MULLION

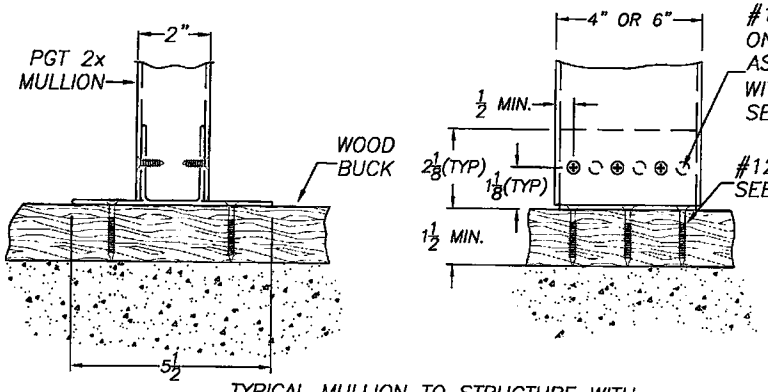
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	1 of 5	6223	C



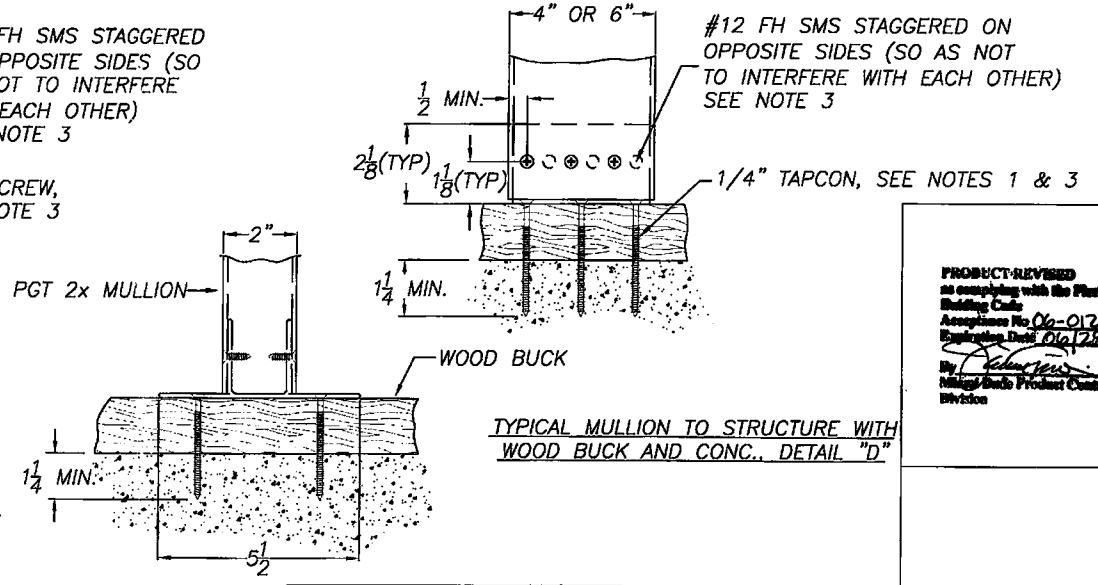
TYPICAL MULLION TO MULLION INSTALLATION, DETAIL "A"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC., DETAIL "C"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK, DETAIL "B"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC., DETAIL "D"

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MINIMUM DISTANCE FROM CENTER OF ANCHORS TO CONCRETE EDGE IS 2 1/2". ELCO 1/4" SS4 CRETE-FLEX ANCHORS MAY BE USED INSTEAD OF 1/4" TAPCONS PROVIDED EMBEDMENT IS INCREASED TO 1 3/4".
2. 1/4" TAPCONS OR ELCO 1/4" SS4 CRETE-FLEX MASONRY ANCHORS MAY BE USED INSTEAD OF #12 SCREWS FOR WOOD APPLICATIONS.
3. FOR MULL SIZE AND QUANTITY OF ANCHORS SEE SHEET 5. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF PINNING SCREWS FOR MULL-TO-CLIP TO BE HALF THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING. (MINIMUM OF 2 SCREWS PER CLIP)
4. IMPORTANT: QUANTITY OF ANCHORS SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE APPLICABLE MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
5. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 06-0125.08
Expiration Date: 06/28/11
By: Miami-Dade Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By: F.K.	Date: 1/9/06	Revisions: B-REVISE ANCHORAGE
Revsd By: F.K.	Date: 5/3/04	Revisions: C-NO CHG THIS SHT
Drawn By: P.J.P.	Date: 4/28/00	

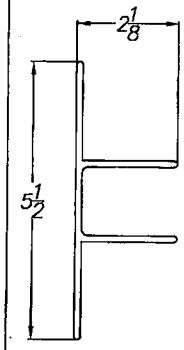
Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

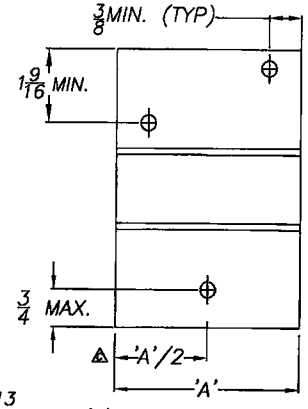
Description: 2" HEAVY WALL, CLIP INSTALLATION DETAIL

Title: ALUMINUM TUBE CLIPPED MULLION

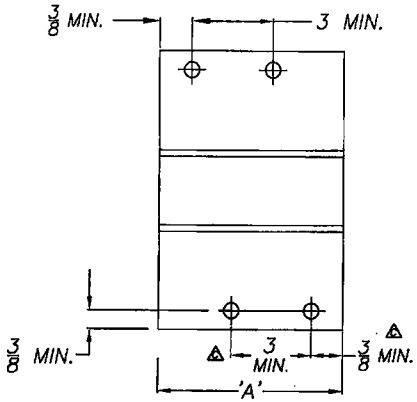
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	2 of 5	6223	C



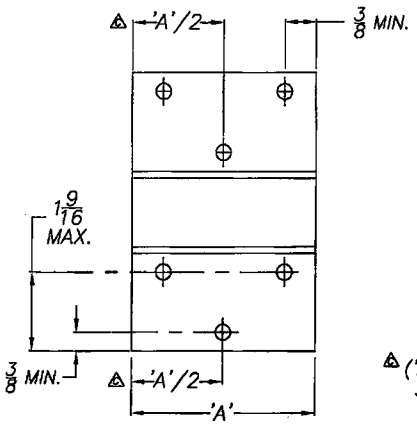
2" MULL CLIP
EXTRUSION DWG #513



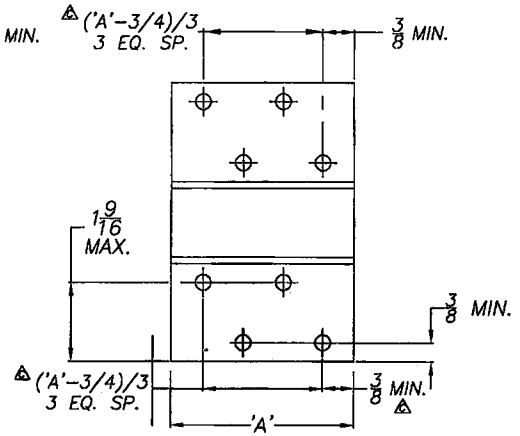
(3) ANCHOR LOCATIONS



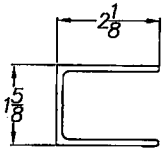
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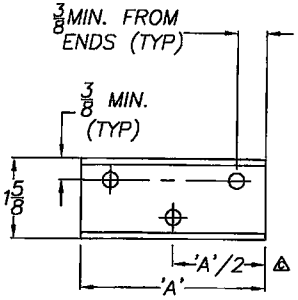
(6) ANCHOR LOCATIONS



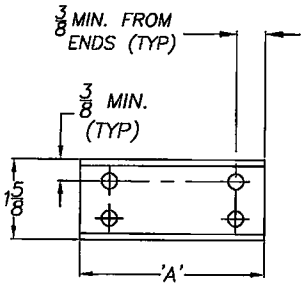
(8) ANCHOR LOCATIONS



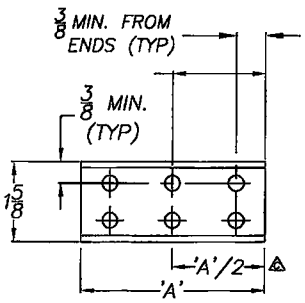
2" MULL CLIP
W/TABS REMOVED
EXTRUSION DWG #513



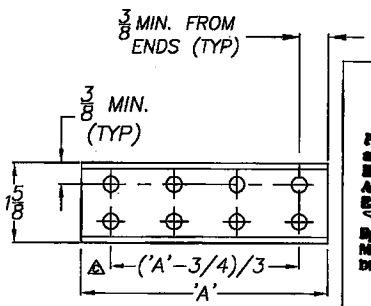
(3) ANCHOR LOCATIONS



(4) ANCHOR LOCATIONS



(6) ANCHOR LOCATIONS



(8) ANCHOR LOCATIONS

PRODUCT REVIEWED
In compliance with the Florida Building Code
Acceptance No. 06-0125.08
Expiration Date: 06.12.8.11
By:
Miami-Dade Product Control Division

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
2 x 4 x 1/4	3 7/16
2 x 6 x 1/4	5 7/16

NOTES:

1. IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
2. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

Robert L. Clark, P.E.
PE #38712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
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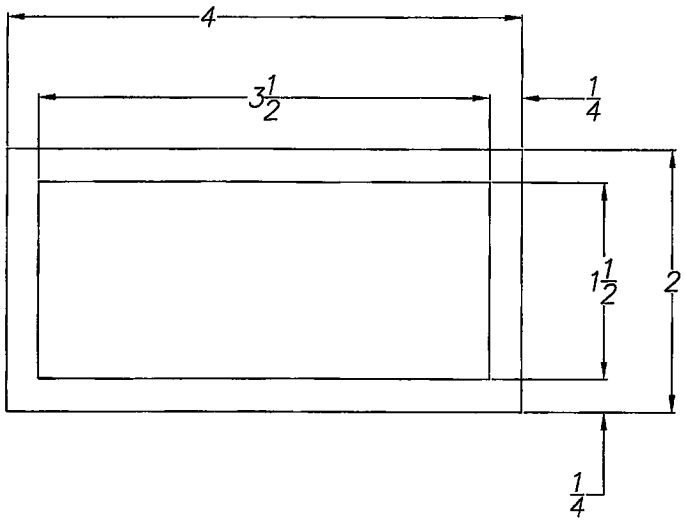
TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

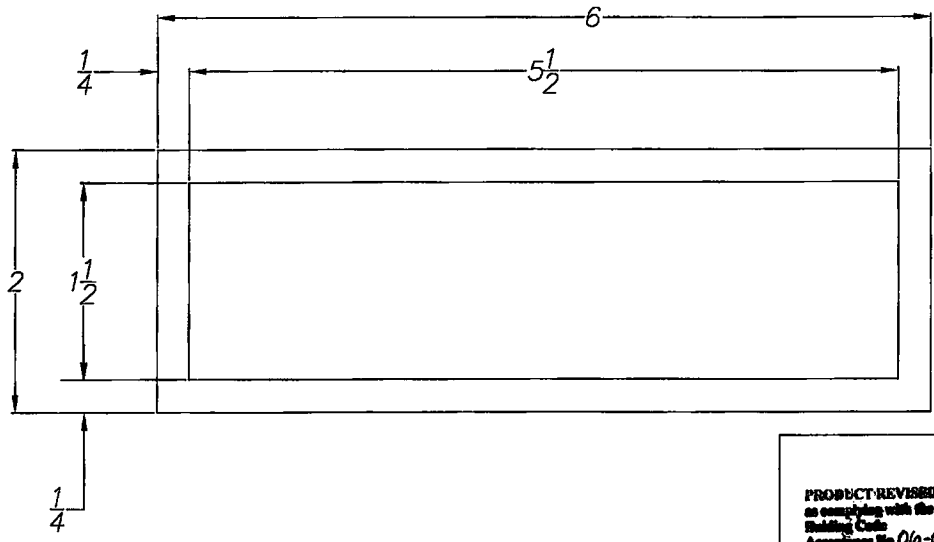
Revsd By:	Date:	Revisions:
F.K.	1/9/06	B-ADD 3-4 HOLE APP.
F.K.	5/3/06	C-ADD MISSING DIM.
Drawn By: P.J.P.	Date: 4/28/00	

Description: 2" HEAVY WALL, ANCHOR LOCATIONS

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	3 of 5	6223	C





PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 06-0125.08
Expiration Date 06.12.11
By
Miami-Dade Product Control Division

2x HEAVY WALL MULLS

MAT'L: 6063-T6

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By:	Date:	Revisions:
F.K.	1/9/06	B-NO CHG. THIS SHT.
F.K.	5/3/06	C-NO CHG THIS SHT
P.J.P.	4/28/00	

Description: 2" HEAVY WALL, MULLION PROFILES

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	1X	4 of 5	6223	C

5/5/06
Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

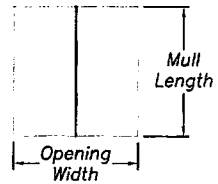
CHART 2. - 2x6x.250

MULL LENGTH IN INCHES	OPENING WIDTH IN INCHES																			
	50		60		70		80		90		100		110		120		130		160	
ANCHOR TYPE & QTY.	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B
42	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
48	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
50.625	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
54	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
60	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
63	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
66	170	170	170	170	170	170	170	170	170	170	168	170	162	170	159	170	158	170	158	170
72	170	170	170	170	170	170	165	170	154	170	146	170	140	170	136	170	134	170	133	170
76	170	170	170	170	168	170	154	170	143	170	135	170	129	170	125	166	122	162	119	159
78	170	170	170	170	162	170	148	170	138	170	130	170	124	165	119	159	116	155	113	151
84	170	170	166	170	148	170	134	170	124	166	117	155	111	148	106	142	103	137	98	130
90	170	170	153	170	136	170	123	164	113	151	106	141	100	133	96	127	92	123	86	116
96	165	170	142	170	125	167	113	151	104	139	97	129	91	123	87	115	83	109	77	98
108	144	170	123	163	109	141	98	125	89	112	83	102	78	95	73	88	70	83	63	73
111	140	170	119	154	105	133	94	118	86	106	80	97	75	89	71	83	67	78	61	68
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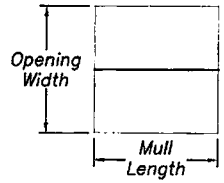
CHART 1. - 2x4x.250

MULL LENGTH IN INCHES	OPENING WIDTH IN INCHES									
	50	60	70	80	90	100	110	120	130	160
ANCHOR TYPE & QTY.	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B	(3) A (6) B
42	170	170	170	170	170	170	170	170	170	170
48	170	170	170	170	170	170	170	170	170	170
50.625	170	170	170	170	170	170	170	170	170	170
54	170	170	170	170	170	170	170	170	170	170
60	170	170	170	170	170	170	170	170	170	170
63	170	170	170	170	170	166	162	160	159	159
66	170	170	170	170	170	154	149	146	145	145
72	170	170	166	152	142	135	129	125	123	122
76	170	170	154	141	131	124	119	115	112	109
78	170	167	149	136	127	119	114	110	107	104
84	177	153	136	124	114	107	102	98	94	90
90	163	141	125	113	104	97	92	88	85	79
96	151	129	112	100	91	83	78	73	69	63
108	107	90	78	69	62	57	53	49	47	41
111	98	83	72	63	57	52	48	45	43	37
144	45	37	32	28	26	23	21	20	18	16

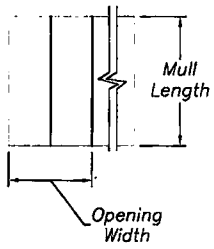
Vertical Mull



Horizontal Mull



Multiple Mulled Units



NOTES:

1. *MAXIMUM ALLOWABLE PRESSURE IN PSF.*
2. *DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.*
3. *REFERENCE TEST REPORT FTL-2902, 2903 AND 2975*
4. *ANCHOR TYPES: A. 1/4" TAPCON*
   B. #12 SCREW

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 06-0125.08 Expiration Date: 06/28/11 By: [illegible] Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Robert L. Clark, P.E. PE #39712 Structural

PGT INDUSTRIES

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

P.O. BOX 1529 NOKOMIS, FL 34274

Revsd By:	Date:	Revisions:
F.K.	1/9/06	B-REVISE ANCHORAGE
Revsd By: F.K.	Date: 5/3/06	Revisions: C-NO CHG THIS SHT
Drawn By: P.J.P.	Date: 4/28/00	

Description: 2" HEAVY WALL, PRESSURE CHARTS 1 & 2

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	5 of 5	6223	C

END

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

B100607

PGT Industries
1070 Technology Drive
Nokomis, FL 3427

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: 1"x Std. Wall-Aluminum Tube Clipped Mullion-L.M.I.

APPROVAL DOCUMENT: Drawing No. **6220**, titled "1" STD. Wall, Elevations Aluminum Tube Clipped Mullion", sheets 1 through 5 of 5, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E., dated 04/28/00, with last revision on 05/30/06, bearing the Miami-Dade County Product Control Renewal Stamp with last the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

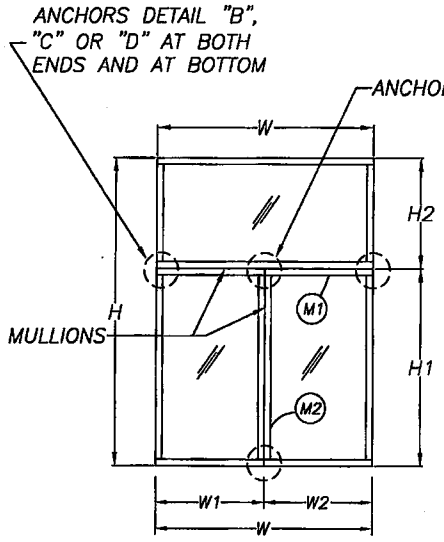
This NOA **revises and renews NOA # 04-0528.04** and, consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**

PRODUCT CONTROL ACCEPTED

J. Gascon 6/28/06

NOA No 06-0125.06
Expiration Date: June 28, 2011
Approval Date: July 20, 2006
Page 1



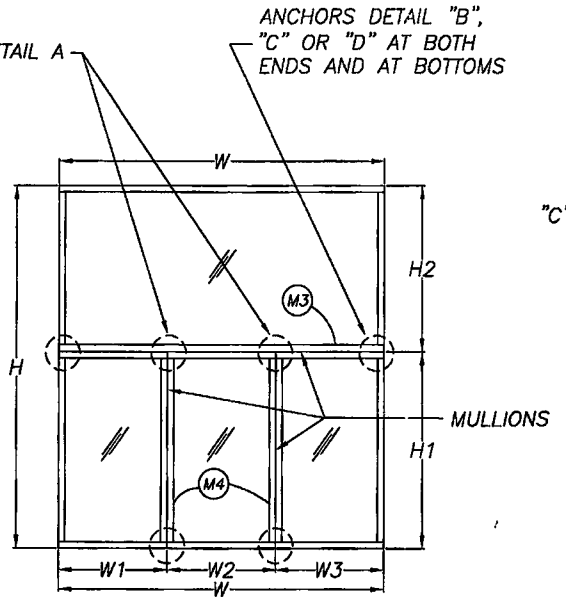
W = W1+W2
H = H1+H2

(2) WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M1) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2

M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1



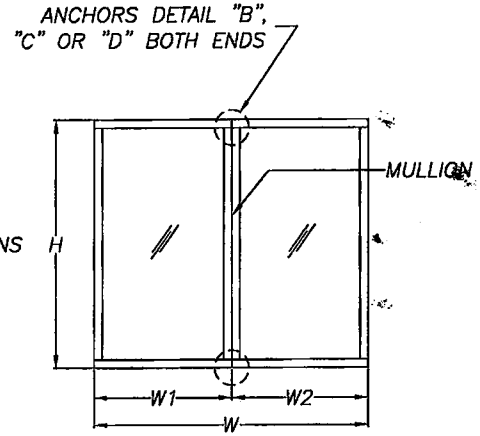
W = W1+W2+W3
H = H1+H2

MULTIPLE WINDOWS MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

M3) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2+W3

M4) MAX OPENING = W1+W2 OR W2+W3
MULL LENGTH = H1

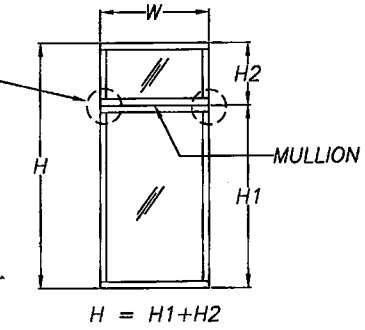


W = W1+W2

(2) WINDOWS MULLED TOGETHER

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

MAX OPENING = W OR W1+W2
MULL LENGTH = H



H = H1+H2

(1) WINDOW MULLED W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5

MAX OPENING = H OR H1+H2
MULL LENGTH = W

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 04-0125.04
Expiration Date: 04/28/11
By: Florida Product Control Division

NOTES:

1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3 AND 5.
2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.
3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.
4. REFERENCE – TEST REPORTS: FTL-2902, 2903 AND 2975.
   ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
   ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
   ADM-2000 ALUMINUM DESIGN MANUAL
5. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2004 EDITION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
6. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Robert L. Clark, P.E.
PE #39712
Structural

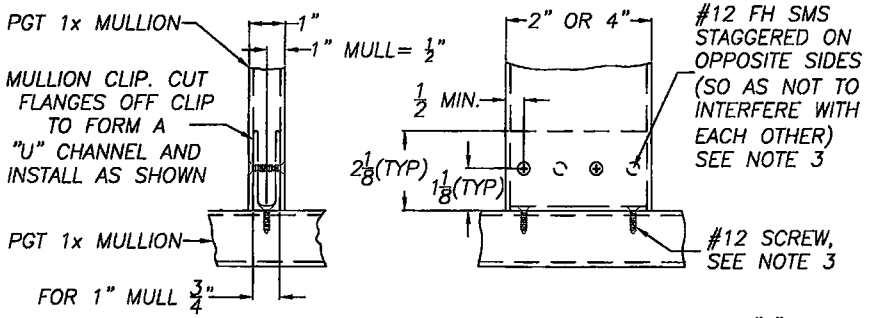
PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revsd By:	Date:	Revisions:
F.K.	5/30/06	D-ADD NOTES 5 & 6
F.K.	5/8/06	C-ADD TECH. REFS.
P.J.P.	4/28/00	

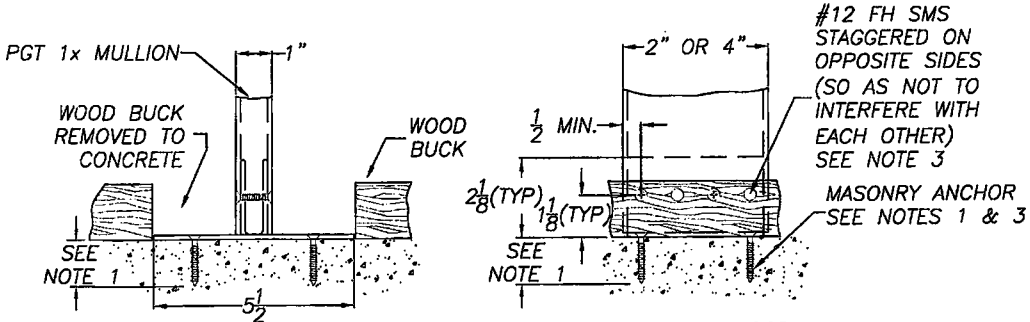
Description: 1" STANDARD WALL, ELEVATIONS

Title: ALUMINUM TUBE CLIPPED MULLION

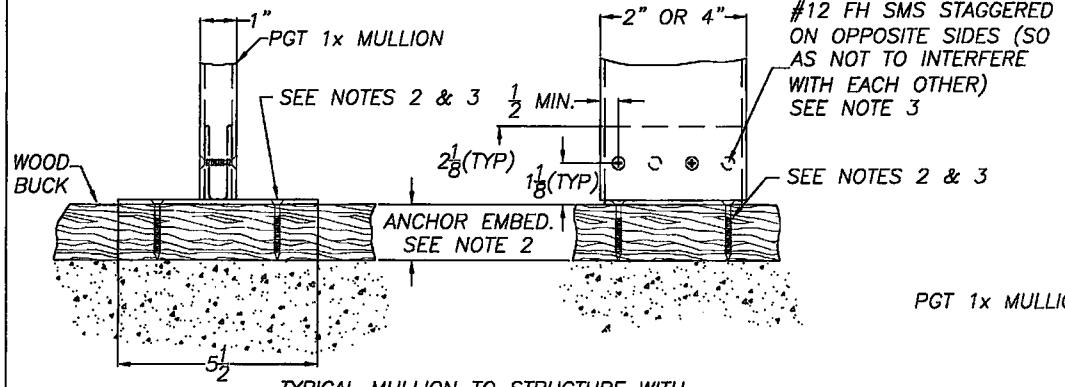
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	1 of 5	6220	D



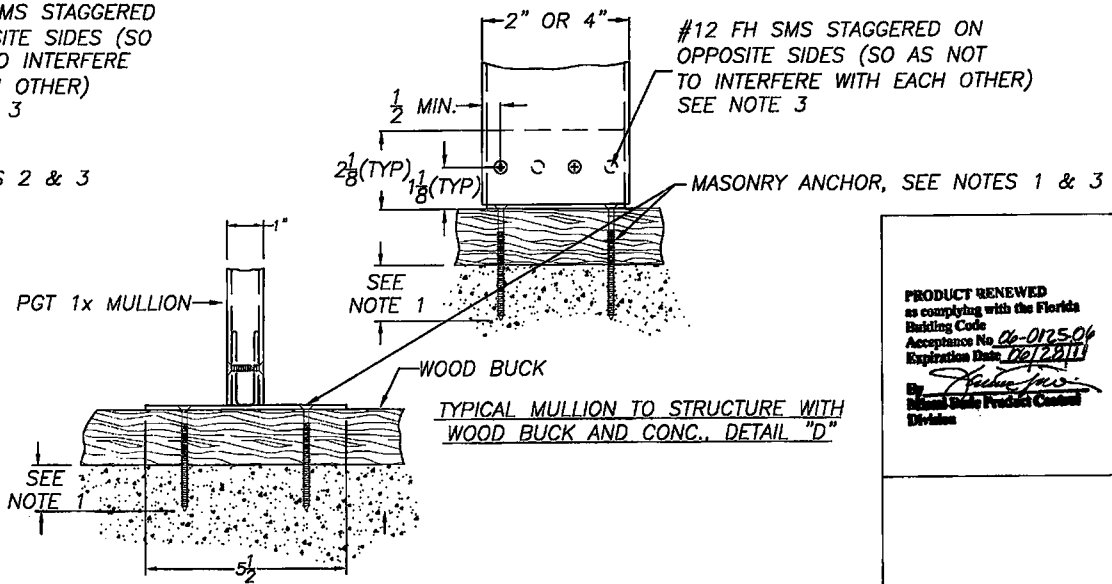
TYPICAL MULLION TO MULLION INSTALLATION, DETAIL "A"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC., DETAIL "C"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK, DETAIL "B"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC., DETAIL "D"

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MINIMUM DISTANCE FROM CENTER OF ANCHORS TO CONCRETE EDGE IS 2 1/2". MIN. EMBEDMENT: TAPCONS 1 1/4". CRETE-FLEX 1 3/4"
2. FOR WOOD APPLICATIONS USE #12 SCREWS, ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MIN. EMBEDMENT 1 1/2"
3. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR ⚠ STUCCO.
4. FOR MULL SIZE AND QUANTITY OF ANCHORS SEE SHEET 5. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF PINNING SCREWS FOR MULL-TO-CLIP TO BE HALF THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING (MINIMUM OF 2 SCREWS PER CLIP).
5. IMPORTANT: QUANTITY OF ANCHORS SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE APPLICABLE MULL SIZE AND ⚠ PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.
6. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 06-0125.06 Expiration Date: 06.12.11 By: Miami-Dade Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

5/30/06

Robert L. Clark, P.E. PE #39712 Structural

PGT INDUSTRIES

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275

P.O. BOX 1529 NOKOMIS, FL 34274

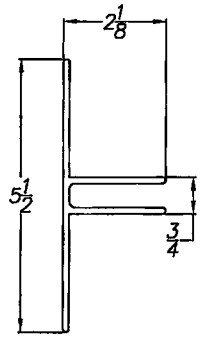
Revsd By: F.K.	Date: 5/30/06	Revisions: D-MODIFY NOTES 3 & 5
Revsd By: F.K.	Date: 5/8/06	Revisions: C-ADD EMBED. DETAILS
Drawn By: P.J.P.	Date: 4/28/00	

Description: 1" STD. WALL, CLIP INSTALLATION DETAIL

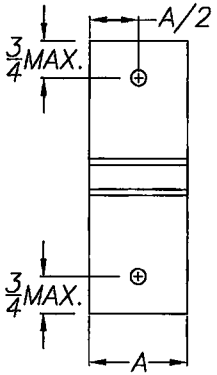
Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	2 of 5	6220	D

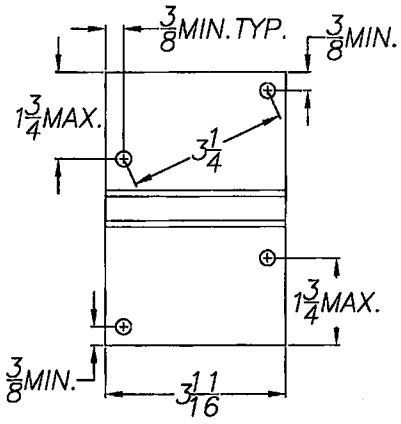
END



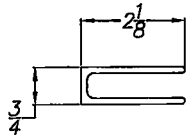
1" MULL CLIP
(CLIP TO OPENING)
EXTRUSION DWG #1099



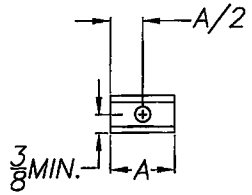
Ⓐ TWO (2) ANCHOR LOCATIONS



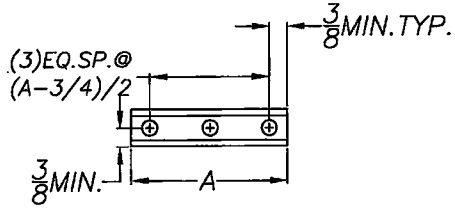
Ⓑ FOUR (4) ANCHOR LOCATIONS



1" MULL CLIP
W/TABS REMOVED
(CLIP TO MULL)
EXTRUSION DWG #1099



① ONE (1) ANCHOR LOCATION



② THREE (3) ANCHOR LOCATIONS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125.06
Expiration Date 02/25/11
By
Miami-Dade Product Control
Division

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
1 x 2 x 1/8	1 11/16
1 x 4 x 1/8	3 11/16

NOTES:

1. IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
2. 3/8 MIN. EDGE DISTANCE APPLIES TO ALL DIMENSION SHOWN AS MAX.
3. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

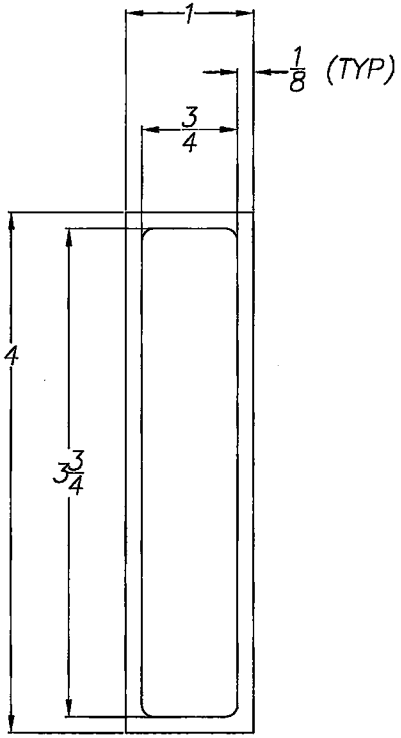
TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

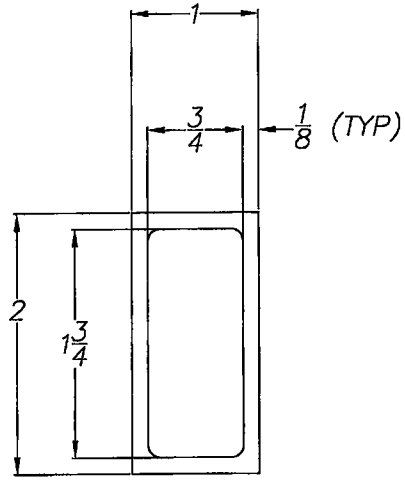
Revsd By:	Date:	Revisions:
F.K.	5/30/06	D-NO CHG THIS SHT
F.K.	5/8/06	C-REVISE SPACING
P.J.P.	4/28/00	

Description: 1" STD. WALL, ANCHOR LOCATIONS

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	3 of 5	6220	D





1x STD. WALL MULLS

MAT'L: 6063-T6

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 06-0125.06
Expiration Date 04/28/11
By
Miami Dade Product Control Division

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By: F.K.	Date: 1/9/06	Revisions: B-NO CHG. THIS SHT.
Revsd By: F.K.	Date: 5/8/06	Revisions: C-NO CHG THIS SHT
Drawn By: P.J.P.	Date: 4/28/00	

Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Description: 1" STD. WALL, MULLION PROFILES

Title: ALUMINUM TUBE CLIPPED MULLION

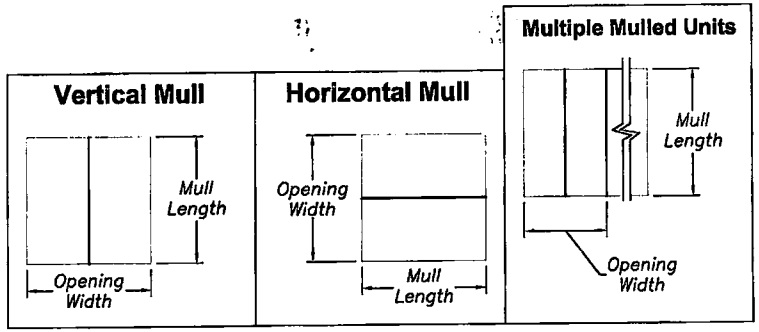
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	1X	4 of 5	6220	D

CHART 1. - 1x2x.125

QTY. & TYP. ANCHOR		OPENING WIDTH IN INCHES									
		50	60	70	80	90	100	110	120	130	160
CLIP TO OPENING		(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B
CLIP TO MULL		(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B
MULL LENGTH IN INCHES	42	129	115	107	104	103	103	103	103	103	103
	48	83	73	67	63	61	61	61	61	61	61
	50.625	70	61	55	52	50	49	49	49	49	49
	54	57	49	44	41	39	38	38	38	38	38
	60	41	35	31	29	27	26	25	25	25	25
	63	35	30	27	24	23	22	21	20	20	20
	66	30	26	23	21	19	18	18	17	17	17
	72	23	20	17	16	-	-	-	-	-	-
	76	20	17	15	-	-	-	-	-	-	-
	78	18	15	-	-	-	-	-	-	-	-

CHART 2. - 1x4x.125

QTY. & TYP. ANCHOR		OPENING WIDTH IN INCHES									
		50	60	70	80	90	100	110	120	130	160
CLIP TO OPENING		(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B	(2) A (4) B
CLIP TO MULL		(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	170	170	170	170	170	170	170	170
	54	170	170	170	170	162	158	157	157	157	157
	60	170	170	157	143	134	127	124	122	122	122
	63	170	160	141	128	119	112	108	106	106	106
	66	170	145	127	115	106	100	96	93	92	92
	72	142	120	105	95	87	81	77	74	72	71
	76	120	102	90	81	74	69	65	63	61	59
	78	111	94	83	74	68	63	60	57	55	53
	84	88	75	65	59	53	49	46	44	42	40
	90	72	60	53	47	43	39	37	35	33	31
	96	59	50	43	38	35	32	30	28	27	24
	108	41	35	30	27	24	22	20	19	18	16
	111	38	32	28	24	22	20	19	17	16	-
	144	17	-	-	-	-	-	-	-	-	-



NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4")
   B. #12 SCREWS
5. SEE ANCHOR SPACING DETAILS SHEET 3.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 06-0125.06
Expiration Date 06/28/11
By [illegible] Product Control Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revsd By: F.K.	Date: 5/30/06	Revisions: D-NO CHG THIS SHT
Revsd By: F.K.	Date: 5/8/04	Revisions: C-MARKED CHANGES
Drawn By: P.J.P.	Date: 4/28/00	

Description: 1" STD. WALL, PRESSURE CHARTS 1 & 2

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
MULLS	NTS	5 of 5	6220	D

5/30/06
Robert L. Clark, P.E.
PE #39712
Structural

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

SHO

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

B05/1607

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series SH-700 Aluminum Single Hung Window - I.M.I.

APPROVAL DOCUMENT: Drawing No. **4040-20**, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 9/1/05, with revision B dated 11/13/06, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 05-1018.01** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

PRODUCT CONTROL ACCEPTED

NOA No. 07-0322.06
Expiration Date: March 23, 2011
Approval Date: June 07, 2007

⚠B GENERAL NOTES: IMPACT SINGLE HUNG FLANGED AND INTEGRAL FIN WINDOWS

1. GLAZING OPTIONS: (SEE DETAILS ON SHEET 2)

A. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
B. 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
C. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
E. 716" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
F. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
G. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
H. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 516" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
I. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
J. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
K. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 716" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
L. 13/16" LAMI IG: (1) LITE OF 1/8" HEAT STRENGTHENED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
⚠B M. 13/16" LAMI IG: (1) LITE OF 1/8" ANNEALED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.

2. CONFIGURATIONS: "OX" (1/1, VIEW AND RADIUS TOP, ALL W/ LOW OR HIGH SILL OPTION)

⚠B 3. DESIGN PRESSURES: (SEE TABLES, SHEETS 3)

A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.

B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED.

6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.

⚠B 7. REFERENCES: TEST REPORTS FTL-4645, FTL-4646, FTL-4647, FTL-4648, FTL-4649, FTL-4650, FTL-4651, FTL-4723, FTL-4957, FTL-4958 AND FTL-5063.
ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL

8. SERIES/MODEL DESIGNATION SH700, ALSO REFERRED TO AS SH701.

⚠B 9. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING MAP

	SHEET
GENERAL NOTES	1
GLAZING DETAILS	2
DESIGN PRESSURES	3
ELEVATIONS	4
VERT. SECTIONS	5
HORIZ. SECTIONS	5
PARTS LIST	6
EXTRUSIONS	7
CORNER DETAIL	7
ANCHORAGE	8-11

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date MARCH 23, 2011
By
Miami-Dade Product Control Division

07-0322.06

Revsd By:	Date:	Revisions:	
Revsd By: F.K.	Date: 11/13/06	Revisions: B	CHANGE NOTES 3 & 7. ADD NOTE 9. ADD GLASS TYPE M TO NOTE 1, GLAZING OPTIONS
Revsd By: F.K.	Date: 1/24/06	Revisions: A	ADD FTL-4723 TO NOTE 7.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

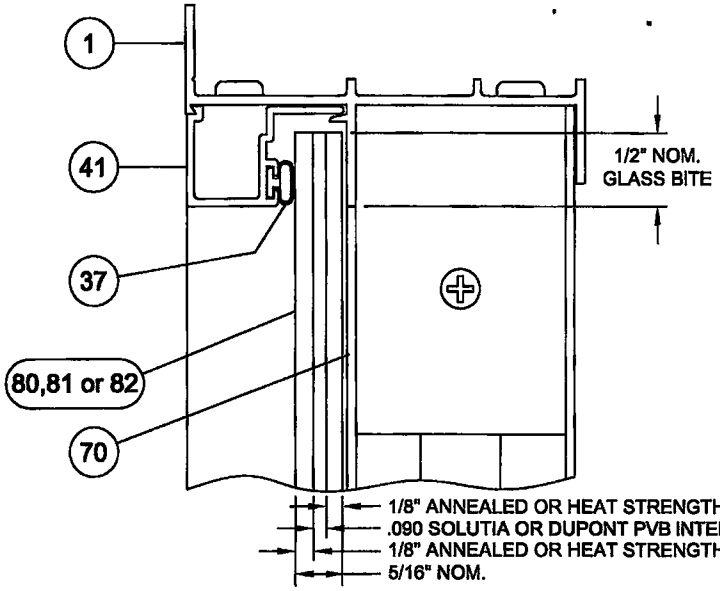
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Beetare

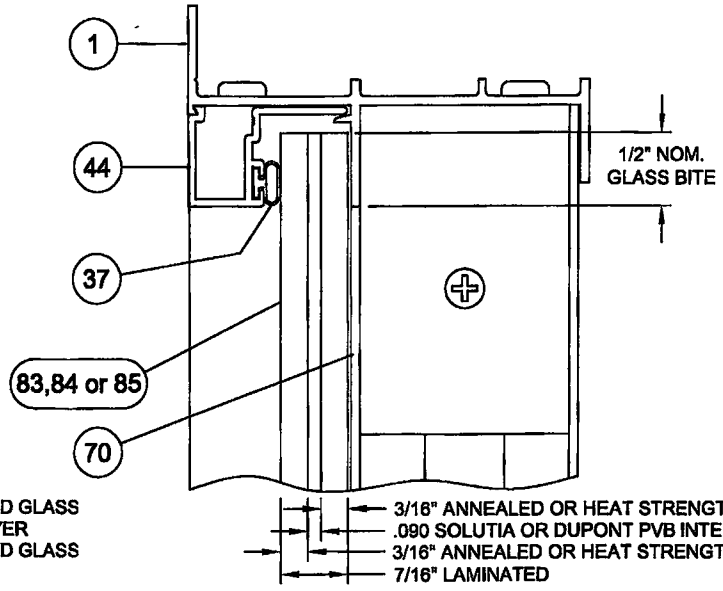
Description: GENERAL NOTES
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Drawing Mod.	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	1 of 11	4040-20	B

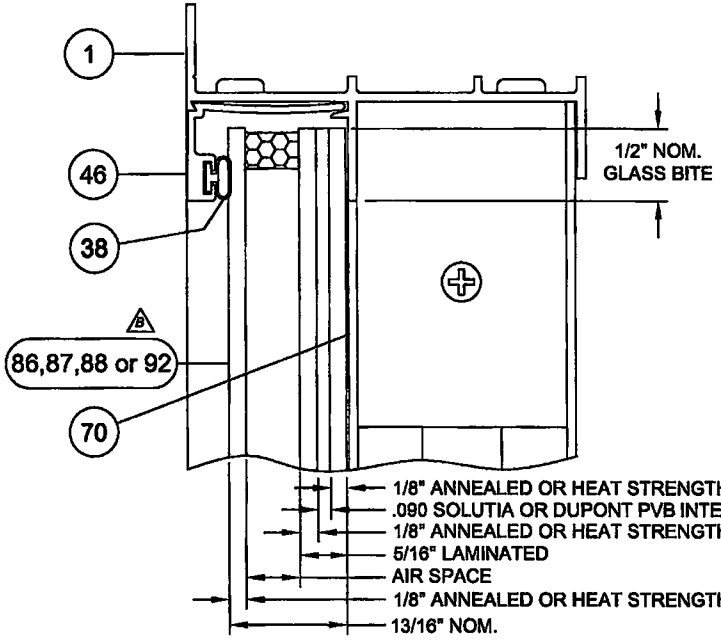
3/14/07
Robert L. Clark, P.E.
PE #39712
Structural



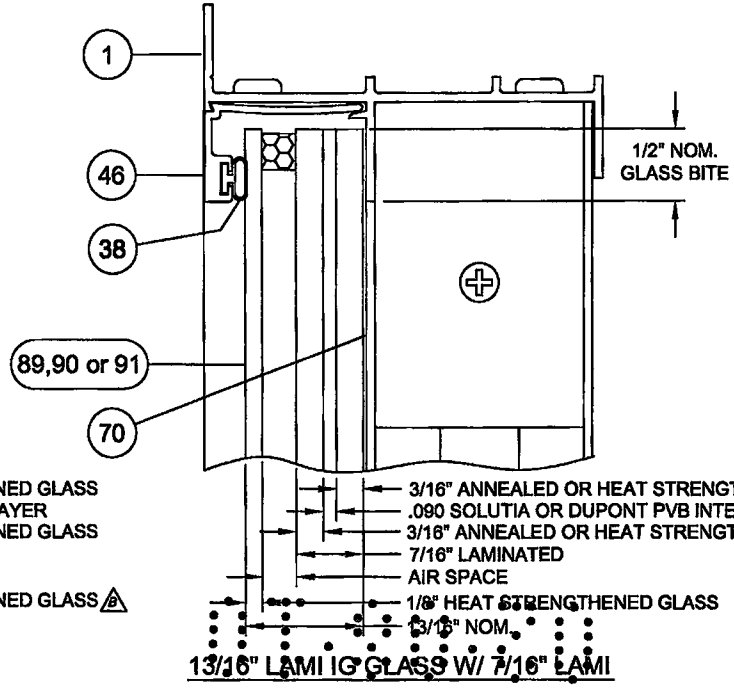
5/16" LAMINATED GLASS



7/16" LAMINATED GLASS



13/16" LAMI IG GLASS W/ 5/16" LAMI



13/16" LAMI IG GLASS W/ 7/16" LAMI

B NOTE:

LAMI IG OUTBOARD LITES MAY BE UPGRADED TO 3/16" WITH NO CHANGE IN DESIGN PRESSURE.

EXTERIOR INTERIOR
(ALL SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date: MARCH 23, 2011
By: Manuel Perez
Miami-Dade Product Control Division

3/16/07
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	ADD ITEM 92 TO 5/16 LAMI I.G. GLASS (A,A,A) & LAMI IG NOTE
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

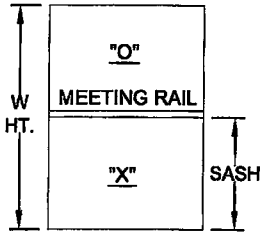
PGT Visibly Better

Description: GLAZING DETAILS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH700	Full	2 of 11	4040-20	B

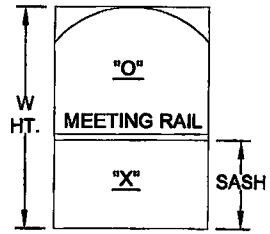
1/1 FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION (B) — TABLE 1.
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT 63"		66"		68"		70"		72"		74"		76"	
48"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
50"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.0	-79.0
52"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+78.8	-78.8	+77.3	-77.3	+75.9	-75.9
53 1/8"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+79.6	-79.6	+78.2	-78.2	+76.9	-76.9	+75.4	-75.4	+74.0	-74.0
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0



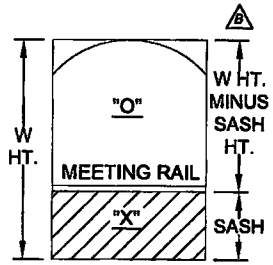
STANDARD VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION (B) — TABLE 2.
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT 38 3/8"		44"		50 5/8"		63"		72"		74"		76"	
48"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
50"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.9	-79.9	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
52"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+76.9	-76.9	+70.0	-70.0	+68.8	-68.8	+67.6	-67.6
53 1/8"	A,B,M (B)	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+75.0	-75.0	+68.0	-68.0	+66.7	-66.7	+65.5	-65.5
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



CUSTOM VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION (B) — TABLE 3.
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

WIDTH	GLASS TYPE	WINDOW HEIGHT MINUS SASH HEIGHT (MAX. WINDOW HT. W/ SASH = 76" FLANGED AND 75" INTEGRAL FIN) 17 1/8"		22 11/16"		28 3/16"		33 3/4"		39 5/16"		44 13/16"		50 3/8"		55 15/16"	
53 1/8"	D,E,F,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



GLASS TYPES: — TABLE 4.

	TEST REPORTS
A. 5/16" LAMI - (1/8"A,.090,1/8"A)	FTL-4647, 4648, 4723, 4957
B. 5/16" LAMI - (1/8"A,.090,1/8"HS)	FTL-4647, 4648
C. 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4647, 4648
D. 7/16" LAMI - (3/16"A,.090, 3/16"A)	FTL-4645, 4885
E. 7/16" LAMI - (3/16"A,.090, 3/16"HS)	FTL-4645
F. 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4645
G. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"A,.090,1/8"A)	FTL-4646, 4723
H. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"A,.090,1/8"HS)	FTL-4646
I. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4646
J. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"A,.090, 3/16"A)	FTL-4649, 4650
K. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"A,.090, 3/16"HS)	FTL-4649, 4650, 4958
L. 13/16" LAMI IG - 1/8"HS, AIR SPACE, 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4649, 4650
M. 13/16" LAMI IG - 1/8"A, AIR SPACE, 5/16" LAMI - (1/8"A,.090, 1/8"A) (B)	FTL-5063

NOTES:
1. WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A POSITIVE DESIGN PRESSURE OF +64.0 PSF OR LOWER AS SHOWN IN THE TABLES. NEGATIVE DESIGN PRESSURES ARE UNEFFECTED.
2. FOR INTEGRAL FIN WINDOW DESIGN PRESSURES USE THE ABOVE TABLES BY DEDUCTING 1" FROM THE FLANGED TIP-TO-TIP FRAME DIMENSIONS. (B)
3. AVAILABLE SASH HEIGHTS FOR CUSTOM WINDOWS ARE 12 5/8" MINIMUM TO 38" MAXIMUM. (B)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date: MARCH 23, 2011
By: Miami-Dade Product Control Division

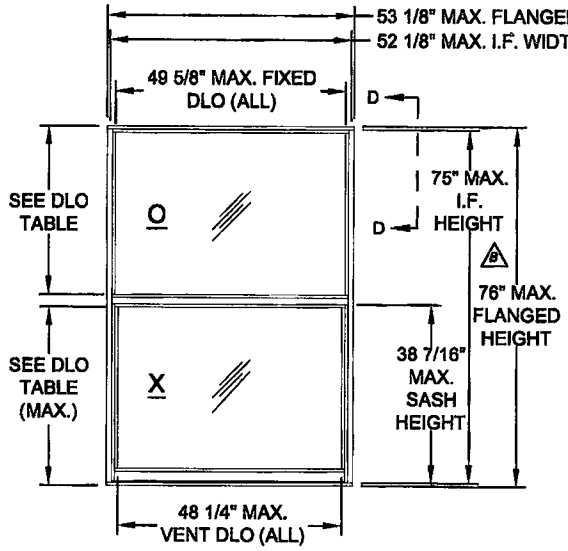
Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	UPDATE TO ASTM E 1300-02. REMOVE STD VIEW SASH HT REF, TABLE 2. REVISED CUSTOM FORMAT DPS. ADD INT. FIN. UPDATE TEST NOS.
F.K.	1/24/06	A	ADD FTL-4723 TO GLASS TYPES A AND G.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

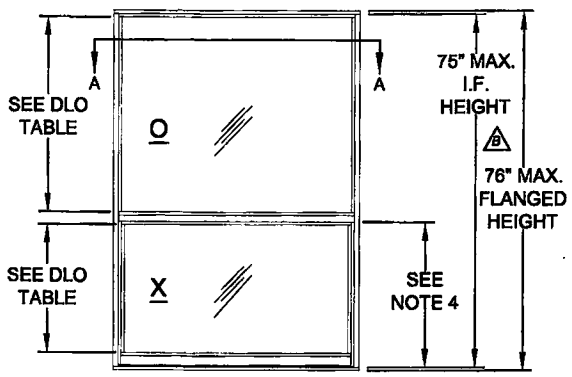
PGT — Visibly Better

Description: DESIGN PRESSURES
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: NTS | Sheet: 3 of 11 | Drawing No.: 4040-20 | Rev: B

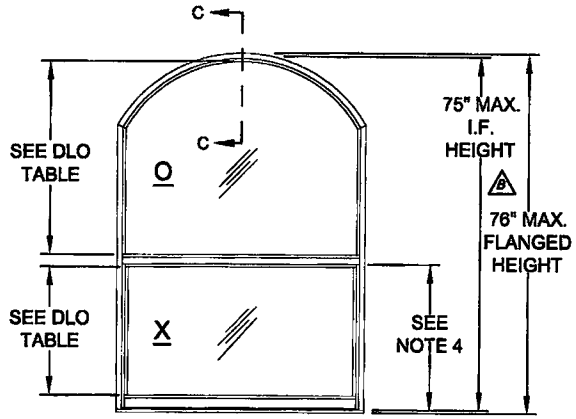
3/16/07
Robert L. Clark, P.E.
PE #39712
Structural



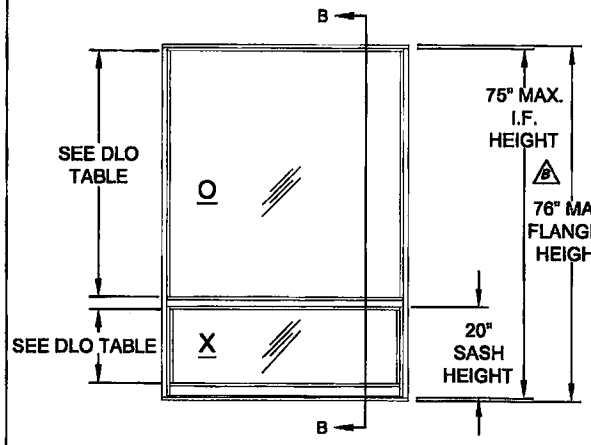
DETAIL A
1/1



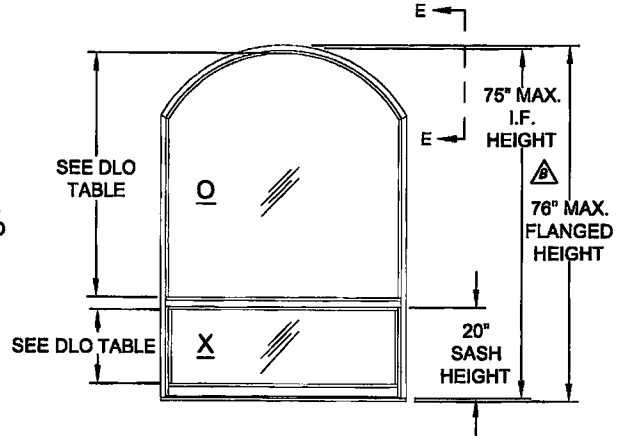
DETAIL B
VIEW (STANDARD SASH)



DETAIL C
RADIUS TOP (STANDARD SASH)



DETAIL D
VIEW (CUSTOM SASH)



DETAIL E
RADIUS TOP (CUSTOM SASH)

VERTICAL DAYLIGHT OPENING		
	FIXED LITE	
DETAIL	LOW SILL	HIGH SILL
A	34 1/2"	34 3/16"
B	41 5/8"	41 1/4"
C	41 1/4"	40 7/8"
D	52 5/8"	52 11/16"
E	52 1/4"	52 5/16"
	SASH	
DETAIL	LOW SILL	HIGH SILL
A	34 1/2"	34 3/16"
B	27 7/16"	27 1/8"
C	27 7/16"	27 1/8"
D	16 3/8"	15 3/4"
E	16 3/8"	15 3/4"

TABLE 5.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date: March 23, 2011
By: Miami Dade Product Control Division

NOTES:

1. SEE SHEET 5 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.
2. SEE SHEET 7 FOR CORNER DETAIL VIEWS.
3. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE INFORMATION. B
4. SASH HEIGHTS FOR STANDARD SASH WINDOWS (DETAILS B & C) ARE BASED ON A THREE OVER TWO FORMAT. B

07-0322.06

Revised By:	Date:	Revisions:	
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD INTEGRAL FIN (I.F.) VERSION, CHG. NOTE 3. ADD NOTE 4.
Revised By: F.K.	Date: 1/24/06	Revisions: A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

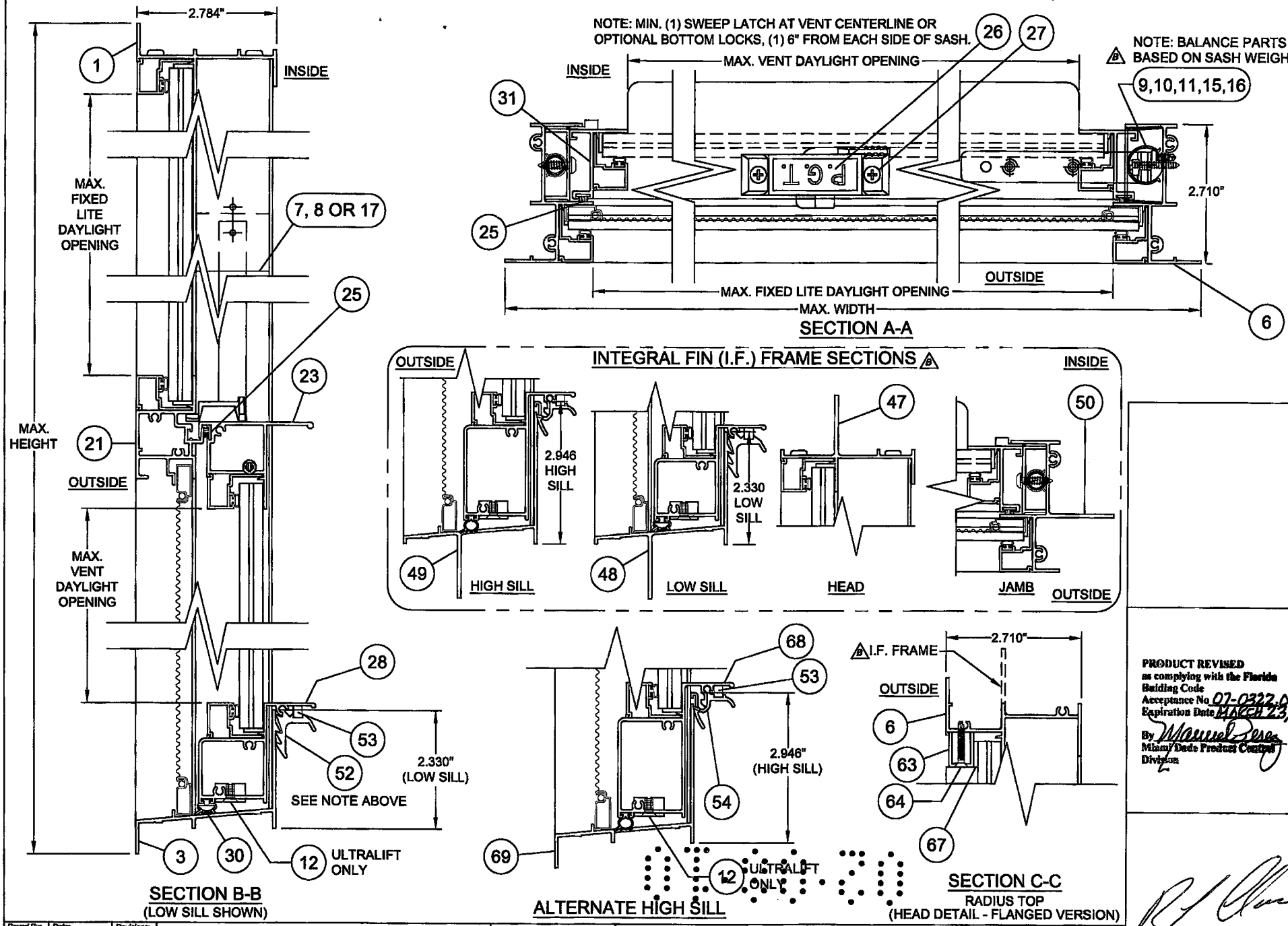
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
VisiblyBetter

Description: ELEVATIONS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Option:	Scale:	Sheet:	Drawing No.	Rev:
SH700	NTS	4 of 11	4040-20	B

3/6/07
Robert L. Clark, P.E.
PE #39712
Structural



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0322.04
Expiration Date MARCH 23, 2011
By Manuel Perez
Miami-Dade Product Control
Division

3/6/07
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:	
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD I.F. SECTIONS & CONSOLIDATE BAL. COMPONENTS
Revised By: F.K.	Date: 1/24/06	Revisions: A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

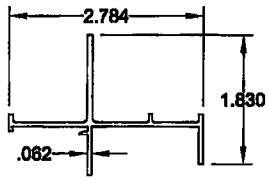
PGT Visibly Better

Description: SECTIONS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

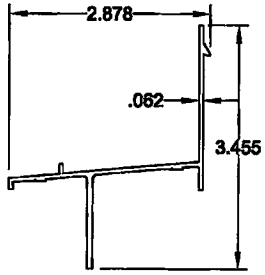
Series/Model:	Glass:	Sheet:	Drawing No.	Rev:
SH700	Half	5 of 11	4040-20	B

ITEM	DWG.#	DESCRIPTION	PGT#	
1	4002A	FLANGE FRAME HEAD	612225	
2	1155	#8 X 1.000 QUAD PN. SMS	781PQA	
3	4003C	FLANGE FRAME SILL (LOW SILL)	612226	
5	1626	ADHESIVE OPEN CELL FOAM PAD	7PAD1626	
6	4004	FLANGE FRAME JAMB	612227	
7	4025	SASH STOP	612244	B
8	4025	SASH STOP (EGRESS) 1.125 LONG	612244	
9	4029	SPIRAL BALANCE, 3/8", 5/8", OR 11/16"		B
10	1080	BALANCE COVER, 3/8" OR 5/8"	6BALCVR916	B
11		#8 X .750 PH. PN. SMS	7834AA	
12		BALANCE BOTTOM BRACKET	7BALTBKT	
13	1085/1086	SASH TOP GUIDE	42504	B
15		#8 X 1 PHILLIPS FLAT HEAD S. STL	78X1FPAX	
16	1080-1	BALANCE COVER, 11/16"	6BALCVR670	B
17	4053	SASH STOP COVER	64053	
18	4029-1	SASH BRACKET	7ULBRKT	
19		#8-32 X 1/2" LG. PH. FH. TYPE F S. STL	7832X12FPFX	
21	4054C	FIXED MEETING RAIL	64054C	B
23	4006C	SASH TOP RAIL	64006	
25	1235	WSTP.,.170 X .270 BACK, FIN SEAL	67S16G	
26	1096	SWEEP LATCH	71096	
27	1016	#8 X .625 PH. FL. SMS	7858	
28	4007	SASH BOTTOM RAIL (LOW SILL)	612230	
30	1226	WSTP., BULB VINYL	6TP249	
31	4008	SASH SIDE RAIL	612231	
34	1268	SASH FACE GUIDE	42501	
35	1622	LAMI SETTING BLOCK 3/32" X 25/64" X 1"	71622K	
36	1052	LAMI IG SETTING BLOCK 1" X 3/4" X 1/16"	71052K	
37	1224	VINYL GLAZ. BEAD BULB (THICK)	6TP247W,K	
38	1225	VINYL GLAZ. BEAD BULB (THIN)	6TP248K	
41	4039B	GLAZING BEAD, 5/16 LAM. GLASS.	64039B	
42	4044B	GLAZING BEAD, 5/16 LAMI W/GRILL KIT	644703	
44	4222A	GLAZING BEAD, 7/16" LAMI	64222	
45	985C	GLAZING BEAD, 7/16" LAMI W/GRILL KIT	6985	
46	4067	GLAZING BEAD, 13/16" LAMI I.G.	64067	
47	4071A	FRAME, I.F. HEAD	64071	B
48	4072A	FRAME, I.F. LOW SILL	64072	B
49	4073A	FRAME, I.F. HIGH SILL	64073	B
50	4074B	FRAME, I.F. JAMB	64074	B
52	4009	SILL LATCH (EGRESS) (LOW SILL)	764009	
53	1088	SPRING, SILL LATCH (EGRESS)	7SPRNG	
54	2740	SILL LATCH (EGRESS) (HIGH SILL)	62740	
55	1014	SCREEN FRAME (HOR. & VER.)	61014	
56	1630	SCREEN CORNER KEY W/RINGS	71630	
57	1631	SCREEN CORNER KEY W/OUT RINGS	71631	
58	1073	SCREEN SPRING	7CASP	
59	1624	SCREEN SPLINE - .135 DIA. FOAM	61624K	

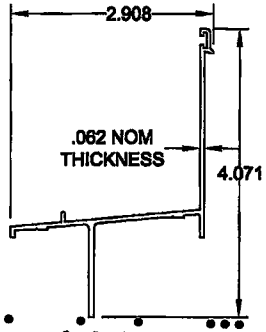
ITEM	DWG.#	DESCRIPTION	PGT#	
60	1635	SCREEN SPLINE - .135 DIA. HARD	61635K	
61		SCREEN CLOTH	61816	
63	505	GLAZING CHANNEL (.688 X .500)	6533402	
64	1161	#6 X 1.000 PH. BUGLE TEK	706X1	
67		GLAZING TAPE, 1/16 X 1/2 - 7/16 LAMI	62BV1510	
68	4051A	SASH BOTTOM RAIL (HIGH SILL)	64051	
69	4050A	FLANGE FRAME SILL (HIGH SILL)	64050	
70		SILICONE, DOW 899, 995 OR EQUIV.		
80	A. GLASS, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)			
81	B. GLASS, 5/16" LAMI, (1/8"A,.090 PVB,1/8"HS)			
82	C. GLASS, 5/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)			
83	D. GLASS, 7/16" LAMI, (1/8"A,.090 PVB,1/8"A)			
84	E. GLASS, 7/16" LAMI, (1/8"A,.090 PVB,1/8"HS)			
85	F. GLASS, 7/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)			
86	G. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)			
87	H. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"HS)			
88	I. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 5/16" LAMI, (1/8"HS,.090 PVB,1/8"HS)			
89	J. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 7/16" LAMI, (3/16"A,.090 PVB,3/16"A)			
90	K. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 7/16" LAMI, (3/16"A,.090 PVB,3/16"HS)			
91	L. GLASS, 13/16" LAMI IG; 1/8"HS, AIR SPACE, 7/16" LAMI, (3/16"HS,.090 PVB,3/16"HS)			
92	M. GLASS, 13/16" LAMI IG; 1/8"A, AIR SPACE, 5/16" LAMI, (1/8"A,.090 PVB,1/8"A)			B



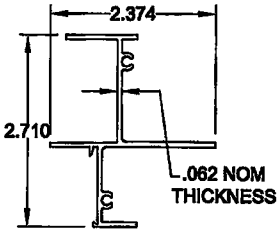
47 FRAME, I.F. HEAD
#4071A, 6063-T6



48 FRAME, I.F. LOW SILL
#4072A, 6063-T6



49 FRAME, I.F. HIGH SILL
#4073A, 6063-T6



50 FRAME, I.F. JAMB
#4074B, 6063-T6
(USED AS RADIUS TOP HEAD)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date MARCH 23, 2011
By: Miami-Dade Product Control Division

3/6/07
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	ADD I.F. FRAME ITEMS 47, 48, 49 AND 50. UPGRADE ITEM 21. ADD ITEM 92. CHG. DESCRIPTION ITEMS 7,9 & 13
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276

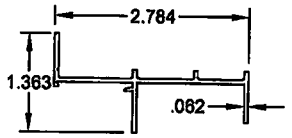
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

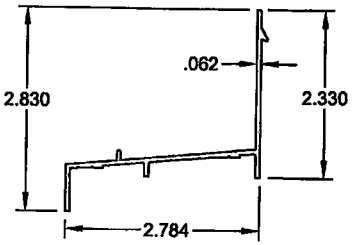
Description: PARTS LIST

Title: ALUM. SINGLE HUNG WINDOW, IMPACT

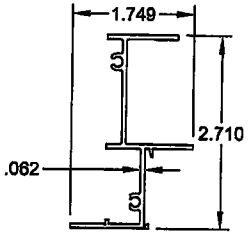
Sales/Model:	Scale:	Sheet:	Drawing No.	Rev:
S-700	NTS	6 of 11	4040-20	B



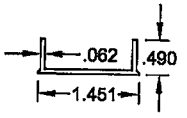
1 FLANGE FRAME HEAD
#4002A, 6063-T6



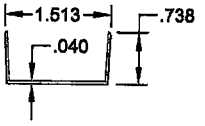
3 FLANGE FRAME SILL (LOW)
#4003C, 6063-T6



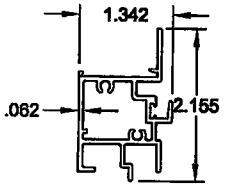
6 FLANGE FRAME JAMB
#4004, 6063-T5
(USED AS RADIUS TOP HEAD)



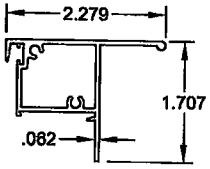
7 SASH STOP
#4025, 6063-T5



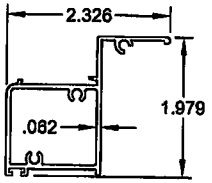
17 SASH STOP COVER
#4053, 6063-T5



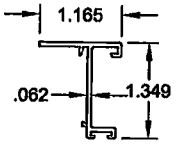
21 FIXED MEETING RAIL
#4054A, 6063HD-T6 B



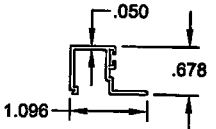
23 SASH TOP RAIL
#4006C, 6063HS-T6



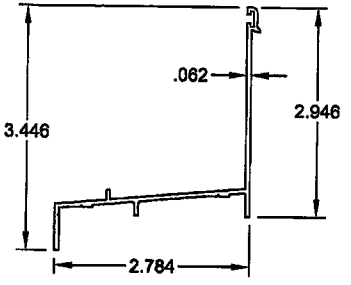
28 SASH BOTTOM RAIL (LOW)
#4007, 6063-T5



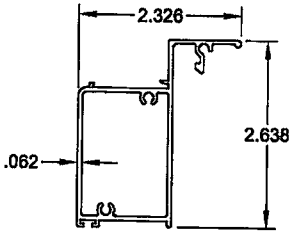
31 SASH SIDE RAIL
#4008, 6063-T5



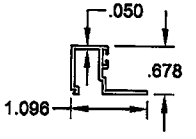
41 GLAZING BEAD, 5/16"
#4039B, 6063-T5



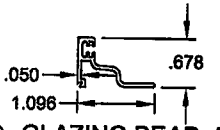
69 FLANGE FRAME SILL (HIGH)
#4050A, 6063-T6



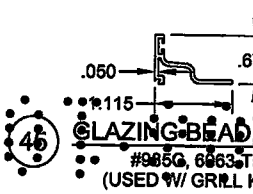
68 SASH BOTTOM RAIL (HIGH)
#4051A, 6063-T5



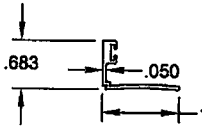
44 GLAZING BEAD 7/16"
#4222, 6063-T5



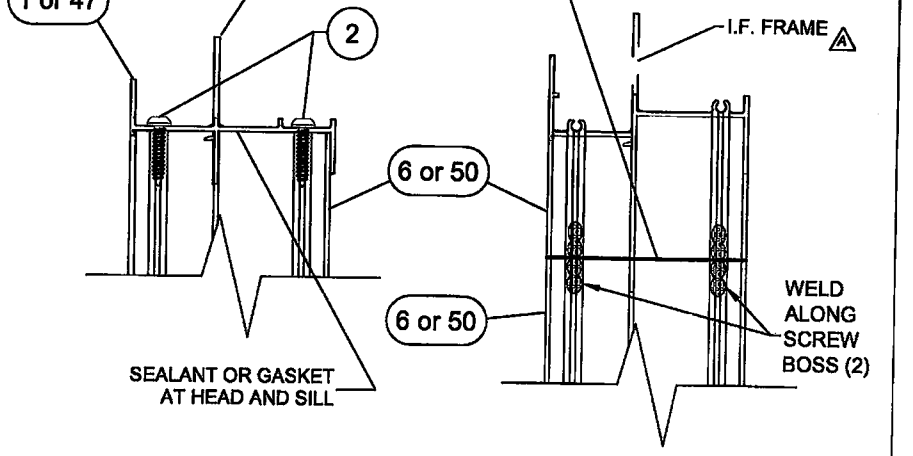
42 GLAZING BEAD, 5/16"
#4044B, 6063-T5
(USED W/ GRILL KIT)



45 GLAZING BEAD, 7/16"
#4065, 6063-T5
(USED W/ GRILL KIT)



46 GLAZING BEAD, 13/16" IG
#4067, 6063-T5



VIEW D-D
(1/1 & VIEW HEAD & SILL, RADIUS TOP SILL)

VIEW E-E
(RADIUS TOP HEAD ONLY)

FRAME CORNER CONSTRUCTION

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0327.06
Expiration Date MARCH 23, 2011
By Manuel Serra
Miami-Dade Product Control Division

Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	UPDATE FRAME CORNER ASSEMBLY TO INCLUDE I.F. AND UPGRADE ITEM 21 ALLOY.
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: EXTRUSIONS & FRAME CORNER DETAIL
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: Half | Sheet: 7 of 11 | Drawing No.: 4040-20 | Rev: B

3/16/07
Robert L. Clark, P.E.
PE #39712
Structural

ANCHOR QUANTITIES FOR 1/1 FLANGED WINDOWS

TABLE 5.

WINDOW WIDTH	GLASS TYPE	WINDOW HEIGHT: 28.603			34.603			40.603			46.603			52.603			58.603			64.603			76.000		
SUBSTRATE:		2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
ANCHOR TYPE:																									
19.125	C,D,E,F,G, H,I,J,K,L	1 / 1 2	1 / 1 1	1 / 1 1	1 / 1 2	1 / 1 1	1 / 1 2	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 3 3
	A,B,M	1 / 1 2	1 / 1 1	1 / 1 1	1 / 1 2	1 / 1 1	1 / 1 2	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 3 3
24.000	C,D,E,F,G, H,I,J,K,L	1 / 1 2	1 / 1 1	1 / 1 2	1 / 1 2	1 / 1 2	1 / 1 2	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 2 3	1 / 3 3	1 / 2 2	1 / 3 3
	A,B,M	1 / 1 2	1 / 1 1	1 / 1 2	1 / 1 2	1 / 1 2	1 / 1 2	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 2 2	1 / 2 3	1 / 2 2	1 / 2 3	1 / 3 3	1 / 2 2	1 / 3 3
32.000	C,D,E,F,G, H,I,J,K,L	1 / 1 2	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 3	1 / 2 3	1 / 2 2	1 / 2 3	1 / 2 3	1 / 2 2	1 / 2 3	2 / 3 3	1 / 2 2	1 / 2 3	2 / 3 4	1 / 3 2	1 / 3 3	2 / 3 4	1 / 3 3	1 / 4 4
	A,B,M	1 / 1 2	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 3	1 / 2 3	1 / 2 2	1 / 2 3	1 / 2 3	1 / 2 2	1 / 2 3	1 / 2 3	1 / 2 2	1 / 2 3	1 / 3 3	1 / 2 2	1 / 3 3	1 / 3 4	1 / 3 3	1 / 4 4
37.000	C,D,E,F,G, H,I,J,K,L	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 3	2 / 2 3	1 / 2 2	1 / 2 3	2 / 2 3	1 / 2 2	2 / 2 3	2 / 2 3	1 / 2 3	2 / 2 3	2 / 3 4	1 / 2 3	2 / 3 3	2 / 3 4	1 / 3 3	2 / 3 4	2 / 3 5	1 / 3 3	2 / 4 4
	A,B,M	1 / 2 2	1 / 1 2	1 / 2 2	1 / 2 3	1 / 1 2	1 / 2 3	2 / 2 3	1 / 2 2	1 / 2 3	2 / 2 3	1 / 2 2	2 / 2 3	2 / 2 3	1 / 2 3	2 / 2 3	2 / 3 4	1 / 2 3	2 / 3 3	2 / 3 4	1 / 3 3	2 / 3 4	2 / 3 5	1 / 3 3	2 / 4 4
40.000	PSF	79																							
	C,D,E,F,G, H,I,J,K,L	2 / 2 2	2 / 1 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 4 5	2 / 3 3	2 / 4 4
	A,B,M	2 / 2 2	2 / 1 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 3	2 / 2 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 4 5	2 / 3 3	2 / 4 4
44.000	PSF	79																							
	C,D,E,F,G, H,I,J,K,L	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 2	2 / 3 3	2 / 2 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 3 4	2 / 4 5	2 / 3 4	2 / 4 5
	A,B,M	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 2 3	2 / 2 2	2 / 3 3	2 / 2 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 3 4	2 / 4 5	2 / 3 4	2 / 4 5
48.000	PSF	79		79																					
	C,D,E,F,G, H,I,J,K,L	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 3 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 4 5	2 / 4 6	2 / 3 4	2 / 5 5
	A,B,M	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 3 4	2 / 3 3	2 / 3 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 4 5	2 / 4 6	2 / 3 4	2 / 5 5
53.125	PSF	72		79	79																				
	C,D,E,F,G, H,I,J,K,L	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 4 4	2 / 4 6	2 / 3 4	2 / 4 5	2 / 4 6	2 / 3 4	2 / 5 6
	A,B,M	2 / 2 2	2 / 2 2	2 / 2 2	2 / 2 3	2 / 2 2	2 / 2 3	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 4	2 / 3 3	2 / 3 4	2 / 3 5	2 / 3 3	2 / 4 4	2 / 4 5	2 / 3 3	2 / 4 5	2 / 4 6	2 / 3 4	2 / 4 5

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS

B

2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWIING DIMENSIONS.
   HEAD - 18 1/2" MAX. FROM TOP CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   15" MAX. FROM BOTTOM CORNERS
   6" MAX. BELOW MTG. RAIL
   SILL - ANCHORS NOT REQUIRED

B

3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.

B

4. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.

B

5. DESIGN PRESSURE LIMITATIONS:
   SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

B

TABLE KEY:

MAX. PSF

(DP LIMITED) 118

HEAD 2

JAMB ABOVE 2 3

MTG. RAIL

JAMB BELOW

MTG. RAIL

(FULL DP)

HEAD 2

JAMB ABOVE 2 3

MTG. RAIL

JAMB BELOW

MTG. RAIL

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date March 23, 2011
By Warren Lee
Miami-Dade Product Control Division

Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visible Beauty

Description: ANCHORAGE SPACING, 1/1 WINDOWS

Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Scale/Model: SH700 | Scale: NTS | Sheet: 8 of 11 | Drawing No.: 4040-20 | Rev: B

3/6/07

Robert L. Clark, P.E.
PE #39712
Structural

ANCHOR QUANTITIES FOR STANDARD VIEW AND RADIUS TOP FLANGED WINDOWS — TABLE 6.

WINDOW WIDTH	GLASS TYPE	SUBSTRATE: / ANCHOR TYPE:	WINDOW HEIGHT 29.655			37.155			44.655			52.155			59.655			67.155			74.655			76.000		
			2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
19.125	C,D,E,F,G, H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 1	2 2	2 2	2 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	2 2	3 2	3 2	2 2	3 2
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 1	2 2	2 2	2 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	2 2	3 2	3 2	2 2	3 2
24.000	PSF		79																							
	C,D,E,F,G, H,I,J,K,L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	1 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2
	A,B,M		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	1 1	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2	3 2	2 2	3 2
32.000	PSF		68		77																					
	C,D,E,F,G, H,I,J,K,L		1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	2 2	3 3	2 2	3 3	3 3	3 2	3 3	3 3	2 2	3 3	4 3	3 2	4 3	4 3	3 2	4 3
	A,B,M		1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	2 2	3 3	2 2	3 3	3 3	3 2	3 3	3 3	2 2	3 3	4 3	3 2	4 3	4 3	3 2	4 3
37.000	PSF		59		67	79																				
	C,D,E,F,G, H,I,J,K,L		1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	2 3	3 3	2 2	3 3	3 3	3 3	4 3	3 3	3 2	3 3	4 3	3 2	4 3	4 4	3 2	4 3
	A,B,M		1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	2 3	3 3	2 2	3 3	3 3	3 3	4 3	3 3	3 2	3 3	4 3	3 2	4 3	4 4	3 2	4 3
40.000	PSF		54	79	62	79																				
	C,D,E,F,G, H,I,J,K,L		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	3 3	3 3	2 2	3 3	4 3	3 3	4 3	3 3	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 3
	A,B,M		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	2 3	2 2	3 3	3 3	2 2	3 3	4 3	3 3	4 3	3 3	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 3
44.000	PSF		49	79	56	79		79																		
	C,D,E,F,G, H,I,J,K,L		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	2 2	3 3	3 4	2 3	3 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 4
	A,B,M		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	2 2	3 3	3 4	2 3	3 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	4 3	4 4	3 3	5 4
48.000	PSF		45	74	51	74		79	79																	
	C,D,E,F,G, H,I,J,K,L		2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	3	2	2	3	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	2 2	3 3	3 4	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	4 3	5 4	4 4	4 3	5 4
	A,B,M		2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	3	2	2	3	2	2
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	2 2	3 3	3 4	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	4 3	5 4	4 4	4 3	5 4
53.125	PSF		41	67	46	67		76	79																	
	C,D,E,F,G, H,I,J,K,L		2	2	2	2	2	2	3	2	2	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	3 3	4 4	5 4	4 3	5 4	5 4	4 3	5 4
	A,B,M		2	2	2	2	2	2	3	2	2	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3
			1 1	1 1	1 1	2 2	2 2	2 2	3 3	3 3	3 3	4 4	3 3	4 4	4 4	3 3	4 4	4 4	3 3	4 4	5 4	4 3	5 4	5 4	4 3	5 4

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS:
   HEAD - 18 1/2" MAX. FROM TOP CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   15" MAX. FROM BOTTOM CORNERS
   6" MAX. BELOW MTG. RAIL
   SILL - ANCHORS NOT REQUIRED
3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
4. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
5. DESIGN PRESSURE LIMITATIONS:
   SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

	MAX. PSF
(DP LIMITED)	117
HEAD	3
JAMB ABOVE MTG. RAIL	3 3
JAMB BELOW MTG. RAIL	
(FULL DP)	
HEAD	2
JAMB ABOVE MTG. RAIL	2 2
JAMB BELOW MTG. RAIL	

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 07-0322.06
Expiration Date: MARCH 23, 2011
By: Miami-Dade Product Control Division

Revised By:	Date:	Revisions:	
F.K.	11/13/06	B	REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: ANCHORAGE SPACING, STANDARD VIEW
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: NTS | Sheet: 9 of 11 | Drawing No.: 4040-20 | Rev: B

3/4/07
Robert L. Clark, P.E.
PE #39712
Structural

ANCHOR QUANTITIES ABOVE MEETING RAIL (HEAD & JAMBS), CUSTOM FLANGED WINDOW HEIGHT MINUS SASH HEIGHT TABLE 7.

WINDOW HEIGHT MINUS SASH HEIGHT FROM TABLE 8.

SUBSTRATE:		17.125			22.668			28.211			33.754			39.296			44.839			50.382			55.925		
ANCHOR TYPE:		2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
WINDOW WIDTH	GLASS TYPE																								
19.125	D,E,F,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2	3	3	3	3
24.000	D,E,F,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1	1	1	2	2	2	2	2	2	2	2	3	3	2	3	3	2	3	3	3	3	3	3	4
32.000	D,E,F,J,K,L	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1	1	1	2	2	2	3	2	3	3	3	3	3	2	3	4	3	4	4	3	4	5	3	5
37.000	PSF						***79***																		
	D,E,F,J,K,L	1	1	1	2	1	**2**	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
		1	1	1	2	2	**2**	3	2	3	3	3	4	3	3	3	4	3	4	4	4	5	5	4	5
40.000	PSF			***79***	***79***		***79***			***79***															
	D,E,F,J,K,L	2	2	**2**	2	2	**2**	2	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		1	1	**1**	2	2	**2**	3	3	**3**	4	3	4	4	3	4	4	3	5	4	4	5	5	4	6
44.000	PSF	***79***		***76***	***79***		***77***	***79***		***79***			***79***												
	D,E,F,J,K,L	**2**	2	**2**	2	2	**2**	2	2	**2**	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		1	1	**1**	2	2	**2**	3	3	**3**	4	4	4	4	3	5	4	3	5	5	4	5	5	4	6
48.000	PSF	***78***	***79***	***70***	***79***	***79***	***71***	***79***		***73***			***76***												
	D,E,F,J,K,L	**2**	2	**2**	2	2	**2**	2	2	**2**	3	2	2	2	2	2	3	2	2	3	2	2	3	2	2
		1	1	**1**	2	2	**2**	3	3	**3**	4	4	4	5	4	5	5	4	6	5	4	6	6	5	6
53.125	PSF	***71***	***79***	***63***	***71***	***79***	***64***	***74***		***66***	***77***		***69***						***69***						
	D,E,F,J,K,L	**2**	2	**2**	2	2	**2**	3	2	**2**	3	2	3	3	2	3	3	2	**3**	3	2	3	3	2	3
		1	1	**1**	2	2	**2**	3	3	**3**	4	4	4	5	4	5	6	5	**6**	6	5	7	6	5	7

ANCHOR QUANTITIES AT JAMBS BELOW MEETING RAIL, CUSTOM FLANGED WINDOWS BASED ON SASH HT. TABLE 8.

SASH HEIGHT

SUBSTRATE:	12.776			15.776			18.776			21.776			24.776			27.776			30.776			31.106		
ANCHOR TYPE:	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC	2,3 WOOD	2 CONC	1 CONC
WINDOW WIDTH																								
19.125	1	1	1	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24.000	2	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2
32.000	2	1	2	2	2	2	3	2	2	3	2	3	3	2	3	3	2	3	4	2	3	4	2	3
37.000				***79***																				
	2	1	2	**2**	2	2	3	2	3	3	2	3	3	3	3	3	3	3	4	3	3	4	3	4
40.000				***74***																				
	2	2	2	**2**	2	2	3	2	3	3	2	3	3	3	3	4	3	3	4	3	4	4	3	4
44.000				***68***		***78***																		
	2	2	2	**2**	2	**2**	3	2	3	3	3	3	4	3	3	4	3	4	5	3	4	5	3	4
48.000				***63***		***72***	***79***																	
	2	2	2	**2**	2	**2**	3	2	3	4	3	3	4	3	4	4	3	4	5	3	4	5	3	4
53.125	***73***			***58***		***66***	***72***																	
	2	2	2	**2**	2	**2**	3	3	3	4	3	4	4	3	4	5	3	4	5	3	5	5	3	5

ANCHORAGE NOTES:

1. ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
   2 - 1/4" ELCO SS4 CRETE-FLEX
   3 - #12 SCREWS
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWIING
   B DIMENSIONS:
   HEAD - 18 1/2" MAX. FROM CORNERS
   JAMBS - 17 1/2" MAX. FROM TOP CORNERS
   11 1/2" MAX. ABOVE THE MEETING RAIL
   6" MAX. BELOW MTG. RAIL
   15" MAX. FROM BOTTOM CORNERS
   SILL - ANCHORS NOT REQUIRED
3. DETERMINE THE ANHCOR QUANTITIES FOR CUSTOM
   B VIEW WINDOWS FROM TABLES 7. AND 8. USING THE DIMENSIONAL CRITERIA OF NOTE 2. USE TABLE 7. FOR ABOVE THE MEETING RAIL AND TABLE 8. FOR BELOW.
4. AVAILABLE SASH HEIGHTS FOR CUSTOM VIEW
   B WINDOWS ARE 12 5/8" MIN. TO 38" MAX.
5. TABLE WIDTH AND HEIGHT DIMENSION ARE FOR
   B FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
6. DESIGN PRESSURE LIMITATIONS:
   B SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

B TABLE 7. KEY:

MAX. PSF	
(DP LIMITED)	***112***
HEAD	**2**
JAMB ABOVE MTG. RAIL	**2**
(FULL DP)	
HEAD	2
JAMB ABOVE MTG. RAIL	4

B TABLE 8. KEY:

MAX. PSF	
(DP LIMITED)	***112***
JAMB BELOW MTG. RAIL	**2**
(FULL DP)	
JAMB BELOW MTG. RAIL	2

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 07-0322.06
Expiration Date MARCH 23, 2011
By Manuel Perez
Miami-Dade Product Control Division

3/4/07
Robert L. Clark, P.E.
PE #39712
Structural

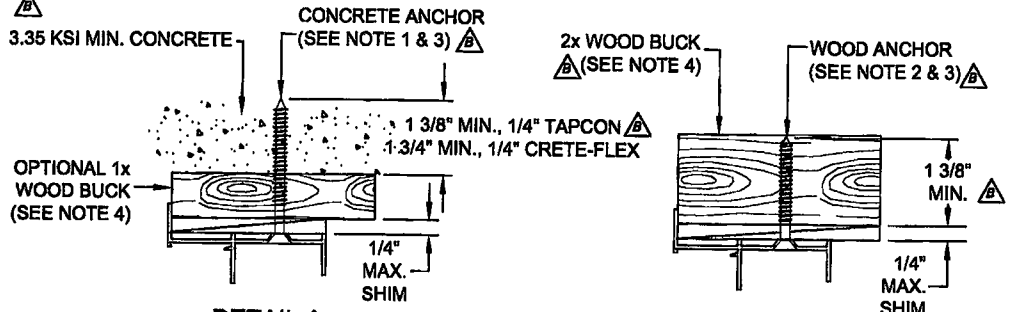
Revsd By:	Date:	Revisions:	
F.K.	11/13/06	B	REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
F.K.	1/24/06	A	NO CHANGE THIS SHEET
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
PGT Visible Better

Description: ANCHORAGE SPACING, CUSTOM VIEW
Title: ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model: SH700	Scale: NTS	Sheet: 10 of 11	Drawing No.: 4040-20	Rev: B

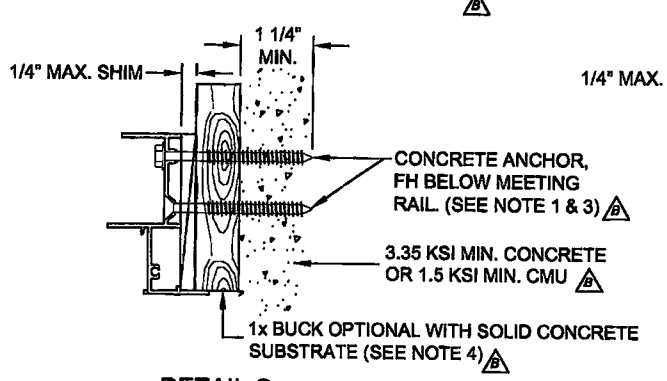
EXTERIOR INTERIOR
(ALL HEAD AND SILL DETAILS)



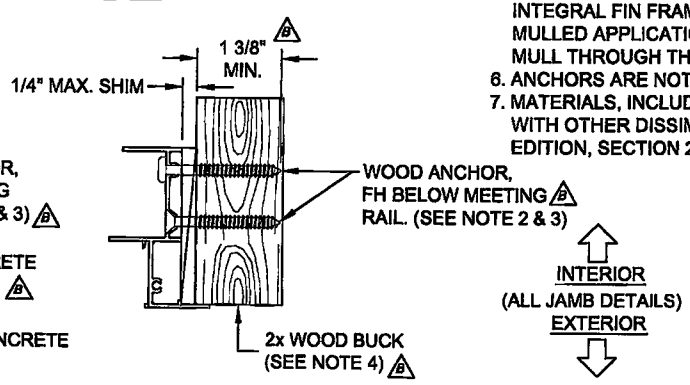
DETAIL A

DETAIL B

TYPICAL FLANGED HEAD ANCHORAGE B



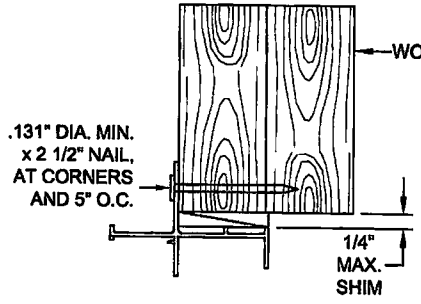
DETAIL C



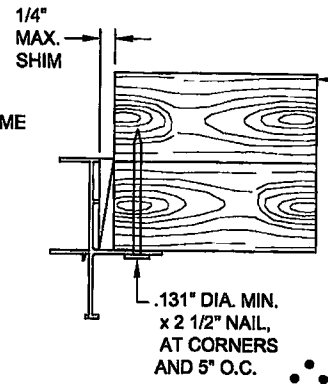
DETAIL D

INTERIOR
(ALL JAMB DETAILS)
EXTERIOR

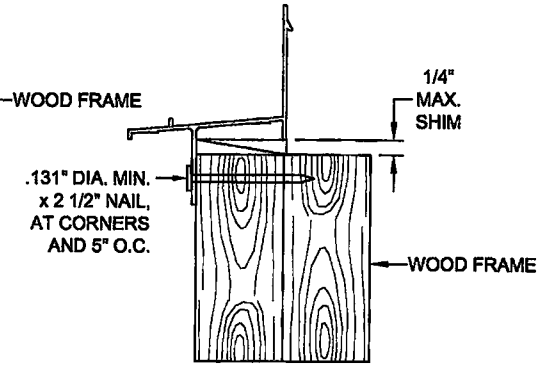
TYPICAL FLANGED JAMB ANCHORAGE B



DETAIL F, (HEAD)



DETAIL E, (JAMB)



DETAIL G, (SILL)

TYPICAL INTEGRAL FIN ANCHORAGE B

B NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4".
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX.
3. FLAT HEAD ANCHORS, WHERE REQUIRED, MUST HAVE #12 TRIMFIT HEADS.
4. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
5. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED. A FLANGED FRAME COMPONENT MAY BE SUBSTITUTED FOR AN INTEGRAL FIN FRAME COMPONENT FOR MULLED APPLICATIONS. FOR INTEGRAL FIN MULLED APPLICATIONS IT IS EXCEPTABLE TO REMOVE THE FIN AND ATTACH TO THE MULL THROUGH THE FRAME USING THE FLANGED FRAME ANCHORAGE REQUIREMENT.
6. ANCHORS ARE NOT REQUIRED AT THE SILL OF FLANGED UNITS.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FBC CURRENT, EDITION, SECTION 2003.8.4 (SUPPLEMENT 2005).

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0322.06
Expiration Date: JULY 23, 2011
By: Miami-Dade Product Control
Division

Revised By:	Date:	Revisions:	
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD INTEGRAL FIN ANCHORAGE, UPDATE & REORDER NOTES. ADD NOTES 7. UPDATE CONCRETE EMBEDMENT DIM.
Revised By: F.K.	Date: 1/24/06	Revisions: A	ADD NOTE 6 RE FLAT HEAD ANCHORS.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visible Better

Description: ANCHORAGE DETAILS
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700 | Scale: NTS | Sheet: 11 of 11 | Drawing No.: 4040-20 | Rev: B

3/16/07
Robert L. Clark, P.E.
PE #39712
Structural

MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339
www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

B00/1007

PGT Industries
1070 Technology Drive
Nokomis, FL 34274

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series C-740 Outswing Aluminum Casement Window -L.M.I.

APPROVAL DOCUMENT: Drawing No. **7045-8**, titled "Aluminum Casement Window, Impact", sheets 1 through 13 of 13, dated 12/17/02 with revision **"D"** dated 06/23/08, prepared by manufacturer, signed and sealed by Lucas A. Turner, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 05-1129.11** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

NOA No. 08-0117.11
Expiration Date: May 22, 2013
Approval Date: May 15, 2008
Page 1

NOTES: LARGE MISSILE WINDOWS

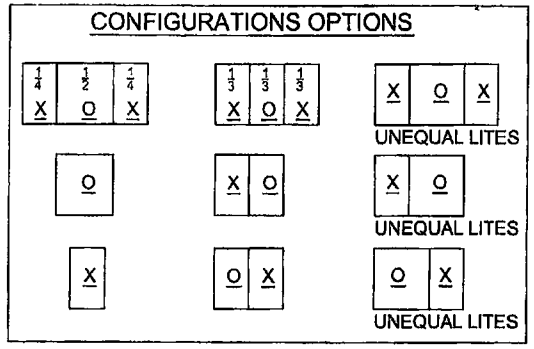
1. GLAZING OPTIONS:
   - A. 5/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
   - B. 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
   - C. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
   - D. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
   - E. 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS AND (1) 5/16" LAMINATED COMPONENT WITH A 3/8" AIR SPACE. 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.
   - △D F. 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.
   - △D G. 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.
2. CONFIGURATIONS: X, XX, XO, OX, XOX AND O
3. DESIGN PRESSURE RATINGS / COMPARATIVE ANALYSIS TABLES:
   - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-98.
   - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-98. △D
   - C. DESIGN PRESSURES UNDER 40 P.S.F. NOT APPLICABLE IN MIAMI-DADE COUNTY.
   - D. FOR "X" CONFIGURATIONS SEE SHEET 5.
   - E. FOR "XX" CONFIGURATIONS SEE SHEET 6.
   - F. FOR $\frac{1}{4}\frac{1}{2}\frac{1}{4}$ "XOX" & "O" CONFIGURATIONS SEE SHEET 7.
   - G. FOR $\frac{1}{3}\frac{1}{3}\frac{1}{3}$ "XOX" & "XO" OR "OX" CONFIGURATIONS SEE SHEET 8.
   - H. FOR UNEQUAL LITE "XOX, "XO" & "OX" CONFIGURATIONS SEE SHEET 9.
4. △D ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 3, 4 AND 13 FOR ADDITIONAL ANCHORAGE INFORMATION.

   HEAD & SILL: MAX. 4" FROM CORNERS
   MAX. 4" & 7" ON EACH SIDE OF MEETING RAILS
   MAX. 14 1/2" SPACING ON VENTS
   MAX. 13" SPACING ON FIXED LITES
   (2) ANCHORS 3" APART AT MID-SPAN ON FIXED LITE ONLY

   JAMBS: MAX. 4" FROM CORNERS
   MAX. 13" SPACING
   (2) ANCHORS 3" APART AT MID-SPAN

   △D SEE SHEET 13 FOR APPROVED ANCHORS. 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MAY BE USED IN CONCRETE OR WOOD APPLICATIONS TO ACHIEVE THE DESIGN PRESSURES SHOWN IN SHEETS 5 THROUGH 9. SEE SHEETS 5 THROUGH 9 FOR DESIGN PRESSURE LIMITATIONS WHEN ANCHORING WITH #12 SCREWS.
5. SHUTTER REQUIREMENT: NONE REQUIRED
6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME.
7. △D REFERENCE TEST REPORTS: FTL-3580, FTL-3582, FTL-3587, FTL-3729, FTL4607 AND FTL-4608.

CONFIGURATIONS OPTIONS



NOA DRAWING TABLE OF CONTENTS

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SECTIONS	10
CORNER CONSTRUCTION	11
EXTRUSION PROFILES	11-12
PARTS LIST	12
ANCHORAGE	1,3,4,13

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No: 05-1129.11
Expiration Date: 05/22/10
By: M. Khan
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No: 08-0117.11
Expiration Date: MAY 22, 2013
By: Manuel Perez
Miami-Dade Product Control Division

08.90.20

Revsd By	Date	Revisions	
F.K.	3/25/03	B	ADD 13/16" I.G. & MOVE GLAZING DETAILS TO SHEET 2
F.K.	7/10/03	C	NO CHANGE THIS SHEET
F.K.	6/23/05	D	ADD 76" HT., GLASS TYPES F AND G. REVISE ANCHORAGE.
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

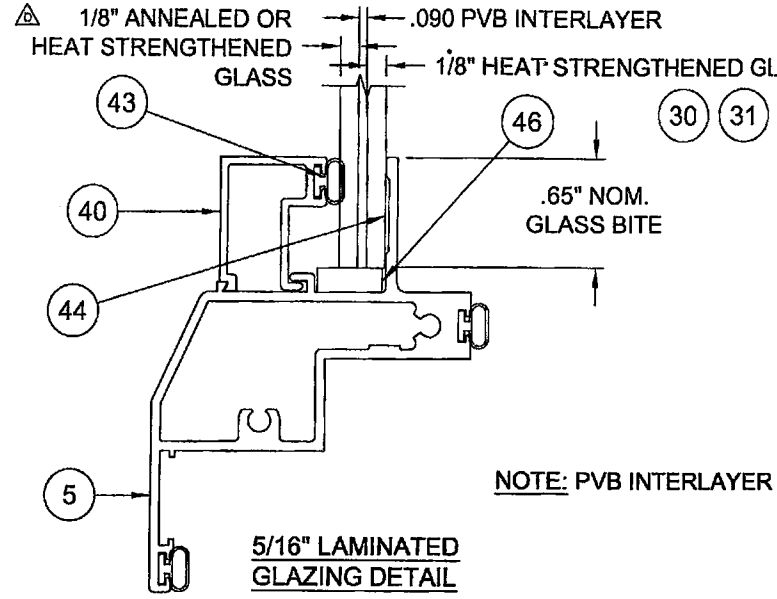
PGT Visibly Better

Description: NOTES AND TABLE OF CONTENTS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model	Scale	Sheet	Drawing No	Rev
CA-740	NTS	1 of 13	7045-8	D

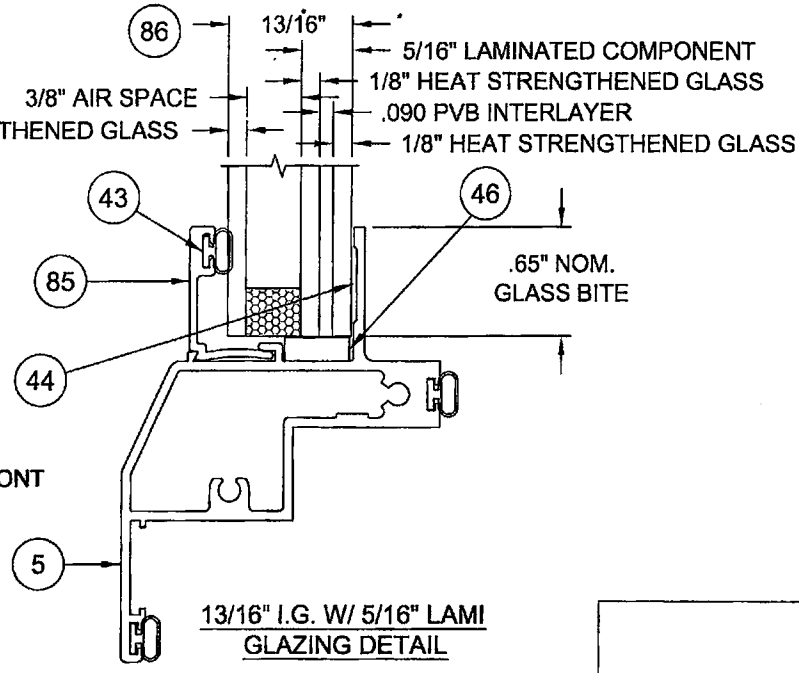
Lucas A. Turner, P.E.
PE #58201
Mechanical

11/21/05

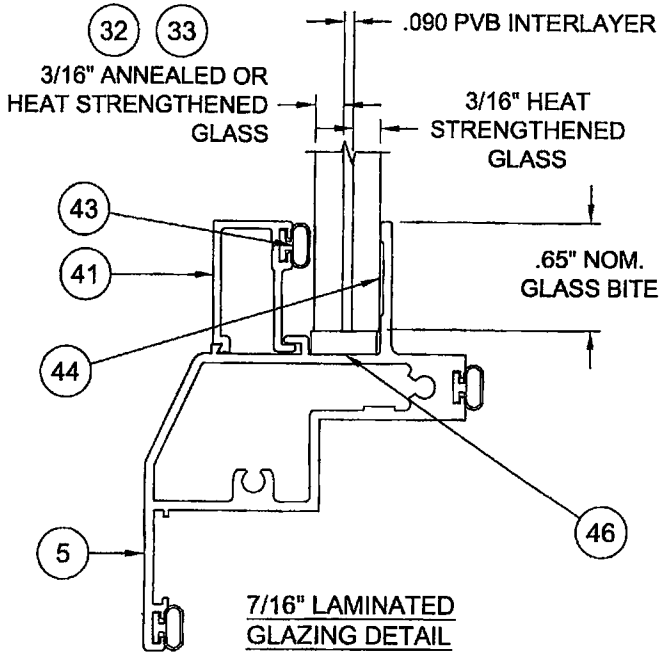


5/16" LAMINATED GLAZING DETAIL

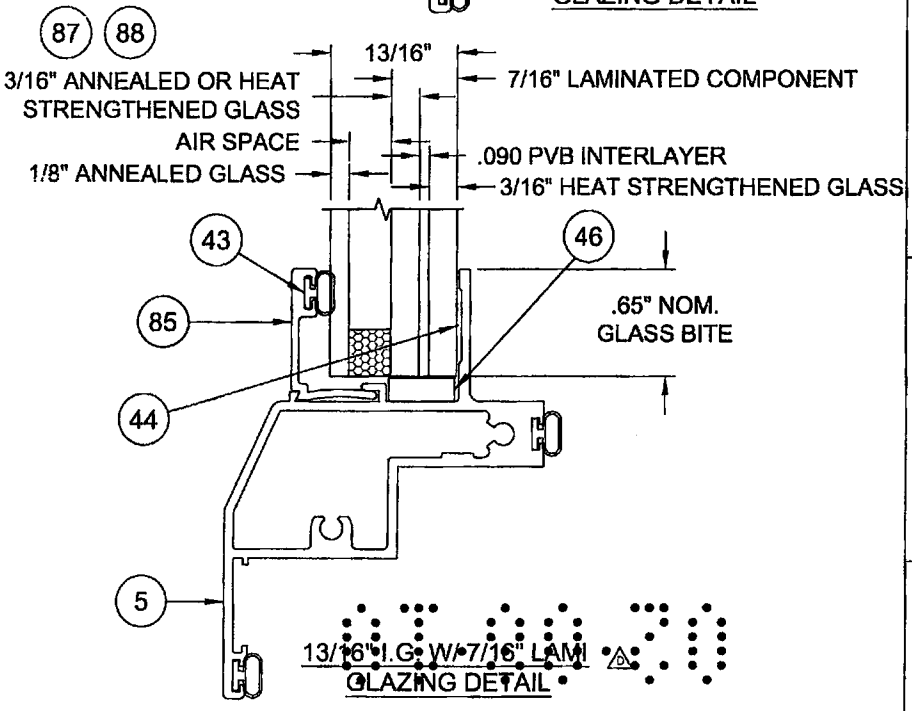
NOTE: PVB INTERLAYER IS BY SOLUTIA OR DUPONT



13/16" I.G. W/ 5/16" LAMI GLAZING DETAIL



7/16" LAMINATED GLAZING DETAIL



13/16" I.G. W/ 7/16" LAMI GLAZING DETAIL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date 05.22.08
By
Miami-Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22,2013
By Manuel Perez
Miami-Dade Product Control Division

2 of 2
11/2/05

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	REDRAW GLAZING DETAILS & ADD 13/16" I.G.
F.K.	7/10/03	C	NO CHANGE THIS SHEET
F.K.	6/23/05	D	ADD 13/16" LAMI I.G. W/ 7/16"LAMI & CORRECT 5/16" LAMI DETAIL
Drawn By: F.K.	Date: 03/25/03	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

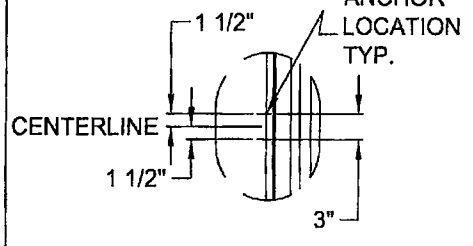
PGT Visibly Better

Description: GLAZING DETAILS

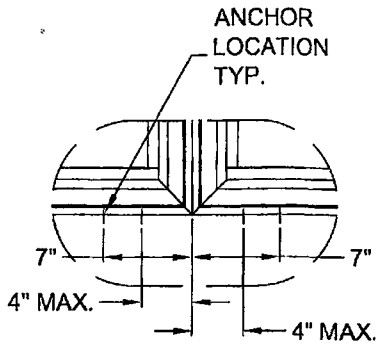
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model	Scale	Sheet	Drawing No.	Rev
CA-745	NTS	2 of 13	7045-8	D

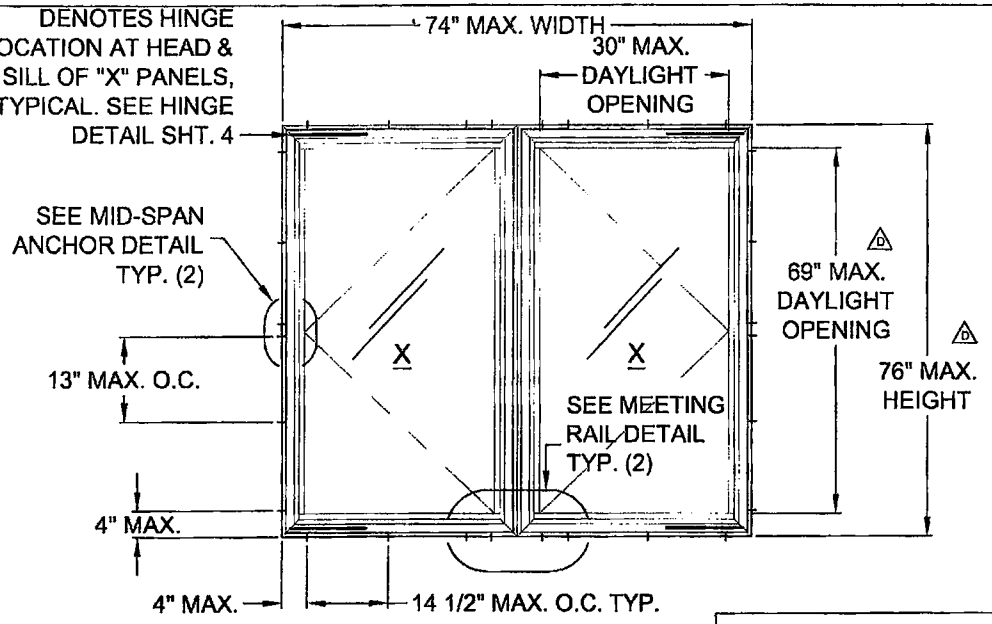
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PE #58201
Mechanical



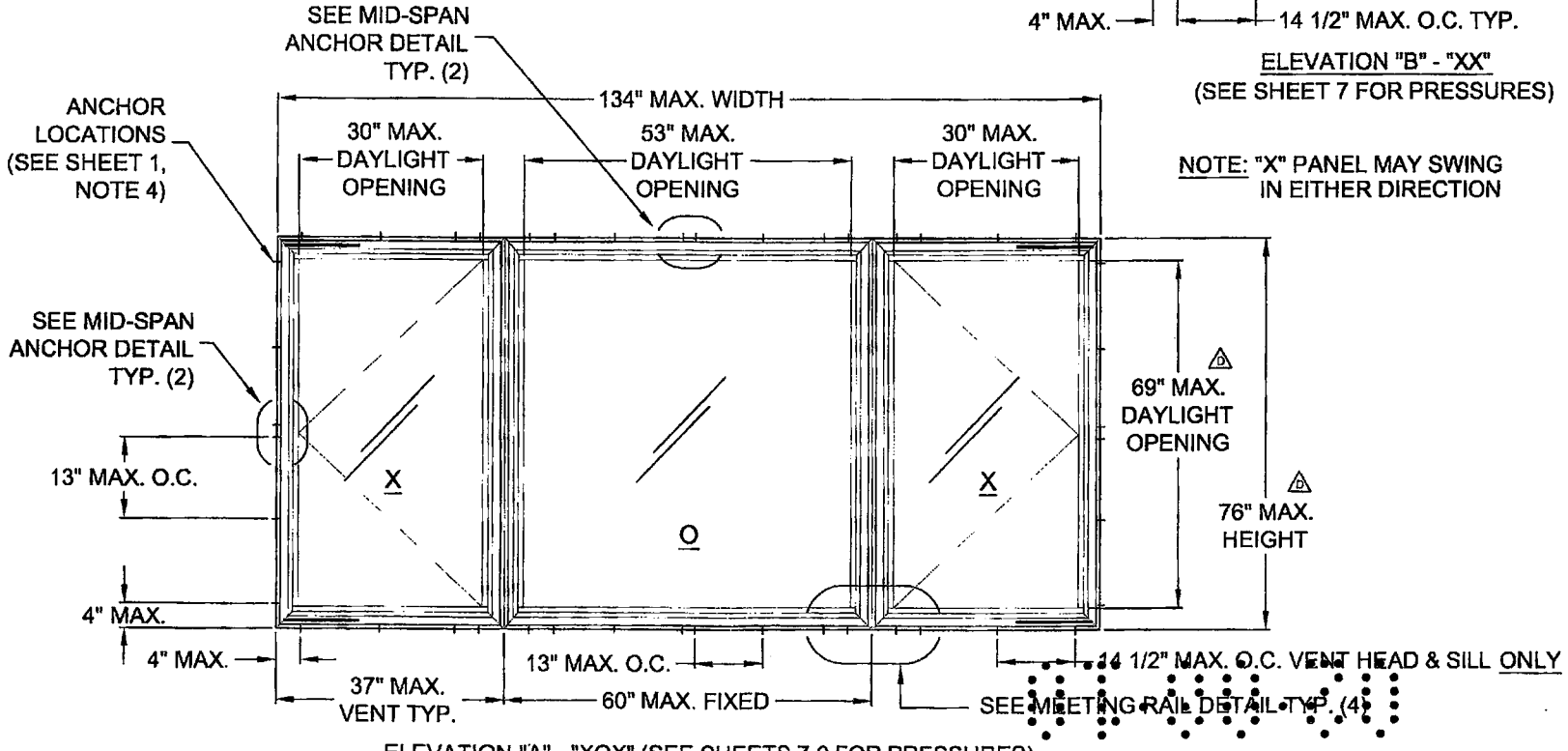
MID-SPAN ANCHOR DETAIL
(SEE SHT. 1 NOTE 4)



MEETING RAIL DETAIL
(SEE SHT. 1 NOTE 4)



ELEVATION "B" - "XX"
(SEE SHEET 7 FOR PRESSURES)



NOTE: "X" PANEL MAY SWING IN EITHER DIRECTION

ELEVATION "A" - "XOX" (SEE SHEETS 7-9 FOR PRESSURES)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.01
Expiration Date: 05.22.08
By: [signature]
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date: MAY 22, 2013
By: [signature]
Miami-Dade Product Control Division

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	CHANGE SHEET NO. REFERENCES
F.K.	7/10/03	C	ADD HINGE LOCATION DETAILS
F.K.	6/23/05	D	CHANGE MAX. HT. TO 76" AND MAX. DLO TO 69"
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

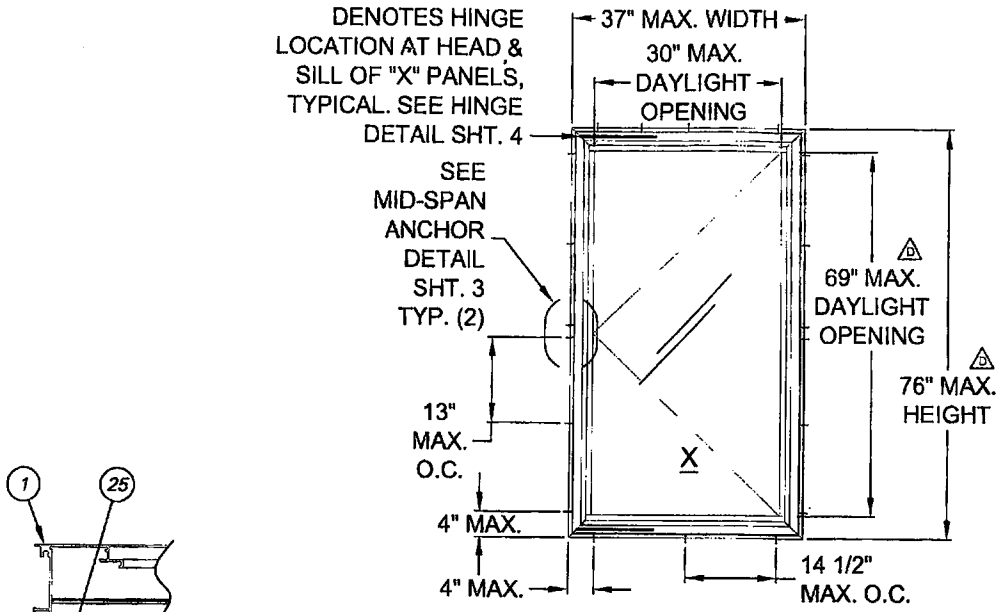
PGT
VistaGrande Better

Description: "XX" & "XOX" ELEVATIONS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

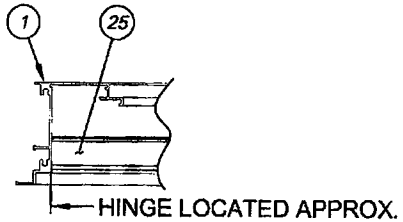
Series/Model:	Scale:	Sheet:	Drawing No:	Rev:
CA-740	NTS	3 of 13	7045-8	D

Z A Z
11/21/05

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PE #58201
Mechanical

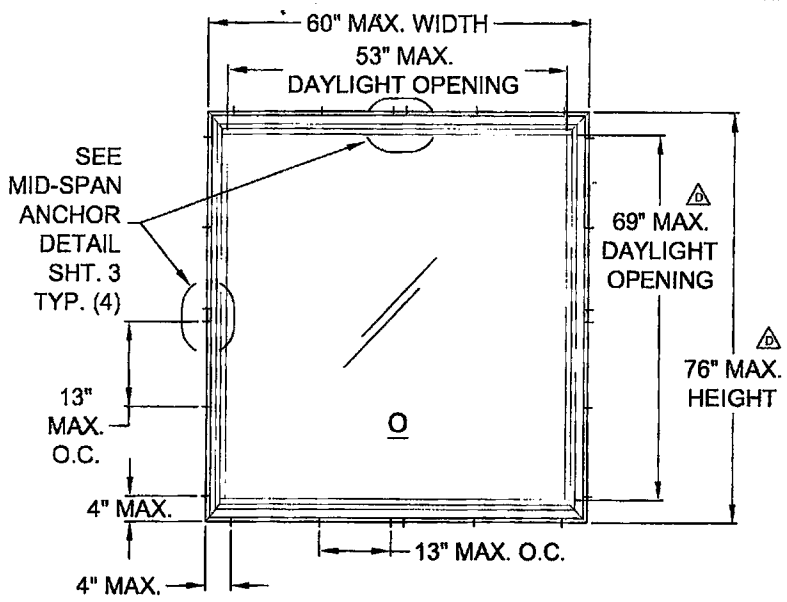


ELEVATION "D" - "X"
(SEE SHEET 5 FOR PRESSURES)

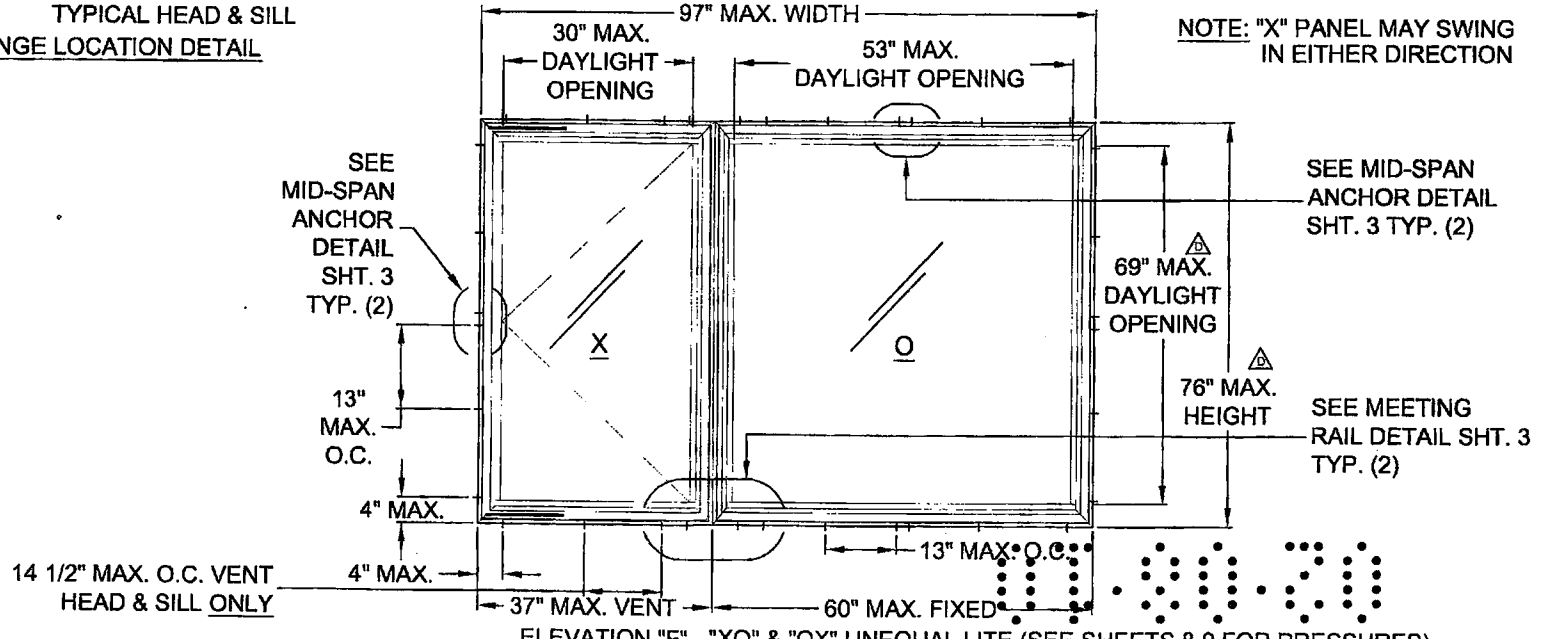


HINGE LOCATED APPROX. FLUSH AGAINST JAM, TYPICAL HEAD & SILL

HINGE LOCATION DETAIL



ELEVATION "E" - "O"
(SEE SHEET 7 FOR PRESSURES)



NOTE: "X" PANEL MAY SWING IN EITHER DIRECTION

ELEVATION "F" - "XO" & "OX" UNEQUAL LITE (SEE SHEETS 8-9 FOR PRESSURES)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date: 05.22.08
By: [signature]
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date: MAY 22, 2013
By: [signature]
Miami-Dade Product Control Division

L A T
11/21/05

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	CHANGE SHEET NO. REFERENCES
Revsd By: F.K.	Date: 6/23/05	Revisions: C	ADD HINGE DETAIL & HINGE LOCATION NOTES
Revsd By: F.K.	Date: 7/10/03	Revisions: D	CHANGE MAX. HT. TO 76" AND MAX. DLO TO 69"
Drawn By: F.K.	Date: 12/17/02	Checked By: F.K.	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: "X", "O", "XO" & "OX" ELEVATIONS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model	Scale:	Sheet:	Drawing No.	Rev
CA-740	NTS	4 of 13	7045-8	D

Lucas A. Turner, P.E.
PE #58201
Mechanical

COMPARATIVE ANALYSIS TABLE 1. "X" WINDOWS · TEST REPORTS: FTL-3582, FTL-3587, FTL-3729

GLAZING OPTIONS: A. 5/16" LAMI (1/8"A,.090,1/8"HS) B. 5/16" LAMI (1/8"HS,.090,1/8"HS) E. 13/16" LAMI (1/8"HS,3/8" SPACE,5/16" LAMI-W/ 1/8"HS,.090,1/8"HS)

"X" WIDTH		HEIGHT																									
		26		31		36		38 3/8		43		48		50 5/8		54		57		60		63		66		69		72	
		NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS
19 1/8	A	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0
	B,E	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0
24	A	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-89.6	70.0	-86.3	70.0	-84.2	70.0	-83.2	70.0	-81.7	70.0
	B,E	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0
26 1/2	A	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-83.6	70.0	-79.9	70.0	-75.4	70.0	-72.4	70.0	-69.9	69.9	-67.8	67.8	-66.2	66.2	-65.0	65.0	-63.7	63.7
	B,E	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0
30	A	-90.0	70.0	-90.0	70.0	-90.0	70.0	-87.4	70.0	-77.6	70.0	-68.4	68.4	-63.9	63.9	-60.0	60.0	-58.5	58.5	-56.2	56.2	-53.4	53.4	-51.3	51.3	-49.8	49.8	-48.3	48.3
	B,E	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0
32	A	-90.0	70.0	-90.0	70.0	-86.3	70.0	-81.0	70.0	-71.1	70.0	-61.8	61.8	-58.9	58.9	-56.1	56.1	-53.8	53.8	-50.4	50.4	-47.7	47.7	-45.6	45.6	-43.9	43.9	-42.2	42.2
	B,E	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-87.8	70.0	-84.4	70.0
34	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-65.5	65.5	-57.5	57.5	-54.9	54.9	-51.8	51.8	-48.6	48.6	-45.2	45.2	-42.4	42.4						
	B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
36	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.4	70.0	-60.4	60.4	-54.3	54.3	-51.1	51.1	-47.9	47.9	-44.8	44.8	-42.2	42.2	-39.7	39.7						
	B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
37	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6						
	B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						

TABLE 2.	"X" WINDOWS	TEST REPORTS: FTL-3580, FTL-3587		
GLAZING OPTION: C. 7/16" LAMI (3/16"A,.090,3/16"HS)				
ALL "X" SIZES UP TO 37" WIDE x 63" HIGH AND ALL "X" SIZES UP TO 32" WIDE x 72" HIGH			-90.0	70.0

TABLE 2A.	"X" WINDOWS	TEST REPORTS: FTL-4607, FTL-4608		
GLAZING OPTIONS: C. 7/16" LAMI (3/16"A,.090,3/16"HS) F.13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"A,.090,3/16"HS)				
ALL "X" SIZES UP TO 37" WIDE x 76" HIGH			-55.0	55.0

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 08-1129.11
Expiration Date 08.12.08
By
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 27, 2013
By
Miami-Dade Product Control Division

X

NOTES: ⚠
1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

07-30-21

11/21/05

Lucas A. Turner, P.E.
PE #58201
Mechanical

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD GLASS TYPE E TO TABLES 1 & 4
Revsd By: F.K.	Date: 7/10/03	Revisions: C	NO CHANGE THIS SHEET
Revsd By: F.K.	Date: 6/23/05	Revisions: D	REVISE ANCHORS & ADD 76" HEIGHT OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: PRESSURES- X CONFIG. WINDOWS
Title: ALUMINUM CASEMENT WINDOW, IMPACT
Series/Model: CA-740 | Scale: NTS | Sheet: 5 of 13 | Drawing No: 7045-8 | Rev: D

COMPARATIVE ANALYSIS TABLE 3.																							
												"XX" WINDOWS										TEST REPORTS: FTL-3582	
		GLAZING OPTION: A. 5/16" LAMI (1/8"A,.090,1/8"HS)																					
"XX" WIDTH		HEIGHT																					
		26		31		36		38 3/8		43		48		50 5/8		54		57		60		63	
		NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS
37	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0
43	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0
48	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0
53 1/8	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.1	70.0	-69.5	69.5	-67.5	67.5
57	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.4	70.0	-69.6	69.6	-65.2	65.2	-63.0	63.0	-60.8	60.8	-58.0	58.0
60	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-68.4	68.4	-63.9	63.9	-60.0	60.0	-58.5	58.5	-56.2	56.2	-53.4	53.4
64	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.1	70.0	-61.8	61.8	-58.9	58.9	-56.1	56.1	-53.8	53.8	-50.4	50.4	-47.7	47.7
68	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-65.5	65.5	-57.5	57.5	-54.9	54.9	-51.8	51.8	-48.6	48.6	-45.2	45.2	-42.4	42.4
72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.4	70.0	-60.4	60.4	-54.3	54.3	-51.1	51.1	-47.9	47.9	-44.8	44.8	-42.2	42.2	-39.7	39.7
74	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6

TABLE 4.	"XX" WINDOWS	TEST REPORTS: FTL-3582, FTL-3729		
GLAZING OPTIONS: B. 5/16" LAMI (1/8"HS,.090,1/8"HS) E. 13/16" LAMI (1/8"HS,3/8" SPACE,5/16" LAMI-W/ 1/8"HS,.090,1/8"HS)				
	ALL "XX" SIZES UP TO 74" WIDE x 63" HIGH	-75.0	70.0

TABLE 5.	"XX" WINDOWS	TEST REPORT: FTL-3580	
GLAZING OPTION: C. 7/16" LAMI (3/16"A,.090,3/16"HS)			
	ALL "XX" SIZES UP TO 74" WIDE x 63" HIGH	-90.0	70.0

TABLE 5A.	"XX" WINDOWS	TEST REPORTS: FTL-3580, FTL-4607, FTL-4608	
GLAZING OPTIONS: C. 7/16" LAMI (3/16"A,.090,3/16"HS) F.13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"A,.090,3/16"HS)			
	ALL "XX" SIZES UP TO 74" WIDE x 76" HIGH	-55.0	55.0

△D

NOTES: △D

1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

X	X

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date 05/22/08
By M. Hash
Miami Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22, 2013
By Manuel Perez
Miami Dade Product Control Division

11/21/05

Lucas A. Turner, P.E.
PE #58201
Mechanical

Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Revsd By: F.K.	Date: 6/23/05	Revisions: D	REVISE ANCHORS & ADD TABLES 76" HEIGHT OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: PRESSURES- XX CONFIG. WINDOWS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model	Scale	Sheet	Drawing No.	Rev.
CA-740	NTS	6 of 13	7045-8	D

COMPARATIVE ANALYSIS TABLE 6. "O" & "1/4-1/2-1/4 XOX" WINDOWS TEST REPORTS: FTL-3582, FTL-3729, FTL-4607, FTL-4608

GLAZING OPTIONS: A. 5/16" LAMI (1/8"A,.090,1/8"HS) B. 5/16" LAMI (1/8"HS,.090,1/8"HS) C. 7/16" LAMI (3/16"A,.090,3/16"HS)
E. 13/16" LAMI (1/8"HS,3/8" SPACE,5/16" LAMI-W/ 1/8"HS,.090,1/8"HS) F.13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"A,.090,3/16"HS)

WIDTHS			HEIGHT																									
			26		31		36		38 3/8		43		48		50 5/8		54		57		60		63		67		72		76	
"O"	"XOX"		NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS
36	72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.4	70.0	-60.4	60.4	-54.3	54.3	-51.1	51.1	-47.9	47.9	-44.8	44.8	-42.2	42.2	-39.7	39.7						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
37	74	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
39 1/2	79	A	-75.0	70.0	-75.0	70.0	-67.8	67.8	-62.1	62.1	-55.7	55.7	-49.8	49.8	-46.9	46.9	-43.6	43.6	-41.1	41.1	-38.6	38.6	-36.5	36.5						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-87.4	70.0	-83.2	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
42	84	A	-75.0	70.0	-75.0	70.0	-62.4	62.4	-58.4	58.4	-63.3	63.3	-56.4	56.4	-53.4	53.4	-50.0	50.0	-46.9	46.9	-44.3	44.3	-41.9	41.9						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-84.5	70.0	-79.7	70.0	-75.6	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
45	90	A	-75.0	70.0	-70.3	70.0	-58.0	58.0	-54.6	54.6	-59.3	59.3	-53.6	53.6	-50.9	50.9	-47.5	47.5	-44.7	44.7	-42.1	42.1	-39.7	39.7						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-88.2	70.0	-81.8	70.0	-76.9	70.0	-72.4	70.0	-69.2	69.2	-55.0	55.0	-55.0	55.0	-55.0	55.0
48	96	A	-75.0	70.0	-65.0	65.0	-54.3	54.3	-51.1	51.1	-55.1	55.1	-51.4	51.4	-48.6	48.6	-45.3	45.3	-42.5	42.5	-40.4	40.4	-38.4	38.4						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-86.0	70.0	-80.9	70.0	-75.0	70.0	-70.7	70.0	-67.3	67.3	-64.1	64.1	-55.0	55.0	-55.0	55.0	-53.2	53.2
50 1/2	101	A	-75.0	70.0	-60.8	60.8	-51.3	51.3	-48.3	48.3	-52.7	52.7	-48.7	48.7	-46.9	46.9	-43.5	43.5	-41.3	41.3	-39.2	39.2	-37.1	37.1						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.3	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-81.2	70.0	-75.7	70.0	-70.3	70.0	-66.8	66.8	-63.5	63.5	-60.5	60.5	-55.0	55.0	-52.6	52.6	-49.6	49.6
53 1/8	106 3/8	A	-75.0	70.0	-58.7	58.7	-48.7	48.7	-45.4	45.4	-50.0	50.0	-46.1	46.1	-44.2	44.2	-42.2	42.2	-40.1	40.1	-38.0	38.0	-36.2	36.2						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.4	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-88.6	70.0	-76.4	70.0	-71.1	70.0	-66.5	66.5	-63.0	63.0	-60.0	60.0	-57.3	57.3	-53.8	53.8	-49.4	49.4	-46.2	46.2
54	108	A	-75.0	70.0	-58.2	58.2	-47.9	47.9	-44.5	44.5	-49.1	49.1	-45.3	45.3	-43.4	43.4	-41.9	41.9	-39.8	39.8	-37.6	37.6	-35.9	35.9						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-86.9	70.0	-75.0	70.0	-70.1	70.0	-65.4	65.4	-61.8	61.8	-59.1	59.1	-56.4	56.4	-52.8	52.8	-48.4	48.4	-45.2	45.2
55 1/2	111	A	-75.0	70.0	-57.1	57.1	-46.4	46.4	-43.3	43.3	-47.5	47.5	-43.9	43.9	-42.2	42.2	-40.8	40.8	-39.1	39.1	-37.2	37.2	-35.4	35.4						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.3	70.0	-70.8	70.0						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-84.3	70.0	-72.5	70.0	-68.4	68.4	-63.6	63.6	-60.1	60.1	-57.5	57.5	-54.8	54.8	-51.1	51.1	-46.8	46.8	-43.6	43.6
57	114	A	-75.0	70.0	-56.2	56.2	-44.8	44.8	-42.1	42.1	-46.2	46.2	-42.5	42.5	-41.2	41.2	-39.8	39.8	-38.5	38.5	-36.7	36.7	-34.8	34.8						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.3	70.0	-69.6	69.6						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-81.8	70.0	-70.7	70.0	-66.7	66.7	-61.8	61.8	-58.7	58.7	-55.9	55.9	-53.2	53.2	-49.4	49.4	-45.2	45.2	-42.6	42.6
58 1/2	117	A	-74.2	70.0	-55.0	55.0	-43.4	43.4	-40.9	40.9	-44.8	44.8	-41.3	41.3	-40.2	40.2	-38.7	38.7	-37.6	37.6	-36.1	36.1	-34.2	34.2						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.2	70.0	-68.4	68.4						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.4	70.0	-69.0	69.0	-64.9	64.9	-60.4	60.4	-57.3	57.3	-54.5	54.5	-51.6	51.6	-47.8	47.8	-43.6	43.6	-41.7	41.7
60	120	A	-72.9	70.0	-53.4	53.4	-42.2	42.2	-39.7	39.7	-43.5	43.5	-40.4	40.4	-39.2	39.2	-37.6	37.6	-36.7	36.7	-35.5	35.5	-33.7	33.7						
		B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.3	70.0	-71.0	70.0	-67.4	67.4						
		C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-77.1	70.0	-67.3	67.3	-63.3	63.3	-59.1	59.1	-55.9	55.9	-53.0	53.0	-50.0	50.0	-46.3	46.3	-42.8	42.8	-40.8	40.8

TABLE 7. "O" & "1/4-1/2-1/4 XOX" WINDOWS TEST REPORT: FTL-3580

GLAZING OPTION: D. 7/16" LAMI (3/16"HS,.090,3/16"HS)

ALL "O" SIZES UP TO 60" WIDE x 63" HIGH AND ALL "1/4-1/2-1/4 XOX" SIZES UP TO 120" WIDE x 63" HIGH	-90.0	70.0

TABLE 7A. "O" & "1/4-1/2-1/4 XOX" WINDOWS TEST REPORTS: FTL-4607, FTL-4608

GLAZING OPTIONS: D. 7/16" LAMI (3/16"HS,.090,3/16"HS) G. 13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"HS,.090,3/16"HS)

ALL "O" SIZES UP TO 60" WIDE x 76" HIGH AND ALL "1/4-1/2-1/4 XOX" SIZES UP TO 120" WIDE x 76" HIGH	-55.0	55.0

NOTES: 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR
A 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD GLASS TYPE E TO TABLE 6
Revsd By: F.K.	Date: 7/10/03	Revisions: C	NO CHANGE THIS SHEET
Revsd By: F.K.	Date: 6/23/05	Revisions: D	CHANGE ANCHORS AND ADD 76" HT. OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: PRESSURES O & 1/4-1/2-1/4 XOX CONFIG. WINDOWS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No:	Rev:
CA-740	NTS	7 of 13	7045-8	D

1/4	1/2	1/4
X	O	X

O

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date: 05.22.08
By: Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 05-0117.11
Expiration Date: MAY 22, 2013
By: Miami-Dade Product Control Division

11/21/05

Lucas A. Turner, P.E.
PE #58201
Mechanical

COMPARATIVE ANALYSIS TABLE 8.			"XO" OR "OX" & "1/3-1/3-1/3 XOX" WINDOWS																						TEST REPORT: FTL-3582
GLAZING OPTION: A. 5/16" LAMI (1/8"A,.090,1/8"HS)																									
			HEIGHT																						
"XO" WIDTH	"XOX" WIDTH		26		31		36		38 3/8		43		48		50 5/8		54		57		60		63		
			NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	
37	55 1/2	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
48	72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
49 1/3	74	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
53 1/8	79 2/3	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.1	70.0	-69.5	69.5	-67.5	67.5	
56	84	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.9	70.0	-67.7	67.7	-64.9	64.9	-62.7	62.7	-60.4	60.4	
60	90	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-68.4	68.4	-63.9	63.9	-60.0	60.0	-58.5	58.5	-56.2	56.2	-53.4	53.4	
64	96	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.1	70.0	-61.8	61.8	-58.9	58.9	-56.1	56.1	-53.8	53.8	-50.4	50.4	-47.7	47.7	
67.333	101	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-66.4	66.4	-58.2	58.2	-55.6	55.6	-52.6	52.6	-49.4	49.4	-45.9	45.9	-43.1	43.1	
70.917	106 3/8	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8	70.0	-61.8	61.8	-55.1	55.1	-51.9	51.9	-48.9	48.9	-45.8	45.8	-42.8	42.8	-40.3	40.3	
72	108	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.4	70.0	-60.4	60.4	-54.3	54.3	-51.1	51.1	-47.9	47.9	-44.8	44.8	-42.2	42.2	-39.7	39.7	
74	111	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6	

TABLE 9.	"XO" or "OX" & "1/3-1/3-1/3 XOX" WINDOWS	TEST REPORTS: FTL-3582, FTL-3729		
GLAZING OPTIONS: B. 5/16" LAMI (1/8"HS,.090,1/8"HS) E. 13/16" LAMI (1/8"HS,3/8" SPACE,5/16" LAMI-W/ 1/8"HS,.090,1/8"HS)				
ALL "XO" OR "OX" SIZES UP TO 74" WIDE x 63" HIGH AND ALL "1/3-1/3-1/3 XOX" SIZES UP TO 111" WIDE x 63" HIGH			-75.0	70.0

TABLE 10.	"XO" or "OX" & "1/3-1/3-1/3 XOX" WINDOWS	TEST REPORT: FTL-3580		
GLAZING OPTION: C. 7/16" LAMI (3/16"A,.090,3/16"HS)				
ALL "XO" OR "OX" SIZES UP TO 74" WIDE x 63" HIGH AND ALL "1/3-1/3-1/3 XOX" SIZES UP TO 111" WIDE x 63" HIGH			-90.0	70.0

TABLE 10A.	"XO" or "OX" & "1/3-1/3-1/3 XOX" WINDOWS	TEST REPORTS: FTL-3580, FTL-4607, FTL-4608		
GLAZING OPTIONS: C. 7/16" LAMI (3/16"A,.090,3/16"HS) F.13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"A,.090,3/16"HS)				
ALL "XO" OR "OX" SIZES UP TO 74" WIDE x 76" HIGH AND ALL "1/3-1/3-1/3 XOX" SIZES UP TO 111" WIDE x 76" HIGH			-55.0	55.0

△6

NOTES: △6
1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

1/3 X	1/3 O	1/3 X

X	O

O	X

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date: 05.22.08
By: Miami Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date: MAY 22, 2013
By: Miami Dade Product Control Division

07-90-20

11/21/05

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD GLASS TYPE E TO TABLE 9
F.K.	7/10/03	C	NO CHANGE THIS SHEET
F.K.	6/23/05	D	CHANGE ANCHORS AND ADD 76" HEIGHT OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: PRESSURES XO, OX, & 1/3-1/3-1/3 XOX WINDOWS
Title: ALUMINUM CASEMENT WINDOW, IMPACT
Series/Model: CA-740 | Scale: NTS | Sheet: 8 of 13 | Drawing No.: 7045-8 | Rev: D

Lucas A. Turner, P.E.
PE #58201
Mechanical

COMPARATIVE ANALYSIS TABLE 11. "XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS TEST REPORTS: FTL-3580, FTL-3582, FTL-3729, FTL-4607, FTL-4608

GLAZING OPTIONS: A. 5/16" LAMI (1/8"A,.090,1/8"HS) B. 5/16" LAMI (1/8"HS,.090,1/8"HS) C. 7/16" LAMI (3/16"A,.090,3/16"HS)
E. 13/16" LAMI (1/8"HS,3/8" SPACE,5/16" LAMI-W/ 1/8"HS,.090,1/8"HS) F. 13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"A,.090,3/16"HS)

WIDTHS				HEIGHT																							
				26		36		38 3/8		43		48		50 5/8		54		57		60		63		67		72		76	
"XOX"	VENT	FIXED		NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS
69.264	19.125	31.014	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.1	70.0	-64.9	64.9	-60.6	60.6	-58.1	58.1	-56.1	56.1	-53.3	53.3	-50.5	50.5						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
86.919	24	38.919	A	-75.0	70.0	-69.1	69.1	-63.4	63.4	-56.5	56.5	-50.4	50.4	-47.5	47.5	-44.1	44.1	-41.6	41.6	-39.2	39.2	-36.9	36.9						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.8	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-89.4	70.0	-85.2	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
95.973	27	42.973	A	-75.0	70.0	-60.5	60.5	-57.2	57.2	-62.1	62.1	-55.2	55.2	-52.6	52.6	-49.1	49.1	-46.2	46.2	-43.6	43.6	-41.1	41.1						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-87.0	70.0	-81.9	70.0	-77.2	70.0	-73.1	70.0	-55.0	55.0	-55.0	55.0	-55.0	55.0
108.649	30	48.649	A	-75.0	70.0	-53.5	53.5	-50.4	50.4	-54.5	54.5	-50.7	50.7	-48.2	48.2	-44.9	44.9	-42.0	42.0	-40.1	40.1	-38.0	38.0						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-84.7	70.0	-79.5	70.0	-73.6	70.0	-69.7	69.7	-66.3	66.3	-63.1	63.1	-55.0	55.0	-55.0	55.0	-52.2	52.2
115.892	32	51.892	A	-75.0	70.0	-49.9	49.9	-46.8	46.8	-51.3	51.3	-47.4	47.4	-45.5	45.5	-42.7	42.7	-40.7	40.7	-38.6	38.6	-36.6	36.6						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.2	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-78.6	70.0	-73.2	70.0	-68.3	68.3	-64.8	64.8	-61.4	61.4	-58.8	58.8	-55.0	55.0	-50.9	50.9	-47.7	47.7
122	33.687	54.627	A	-75.0	70.0	-47.3	47.3	-44.0	44.0	-48.4	48.4	-44.7	44.7	-42.8	42.8	-41.4	41.4	-39.5	39.5	-37.5	37.5	-35.7	35.7						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.9	70.0	-71.4	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.8	70.0	-74.0	70.0	-69.4	69.4	-64.7	64.7	-61.0	61.0	-58.4	58.4	-55.7	55.7	-52.1	52.1	-47.7	47.7	-44.6	44.6
123.135	34	55.135	A	-75.0	70.0	-46.8	46.8	-43.6	43.6	-47.9	47.9	-44.3	44.3	-42.4	42.4	-41.1	41.1	-39.3	39.3	-37.3	37.3	-35.5	35.5						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.6	70.0	-71.0	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.0	70.0	-73.1	70.0	-68.8	68.8	-64.1	64.1	-60.5	60.5	-57.9	57.9	-55.2	55.2	-51.5	51.5	-47.2	47.2	-44.0	44.0
126.000	34.791	56.418	A	-75.0	70.0	-45.5	45.5	-42.6	42.6	-46.7	46.7	-43.1	43.1	-41.6	41.6	-40.2	40.2	-38.7	38.7	-36.9	36.9	-35.0	35.0						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.7	70.0	-70.1	70.0						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-82.8	70.0	-71.3	70.0	-67.3	67.3	-62.5	62.5	-59.2	59.2	-56.5	56.5	-53.8	53.8	-50.1	50.1	-45.8	45.8	-43.0	43.0
130	35.896	58.209	A	-74.4	70.0	-43.6	43.6	-41.2	41.2	-45.1	45.1	-41.5	41.5	-40.4	40.4	-38.9	38.9	-37.7	37.7	-36.2	36.2	-34.3	34.3						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.4	70.0	-68.6	68.6						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.9	70.0	-69.3	69.3	-65.3	65.3	-60.6	60.6	-57.6	57.6	-54.7	54.7	-51.9	51.9	-48.1	48.1	-43.9	43.9	-41.9	41.9
130.378	36	58.378	A	-74.3	70.0	-43.5	43.5	-41.0	41.0	-45.0	45.0	-41.4	41.4	-40.3	40.3	-38.8	38.8	-37.6	37.6	-36.1	36.1	-34.3	34.3						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.3	70.0	-68.5	68.5						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.6	70.0	-69.1	69.1	-65.1	65.1	-60.5	60.5	-57.4	57.4	-54.6	54.6	-51.7	51.7	-48.0	48.0	-43.8	43.8	-41.8	41.8
134	37	60	A	-72.9	70.0	-42.2	42.2	-39.7	39.7	-43.5	43.5	-40.4	40.4	-39.2	39.2	-37.7	37.7	-36.7	36.7	-35.5	35.5	-33.7	33.7						
			B,E	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.3	70.0	-71.0	70.0	-67.4	67.4						
			C,F	-90.0	70.0	-90.0	70.0	-90.0	70.0	-77.1	70.0	-67.3	67.3	-63.3	63.3	-59.1	59.1	-55.9	55.9	-53.0	53.0	-50.0	50.0	-46.3	46.3	-42.8	42.8	-40.8	40.8

"XO" & "OX" WINDOW WIDTHS EQUAL THE SUM OF THE VENT WIDTH AND THE FIXED WIDTH.

TABLE 12. "XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS TEST REPORT: FTL-3580		
GLAZING OPTION: D. 7/16" LAMI (3/16"HS,.090,3/16"HS)		
ALL "XOX" SIZES UP TO 134" WIDE x 63" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH AND ALL "XO" or "OX" SIZES UP TO 97" WIDE x 63" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH	-90.0	70.0

TABLE 12A. "XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS TEST REPORTS: FTL-3580, FTL-4607, FTL-4608 ⚠		
GLAZING OPTIONS: D. 7/16" LAMI (3/16"HS,.090,3/16"HS) G. 13/16" LAMI (1/8"A,AIR SPACE,7/16" LAMI-W/ 3/16"HS,.090,3/16"HS)		
ALL "XOX" SIZES UP TO 134" WIDE x 76" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH AND ALL "XO" or "OX" SIZES UP TO 97" WIDE x 76" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH	-55.0	55.0

NOTES: 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES USE ELCO 14" TAPCONS OR
⚠ 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD GLASS TYPE E TO TABLE 11
Revsd By: F.K.	Date: 7/10/03	Revisions: C	NO CHANGE THIS SHEET
Revsd By: F.K.	Date: 6/23/05	Revisions: D	CHANGE ANCHORS AND ADD 76" HEIGHT OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: PRESSURES- UNEQUAL CONFIG. XO, OX & XOX
Title: ALUMINUM CASEMENT WINDOW, IMPACT
Series/Model: CA-740 | Scale: NTS | Sheet: 9 of 13 | Drawing No.: 7045-8 | Rev: D

X O X
UNEQUAL LITES

X O
UNEQUAL LITES

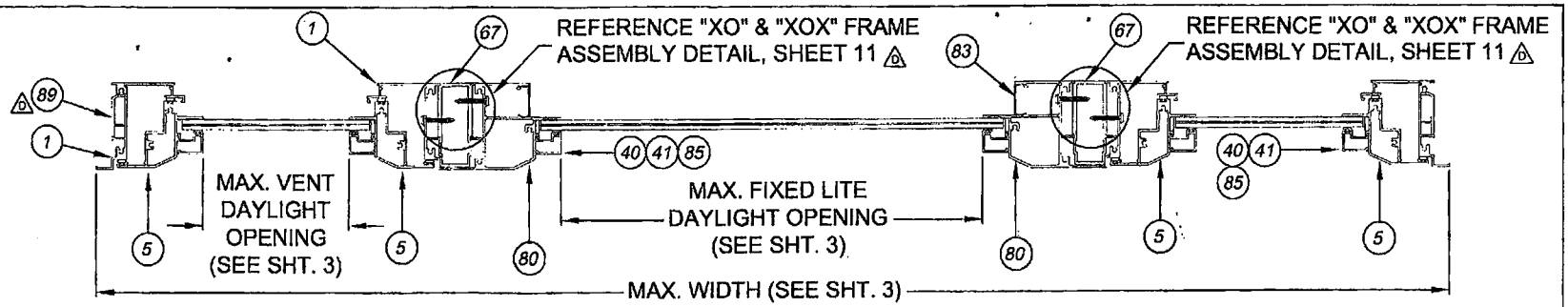
O X
UNEQUAL LITES

PRODUCT REVISED
in compliance with the Florida Building Code
Acceptance No: 05-1129.11
Expiration Date: 05-22-08
By: Miami-Dade Product Control Division

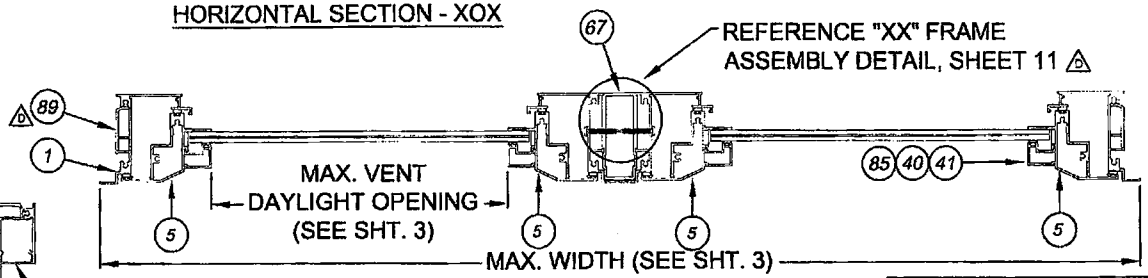
PRODUCT RENEWED
in compliance with the Florida Building Code
Acceptance No: 08-0117.11
Expiration Date: MAY 22, 2013
By: Miami-Dade Product Control Division

Z & Z
11/2/05

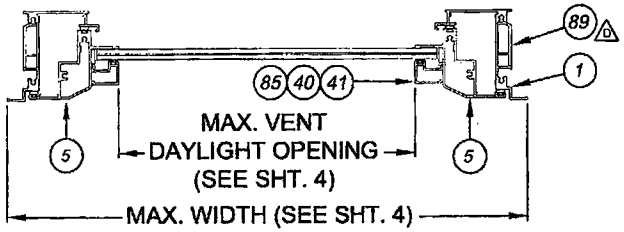
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Mechanical



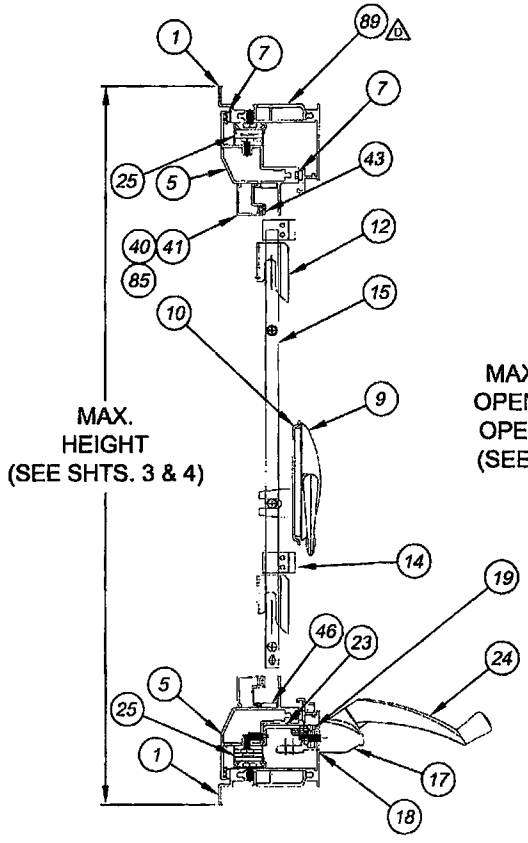
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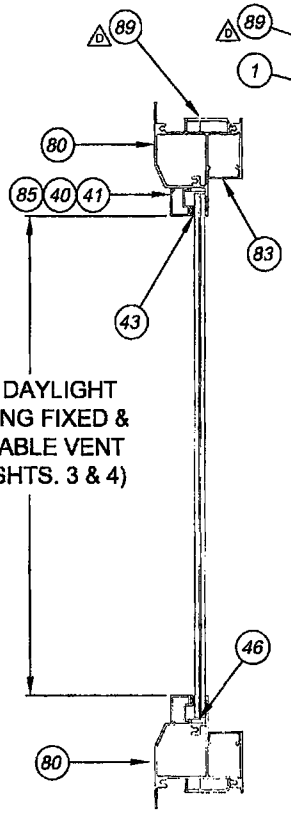
HORIZONTAL SECTION - XX



HORIZONTAL SECTION - X



VERTICAL SECTION OPERABLE UNIT



VERTICAL SECTION FIXED UNIT

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date 05/22/08
By
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22, 2013
By
Miami-Dade Product Control Division

01-90-21

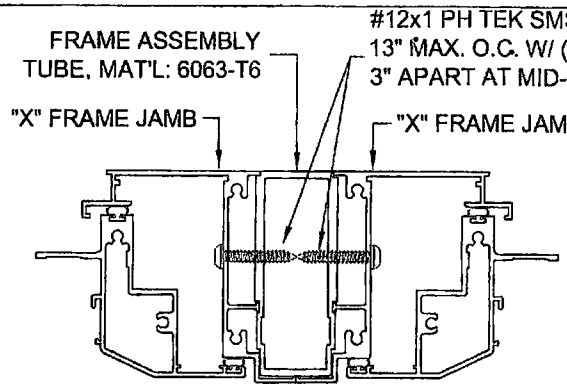
Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD 13/16" I.G. GLAZING BEAD ITEM
F.K.	7/10/03	C	SHOW TOP HINGE
F.K.	6/23/05	D	CHG SHT. NO. REF. AND ADD ITEM 89
Drawn By: F.K.	Date: 12/17/02	Checked By	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

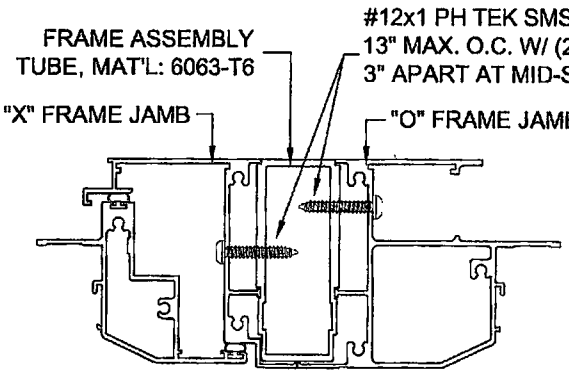
PGT Visibly Better

Description: SECTIONS
Title: ALUMINUM CASEMENT WINDOW, IMPACT
Series/Model: CA-740
Scale: NTS
Sheet: 10 of 13
Drawing No: 7045-8
Rev: D

Lucas A. Turner, P.E.
PE #58201
Mechanical

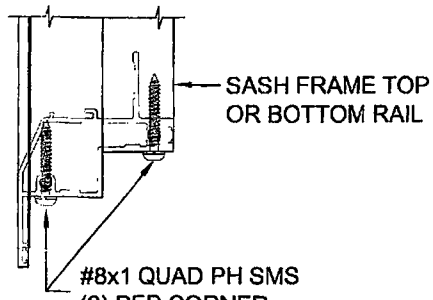


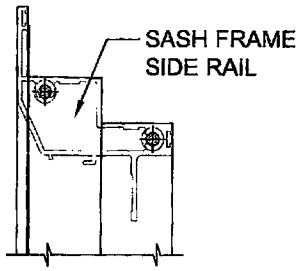
"XX" FRAME ASSEMBLY DETAIL



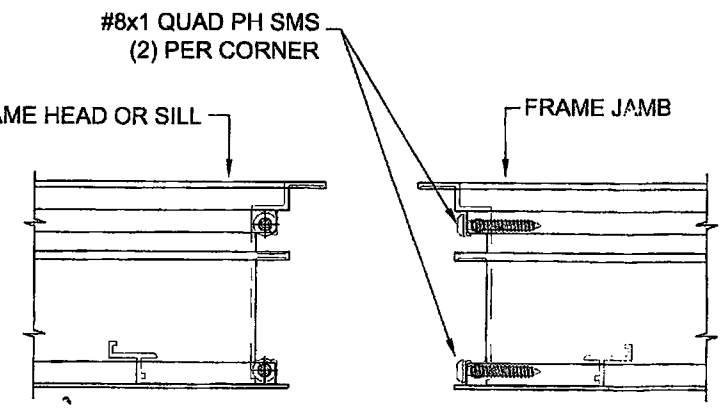
"XO" & "XOX" FRAME ASSEMBLY DETAIL

NOTE: ALL ALUMINUM SHALL BE OF 6063-T6

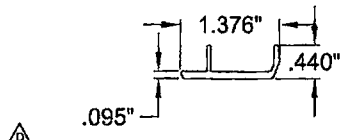




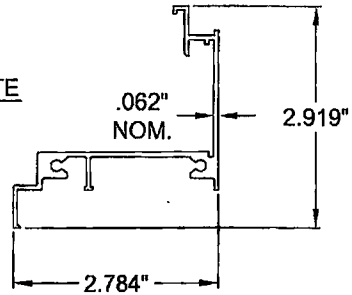
SASH FRAME ASSEMBLY DETAIL



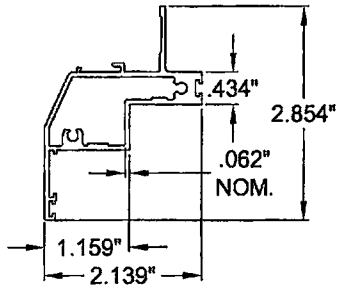
MAIN FRAME ASSEMBLY DETAIL



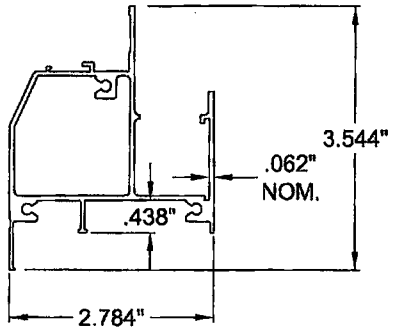
89 CASEMENT BACKING PLATE
MAT'L: 6063-T6
DWG# 7071



1 FRAME HEAD, SILL, JAMB
MAT'L: 6063-T6
DWG# 7002A



5 SASH FRAME HEAD, SILL, JAMB
MAT'L: 6063-T6
DWG# 7003A



80 FIXED FRAME HEAD, SILL, JAMB
MAT'L: 6063-T6
DWG# 7005A

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22, 2013
By Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22, 2013
By Miami-Dade Product Control Division

L of L
11/21/05

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
F.K.	7/10/03	C	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
F.K.	6/23/05	D	ADD ITEM 89
Drawn By:	Date:	Checked By:	Date:
F.K.	12/17/02		

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

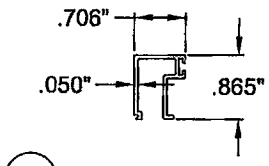
Description: EXTRUSIONS & ASSEMBLY DETAILS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Sunrise Series	Scale	Sheet	Drawing No.	Rev:
CA-740	NTS	11 of 13	7045-8	D

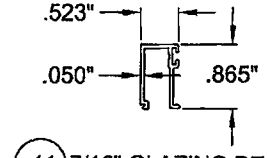
Lucas A. Turner, P.E.
PE #58201
Mechanical

PARTS LIST			
ITEM	DWG #	PGT. #	DESCRIPTION
1	7002A		MAIN FRAME - HEAD, SILL & JAMBS
2	1155	781PQA	#8 X 1 QUAD PH SMS
3	7008		FRAME CORNER KEY
4			1/2"X1/2"X1/8" CLOSED-CELL FOAM TAPE
5	7003A		SASH - TOP, BOTTOM & SIDE RAILS
6	1155	781PQA	#8 X 1 QUAD PH SMS
7	7017	67017K	BULB WEATHERSTRIP .187X.240
8	7009		SASH CORNER KEY
9	7024		MAXIM MULTI-POINT LOCK
10	7026		LOCK SUPPORT PLATE
11			#10-24 X .562 PH. PN. TYPE F
12	7014		MULTI-LOCK KEEPER (R.H. & L.H.)
13	1157	78X78PPSMS	#8 X .875 PH. PN. SMS
14	7013		TIE BAR GUIDE
15	7015		TIE BAR ASSEMBLY
16	7028		MAXIM DYAD OPERATOR
17	7027		MAXIM DUAL ARM OPERATOR
18	7030		OPERATOR GASKET
19	7031		BACKING PLATE
20			#8-32 X .375 PH. PN. TYPE B
21	7032		STUD BRACKET (L.H. & R.H.)
22		7858ZA	#8 X 5/8" FLT. PHL SMS
23	7033		OPERATOR TRACK & SLIDER (DUAL ARM)
24	7022		SNAP-ON HANDLE
25	7023		12" HINGE (HEAVY DUTY)
26		710x12FP	#10 X .500 PH. PHL.
30			5/16" LAMINATED (1/8A & 1/8HS GLASS) .090 INTERLAYER - SOLUTIA OR DUPONT PVB
31			5/16" LAMINATED (1/8HS & 1/8HS GLASS) .090 INTERLAYER - SOLUTIA OR DUPONT PVB
32			7/16" LAMINATED (3/16A & 3/16HS GLASS) .090 INTERLAYER - SOLUTIA OR DUPONT PVB
33			7/16" LAMINATED (3/16HS & 3/16HS GLASS) .090 INTERLAYER - SOLUTIA OR DUPONT PVB
40	7036		GLAZING BEAD (5/16")
41	7042		GLAZING BEAD (7/16")
43	1224	6TP247	VINYL BULB WSTP (THICK)
44			SILICONE - DOW CORNING 899, 995 OR EQUIV.
45			PARABOND
46	1634	6163K	SETTING BLOCK
50	7006		SCREEN FRAME
51	7040		SCREEN CORNER KEY
52			SCREEN CLOTH
53	1635	61635K	SCREEN SPLINE - SERRATED
54	331	60976	CASEMENT SCREEN CLIP
55		78x12PSTW/B	#8 X .500 SQ. PN. TEK SMS
67	7004A	67004	CASEMENT FRAME ASS'Y. TUBE
68		712X1PPT	#12 X 1" PH. PHIL. TEK.
69	7011		LOCK SUPPORT PLATE
70	7012		LOCK SPACER
71	7019	711573	SNAP-ON T-HANDLE KNOB
72	7018	7FLDHD	FOLDING HANDLE

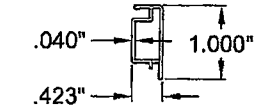
PARTS LIST CONT.			
ITEM	DWG #	PGT. #	DESCRIPTION
73	7025		MAXIM SINGLE LOCK
74	7016		SINGLE LOCK KEEPER
75		70834A	#8 X .750 QUAD PN SMS
80	7005A		FIXED WINDOW FRAME - HEAD, SILL & JAMBS
81	1155	781PQA	#8 X 1 QUAD PN SMS
82	7010		FIXED FRAME CORNER KEY
83	7007		INSTALLATION HOLE COVER
85	7047	67407	GLAZING BEAD (13/16" LG.)
86		13/16"	LG. GLASS (1/8"HS, AIR SPACE, 5/16"LAMI) 5/16" LAMI = (2) LITES OF 1/8"HS GLASS WITH AN.090 INTERLAYER - SOLUTIA OR DUPONT PVB
87		13/16"	LG. GLASS (1/8"HS, AIR SPACE, 7/16"LAMI) 7/16" LAMI = 3/16A & 3/16HS GLASS WITH AN.090 INTERLAYER - SOLUTIA OR DUPONT PVB
88		13/16"	LG. GLASS (1/8"HS, AIR SPACE, 7/16"LAMI) 7/16" LAMI = 3/16HS & 3/16HS GLASS WITH AN.090 INTERLAYER - SOLUTIA OR DUPONT PVB
89	7071	67071	CASEMENT BACKING PLATE (SEE NOTE 4, SHEET 13)



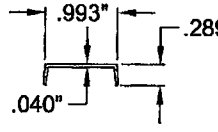
40 5/16" GLAZING BEAD
MAT'L: 6063-T6
DWG# 7036



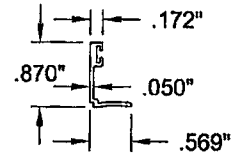
41 7/16" GLAZING BEAD
MAT'L: 6063-T6
DWG# 7042



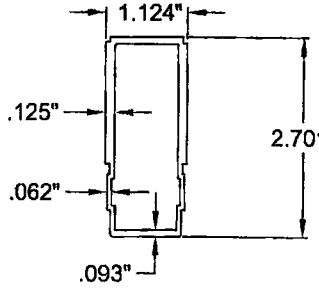
50 CASEMENT SCREEN FRAME
MAT'L: 6063-T6
DWG# 7006



83 INSTALLATION HOLE COVER
MAT'L: 6063-T6
DWG# 7007



85 13/16" GLAZING BEAD
MAT'L: 6063-T6
DWG# 7047



67 CASEMENT FRAME ASSEMBLY TUBE
MAT'L: 6063-T6
DWG# 7004A

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 05-1129.11
Expiration Date: 05.22.08
By
Miami-Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0117.11
Expiration Date: MAY 22, 2013
By
Miami-Dade Product Control Division

11/21/05

Lucas A. Turner, P.E.
PE #58201
Mechanical

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	ADD 13/16" I.G. GLASS & GLAZING BEAD
F.K.	7/10/03	C	NO CHANGE THIS SHEET
F.K.	6/23/05	D	ADD EQUIV. TO ITEM 44, SILICONE AND ADD ITEMS 87, 88 AND 89
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

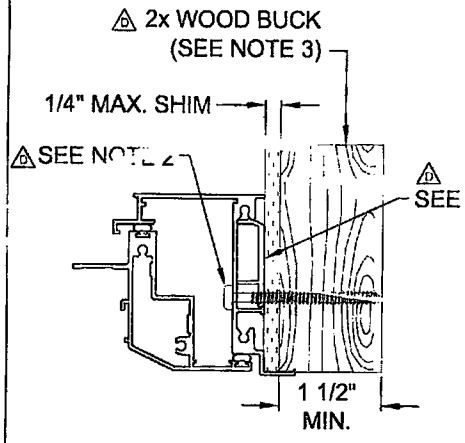
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

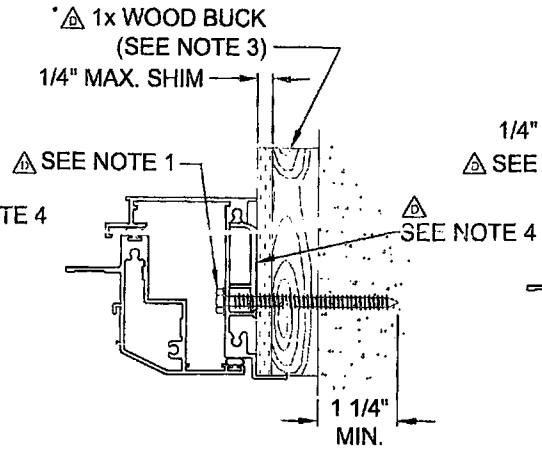
Description: PARTS LIST & EXTRUSIONS

Title: ALUMINUM CASEMENT WINDOW, IMPACT

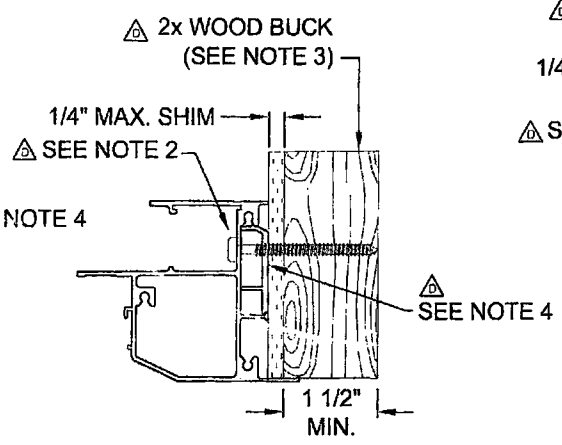
Series/Model	Scale	Sheet	Drawing No.	Rev.
CA-740	NTS	12 of 13	7045-8	D



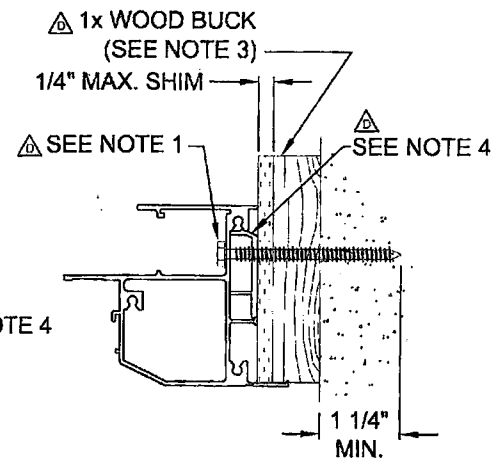
OPERABLE UNIT FRAME
TO WOOD BUCK
1 1/2" OR MORE THICK



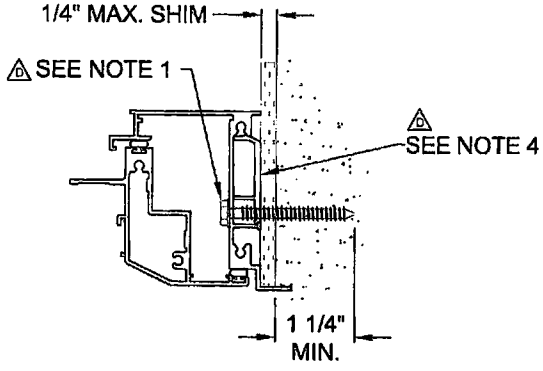
OPERABLE UNIT FRAME
TO CONCRETE W/ WOOD BUCK
LESS THAN 1 1/2" THICK



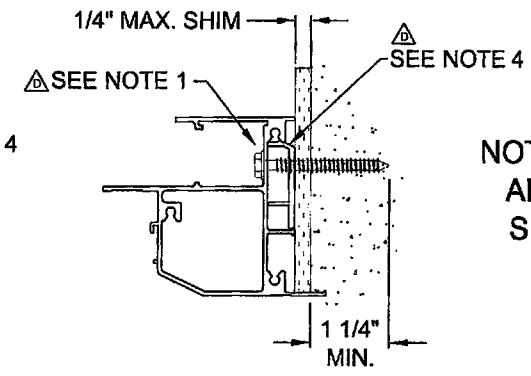
FIXED UNIT FRAME
TO WOOD BUCK
1 1/2" OR MORE THICK



FIXED UNIT FRAME TO CONCRETE W/
WOOD BUCK LESS THAN 1 1/2" THICK



OPERABLE UNIT FRAME
TO CONCRETE



FIXED UNIT FRAME
TO CONCRETE

NOTE: ALL DETAILS
APPLY TO HEAD,
SILL, AND JAMB.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 05-1129.11
Expiration Date 05/22/08
By
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0117.11
Expiration Date MAY 22, 2013
By
Miami Dade Product Control
Division

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX CONCRETE ANCHORS. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 2 1/2". SEE SHEET 1 FOR SPACING.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 SCREWS, 1/4" ELCO TAPCONS OR 1/4" ELCO SS4 CRETE-FLEX. SEE SHEET 1 FOR SPACING.
3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
4. ITEM 89, BACKING PLATE, NOT REQUIRED FOR INSTALLATIONS OUTSIDE OF MIAMI-DADE COUNTY.

Revsd By:	Date:	Revisions:	
F.K.	3/25/03	B	NO CHANGE THIS SHEET
F.K.	7/10/03	C	NO CHANGE THIS SHEET
F.K.	6/23/05	D	REVISE NOTES AND REMOVE 3/16" TAPCONS & #14 SCREWS
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: ANCHORAGE DETAILS
Title: ALUMINUM CASEMENT WINDOW, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev.
CA-740	NTS	13 of 13	7045-8	D

Lucas A. Turner, P.E.
PE #58201
Mechanical

1/21/05

MIAMI-DADE COUNTY

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

B/05/1007

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series FD-750 Outswing Aluminum French Door w/Sidelites – L.M.I.

APPROVAL DOCUMENT: Drawing No. **8000-11**, titled "Alum. French Door & Side Lites, Impact", sheets 1 through 11 of 11, prepared by the manufacturer, dated 12/23/04 with revision B dated 10/12/06, signed and sealed by Lucas A. Turner, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 05-0419.03** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

PRODUCT CONTROL ACCEPTED

NOA No. 07-0103.02
Expiration Date: February 24, 2010
Approval Date: March 15, 2007

NOTES: OUTSWING IMPACT FRENCH DOOR(S) AND SIDE LITE(S)

1. GLAZING OPTIONS:
   A. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.

   B. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.

   C. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.

   D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.

   E. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A,.090 PVB, 3/16" HS).

   F. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.090 PVB, 3/16" HS).

   G. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A,.075 VANCEVA, 3/16" HS).

   H. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.075 VANCEVA, 3/16" HS).

2. DESIGN PRESSURES: TABLE 1, SHEET 3.
   A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300-02.

△B B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300-02.

3. CONFIGURATIONS: X, O, XX, XO, OX, XXX, XXO, OXX, OXO, XXXX, XXXO, OXXX, OR OXXO WHERE O REPRESENTS EITHER THE NARROW JAMB OR FULL JAMB SIDE LITE. ANY TWO ADJACENT X UNITS CAN BE EITHER TWO SINGLE, X DOORS OR A DOUBLE, XX DOOR. THE FRENCH DOOR ASSEMBLY BEAM IS USED TO ASSEMBLE X, XX, AND O UNITS TO MAKE THE ABOVE CONFIGURATIONS.

△B 4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 9 THRU 11.

5. SHUTTERS ARE NOT REQUIRED.

6. SEALANT: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT. VERTICAL ASSEMBLY BEAM SEAMS SEALED ON THE INTERIOR AND EXTERIOR WITH CONTRACTOR'S SEALANT.

7. REFERENCES: TEST REPORTS: FTL-4311, FTL-4312, FTL-4315, FTL-4527, FTL-4528, FTL-4529, FTL-4530 AND FTL-4921.
△B ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL

8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2004 EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
△B

NOA DRAWING MAP

TOPIC	SHEET
GENERAL NOTES	1
CONFIGURATIONS	1
GLAZING DETAILS	2
DESIGN PRESSURES	3
ELEVATIONS	4
VERT. SECTIONS	5
HORIZ. SECTIONS	6
PARTS LIST	7
EXTRUSIONS	8,11
ANCHORAGE	9-11

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB 22, 2010
By: Manuel Perez
Miami-Dade Product Control Division

Lucas A. Turner, P.E.
PE #58201
Mechanical

12/21/06

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	CHANGE NOTES 1, 4 AND 7. ADD VANCEVA INTERLAYER GLASS TYPES, MOVE GLAZING DETAILS TO SHEET 2 AND DP TABLES TO SHEET 3.
F.K.	10/12/06	B	REVISE ANCHORAGE, ADD SUBSILL AND ALTERNATE TOP & BOTTOM RAIL. REVISE NOTES 4 AND 7, ADD NOTE 8.
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

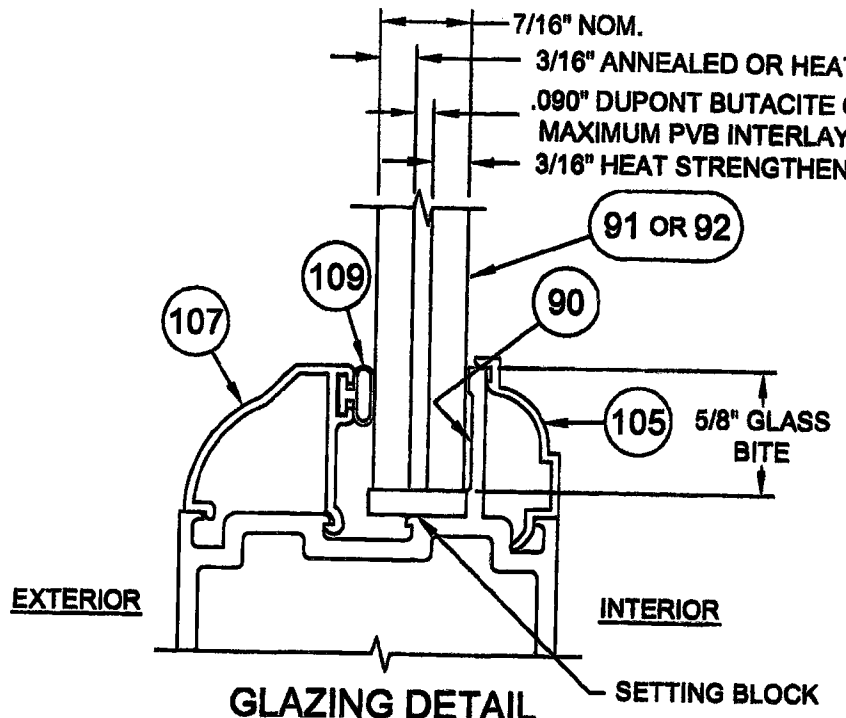
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

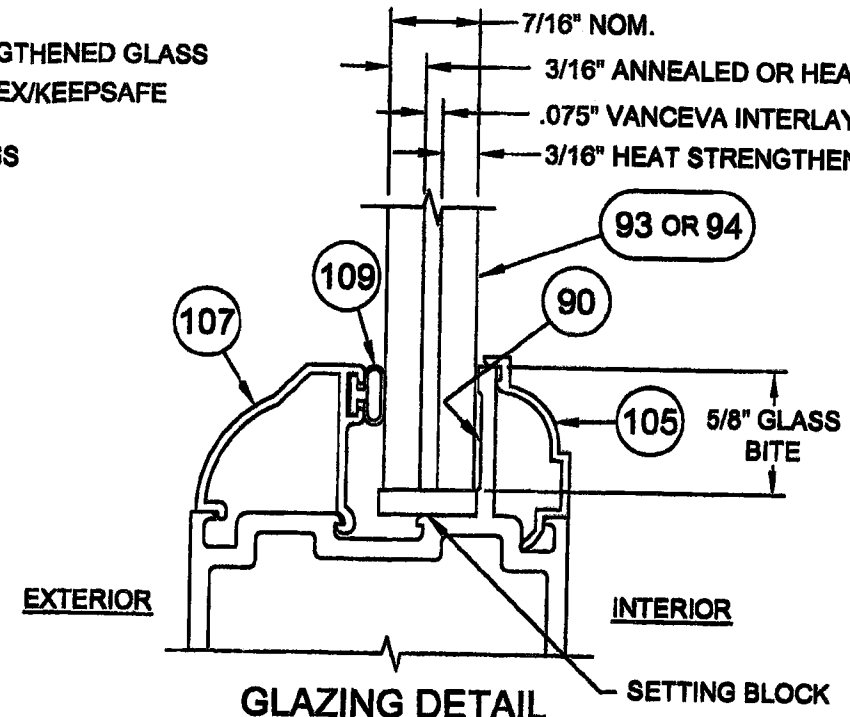
Description: GENERAL NOTES AND DRAWING MAP
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD760	FULL	1 of 11	8000-11	B



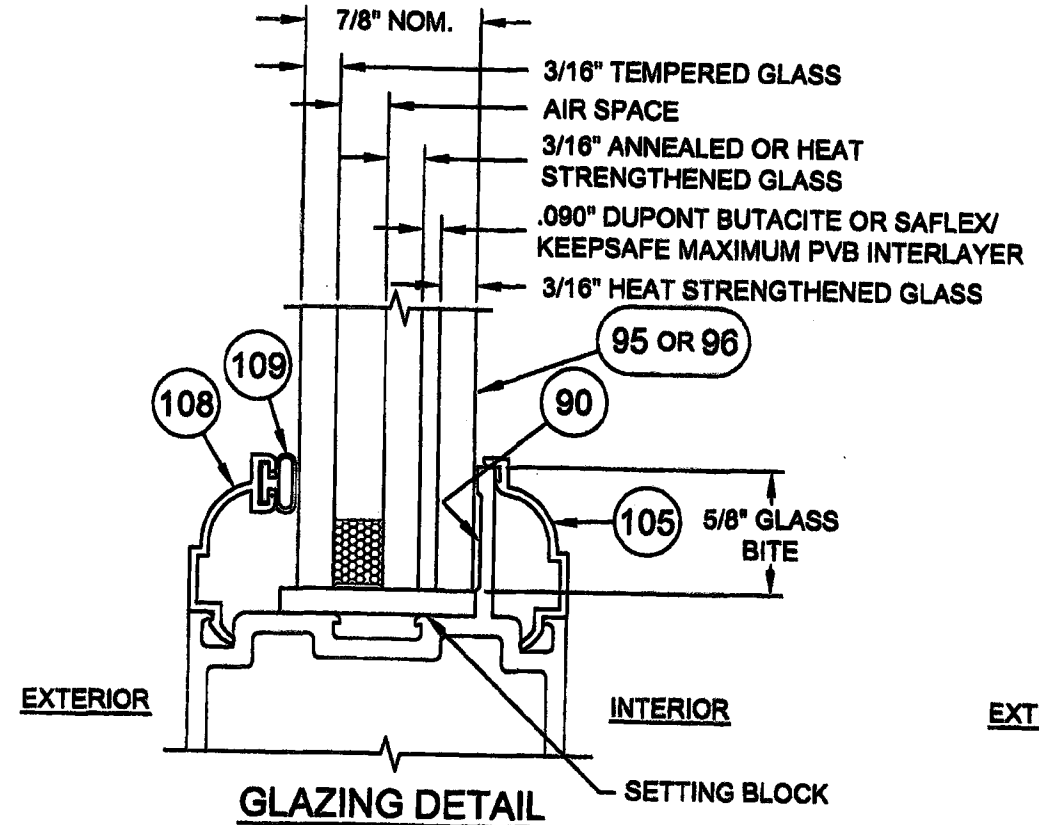
GLAZING DETAIL

7/16" LAMI GLASS W/ PVB INTERLAYER



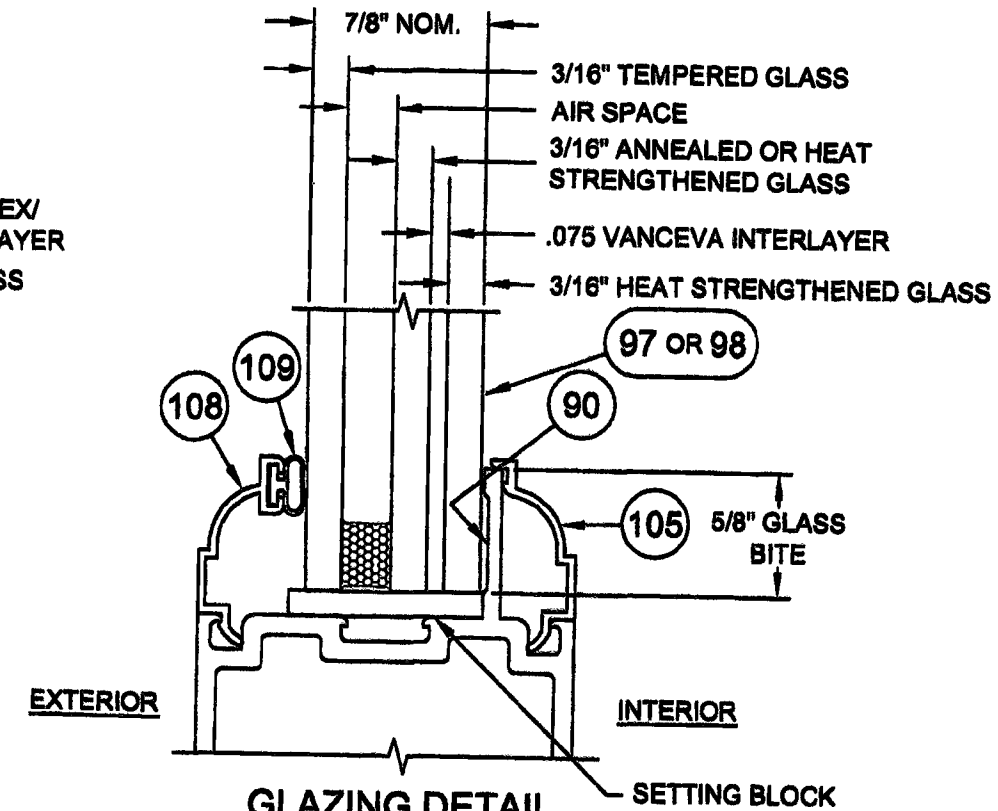
GLAZING DETAIL

7/16" LAMI GLASS W/ VANCEVA INTERLAYER



GLAZING DETAIL

7/8" LAMI I.G. GLASS W/ PVB INTERLAYER



GLAZING DETAIL

7/8" LAMI I.G. GLASS W/ VANCEVA INTERLAYER

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	NEW SHEET. ADD VANCEVA INTERLAYER GLAZING DETAILS.
Revsd By:	Date:	Revisions:	
F.K.	10/12/06	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

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Description: GLAZING DETAILS

Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	FULL	2 of 11	8000-11	B

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By Manuel Perez
Miami-Dade Product Control Division

12/21/06

Lucas A. Turner, P.E.
PE #58201
Mechanical

TABLE 1. DESIGN PRESSURES FOR GLASS TYPES A THROUGH H

A - 7/16" LAMI (3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
B - 7/16" LAMI (3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
C - 7/16" LAMI (3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
D - 7/16" LAMI (3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530
E - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
F - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
G - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
H - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530

CONFIGURATION	DOOR WIDTH	GLASS TYPE	DOOR HEIGHT									
			6^8 - 79 3/4"		7^0 - 83 3/4"		87 3/4"		91 3/4"		8^0 - 95 3/4"	
SINGLE X	3^0 37"	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
SINGLE X	3^0 37"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
DOUBLE XX	6^0 71 3/4"	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
DOUBLE XX	6^0 71 3/4"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0

CONFIGURATION	SIDE LITE WIDTH	GLASS TYPE	SIDE LITE HEIGHT									
			6^8 - 79 3/4"		7^0 - 83 3/4"		87 3/4"		91 3/4"		8^0 - 95 3/4"	
FULL JAMB O	36 11/16"	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
FULL JAMB O	36 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
NARROW JAMB O	36 11/16"	A,B,E,F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
NARROW JAMB O	30 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
NARROW JAMB O	33 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+97.4	-97.4
NARROW JAMB O	36 11/16"	C,G	+100.0	-100.0	+99.9	-99.9	+95.3	-95.3	+91.4	-91.4	+87.9	-87.9
NARROW JAMB O	36 11/16"	D,H	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	NEW SHT. EXPAND TABLE 1 TO INCLUDE ALL GLASS TYPES & CONFIGURATIONS
F.K.	10/12/06	B	UPDATE TABLE 1 TO ASTM E 1300-02
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1629
NOKOMIS, FL 34274

PGT
Visibly Better

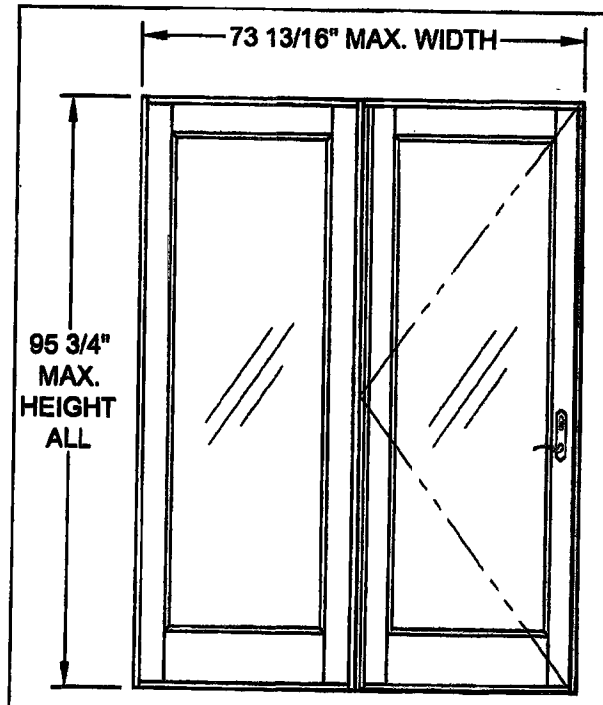
Description: DESIGN PRESSURES
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	NTS	3 of 11	8000-11	B

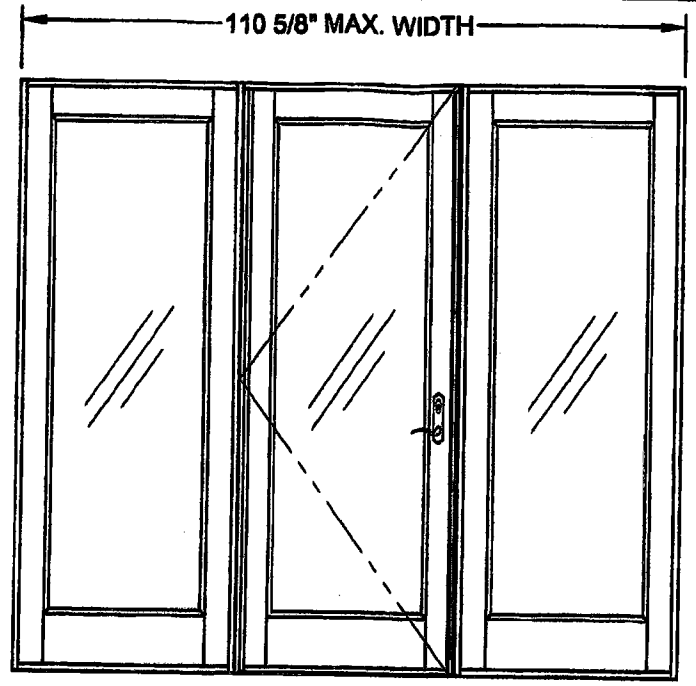
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By Manuel Perez
Miami Dade Product Control Division

12/21/06

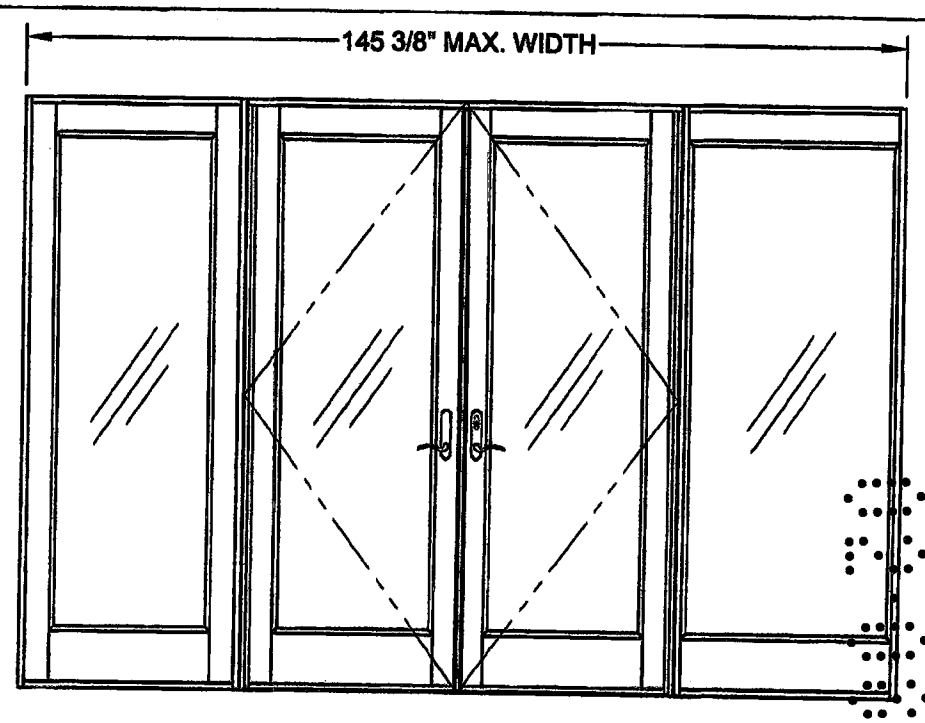
Lucas A. Turner, P.E.
PE #58201
Mechanical



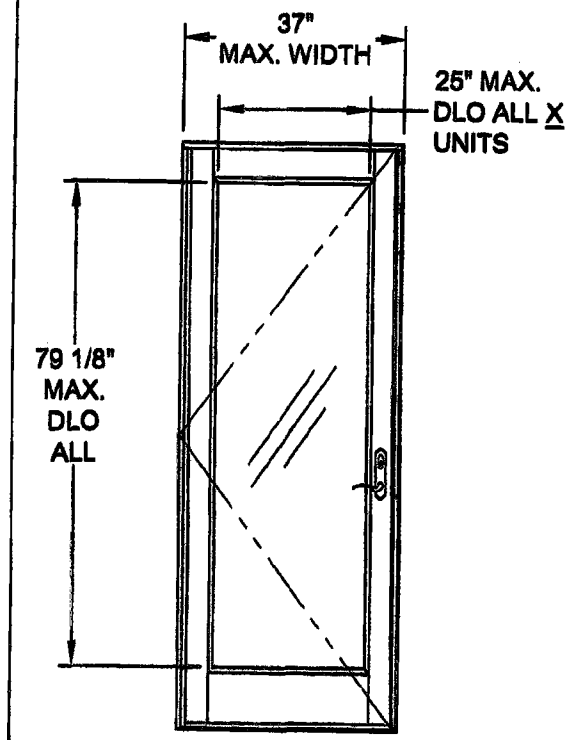
OX OR XO



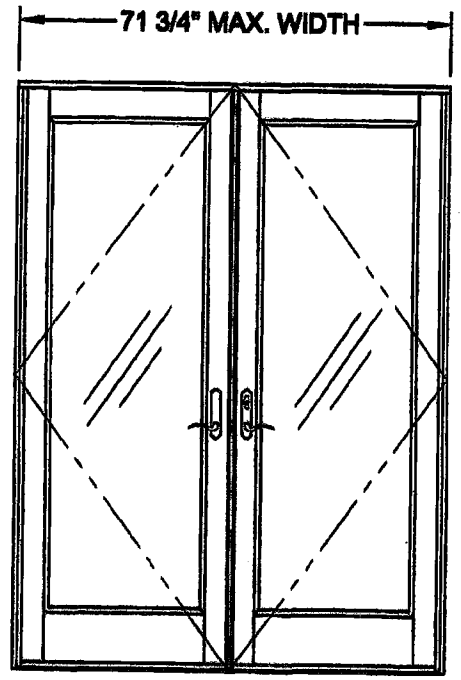
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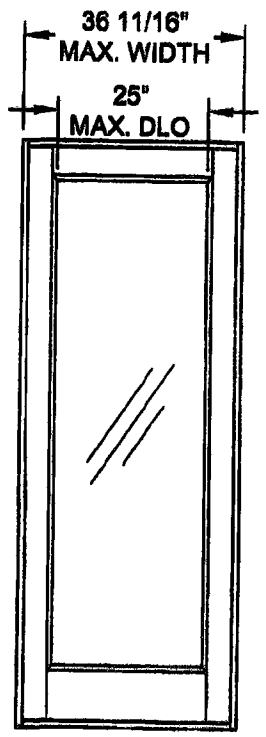
OXXO (SHOWING EACH VERSION SIDELITE)



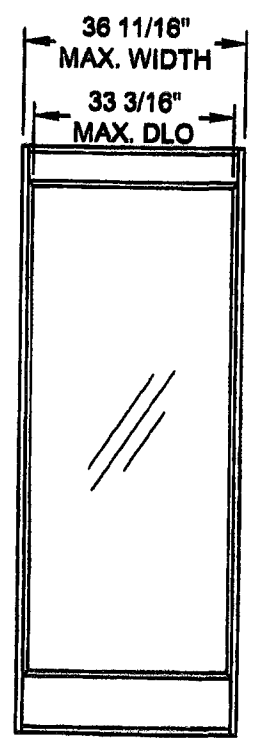
X



XX



O (FULL JAMB)



O (NARROW JAMB)

NOTES:
1. CONFIGURATIONS WITH SIDE LITES CAN BE EITHER NARROW JAMB OR FULL JAMB VERSION.
2. FOR ANCHOR SPACING AND DETAILS SEE SHEETS 9 THROUGH 11.
3. FOR VERTICAL SECTIONS SEE SHEET 5 AND FOR HORIZONTAL SECTIONS SEE SHEET 6.

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	UPDATE SHEET REFERENCES, NOTES 2 AND 3
Revsd By:	Date:	Revisions:	
F.K.	10/12/06	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274

PGT
Vistbly Better

Description: EXAMPLE ELEVATIONS
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

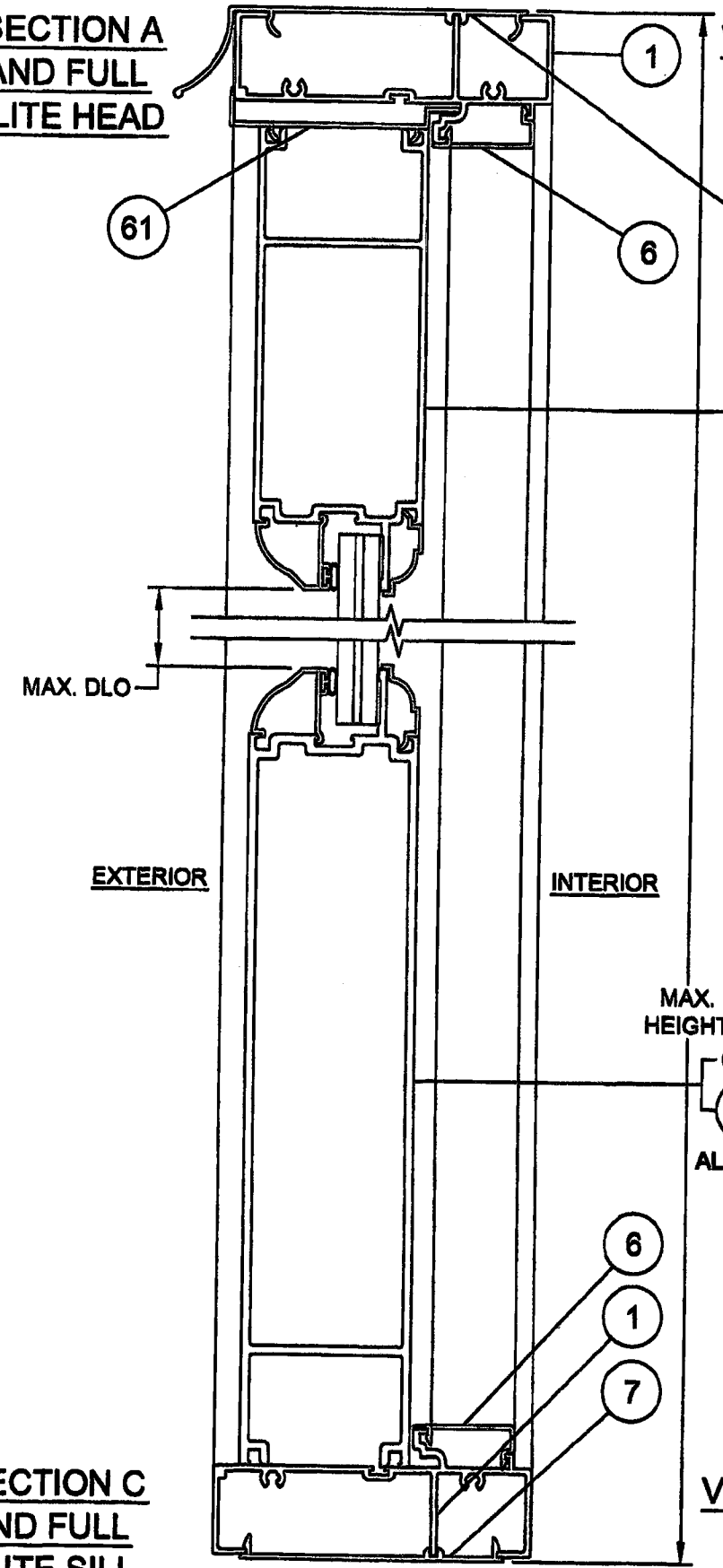
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	NTS	4 of 11	8000-11	B

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By: Manuel Perez
Miami Dade Product Control Division

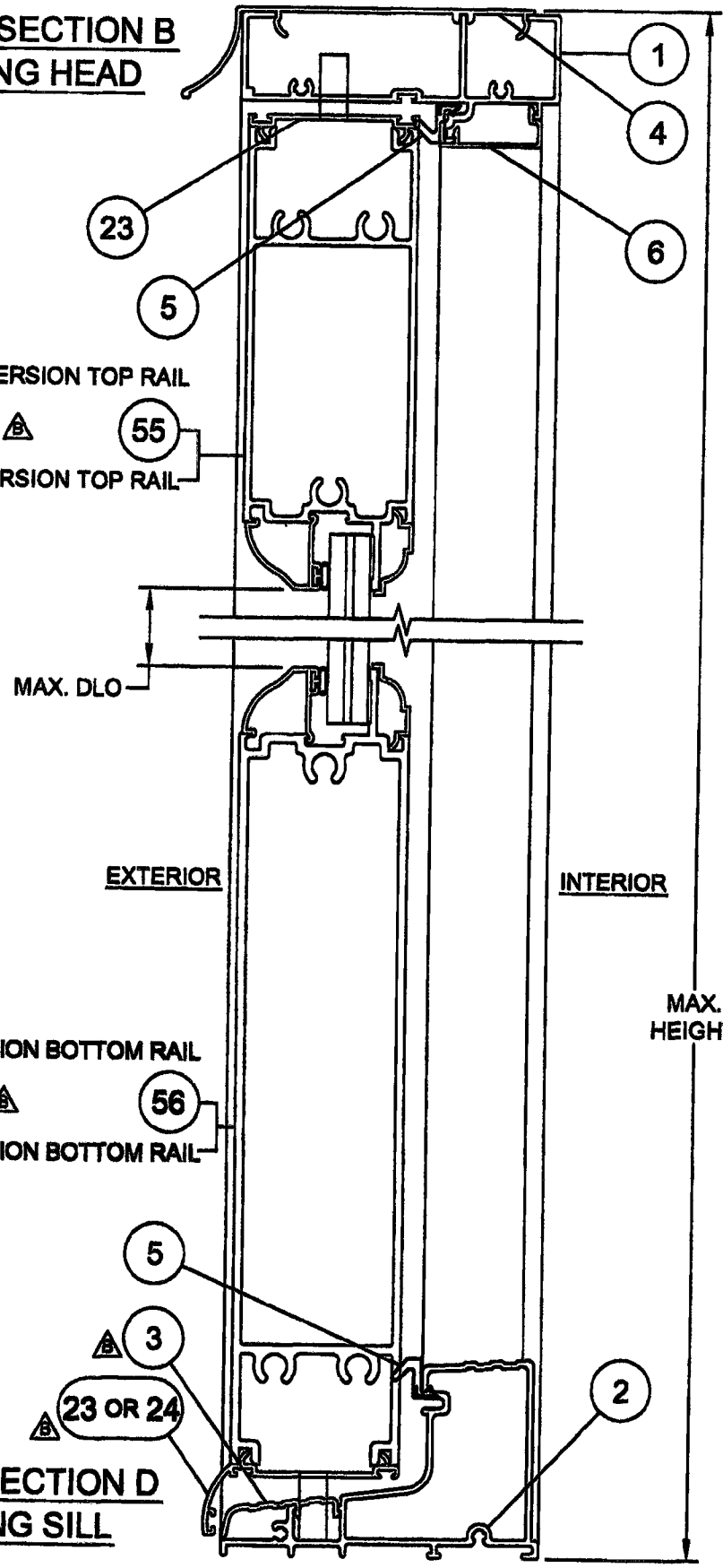
12/21/06

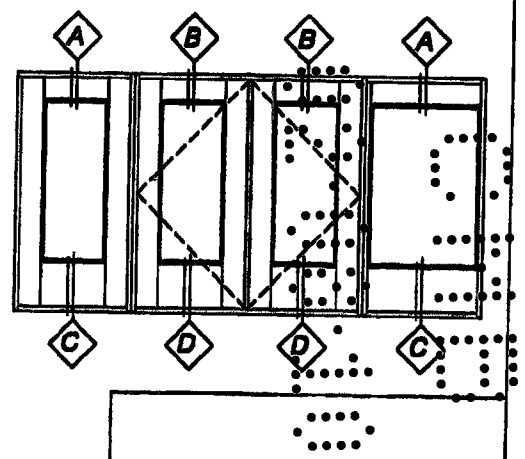
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PE #58201
Mechanical

VERTICAL SECTION A
NARROW AND FULL JAMB SIDE LITE HEAD



VERTICAL SECTION B
OUTSWING HEAD





VERTICAL SECTION C
NARROW AND FULL JAMB SIDE LITE SILL

VERTICAL SECTION D
OUTSWING SILL

Revised By:	Date:	Revisions:	
F.K.	3/28/05	A	NO CHANGE THIS SHEET
F.K.	10/12/06	B	REVISE ITEM 3. SHOW ALTERNATE TOP AND BOTTOM RAIL EXTRUSION.
Revised By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

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Description: VERTICAL SECTIONS

Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

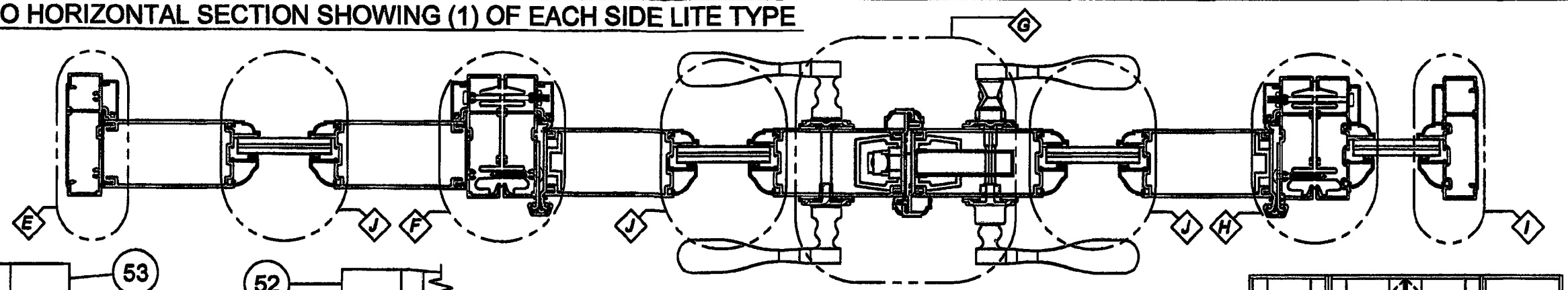
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD760	1/2	5 of 11	8000-11	B

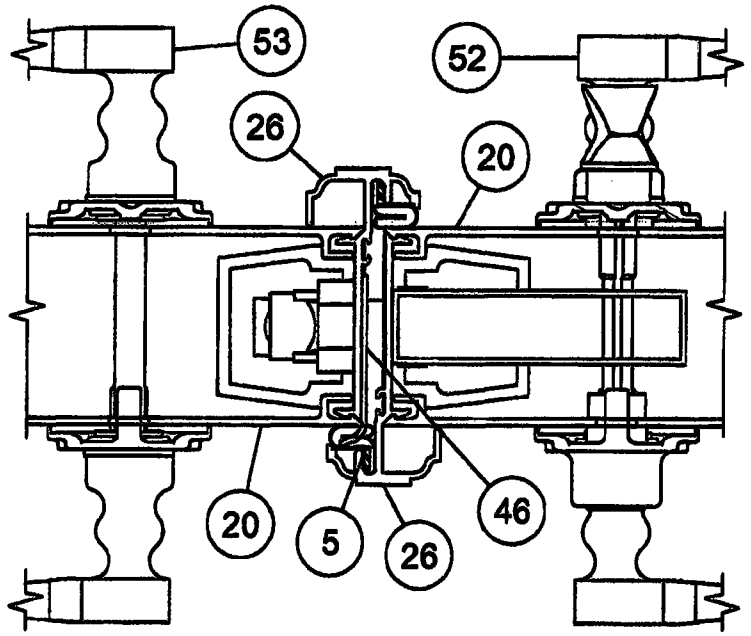
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By Manuel Perez
Manual Basic Product Control Division
2

12/21/06

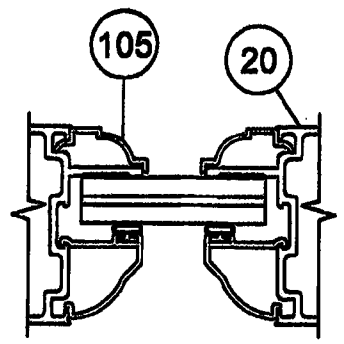
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PE #58201
Mechanical

OXXO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE

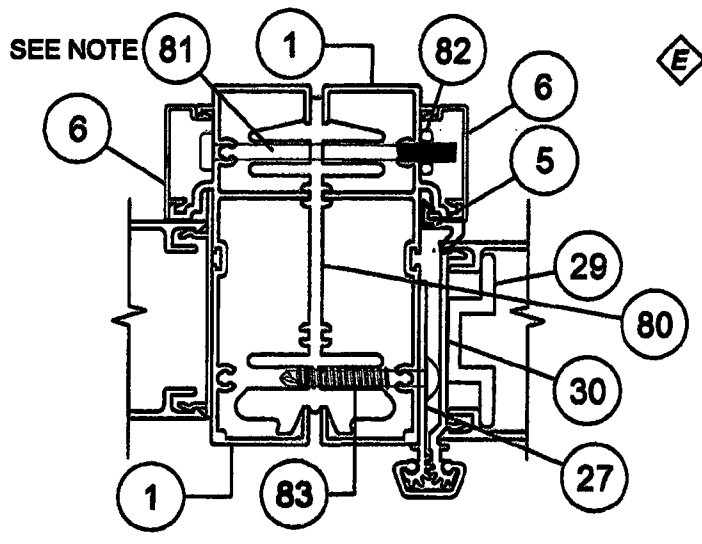




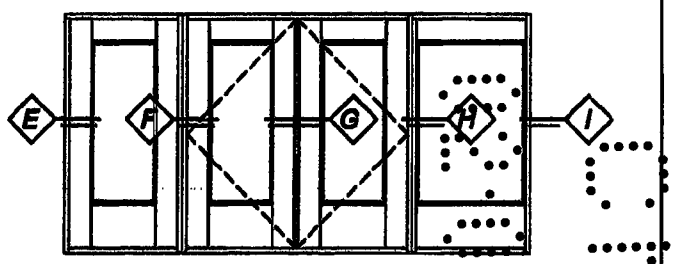
DETAIL G STILES AT ASTRAGAL



DETAIL J
SLAB AT
GLASS BED



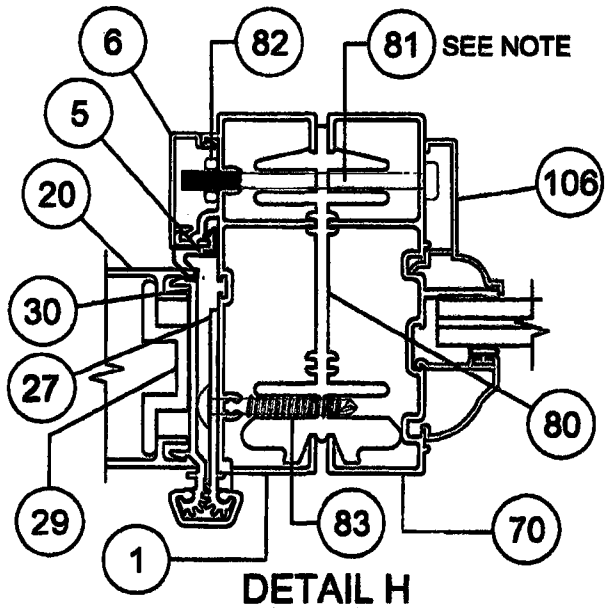
DETAIL F
FULL JAMB SIDE LITE
(AT HINGE JAMB)



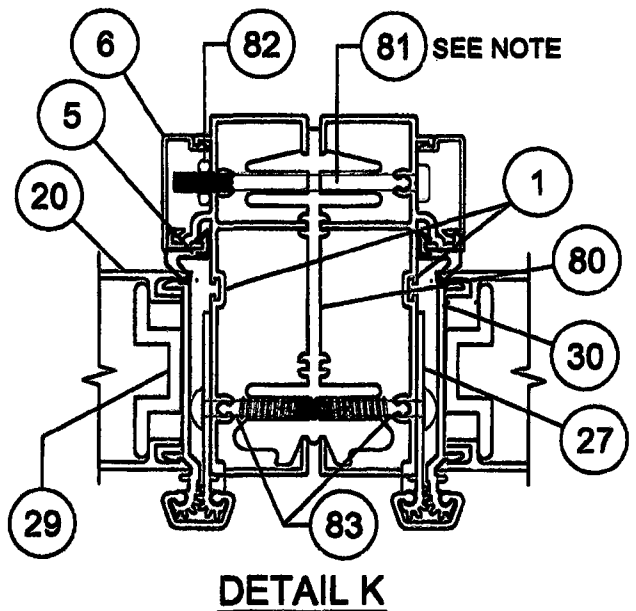
NOTE: ASSEMBLY HARDWARE QTY (3), 11" FROM TOP & BOTTOM AND ONE AT MIDSPAN

INTERIOR

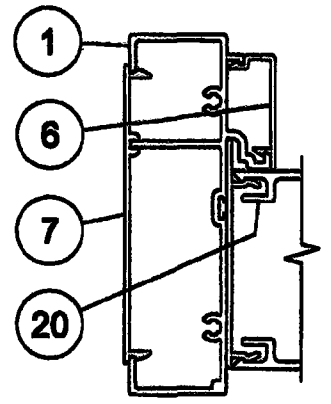
EXTERIOR



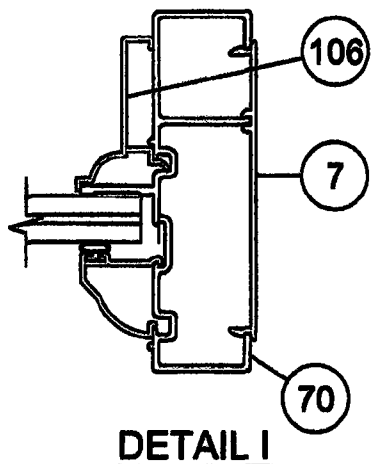
DETAIL H
NARROW JAMB SIDE LITE
(AT HINGE JAMB)



DETAIL K
HINGE JAMB TO HINGE JAMB
(NOT SHOWN ABOVE)



DETAIL E
JAMB, FULL JAMB
SIDE LITE



DETAIL I
JAMB, NARROW
JAMB SIDE LITE

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 07-0103.04
Expiration Date FEB. 22, 2010
By Masud Sere
Miami-Dade Product Control
Division

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	NO CHANGE THIS SHEET
F.K.	10/12/06	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: HORIZONTAL SECTION DETAILS

Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	1/2	6 of 11	8000-11	B

Lucas A. Turner, P.E.
PE #58201
Mechanical

1 of 1
12/21/06

FD750 DOOR(S)

ITEM	DWG#	DESCRIPTION	PGT#
		FRAME KIT PARTS	
1	8006	FRAME - HEAD & HINGE JAMB	68006
2	8003A	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5	----------	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	----------	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8032	ASTRAGAL END SEAL	48032
		DOOR PANEL	
5	----------	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
20	8012	STILE	68012
21	8014	TOP RAIL, (THREADED ROD DESIGN)	68014
22	8013	BOTTOM RAIL, (THREADED ROD DESIGN)	68013
23	8017	TOP SWEEP	68017
24	8016	BOTTOM SWEEP	68016
25	----------	SWEEP SCREWS, #4 X 1/2" PHIL PH	
26	8015	ASTRAGAL, ACTIVE & INACTIVE	68015
27	8021B	GEAR HINGE, JAMB SIDE	68021B
28	8020A	GEAR HINGE, COVER	68020A
29	8018	GEAR HINGE, BACK-UP PLATE	68018
30	8019A	GEAR HINGE, DOOR SIDE	68019A
31	8035	GEAR HINGE, BEARING	68035
32	----------	GEAR HINGE, SET-SCREW #6-32 x 1/4"	
33	----------	GEAR HINGE, MTG. SCREW #12 x3/4" TRUSS HD.	
34	----------	GEAR HINGE, MTG. SCREW #12 x1 1/2" TRUSS HD.	
35	----------	THREADED ROD 5/16-18 X 36"	6TRODA
36	----------	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
38	8043	S/S GEAR LATCH MECHANISM (ASHLAND)	
39	8030	LOCK BLOCK	48030
40	----------	LATCH ASS'Y SCREWS #8 X 2" SS PHILL TR HD	78X2TPAX
41	8037	S/S SHOOT BOLT ROD (SULLIVAN)	
42	8045	STANDARD FLUSH BOLTS W/ SS ROD (SULLIVAN)	
43	8031	SHOOT BOLT GUIDE	48031
44	----------	SHOOT BOLT GUIDE & STRIKE SCREW 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
45	8038R	RIGHT- STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED LEFT)	W5110-43S1
46	8038L	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED RIGHT)	W5110-44S1
47	----------	STRIKE PLATE SCREWS 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
48	----------	STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" FH	7612FPTX
49	8036	STRIKE PLATE AT HEAD & SILL	
50	----------	HEAD STRIKE SCREWS SS 8 X 1/2 PHILL FH	7858ZAX
51	----------	STRIKE PLATE SCREWS @SILL SS 8 X 1/2 PHILL UNDERCUT FH	78X12PFHUX
52	8041	ACTIVE TRIM SET (ASHLAND)	
53	8042	PASSIVE TRIM SET (ASHLAND)	
54	8044	STAINLESS STEEL PASSIVE LOCK GEAR (ASHLAND)	
55	8014A	TOP RAIL (LAG BOLT DESIGN)	68014A
56	8013A	BOTTOM RAIL (LAG BOLT DESIGN)	68013A
57	----------	5/16" x2 1/2" LAG BOLTS	7516LBOLTX

FD750 FULL JAMB SIDE LITE

ITEM	DWG#	DESCRIPTION	PGT#
1	8006	FRAME - HEAD, SILL & JAMB	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	----------	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	----------	THREADED ROD 5/16-18 X 36"	6TRODA
36	----------	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	----------	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
62	8029	SIDE LITE JAMB TRIM	68029

FD750 NARROW JAMB SIDE LITE

1	8006	FRAME - HEAD & SILL	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	----------	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	----------	THREADED ROD 5/16-18 X 36"	6TRODA
36	----------	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	----------	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
70	8010	FRAME, JAMB	68010

ASSEMBLY KIT

80	8033B	FRENCH DOOR ASSEMBLY BEAM	68033B
81	----------	#10-24 X 2 1/2" PH SCREW	
82	----------	#10-24 HEX NUT	
83	----------	#12 X 1 1/2" TR HD TEK SCREW	
84	8056	SUBSILL (OPTIONAL)	68056

GLASS, BEADS & SILICONE

90	----------	GLAZING SEALANT, DOW CORNING 899, 983, 995 OR EQUIVALENT	
91	----------	7/16" LAMINATED GLASS (3/16" ANN.,.090 PVB, 3/16" HS)	
92	----------	7/16" LAMINATED GLASS (3/16" HS.,.090 PVB, 3/16" HS)	
93	----------	7/16" LAMINATED GLASS (3/16" ANN.,.075 VANCEVA, 3/16" HS)	
94	----------	7/16" LAMINATED GLASS (3/16" HS.,.075 VANCEVA, 3/16" HS)	
95	----------	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" ANN.,.090 PVB, 3/16" HS)	
96	----------	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" HS.,.090 PVB, 3/16" HS)	
97	----------	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" ANN.,.075 VANCEVA, 3/16" HS)	
98	----------	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" HS.,.075 VANCEVA, 3/16" HS)	
105	8022	BACK BEAD	68022
106	8026A	SL BACKBEAD	68026A
107	8023A	7/16" BEAD	68023A
108	8024A	7/8" IG BEAD	68024A
109	1224	VINYL BULB WSTP (THICK)	6TP247

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	ADD ITEMS 83, 94, 97 AND 98.
F.K.	10/12/06	B	UPDATE ITEM 3. ADD ITEMS 55, 56, 57 AND 84.
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1629
NOKOMIS, FL 34274

PGT
Visibly Better

Description: PARTS LIST

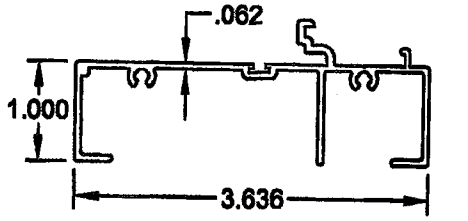
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	NA	7 of 11	8000-11	B

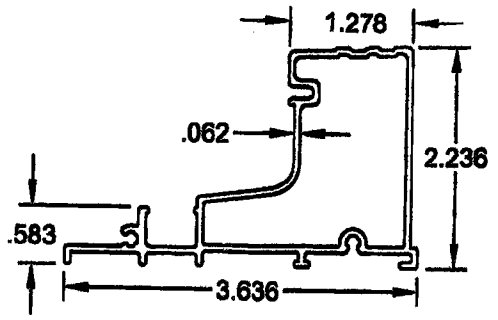
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 26, 2010
By: Manuel Perez
Miami-Dade Product Control
Division

12/21/06

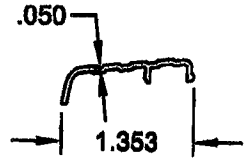
Lucas A. Turner, P.E.
PE #58201
Mechanical



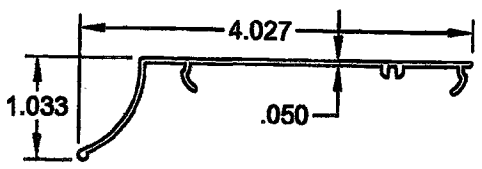
1 #8006 6063-T6
FRAME, HEAD, JAMB
AND SIDELITE SILL



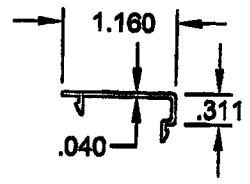
2 #8003A 6063-T6
OUT-SWING SILL



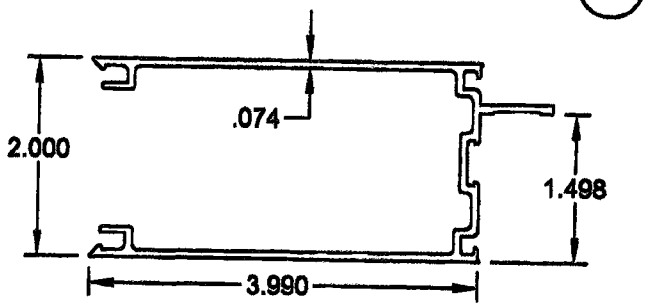
3 #8004C 6063-T5 ⚠B
OS SILL COVER



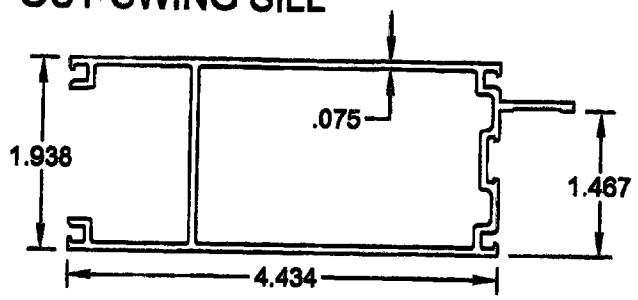
4 #8008 6063-T5
DRIP CAP



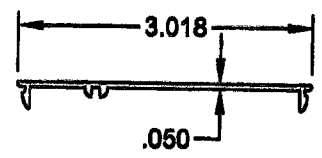
6 #8007 6063-T6
SCREW COVER



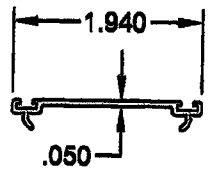
20 #8012 6063-T6
STILE



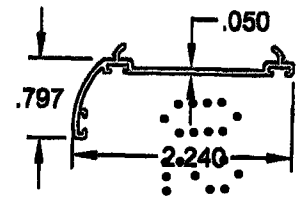
21 #8014 6063-T5
TOP RAIL



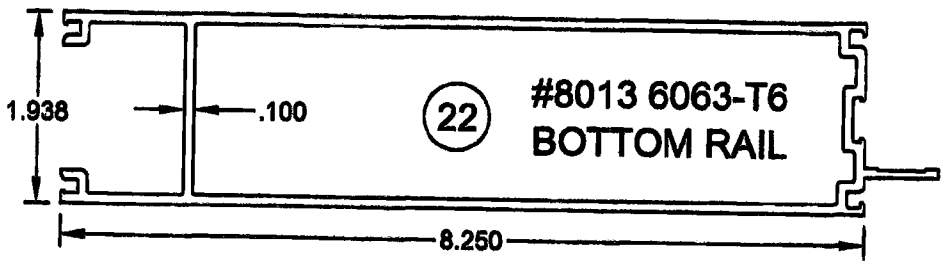
7 #8009 6063-T5
INSTALL PLATE



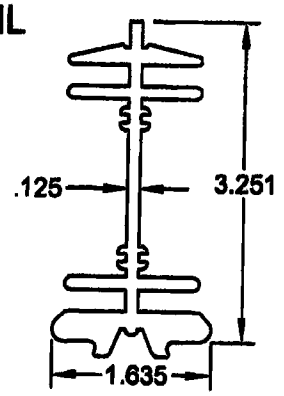
23 #8017 6063-T5
TOP SWEEP



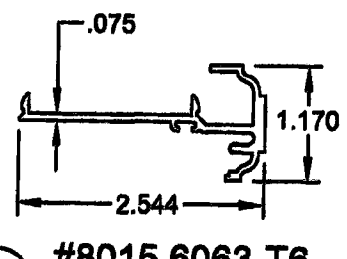
24 #8016 6063-T5
BOTTOM SWEEP



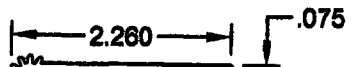
22 #8013 6063-T6
BOTTOM RAIL



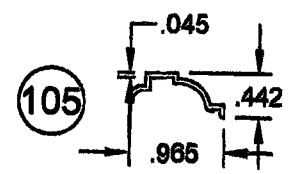
80 #8033B 6105-T5
FD ASS'Y BEAM



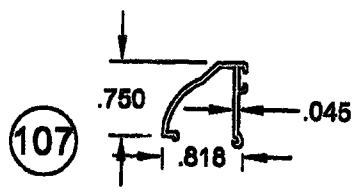
26 #8015 6063-T6
ASTRAGAL



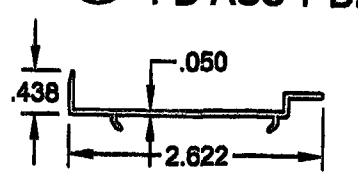
27 #8021B 6063-T6
GEAR HINGE, JAMB



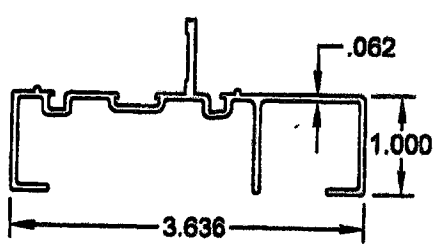
105 #8022 6063-T5
BACKBEAD



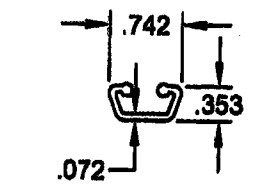
107 #8023A 6063-T5
7/16" BEAD



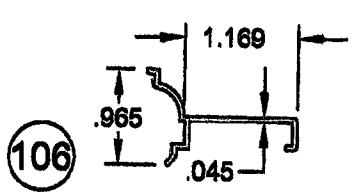
61 #8028 6063-T5
SL HEAD TRIM



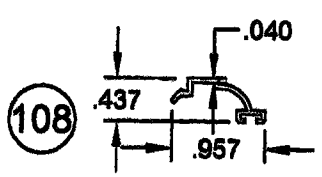
70 #8010 6063-T6
NARROW SL JAMB



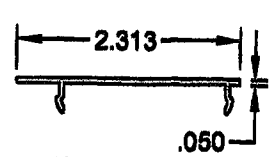
28 #8020A 6063-T6
GEAR HINGE, COVER



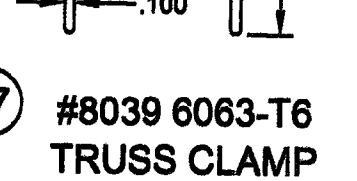
106 #8026A 6063-T5
SL BACKBEAD



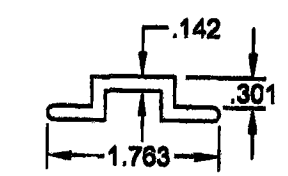
108 #8024A 6063-T5
I.G. BEAD



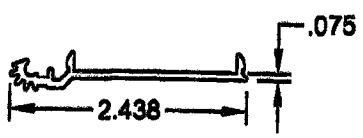
62 #8029 6063-T5
SL JAMB TRIM



37 #8039 6063-T6
TRUSS CLAMP



29 #8018 6063-T5
HINGE, BACK-UP



30 #8019A 6063-T6
GEAR HINGE, DOOR

Revsd By:	Date:	Revisions:	
F.K.	3/28/05	A	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
F.K.	10/12/06	B	UPGRADE ITEMS 3.
Revsd By:	Date:	Revisions:	
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: EXTRUSION PROFILES

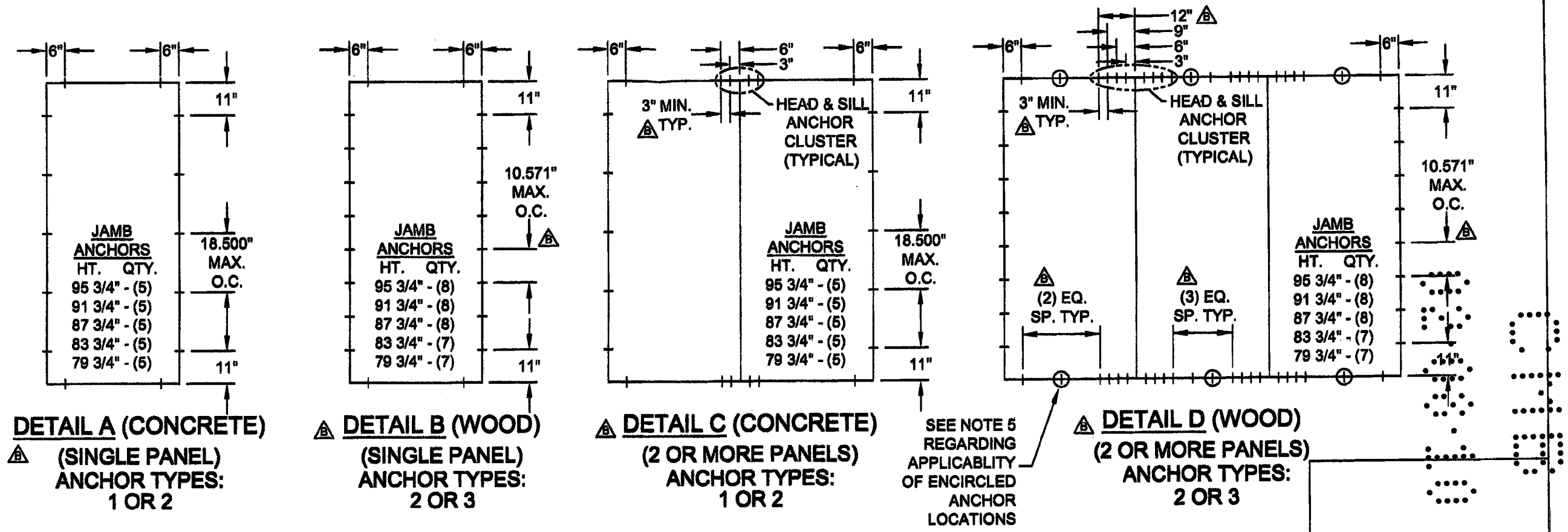
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	1/2	8 of 11	8000-11	B

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By Manuel Perez
Miami-Dade Product Control
Division

12/21/06

Lucas A. Turner, P.E.
PE #58201
Mechanical



ANCHORAGE SPACING REQUIREMENTS:

1. DETAILS A AND B ABOVE REPRESENT ANCHORING OF SINGLE X DOORS, OR INDIVIDUAL SIDE LITE O PANELS WITH FULL OR NARROW WIDTH JAMBS. DETAILS C AND D ABOVE REPRESENT ANCHORING OF ANY MIXTURE OF DOUBLE XX DOORS, SINGLE X DOORS, NARROW JAMB OR FULL JAMB SIDE LITE PANELS, FOR MULTIPLE-PANEL INSTALLATIONS OF TWO OR MORE PANELS. UNLESS OTHERWISE STATED, DIMENSIONS OF DETAILS A THROUGH D ARE MAXIMUMS.

2. ANCHOR TYPES: 1 - 1/4" ELCO TAPCON 2 -1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREW (G5)

B

CONCRETE SUBSTRATE USE TYPE 1 AT 1 3/8" MIN. EMBEDMENT OR TYPE 2 AT 1 3/4" EMBEDMENT. 1 3/4" MIN. EDGE DISTANCE FOR BOTH.
WOOD SUSTRATE - USE TYPE 2 OR TYPE 3 AT 1 3/8" MIN. EMBEDMENT.

3. SINGLE PANEL CONFIGURATIONS: (DETAIL A, CONCRETE SUBSTRATE. DETAIL B, WOOD SUBSTRATE)

B

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS.
JAMBS.....11" MAX. FROM FRAME CORNERS, 18.500" MAX. O.C. CONCRETE SUBSTRATE (DETAIL A) AND 10.571" MAX. O.C. WOOD SUBSTRATE (DETAIL B).

4. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL C, CONCRETE SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3" AND 6" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 4).
JAMBS....11" MAX. FROM FRAME CORNERS AND 18.500" MAX. O.C.

5. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL D, WOOD SUBSTRATE)

B

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8).
PLUS ENCIRCLED ANCHORS OUTSIDE CLUSTERS, REQUIRED ONLY ON PANEL WIDTHS OVER 27 3/4".
JAMBS.....11" MAX. FROM FRAME CORNERS AND 10.571" MAX. O.C.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By: Manuel Perez
Miami-Dade Product Control Division

12/21/06

Revised By:	Date:	Revisions:	
F.K.	3/25/05	A	NO CHANGE THIS SHEET
F.K.	10/12/06	B	REMOVE NOTE PERTAINING TO ANCHORAGE OUTSIDE M-D COUNTY. REVISE ANCHORAGE PER FBC2004 AND REVISE NOTES 2, 3 & 5..
Revised By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

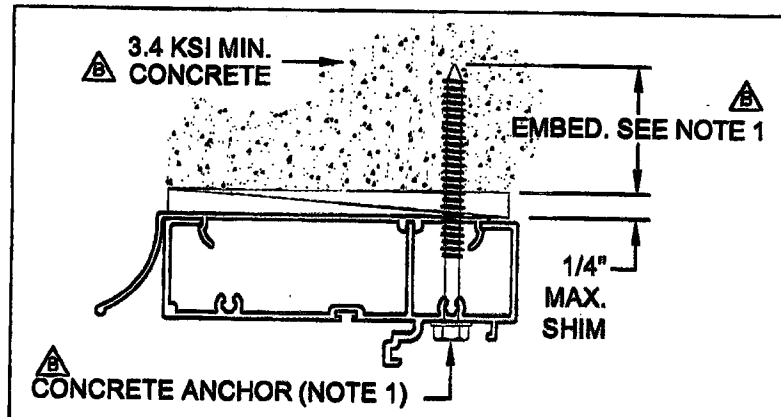
P.O. BOX 1529
NOKOMIS, FL 34274

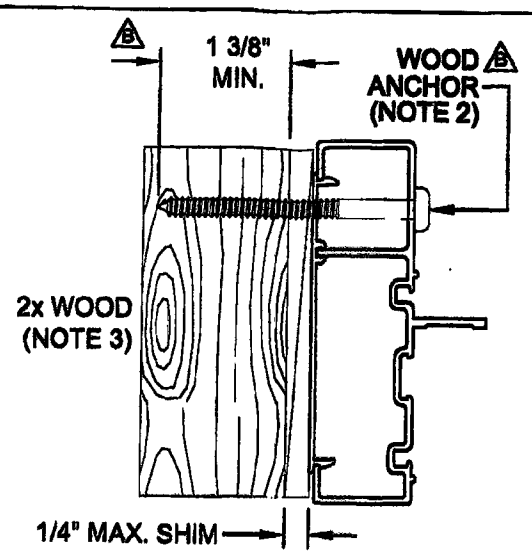
PGT Visibly Better

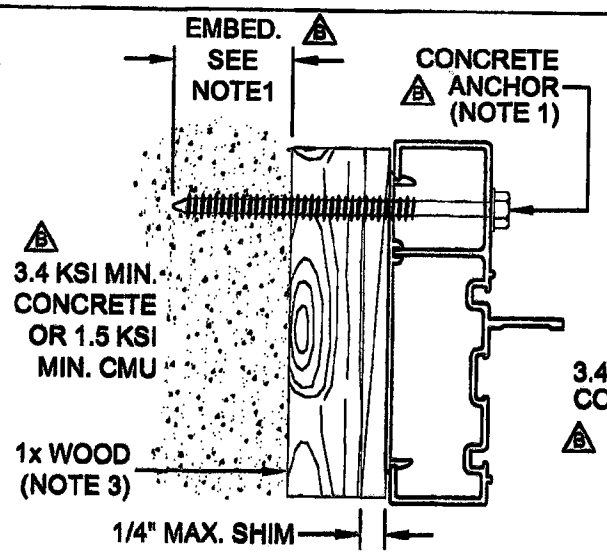
Description: ANCHORAGE SPACING
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

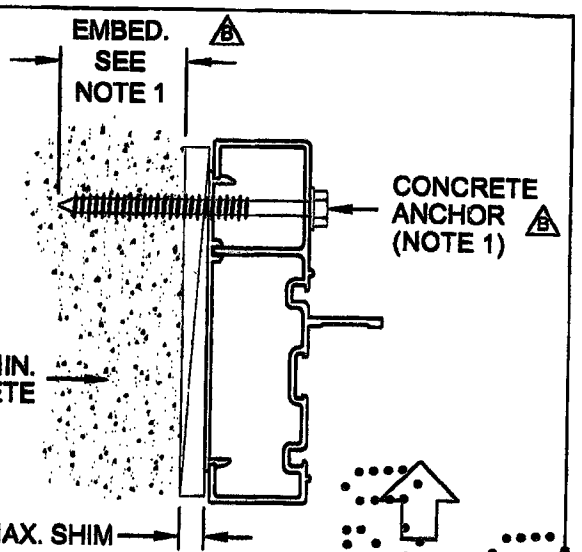
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	1/4	9 of 11	8000-11	B

Lucas A. Turner, P.E.
PE #58201
Mechanical

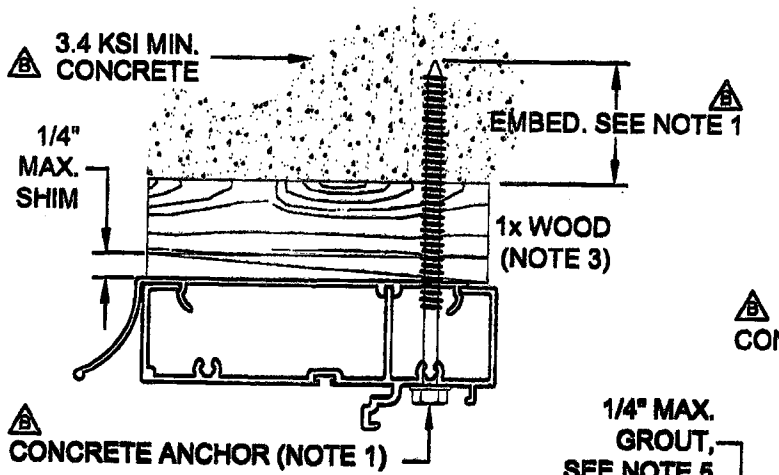


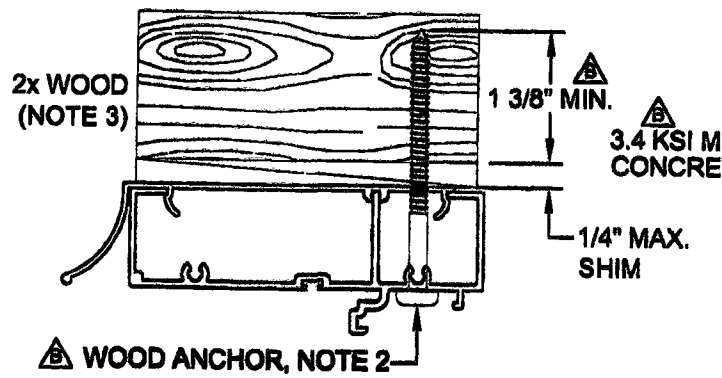




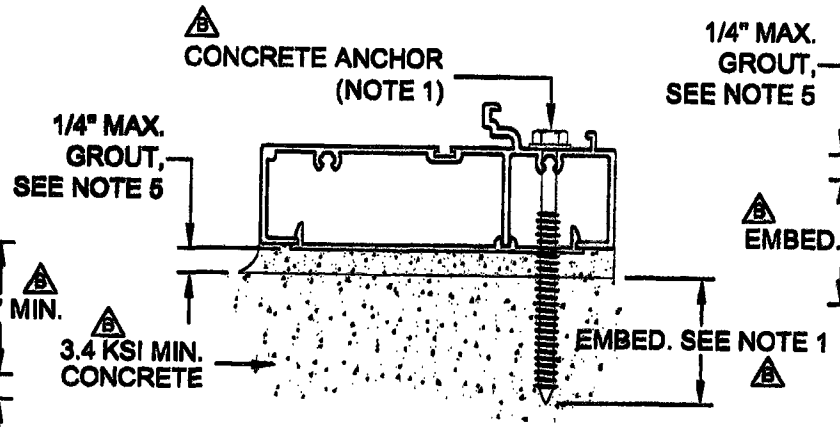


TYP. DOOR & SIDE LITE JAMB, & SIDE LITE SILL





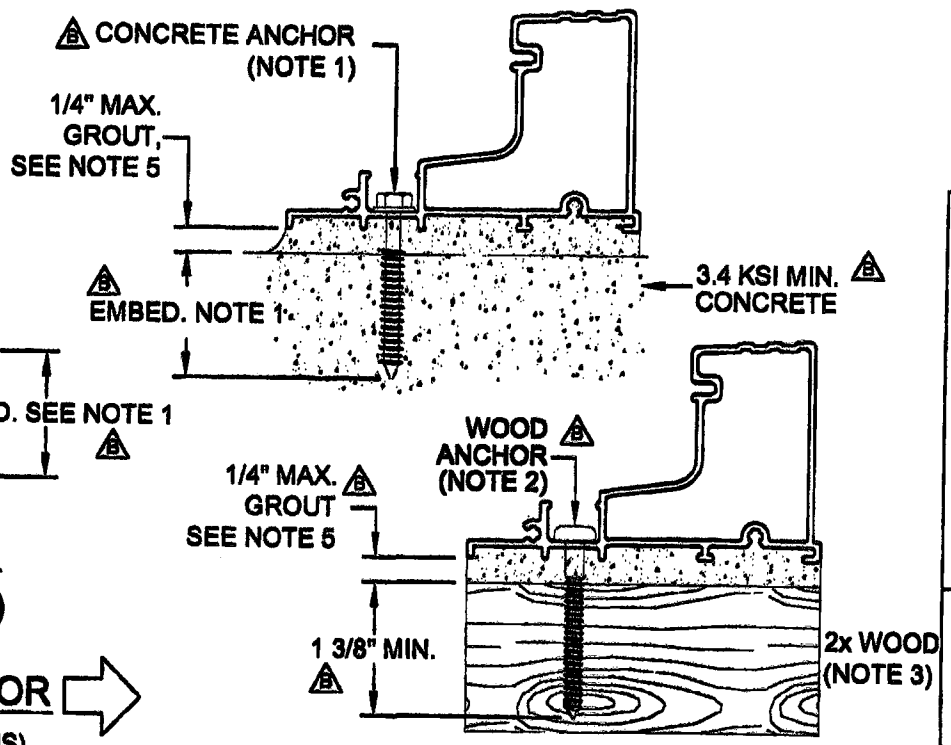
TYP. DOOR & SIDE LITE HEAD



TYPICAL SIDE LITE SILL
(DIRECT TO CONCRETE)

EXTERIOR INTERIOR

(ALL HEAD & SILL SECTIONS)



TYP. DOOR SILL

INTERIOR

(ALL JAMB SECTIONS)

EXTERIOR

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX. MIN. DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4". MIN. EMBEDMENT: 1/4" TAPCON - 1 3/8", 1/4" SS4 CRETE-FLEX - 1 3/4".
2. FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX - 1 3/8" MIN. EMBEDMENT FOR EITHER.
3. WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
4. FOR ATTACHMENT TO ALUM: THE MAT'L SHALL BE A MIN. STRENGTH OF 6063-T5 AND A MIN. OF 1/8" THICK. THE ALUM. STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS ON THIS SHEET FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SMS WITH FULL ENGAGEMENT INTO THE ALUM. IF THESE CRITERIA ARE MET, THE PRESSURES SHOWN ON SHEET 3 AND ANCHORAGE SPACING FOR CONCRETE SHOWN ON SHEET 9 MAY BE USED.
5. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE.

Revsd By:	Date:	Revisions:	
F.K.	3/25/05	A	UPDATE SHEET REFERENCE NOTE 4 AND ADD EXTERIOR/INTERIOR DIAGRAMS
F.K.	10/12/06	B	UPDATE ANCHORAGE AND NOTES
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276

P.O. BOX 1629
NOKOMIS, FL 34274

PGT Visibly Better

Description: ANCHORAGE DETAILS

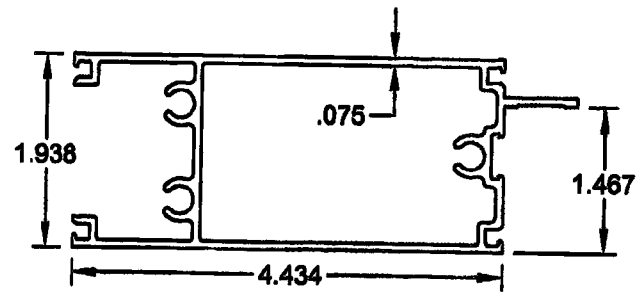
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
FD750	1/4	10 of 11	8000-11	B

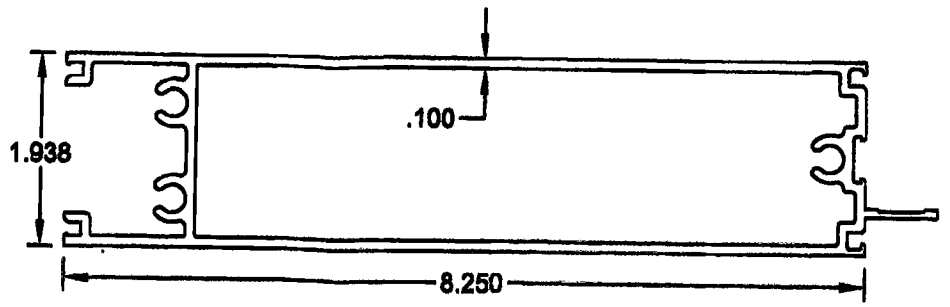
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 07-0103.02
Expiration Date: FEB 23, 2010
By: Manuel Perez
Miami-Dade Product Control

12/21/06

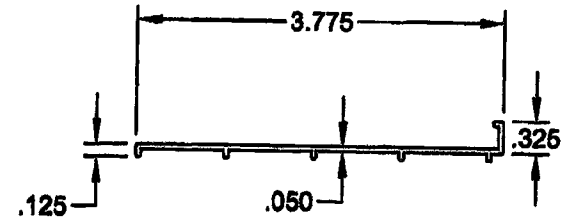
Lucas A. Turner, P.E.
PE #58201
Mechanical



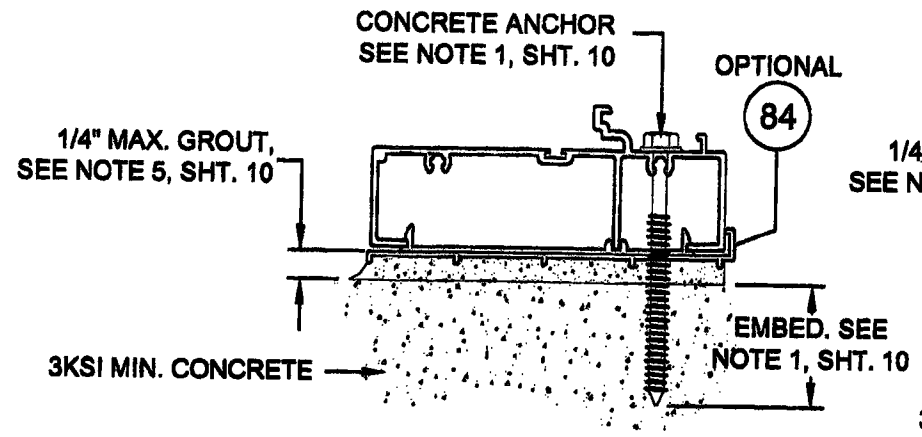
55 #8014 6063-T5
TOP RAIL, LAG BOLT DESIGN



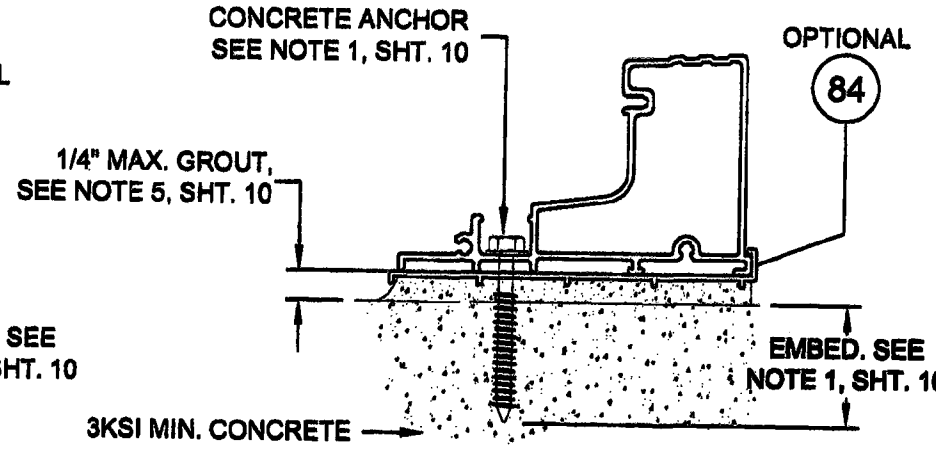
56 #8013A 6063-T6
BOTTOM RAIL, LAG BOLT DESIGN*

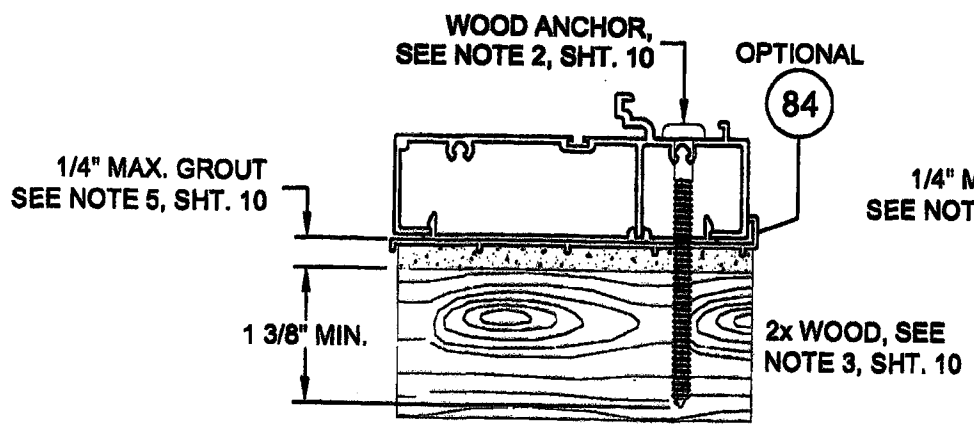


84 #8056 6063-T4
SUBSILL, OPTIONAL

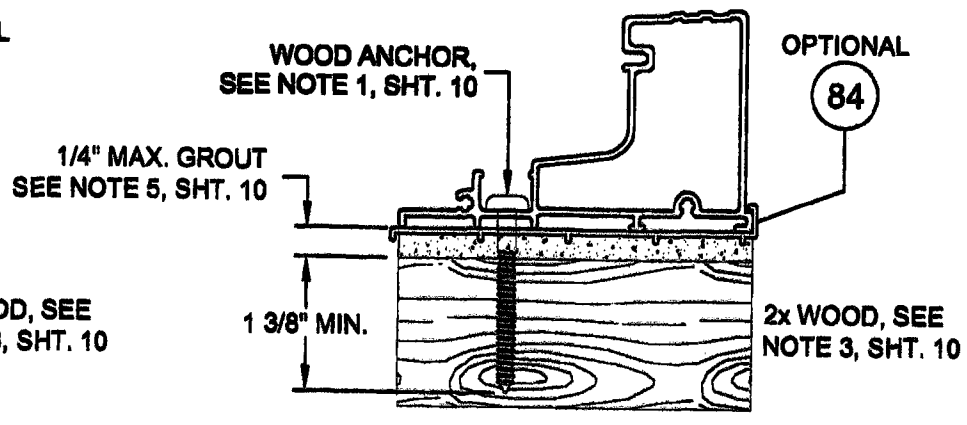


WOOD ANCHOR





OPTIONAL SIDE LITE SILL ANCHORAGE



OPTIONAL DOOR SILL ANCHORAGE

EXTERIOR INTERIOR
(ALL SILL SECTIONS)

Revsd By: F.K.	Date: 3/25/05	Revisions: A	UPDATE SHEET REFERENCE NOTE 4 AND ADD EXTERIOR/INTERIOR DIAGRAMS	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1629 NOKOMIS, FL 34274	PGT Visibly Better	Description: ANCHORAGE DETAILS	
Revsd By: F.K.	Date: 10/12/06	Revisions: B	NEW SHT. ADD SUBSILL AND ALTERNATE TOP & BOTTOM RAIL EXTRUSIONS.			Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT	
Revsd By:	Date:	Revisions:				Series/Model: FD760	Scale: 1/4
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05			Sheet: 11 of 11	Drawing No. 8000-11
							Rev: B

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0103.02
Expiration Date FEB. 24, 2010
By Manuel Perez
Product Control

12/21/06

Lucas A. Turner, P.E.
PE #58201
Mechanical

Guardian Angel™

WINDOW GUARDS

Specifications

The following are detailed illustrations of the Guardian Angel window guards. To receive the exact model number and price for your specific window, visit our web site at www.angelguards.com or contact Automatic Specialties Inc. at 1-800-445-2370.

Please have your window measurements accessible. We recommend you follow the Guardian Angel Measuring Instructions. You can find these instructions on our web site at www.angelguards.com.

The Guardian Angel Window Guard is proudly made and assembled in the USA and is designed to conform to the safety standards for window fall prevention devices set forth by the American Society for Testing and Materials (ASTM F2090-01a), and recognized by the U.S. Consumer Products and Safety Commission.

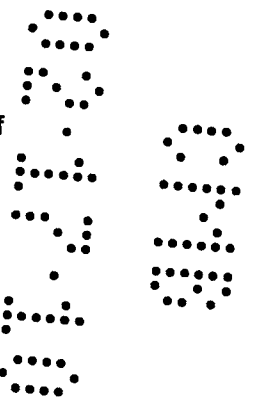
Double Hung Window Guards.....Page 1-2

Casements/Sliders Window Guards.....Page 3-6

Double Hung Window Guards

- The end posts are 21 3/8 inches high. If your window opens above that, you will need to use a window stop to keep your window from opening above the guard. You could also use a vertical style guard, which covers the entire height of the window. **Double hung window guards can not be stacked on top of each other. Contact Automatic Specialties at 1-800-445-2370 for assistance with stackable guards.**

- All double hung window guards come with 4 horizontal bars. These bars telescope to fit various window widths. The example below is the 2335 model, which expands from 23 to 35 inches.



- There are 6 widths available, see chart below. If your window width falls right on the edge of a range, it is better to go with the guard in the larger width range. For example, if the width you want to cover is 23 inches, go with the 23 to 35 inch model (2335-44H).

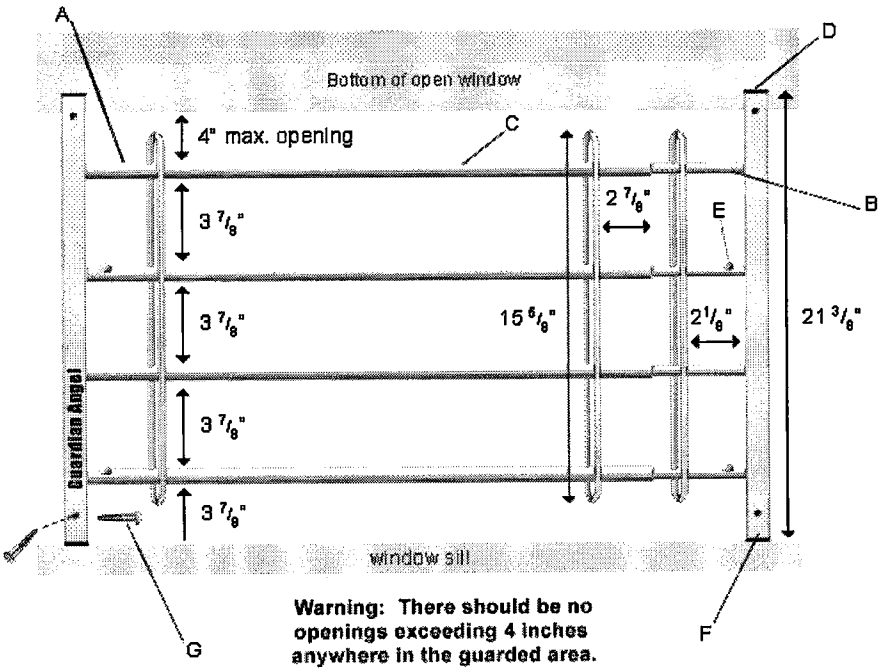
Window Width (inches)	Model No.
14 to 17	1417-44H
17 to 23	1723-44H
23 to 35	2335-44H
35 to 58	3558-44H
58 to 90	5890-44H
90 to 120	7320-44H

- The "-44H" refers to the number of emergency release buttons and number of bars, respectively. There are 4 emergency release buttons per guard. The H stands for horizontal.

- Designed to conform to the safety standards for window fall prevention devices set forth by the American Society for Testing and Materials (ASTM F2090-01a), and recognized by the U.S. Consumer Products and Safety Commission.

See next page for illustration.

Example
Model 2335-44H



A. Diameter of large bar is 5/8"
B. Diameter of small bar is ½"
C. Horizontal bars (large and small) telescope to fit various window widths
D. Window openings should not exceed 4 inches above the top horizontal bar (as indicated on the guard by an arrow)
E. Emergency release button (each guard has 4)
F. Each end post is ¾" wide x ¾" deep
G. End posts screw into window frame or molding from sides or front (4 screws per guard)

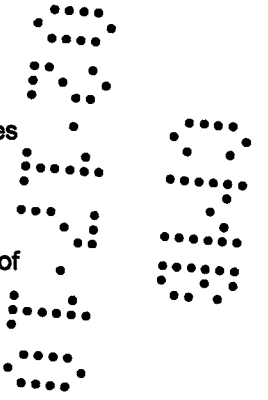
Warnings

- There should be no openings exceeding 4 inches anywhere in the guarded area.
- Telescoping bars can only be installed horizontally in a double hung window. Never install a guard horizontally in a casement or sliding window. The guard can act like a ladder and your child can fall through the unguarded area of the window.

Window Guards for Casements and Sliders

- The end posts are available in three widths within each height range: 13 inches, 17 inches, and 21 3/4 inches (see chart below). You may need more than one guard to cover the width of your window. Contact Automatic Specialties at 1-800-445-2370 for assistance with sizing your window. The vertical window guards can be installed next to each other.

- Vertical style guards come with 3, 4, or 5 vertical bars and these bars telescope to fit various window heights. The examples following are the 3558 model, which expands from 35 to 58 inches high.



- The last two digits in the model number stand for the number of emergency release buttons and number of bars, respectively. For example, the 3558-43V model expands 35 to 58 inches in height, has 4 emergency release buttons and three bars. Vertical style guards have 4 emergency release buttons. The V stands for vertical.

- There are 6 heights available, see chart below. If your window height falls right on the edge of a range, it is better to go with the larger height range. For example, if the height you want to cover is 23 inches, go with the 23 to 35 inch model.

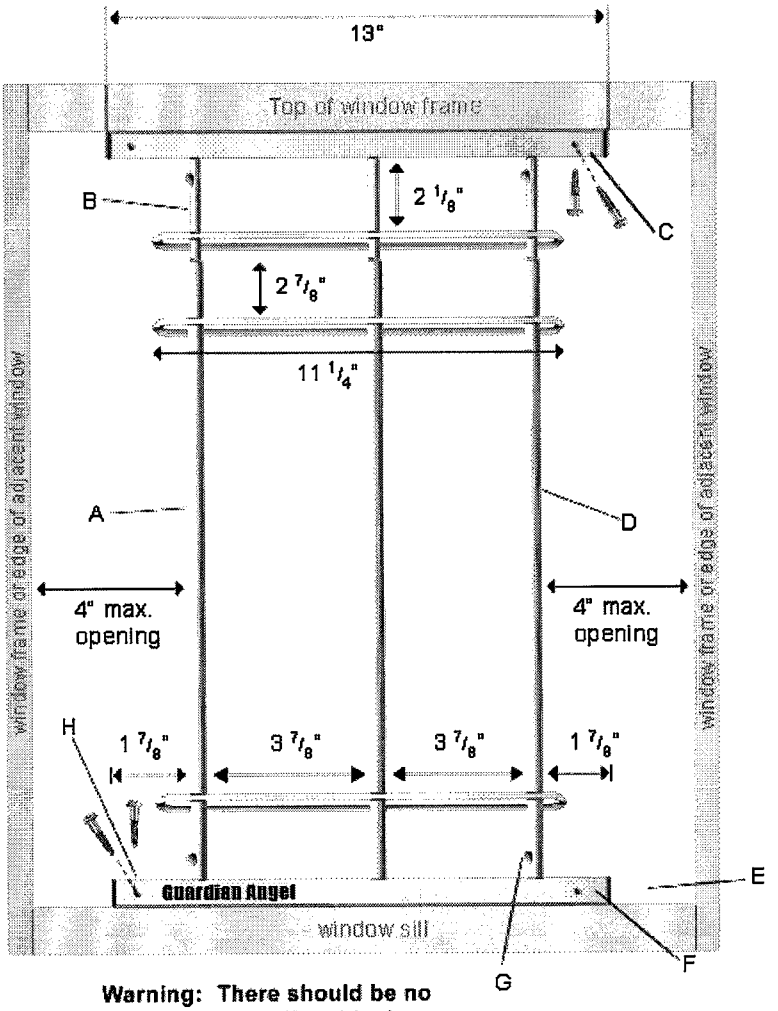
- Designed to conform to the safety standards for window fall prevention devices set forth by the American Society for Testing and Materials (ASTM F2090-01a), and recognized by the U.S. Consumer Products and Safety Commission.

Window Height (inches)	Models
14 to 17	1417-43V (13" width of end post) 1417-44V (17 3/8" width of end post) 1417-45V (21 3/4" width of end post)
17 to 23	1723-43V (13" width of end post) 1723-44V (17 3/8" width of end post) 1723-45V (21 3/4" width of end post)
23 to 35	2335-43V (13" width of end post) 2335-44V (17 3/8" width of end post) 2335-45V (21 3/4" width of end post)

Window Height (inches)	Model
35 to 58	3558-43V (13" width of end post) 3558-44V (17 3/8" width of end post) 3558-45V (21 3/4" width of end post)
58 to 90	5890-43V (13" width of end post) 5890-44V (17 3/8" width of end post) 5890-45V (21 3/4" width of end post)
90 to 120	7320-43V (13" width of end post) 7320-44V (17 3/8" width of end post) 7320-45V (21 3/4" width of end post)

See following pages for illustrations.

Example
Model 3558-43V



Warning: There should be no openings exceeding 4 inches anywhere in the guarded area.

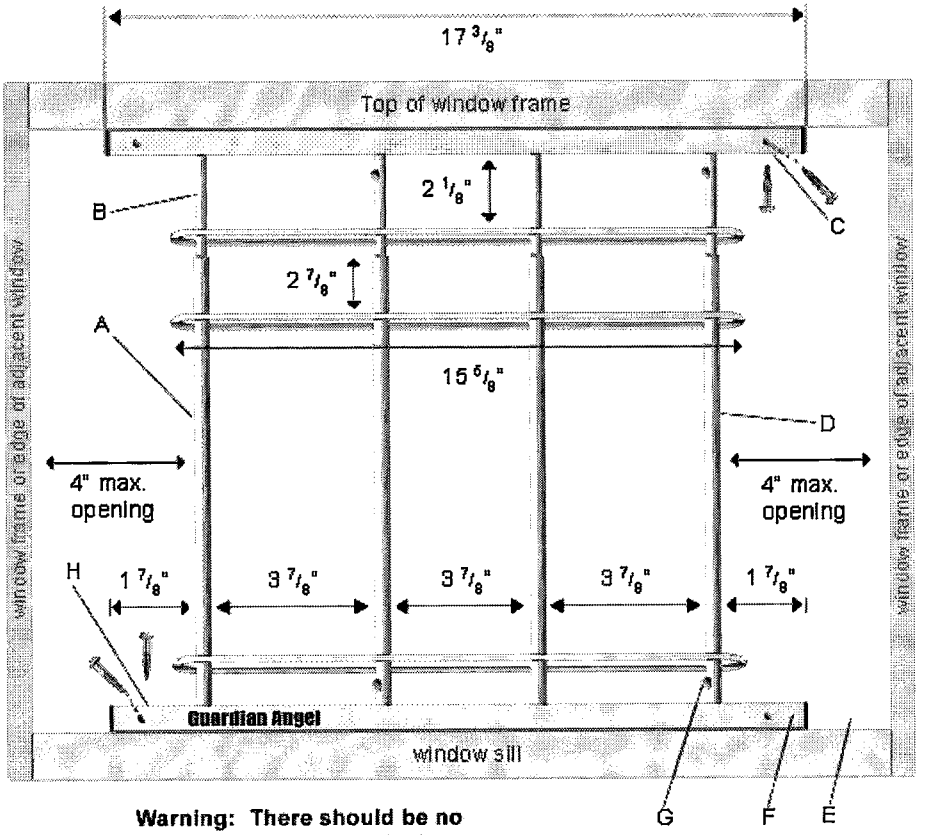
A. Diameter of large bar is 5/8"
B. Diameter of small bar is ½"
C. End post screws into top of window frame or molding from bottom or front (4 screws per guard)
D. Vertical bars telescope to fit various heights
E. Do not install guard more than 2 inches from edge of frame
F. Each end post is ¾" wide x ¾" deep
G. Emergency release button (each guard has 4)
H. End post screws into bottom of window frame or molding from top or front (4 screws per guard)

Warnings

- There should be no openings exceeding 4 inches anywhere in the guarded area.
- Telescoping bars can only be installed horizontally in a double hung window. Never install a guard horizontally in a casement or sliding window. The guard can act like a ladder and your child can fall through the unguarded area of the window.

Continued

Example
Model 3558-44V



Warning: There should be no openings exceeding 4 inches anywhere in the guarded area.

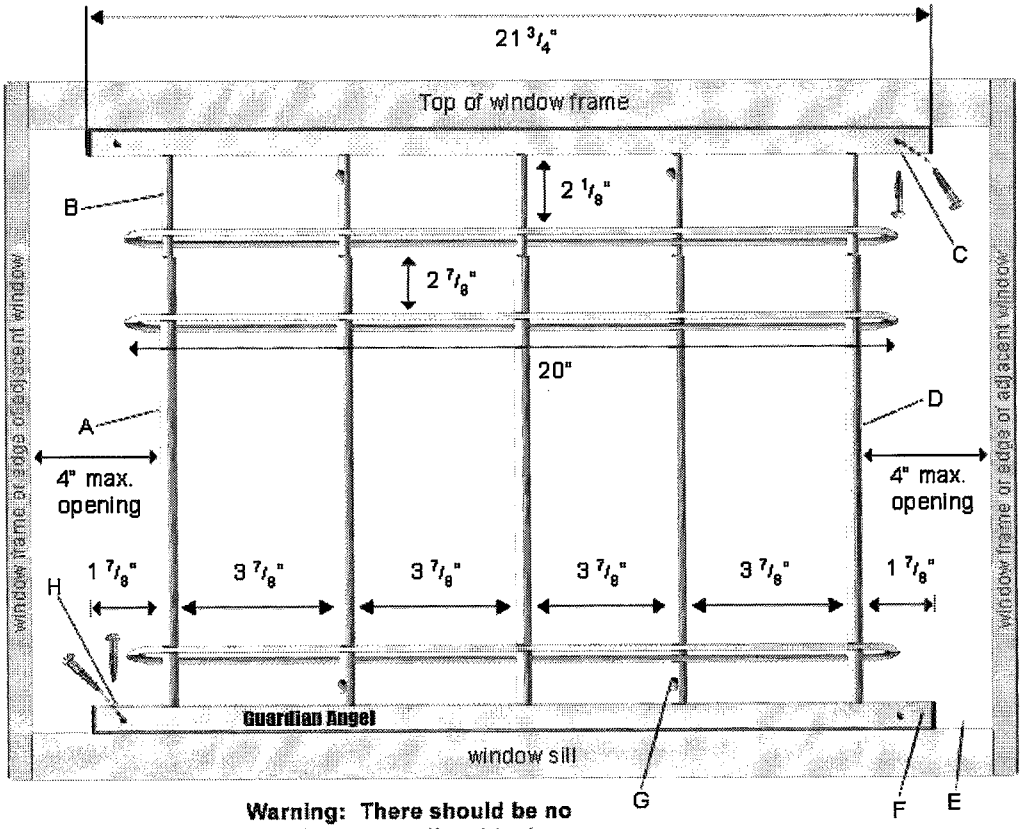
A. Diameter of large bar is 5/8"
B. Diameter of small bar is ½"
C. End post screws into top of window frame or molding from bottom or front (4 screws per guard)
D. Vertical bars telescope to fit various heights
E. Do not install guard more than 2 inches from edge of frame
F. Each end post is ¾" wide x ¾" deep
G. Emergency release button (each guard has 4)
H. End post screws into bottom of window frame or molding from top or front (4 screws per guard)

Warnings

- There should be no openings exceeding 4 inches anywhere in the guarded area.
- Telescoping bars can only be installed horizontally in a double hung window. Never install a guard horizontally in a casement or sliding window. The guard can act like a ladder and your child can fall through the unguarded area of the window.

Continued

Example
Model 3558-45V



Warning: There should be no openings exceeding 4 inches anywhere in the guarded area.

A. Diameter of large bar is 5/8"
B. Diameter of small bar is ½"
C. End post screws into top of window frame or molding from bottom or front (4 screws per guard)
D. Vertical bars telescope to fit various heights
E. Do not install guard more than 2 inches from edge of frame
F. Each end post is ¾" wide x ¾" deep
G. Emergency release button (each guard has 4)
H. End post screws into bottom of window frame or molding from top or front (4 screws per guard)

Warnings

- There should be no openings exceeding 4 inches anywhere in the guarded area.
- Telescoping bars can only be installed horizontally in a double hung window. Never install a guard horizontally in a casement or sliding window. The guard can act like a ladder and your child can fall through the unguarded area of the window.

DESIGN WIND PRESSURE CALCULATIONS

CUSTOMER COMPANY NAME:

UNITY WINDOWS
7062 S.W. 4th St.
MIAMI, FLORIDA 33144
PHONE: (305) 261-2223

PROJECT:

Windows and Doors Installation at:

6437 NORTH BAY RD.
MIAMI BEACH, FLORIDA

JORGE LLAMA, P.E. # 60156, C.A. # 27710
A & A ENGINEERING
10010 S.W. 23rd TERRACE
MIAMI, FLORIDA 33165
TEL: (305) 992-3048

2/11/2010

2/12/10

DESING WIND PRESSURE CALCULATIONS - ASCE 7-05

Client: UNITY WINDOWS. 7062 S.W. 4th St.. MIAMI, FLORIDA 33144
Job: 6437 NORTH BAY RD.. MIAMI BEACH, FLORIDA

Design Pressures have been determined in accordance with ASCE 7-05 based on the following criteria:

Building Category: II
Exposure Category: C
Building Mean Roof Height (Ht): 22.5 ft.
Minimum Building Width: 86.5 ft.
Roof Slope: 3 :12 14.0 Deg.
Basic Wind Speed (V): 146 mph
Kz: 0.92
Kd: 0.85
I: 1

Design Velocity Pressure; q: $0.00256 \cdot Kz \cdot Kzt \cdot Kd \cdot V^2 \cdot I$
q: 42.88 psf

Internal Pressure Coefficient; Gcpi: ± 0.18
Design Pressure; P: q [(Gcp) ± (Gcpi)]

Notes:
1. Wind load calculations are based upon a mean roof height and tributary area as noted. Contractor shall verify mean roof height in field and notify if higher than noted.
2. "END Zones" pressure are applicable to openings that are within: 8.6 ft. of building corners.

Mk	Description	Width (inches)	Height (inches)	Trib.Area (Sq.Ft.)	Zone	Conf.	GCp		Design Press.(psf)	
							Max	Min	Positive	Negative
CA1	CASEMENT WINDOW	37	51 1/2	13.23	4	X	0.98	-1.08	49.68	-53.97
CA1a	CASEMENT WINDOW	37	51 1/2	13.23	5	X	0.98	-1.36	49.68	-65.91
CA2	CASEMENT WINDOW	19	39 1/2	5.21	4	X	1.00	-1.10	50.60	-54.89
CA2a	CASEMENT WINDOW	19	39 1/2	5.21	5	X	1.00	-1.40	50.60	-67.76
CA3	CASEMENT WINDOW	37	39 1/2	10.14	4	O	1.00	-1.10	50.56	-54.84
CA4a	CASEMENT WINDOW	73 3/4	63	16.13	5	XX	0.96	-1.33	49.03	-64.61
CA5a	CASEMENT WINDOW	19 1/8	39 3/4	5.27	5	X	1.00	-1.40	50.60	-67.76
CA6	CASEMENT WINDOW	37	39 1/2	10.14	4	X	1.00	-1.10	50.56	-54.84
CA6a	CASEMENT WINDOW	37	39 1/2	10.14	5	X	1.00	-1.40	50.56	-67.66
CA7a	CASEMENT WINDOW	55 1/2	39 1/2	7.61	5	XX	1.00	-1.40	50.60	-67.76
CA8	CASEMENT WINDOW	55 1/2	52	10.02	4	XX	1.00	-1.10	50.60	-54.88
CA8a	CASEMENT WINDOW	55 1/2	52	10.02	5	XX	1.00	-1.40	50.60	-67.74
CA9	CASEMENT WINDOW	84	50 1/2	9.81	4	XOX	1.00	-1.10	50.60	-54.89
CA9a	CASEMENT WINDOW	84	50 1/2	9.81	5	XOX	1.00	-1.40	50.60	-67.76
CA10	CASEMENT WINDOW	37	63	16.18	4	X	0.96	-1.06	49.02	-53.31
CA11	CASEMENT WINDOW	37	63	16.18	4	O	0.96	-1.06	49.02	-53.31
CA12	CASEMENT WINDOW	74	51 1/2	13.23	4	XX	0.98	-1.08	49.68	-53.97
CA13a	CASEMENT WINDOW	37	50 5/8	13.00	5	X	0.98	-1.36	49.74	-66.03

Mk	Description	Width (inches)	Height (inches)	Trib.Area (Sq.Ft.)	Zone	Conf.	GCp		Design Press.(psf)	
							Max	Min	Positive	Negative
PW1	FIXED WINDOW	36	64	10.82	4	O	0.99	-1.09	50.34	-54.63
PW2	FIXED WINDOW	36	83	18.64	4	O	0.95	-1.05	48.55	-52.84
PW3	FIXED WINDOW	36	93	22.19	4	O	0.94	-1.04	47.98	-52.27
PW4	FIXED WINDOW	72	16 1/2	7.66	4	O	1.00	-1.10	50.60	-54.89
SH1	SINGLE HUNG	53 1/8	50 5/8	9.33	4	OX	1.00	-1.10	50.60	-54.89
SH1a	SINGLE HUNG	53 1/8	50 5/8	9.33	5	OX	1.00	-1.40	50.60	-67.76
SH2	SINGLE HUNG	37	39 1/2	5.07	4	OX	1.00	-1.10	50.60	-54.89
SH2a	SINGLE HUNG	37	39 1/2	5.07	5	OX	1.00	-1.40	50.60	-67.76
SH3a	SINGLE HUNG	37	51 1/2	6.61	5	OX	1.00	-1.40	50.60	-67.76
SH4	SINGLE HUNG	19	39 1/2	2.60	4	OX	1.00	-1.10	50.60	-54.89
SH4a	SINGLE HUNG	19	39 1/2	2.60	5	OX	1.00	-1.40	50.60	-67.76
SH5	SINGLE HUNG	37	50 5/8	6.50	4	OX	1.00	-1.10	50.60	-54.89
SH5a	SINGLE HUNG	37	50 5/8	6.50	5	OX	1.00	-1.40	50.60	-67.76
SH6a	SINGLE HUNG	19 1/8	38 3/8	2.54	5	OX	1.00	-1.40	50.60	-67.76
FD1	FRENCH DOOR	61 1/2	81	17.29	4	XX	0.96	-1.06	48.80	-53.09
FD2	FRENCH DOOR	71 3/4	79 3/4	19.86	4	XX	0.95	-1.05	48.35	-52.63
FD3	FRENCH DOOR	37	81 1/2	20.94	4	X	0.94	-1.04	48.17	-52.46

GENERAL NOTES:

. 2 STORY BLDG. (22'-6" MEAN ROOF HEIGHT)
. BUILDING CATEGORY: II
. EXPOSURE 'C'
. ASSUME BUILDING FULLY ENCLOSED - ALL EXTERIOR OPENINGS ARE SHUTTERED OR IMPACT
. 146 M.P.H. WIND VELOCITY
. K.D. = 0.85
. ASCE 7-05 WIND CODE
. BASED UPON A MEAN ROOF HEIGHT & TRIBUTARY AREA AS SHOWN
. CONTRACTOR TO VERIFY DIMENSIONS

PRODUCT CONTROL APPROVAL:

. SERIES "C-740" ALUMINUM CASEMENT WINDOW-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 08-0117.11

. SERIES "PW-701" ALUMINUM FIXED WINDOW-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 08-1112.10

. SERIES "SH-700" ALUMINUM SINGLE HUNG WINDOW-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 07-0322.06

. SERIES FD-750 OUTSWING ALUMINUM FRENCH DOOR W/SIDELITES-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 07-0103.02

. 1"x4"x1/8" STD. WALL-ALUMINUM TUBE CLIPPED MULLIONS-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 06-0125.06

. 2" x HEAVY WALL-ALUMINUM TUBE CLIPPED MULLIONS-IMPACT
BY P.G.T. INDUSTRIES
ACCEPTANCE #: 06-0125.08

NOTES:
1. WINDOW FRAMES / MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE (REFER TO PRODUCTS CONTROLS).
2. ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR SIZES AND DESIGN PRESSURES ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS PERMIT.
3. THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE (I.E.: BEAMS, COLUMNS, FRAMING, ETC.) SHALL BE DESIGNED TO WITHSTAND THE LOADS POSED BY THE GLAZING. NO CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY.
4. EGRESS WINDOWS TO HAVE A MINIMUM OPENING AREA OF 5.7 SQ. FT. (5.0 SQ. FOR GROUND FLOOR) (FBC 1026.2), AND 24" HEIGHT MINIMUM, 20" WIDTH MINIMUM (FBC 1026.2.1)
5. EGRESS WINDOWS TO BE NOT MORE THAN 44" ABOVE THE FLOOR (FBC 1026.3)
6. (FBC 2411.5.1) WHERE THERE IS A DROP OF MORE THAN 4 FEET (1219 mm) ON THE FAR SIDE OF SUCH WINDOWS AND THE SILL IS LESS THAN 36 INCH (914 mm) ABOVE THE NEAR SIDE-WALKING SURFACE, SAFEGUARDS SHALL BE PROVIDED TO PREVENT THE FALL OF PERSONS WHEN SUCH WINDOWS ARE OPEN.

NOTE TO COMPLY WITH THE (FBC 2411.5.1):

WINDOW COMPANY SHALL PROVIDE A DEVICE (SASH STOP) THAT WILL PREVENT WINDOWS FROM OPENING MORE THAN 4" ON ALL OPENINGS WITH SILL HEIGHT LESS THEN 36" AFF. SEE NOTE #6
(42" HEIGHT SAFEGUARD RAIL BY OTHERS (NOT BY UNITY WINDOWS) AND IS NOT PART OF THIS PERMIT

LOAD TABLE FOR WINDOWS AND DOORS

MKS.	DESCRIPTION	WIDTH (Inches)	HEIGHT (Inches)	TRIBUT. AREA (Sq.Ft.)	ZONE	CONF.	DESIGN Press. +(psf)	DESIGN Press. -(psf)	APPROVED Press + (psf)	APPROVED Press - (psf)	MANUF.	RATING	GLAZE	PRODUCT APPROVAL N.O.A.#
CA1	CASEMENT WINDOW	37	51.5	13.23	4	X	49.68	-53.97	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA1a	CASEMENT WINDOW	37	51.5	13.23	5	X	49.68	-65.91	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA2	CASEMENT WINDOW	19	39.5	5.21	4	X	50.6	-54.89	70	-90	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA2a	CASEMENT WINDOW	19	39.5	5.21	5	X	50.6	-67.76	70	-90	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA3	CASEMENT WINDOW	37	39.5	10.14	4	O	50.56	-54.84	59	-59	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA4a	CASEMENT WINDOW	73.75	63	16.13	5	XX	49.03	-64.61	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA5a	CASEMENT WINDOW	19.125	39.75	5.27	5	X	50.6	-67.76	70	-90	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA6	CASEMENT WINDOW	37	39.5	10.14	4	X	50.56	-54.84	59	-59	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA6a	CASEMENT WINDOW	37	39.5	10.14	5	X	50.56	-67.66	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA7a	CASEMENT WINDOW	55.5	39.5	7.61	5	XX	50.6	-67.76	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA8	CASEMENT WINDOW	55.5	52	10.02	4	XX	50.6	-54.88	65.2	-65.2	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA8a	CASEMENT WINDOW	55.5	52	10.02	5	XX	50.6	-67.74	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA9	CASEMENT WINDOW	84	50.5	9.81	4	XOX	50.6	-54.89	70	-71.9	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA9a	CASEMENT WINDOW	84	50.5	9.81	5	XOX	50.6	-67.76	70	-71.9	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	08-0117.11
CA10	CASEMENT WINDOW	37	63	16.18	4	X	49.02	-53.31	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA11	CASEMENT WINDOW	37	63	16.18	4	O	49.02	-53.31	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA12	CASEMENT WINDOW	74	51.5	13.23	4	XX	49.68	-53.97	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
CA13a	CASEMENT WINDOW	37	50.625	13.0	5	X	49.74	-66.03	70	-75	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION B	08-0117.11
PW1	FIXED WINDOW	36	64	10.82	4	O	50.34	-54.63	80	-80	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	08-1112.10
PW2	FIXED WINDOW	36	83	18.64	4	O	40.55	-52.84	78	-78	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	08-1112.10
PW3	FIXED WINDOW	36	93	22.19	4	O	47.98	-52.27	74	-74	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	08-1112.10
PW4	FIXED WINDOW	72	16.5	7.66	4	O	50.6	-54.89	80	-80	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	08-1112.10
SH1	SINGLE HUNG	53.125	50.625	9.33	4	OX	50.6	-54.89	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH1a	SINGLE HUNG	53.125	50.625	9.33	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH2	SINGLE HUNG	37	39.5	5.07	4	OX	50.6	-54.89	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH2a	SINGLE HUNG	37	39.5	5.07	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH3a	SINGLE HUNG	37	51.5	6.61	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH4	SINGLE HUNG	19	39.5	2.6	4	OX	50.6	-54.89	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH4a	SINGLE HUNG	19	39.5	2.6	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH5	SINGLE HUNG	37	50.625	6.5	4	OX	50.6	-54.89	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH5a	SINGLE HUNG	37	50.625	6.5	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
SH6a	SINGLE HUNG	19.125	38.375	2.54	5	OX	50.6	-67.76	80	-80	PGT INDUSTRIES	IMPACT	5/16" LAMINATED OPTION A	07-0322.06
FD1	FRENCH DOOR	61.5	81	17.29	4	XX	48.8	-53.09	70	-80	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	07-0103.02
FD2	FRENCH DOOR	71.75	79.75	19.86	4	XX	48.35	-52.63	70	-80	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	07-0103.02
FD3	FRENCH DOOR	37	81.5	20.94	4	X	48.17	-52.46	70	-80	PGT INDUSTRIES	IMPACT	7/16" LAMINATED OPTION A	07-0103.02

GLASS DESCRIPTION

CASEMENT WINDOW, OPTION B:
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" HEAT STRENGTHENED GLASS
.090 INTERLAYER OF SOLUTIA OR DUPONT PVB
INTERIOR LITE: 1/8" HEAT STRENGTHENED GLASS
CASEMENT WINDOW, OPTION A:
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANNEALED GLASS
.090 INTERLAYER OF SOLUTIA OR DUPONT PVB
INTERIOR LITE: 1/8" HEAT STRENGTHENED GLASS
PICTURE WINDOW, OPTION A:
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANNEALED GLASS
.090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX KEEPSAFE MAXIMUM PVB
INTERIOR LITE: 3/16" HEAT STRENGTHENED GLASS
SINGLE HUNG, OPTION A:
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANNEALED GLASS
.090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB
INTERIOR LITE: 1/8" ANNEALED GLASS
FRENCH DOOR, OPTION A:
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANNEALED GLASS
.090" INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUN PVB
INTERIOR LITE: 3/16" HEAT STRENGTHENED GLASS

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By: _____ Date: _____

B1001667.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: 2/17/10
ZONING: 2/17/10
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS: 2-17-10
STRUCTURAL:
ELEVATOR: 2/17/10

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies. The City of Miami Beach does not interpret or enforce private covenants, restrictions, or declarations, or homeowner association requirements or other contracts between buyers and sellers of property, and cannot determine if any of the activities contemplated by this permit may violate such documents. The property owner is responsible for ensuring that all activities pursuant to this permit comply with all such documents and contracts.

2/12/10

DATE:	01/25/10
DRAWN BY:	A.A.D.S.
SCALE:	1/4"=1'
JOB #:	02-164-012210
CONTENT:	WINDOWS INSTALLATION
SHEET	1

UNITY WINDOWS
7062 S.W. 4th St.
Miami, FL. 33144
Tel: (305)-261-2223

Residence located at:
6437 NORTH BAY RD.
MIAMI BEACH, FLORIDA

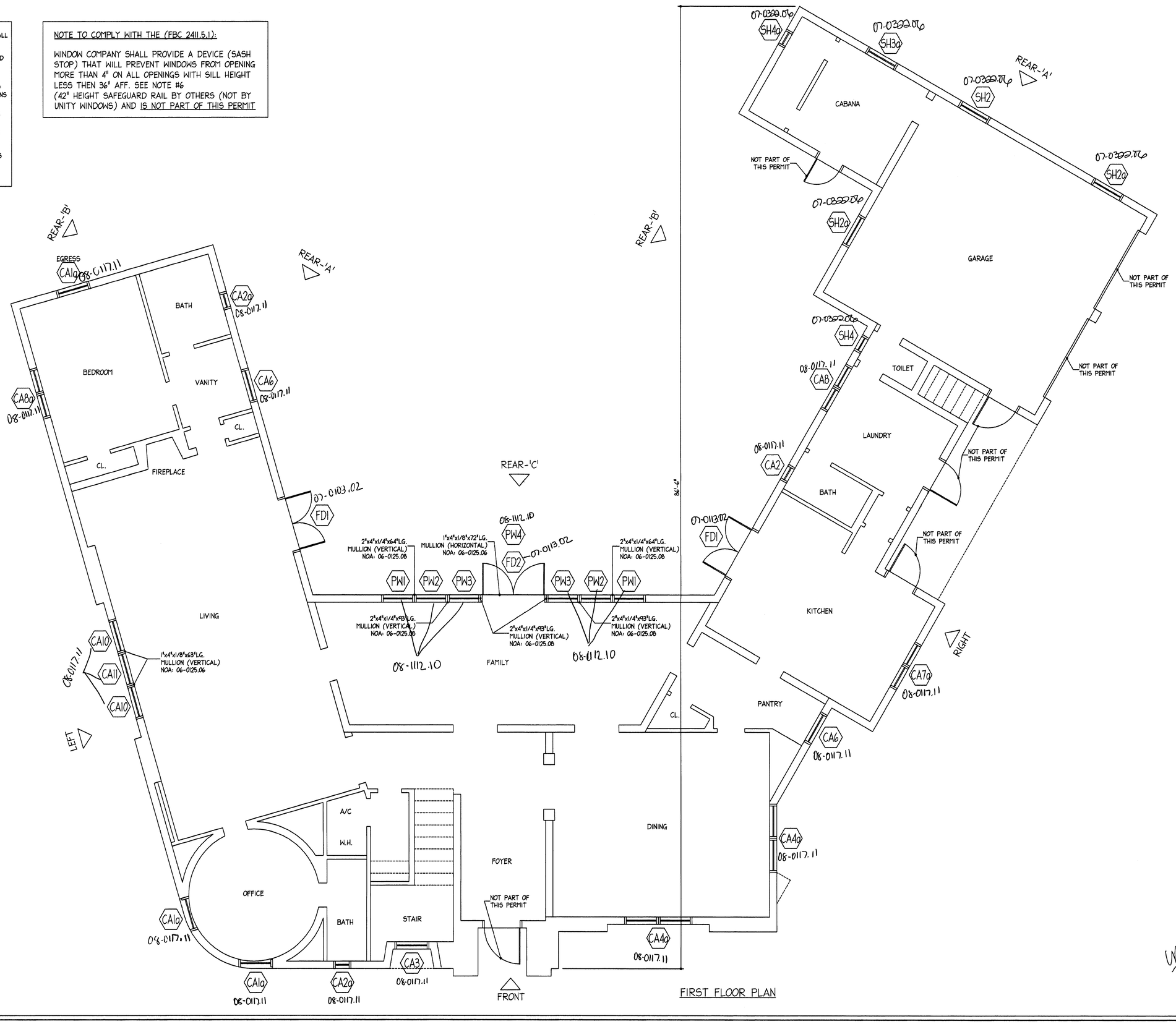
JORGE LLAMA
P.E. No.60156
C.A. No.27710
10010 SW 22nd TERRACE
MIAMI, FL. 33165
PHONE: 305-992-3048
e-mail:jorgellama@hotmail.com

STATE OF FLORIDA
JORGE LLAMA
No. 60156
STATE OF FLORIDA
ENGINEER

NOTES:
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4. EGRESS WINDOWS TO HAVE A MINIMUM OPENING AREA OF 5.7 SQ. FT. (5.0 SQ. FOR GROUND FLOOR) (FBC 1026.2), AND 24" HEIGHT MINIMUM, 20" WIDTH MINIMUM (FBC 1026.2.1)
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NOTE TO COMPLY WITH THE (FBC 2411.5.1):

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(42" HEIGHT SAFEGUARD RAIL BY OTHERS (NOT BY UNITY WINDOWS) AND IS NOT PART OF THIS PERMIT



FIRST FLOOR PLAN

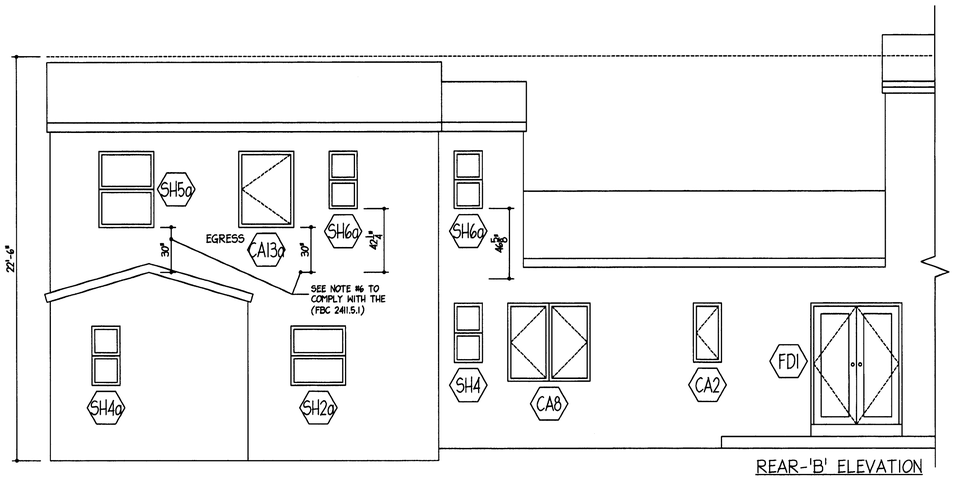
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DRAWN BY:	A.A.D.S.
SCALE:	1/4"=1'
JOB #:	02-164-012210
CONTENT:	WINDOWS INSTALLATION
SHEET	2

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7962 S.W. 4th St.
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Tel: (305)-261-2223

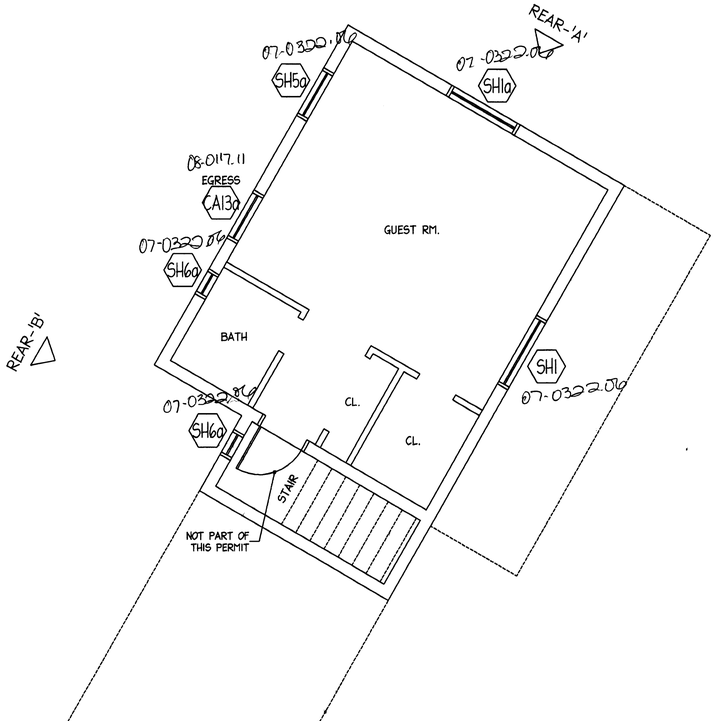
Residence located at:
6437 NORTH BAY RD.
MIAMI BEACH, FLORIDA

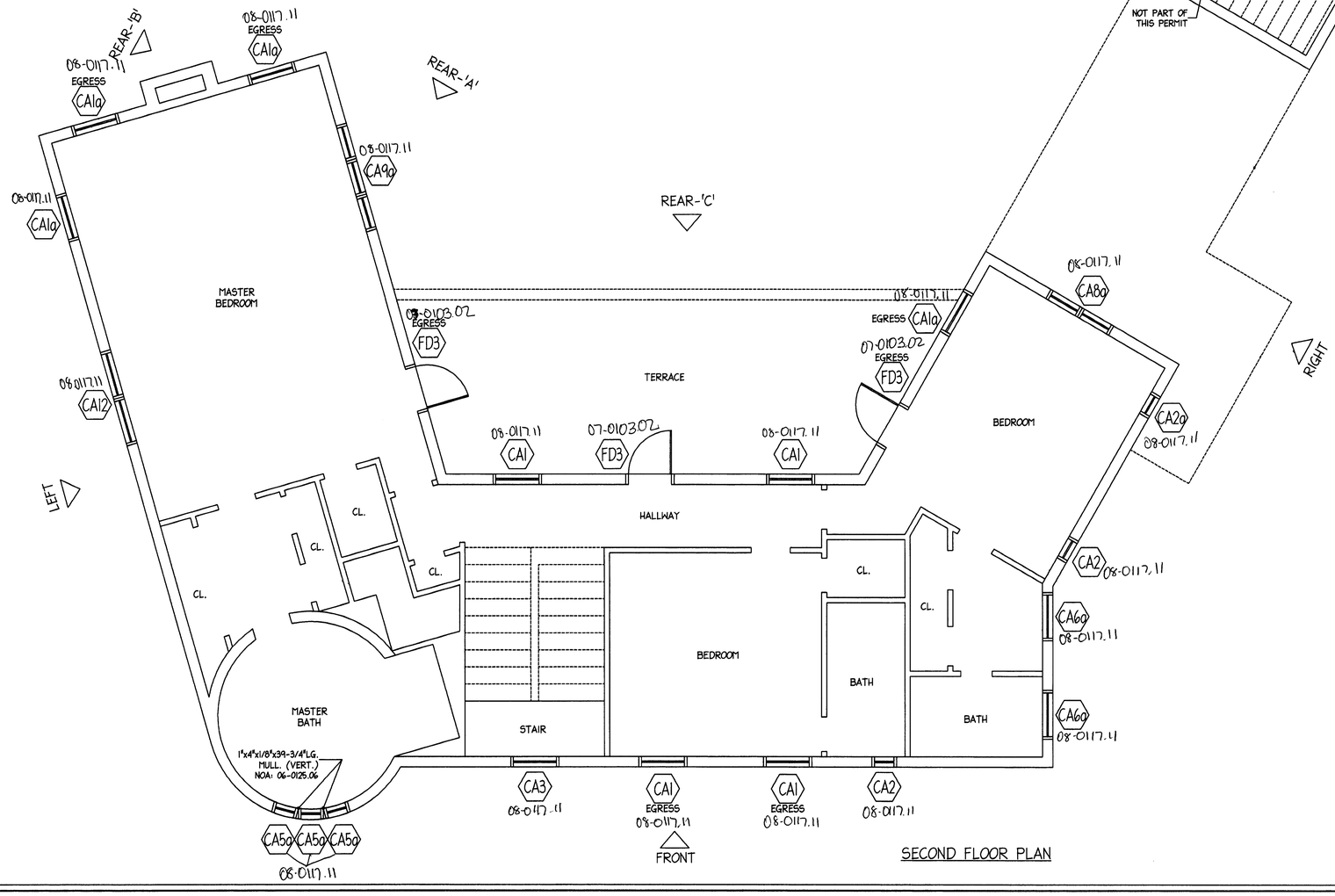
JORGE LLAMA
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10010 SW 23rd TERRACE
MIAMI, FL. 33165
PHONE: 305-992-3048
e-mail:jorgellama@hotmail.com

1/26/10



REAR-'B' ELEVATION





SECOND FLOOR PLAN

NOTES:
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5. EGRESS WINDOWS TO BE NOT MORE THAN 44" ABOVE THE FLOOR (FBC 1026.3)
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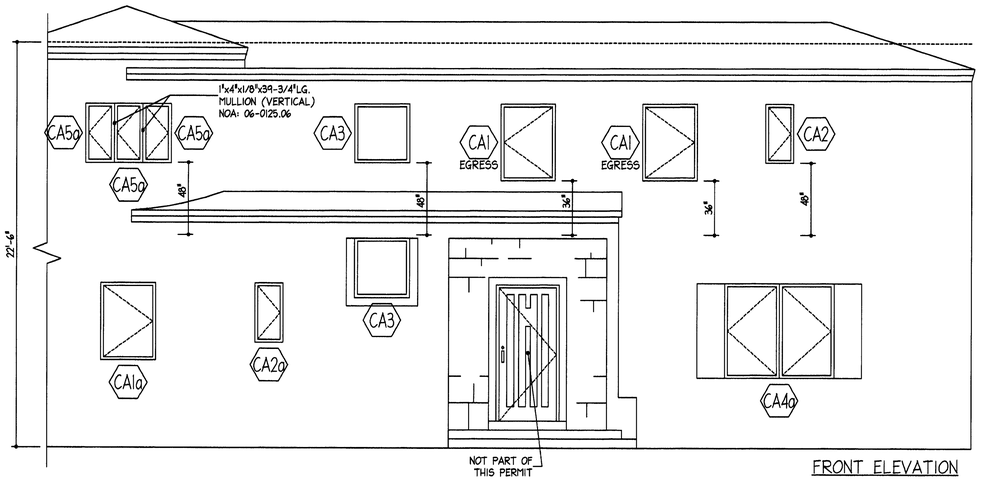
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DRAWN BY:	A.A.D.S.
SCALE:	1/4"=1'
JOB #:	02-164-012210
CONTENT:	WINDOWS INSTALLATION
SHEET	3

UNITY WINDOWS
7062 S.W. 4th St.
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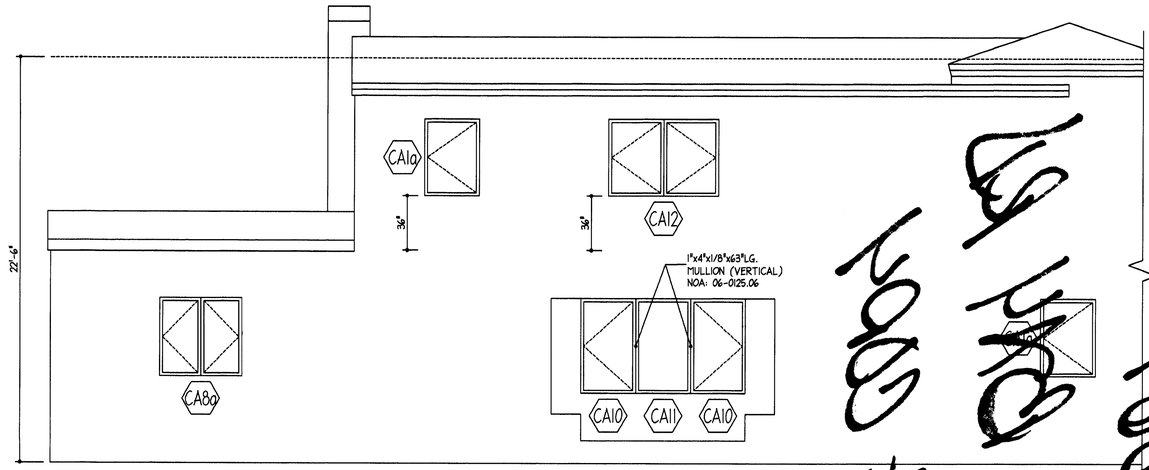
Residence located at:
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MIAMI BEACH, FLORIDA

JORGE LLAMA
P.E. No.60156
C.A. No.27710
10010 SW 23rd TERRACE
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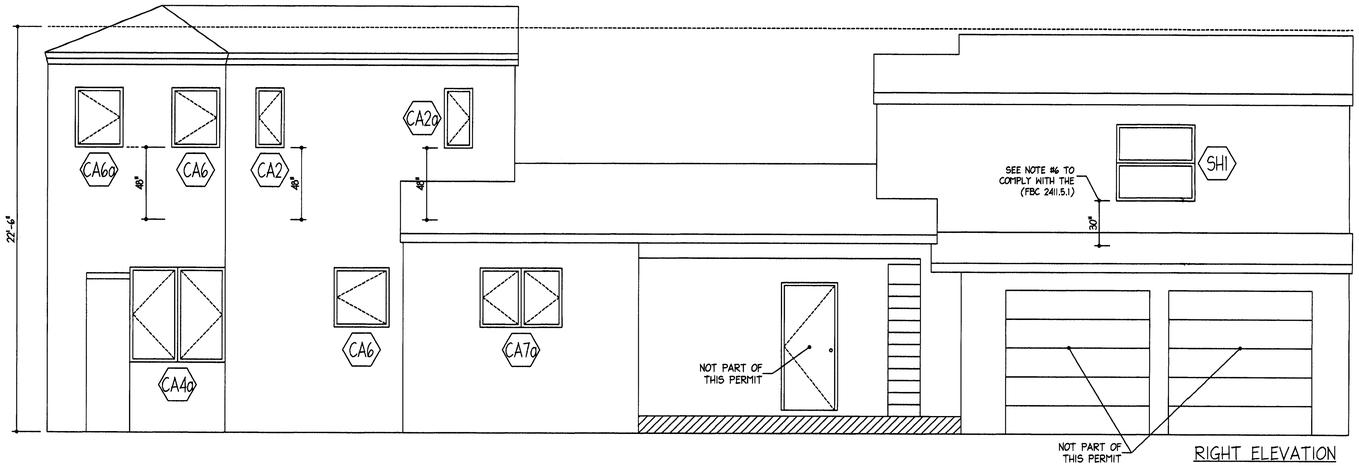
2/12/10



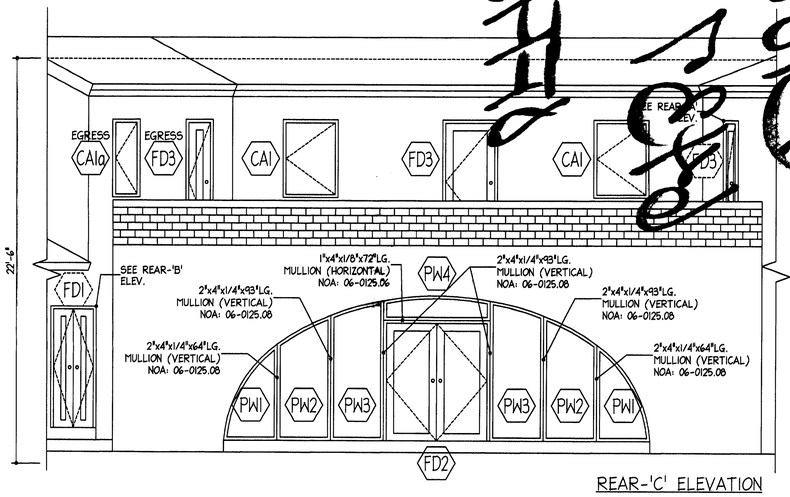
FRONT ELEVATION



LEFT ELEVATION



RIGHT ELEVATION

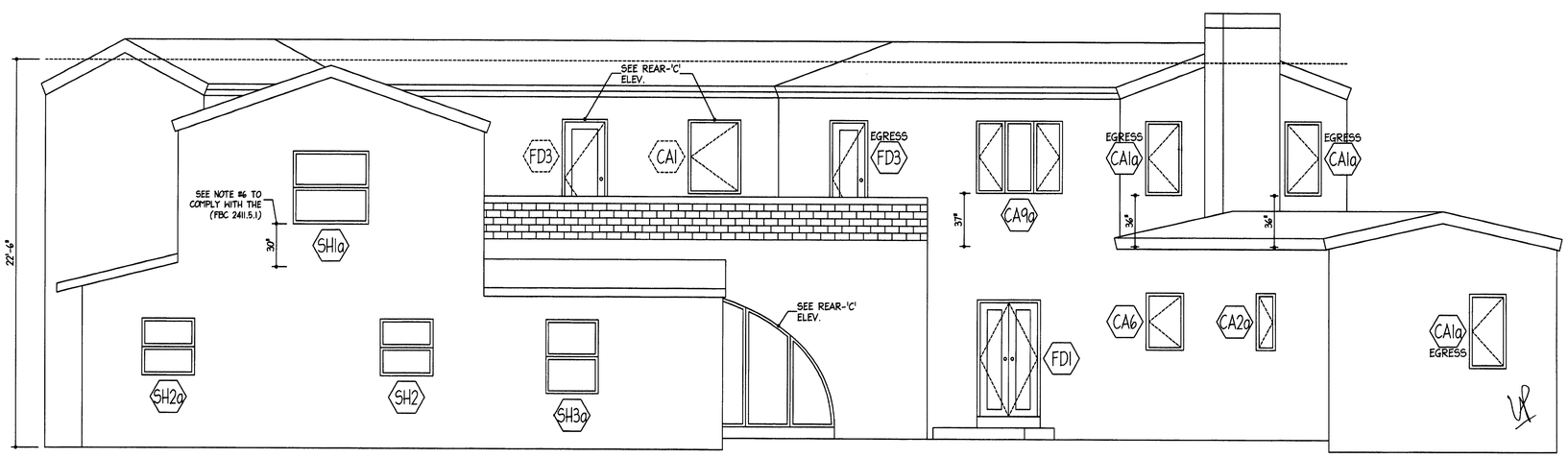


REAR-'C' ELEVATION

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4. EGRESS WINDOWS TO HAVE A MINIMUM OPENING AREA OF 5.7 SQ. FT. (5.0 SQ. FOR GROUND FLOOR) (FBC 1026.2), AND 24" HEIGHT MINIMUM, 20" WIDTH MINIMUM (FBC 1026.2.1)
5. EGRESS WINDOWS TO BE NOT MORE THAN 44" ABOVE THE FLOOR (FBC 1026.3)
6. (FBC 2411.5.1) WHERE THERE IS A DROP OF MORE THAN 4 FEET (1219 mm) ON THE FAR SIDE OF SUCH WINDOWS AND THE SILL IS LESS THAN 36 INCH (914 mm) ABOVE THE NEAR SIDE-WALKING SURFACE, SAFEGUARDS SHALL BE PROVIDED TO PREVENT THE FALL OF PERSONS WHEN SUCH WINDOWS ARE OPEN. GUARDIAN RAIL OR WINDOW GUARDS ATTACHED

NOTE TO COMPLY WITH THE (FBC 2411.5.1):

WINDOW COMPANY SHALL PROVIDE A DEVICE (SASH STOP) THAT WILL PREVENT WINDOWS FROM OPENING MORE THAN 4" ON ALL OPENINGS WITH SILL HEIGHT LESS THEN 36" AFF. SEE NOTE #6
(42" HEIGHT SAFEGUARD RAIL BY OTHERS (NOT BY UNITY WINDOWS) AND IS NOT PART OF THIS PERMIT



REAR-'A' ELEVATION

DATE: 01/25/10
DRAWN BY: A.A.D.S.
SCALE: 1/4"=1'
JOB #: 02-164-012210
CONTENT: WINDOWS INSTALLATION
SHEET 4

UNITY WINDOWS
7062 S.W. 4th St.
Miami, FL. 33144
Tel: (305)-261-2223

Residence located at:
6437 NORTH BAY RD.
MIAMI BEACH, FLORIDA

JORGE LLAMA
P.E. No.60156
C.A. No.27710
10010 SW 23rd TERRACE
MIAMI, FL 33165
PHONE: 305-992-3043
e-mail:jorgellama@hotmail.com

1/21/10

B1001667
6437 N BAY RD
OFFICE COPY

B1001667.

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY

THE FOLLOWING:

BUILDING: 2/17/10

ZONING: 2/17/10

DRAWINGS:

CONCURRENCY:

PLUMBING:

ELECTRICAL:

MECHANICAL:

FIRE PREVENTION:

ENGINEERING:

PUBLIC WORKS: 02.17.10

STRUCTURAL: 2/17/10

ELEVATOR:

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CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY

THE FOLLOWING:

BUILDING:

ZONING:

DRAWINGS:

CONCURRENCY:

PLUMBING:

ELECTRICAL:

MECHANICAL:

FIRE PREVENTION:

ENGINEERING:

PUBLIC WORKS:

STRUCTURAL:

B1100529

INTERIOR BATHROOM RENOVATION
6437 N. BAY ROAD
MIAMI BEACH, FLORIDA



AREA
OF WORK

LOCATION PLAN

DRAWING INDEX

ARCHITECURAL

C-1 COVER
A-1 EXISTING & PROPOSED
FLOOR PLAN

PLUMBING

P-1 PLUMBING PLANS

APPLICABLE CODES:
FLORIDA BUILDING CODE, 2007 -
EXISTING BUILDING CODE, 2007 EDITION
FLORIDA FIRE PREVENTION 2007 EDITION
NFPA 101 LIFE SAFETY CODE 2006 EDITION

1

SCOPE OF WORK:

ALTERATION LEVEL II

1. REMOVE & REPLACE EXISTING LAVATORY, WATER CLOSET, TUB & FIXTURES COUNTERS IN BATHROOM.
2. INSTALL NEW SHOWER IN BATH
3. INSTALL NEW TILE ON FLOORS & WALLS.
4. ADD NEW TILE FLOOR
5. INSTALL NEW BASE BOARD & PAINT

- NO STRUCTURAL
- NO MECHANICAL
- NO ELECTRICAL

NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies. The City of Miami Beach does not assume responsibility for accuracy or validity of plans which are approved subject to compliance with State, Federal and Local Laws, Rules and Regulations.

1

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CITY OF MIAMI BEACH
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THE FOLLOWING:
BUILDING
ZONING
PLANNING
CONCURRENCY
PLUMBING
ELECTRIC
MECHANICAL
FIRE PREVENT.
ENGINEERING
PUBLIC WORKS
STRUCTURAL
LANDMARK

Edward A. LANDERS, P.E.
CONSULTING ENGINEERS
7800 NW 148TH STREET, SUITE 309 MIAMI LAKES FL 33016
P.E. #36396
Tel. (305) 823-3938
Fax (305) 823-9355

PERMIT SET

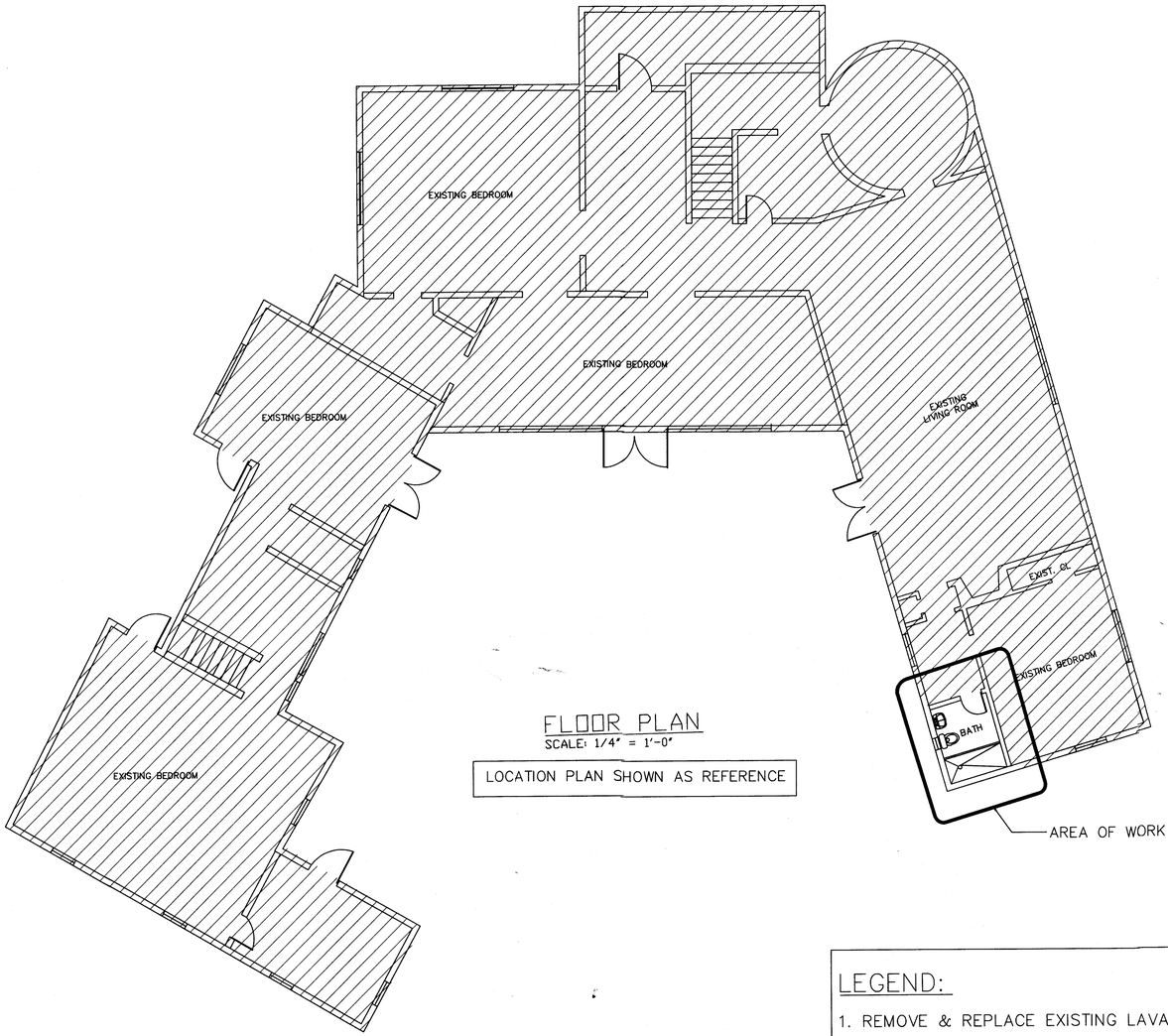
DWG INFO:

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Revisions	Date
Rev.	11-8-10

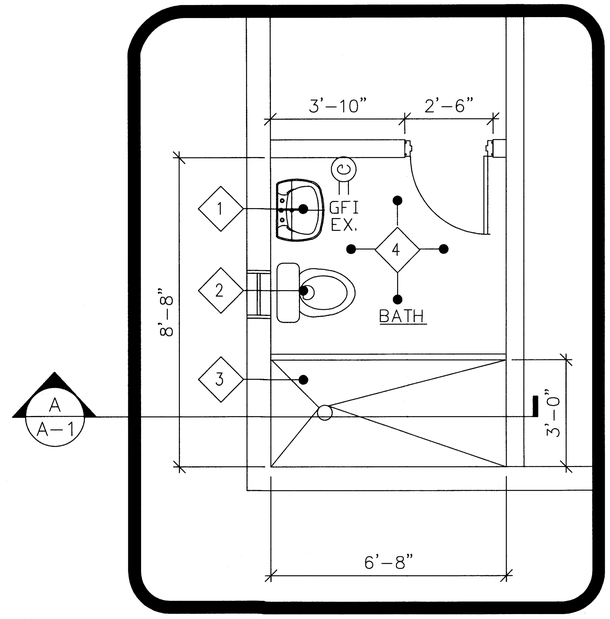
NEW BATH RENOVATION
6437 N BAY ROAD
MIAMI, FLORIDA

C-1
SHEET NUMBER



FLOOR PLAN
SCALE: 1/4" = 1'-0"

LOCATION PLAN SHOWN AS REFERENCE



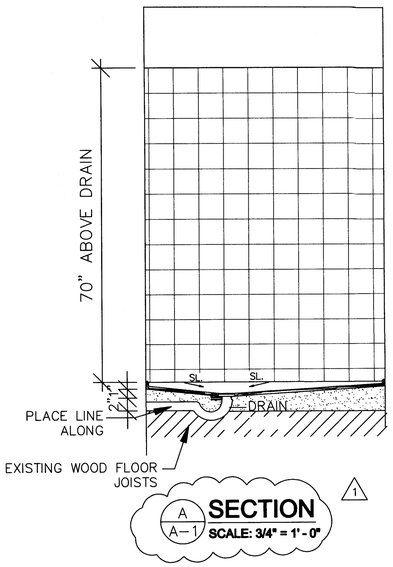
FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTES:

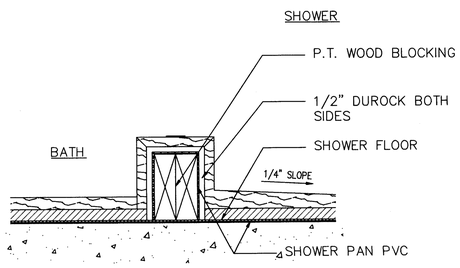
1. WALLS IN SHOWERS AND BATHTUBS MUST BE FINISHED WITH SMOOTH, NONABSORBENT SURFACE UP TO 70" ABOVE THE DRAIN INLET.
2. SHOWER HEADS TO RECEIVE ANTI SCALD VALVES
3. PLUMBING FIXTURES SHALL COMPLY WITH REFERENCE STANDARDS AS PER FBC 2007 SEC. P2701
4. SAFETY GLASS CATEGORY II ON SHOWERS DOOR
5. CEMENT BOARD FOR WET AREAS

LEGEND:

1. REMOVE & REPLACE EXISTING LAVATORY
2. REMOVE & REPLACE WATER CLOSET
3. INSTALL NEW SHOWER
4. INSTALL NEW TILE ON FLOORS & WALLS.



A/A-1 SECTION 1
SCALE: 3/4" = 1'-0"



SHOWER CURB 1
N.T.S

NOTE:
MUST SLOPE PAN AS PER MANUFACTURERS SPECIFICATIONS

NOTE:
INSTALL PORCELAIN TILES THROUGHUT

Edward A. LANDERS, P.E.
CONSULTING ENGINEERS
7850 NW 146TH STREET, SUITE 309, MIAMI LAKES FL 33016
P.E. #53368
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Fax (305) 823-9355

PERMIT SET

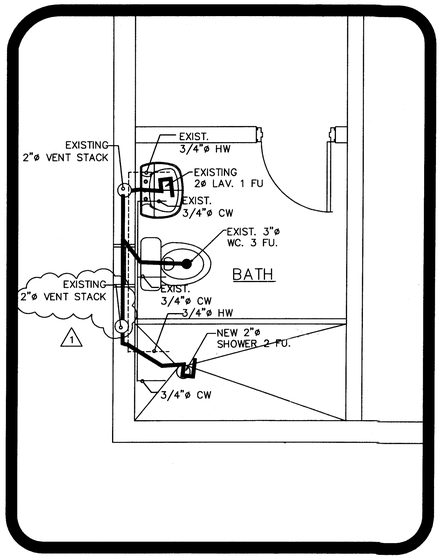
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Revisions	Date
Rev. 1	11-8-10

NEW **BATH RENOVATION**
6437 N BAY ROAD
MIAMI, FLORIDA

A-1
SHEET NUMBER



PLUMBING PLAN

SCALE: 3/16" = 1'-0"

PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF 2007 FLORIDA BUILDING CODE. LOCAL ORDINANCES, AND IN COMPLIANCE WITH THE FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION.
2. CONTRACTOR TO VERIFY AT SITE LOCATION THE ELEVATION AND SIZE OF EXISTING SEWER AND WATER MAINS FOR CONNECTION OF NEW SERVICES BEFORE INSTALLATION OF ANY PIPING.
3. UNDERGROUND METAL PIPING SHALL BE PROTECTED WITH COAT OF BITUMINOUS COMPOUND ("BITUMASTIC" OR EQUAL) BEFORE COVERING.
4. PROVIDE SHUT-OFF AND VACUUM BREAKER TO ALL HOSE BIBS AND FAUCETS WITH HOSE-END CONNECTIONS.
5. ALL FIXTURES SHALL BE PROTECTED AGAINST WATER HAMMER WITH AIR CHAMBERS OR SHOCK ABSORBERS.
6. PLUMBING FIXTURES SHALL BE AS PER EQUIPMENT SCHEDULE, OR APPROVED EQUAL. ALL FIXTURE TRIM SHALL BE CHROME PLATED. FIXTURES SHALL BE PROVIDED WITH SUPPORTS, HANGERS, ETC.
7. WASTE LINES SHALL SLOPE 1/8" PER FOOT, UNLESS OTHERWISE NOTED.
8. PROVIDE FULLY ACCESSIBLE CLEANOUTS ON SANITARY AND ANY WASTE PIPING AT EVERY CHANGE OF DIRECTION AND AT BOTTOM OF STACKS. CLEANOUT LOCATIONS AND SIZES ON HORIZONTAL LINES SHALL BE ACCORDING TO CODE.
9. VENT LINES SHALL EXTEND 6" MINIMUM ABOVE ROOF AND FLASHED WITH LEAD OR CONNECTED TO EXISTING VENT LINES.
10. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS TO PROTECT THE SEAL OF THE TRAP.
11. PROVIDE CONTROL VALVES TO ALL MAINS ENTERING THE BUILDING, RISERS, BRANCHES, GROUPS OF FIXTURES AND TO EACH PIECE OF EQUIPMENT.
12. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS, MODIFICATIONS TO EXISTING CONDITIONS, LOCATIONS, AND DIMENSIONS AFFECTING HIS WORK, AS SHOWN AND/OR NOTED ON THE DRAWINGS.
13. ALL WORK SHALL CONFORM TO THE SOUTH FLORIDA BUILDING CODE, NFPA, AND U.L. REQUIREMENTS.
14. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ALL DEFECTIVE MATERIALS AND INFERIOR WORKMANSHIP FOR THE GUARANTEE PERIOD AT NO COST TO THE OWNER INCLUDING ALL LABOR REQUIRED TO CORRECT THE DEFECTIVE WORK.
15. CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED TO PROCESS THE WORK.

DOMESTIC WATER PIPING:

1. UNDERGROUND, GALVANIZED STEEL PIPE, SCHEDULE 40 SCREWED (ASTM A-120-78) WITH MALLEABLE IRON FITTING GALVANIZED TO MATCH PIPE. ANSI B 16.3-71, ASTM A-197-47, OR CAST IRON FLANGED FITTINGS (ANSI B 16.1). PIPE SHALL BE PROTECTED WITH COAT OF BITUMINOUS COMPOUND. COPPER TUBING TYPE K (ASTM B-88-75), ACCEPTABLE ALTERNATE.
2. ABOVE GROUND: GALVANIZED STEEL PIPE, SCHEDULE 40 SCREWED (ASTM A-120-78) WITH MALLEABLE IRON FITTINGS GALVANIZED TO MATCH PIPE. ANSI B 16.3-71, ASTM A-197-47 OR CAST IRON FLANGED FITTINGS (ANSI B 16.1). COPPER WATER TUBING, TYPE L, ASTM B-88-75 WITH WROUGHT COPPER FITTINGS, ANSI B 16.22-73.
3. INSULATION: ALL HOT WATER PIPE, SUPPLY AND RETURN SHALL BE INSULATED WITH FIBERGLASS MOLDED INSULATION WITH PRE-SIZED FACTORY APPLIED FRJ JACKET OF GLASS CLOTH WITH LONGITUDINAL LAP AND BUTT JOINT STRIPS WITH SELF SEALING ADHESIVE. INSULATION SHALL BE "OWENS-CORNING" ASJ/SSL-11, OR APPROVED EQUAL. MAXIMUM FLAME SPREAD 25 RATED BY U.L.
4. THICKNESS PIPE SIZE:
   1-1/4" TO 2" AND UNDER - 1" TH INSULATION
   1" AND UNDER - 1" TH INSULATION
   RUNS OUT TO FIXTURES - 1/2" INSULATION
5. PIPE HANGERS AND SUPPORTS:
   PROVIDE ADJUSTABLE HANGERS, INSERTS, BRACKETS, ROLLS, CLAMPS AND SUPPLEMENTARY STEEL AS REQUIRED FOR PROPER SUPPORT OF PIPE LINES. HANGERS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPE LINES AND COVERING TO RUN CONTINUOUSLY THROUGH HANGERS.
6. SPACING AND SIZES:
   A. HORIZONTAL CARBON STEEL PIPE:

PIPE SIZE	ROD DIAMETER	MAXIMUM SPACING
UP TO 1-1/4"	3/8"	8'
1-1/2" AND 2"	3/8"	10'

   B. HORIZONTAL COPPER PIPING:

PIPE SIZE	ROD DIAMETER	MAXIMUM SPACING
UP TO 1"	3/8"	6'
1-1/4" AND 1-1/2"	3/8"	6'
2"	3/8"	8'

THE PLUMBING CONTRACTOR SHALL COORDINATE THE LOCAL UTILITY COMPANIES TO OBTAIN THE EXACT LOCATION OF THE POINT OF WATER, SEWER, AND ANY OTHER UNDERGROUND UTILITIES FOR THE SITE. THE PLUMBING CONTRACTOR SHALL VERIFY THE INFORMATION PRIOR TO BID. ALTHOUGH THE ENGINEER HAS OBTAINED THESE LOCATIONS FROM THE AGENCIES HAVING JURISDICTION AND BELIEVES THE INFORMATION AS SHOWN ON THE PLANS TO BE CORRECT, THIS DOES NOT RELIEVE THE PLUMBING CONTRACTOR OF THE RESPONSIBILITY TO DETERMINE THE LOCATIONS FOR HIMSELF. THE PLUMBING CONTRACTOR SHALL OBTAIN A DRAWING FROM THE UTILITY COMPANIES SHOWING THE EXACT LOCATION OF THE POINT OF CONNECTION PRIOR TO CONSTRUCTION.

PIPING MATERIALS:

1. SANITARY WASTE, VENT, AND STORM DRAIN:
   BELOW GROUND: "CAST IRON", SERVICE WEIGHT, PIPE AND FITTINGS ACCORDING TO ASTM A-74 HUB AND SPIGOT, OR;
   ABOVE GROUND: "CAST IRON", SOIL PIPE, "HUBLESS:, ACCORDING TO CISPI-301-78, ASTM A-74, WITH STAINLESS STEEL SHIELD AND CLAMPS OVER NEOPRENE SEALING SLEEVE.
   ALTERNATE: THE PLUMING CONTRACTOR MAY ELECT, IF APPROVED BY OWNER, TO USE THE FOLLOWING MATERIAL SPECIFICATION FOR WASTE, VENT AND STORM DRAIN SYSTEM: POLY VINYL CHLORIDE (PVC) PIPE AND FITTING (SCHEDULE 40). MATERIALS SHALL COMPLY WITH ASTM D-1784, TYPE 1, GRADE L COMPOUND. PIPE SHALL COMPLY WITH ASTM D-1785.

   SANITARY WASTE FROM HOUSE TO SEPTIC TANK SHALL BE P.V.C., SDR-30 ACCORDING TO ASTM-30 33/4.
2. FITTING SHALL COMPLY WITH ASTM D-2467 SOCKET TYPE. SOLVENT CEMENT SHALL COMPLY WITH ASTM D-2564.
3. CONDENSATE DRAINS FROM AIR CONDITIONING UNITS: "PVC" SCHEDULE 40 PIPE AND FITTINGS.
4. DOMESTIC WATER
   ABOVE GROUND: TYPE M COPPER PIPE WITH WROUGHT COPPER SOLDERED JOINT FITTINGS.
   BELOW GROUND: TYPE L COPPER PIPE ACCORDING TO ASTM B-42. TUBE ACCORDING TO ASTM B-88.
   ALTERNATE FOR UNDERGROUND PIPE: "CAST IRON" WATER PIPE ACCORDING TO ANSI A-21.6. STEEL PIPE (SCHEDULE 40, GALVANIZED) ACCORDING TO ASTM A-120-68.

   ALL CONTROL VALVES FOR DOMESTIC WATER SHALL BE CAST BRASS OR B-88 BRONZE GATE VALVES.

   PROVIDE DIELECTRIC FITTINGS FOR JOINING DISSIMILAR METALS.

TABLE 604.4 MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES, FIXTURE FITTINGS AND APPLIANCES	
PLUMBING FIXTURE OR FIXTURE FITTING	PLUMBING FIXTURE OR FIXTURE FITTING MAXIMUM FLOW RATE
LAVATORY FAUCET	1.5 GPM AT 60 PSI
SINK FAUCET	1.5 GPM AT 60 PSI
SHOWER HEAD	1.5 GPM AT 80 PSI
WATER CLOSET	1.28 GALLONS PER FLUSHING CYCLE

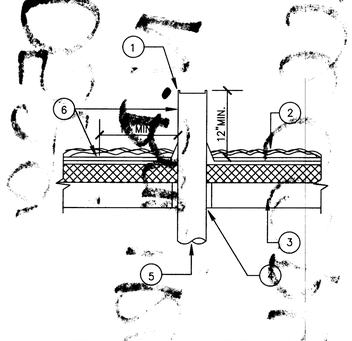
NOTE : THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES, FIXTURE, FITTINGS AND APPLIANCES SHALL BE IN ACCORDANCE WITH TABLE 604.4 EFFECTIVE JANUARY 1, 2009

ALL LINES 3" OR GREATER SHALL SLOPE A MIN. OF 1/8" PER FT.
LINES 2" OR SMALLER SHALL SLOPE MIN. A MIN. OF 1/4" PER FT.

LAV	LAVATORY, AMERICAN STANDARD 3003.605 VANETTE COUNTER TOP. FAUCET 2352.431 REGENCY CENTERSET WITH CROSS HANDLES.
WC	WATER CLOSET - FLUSH VALVE, BOWL; FLOOR MOUTED, SIPHON JET ACTION VITREOUS CHINA, ELONGATED RIM AND 2-1/2" TOP SPUD, AMERICAN STANDARD 2234.015 MADERA AQUAMETER, 1.28 GPF TOILET WITH A SLOAN #111 FLUSH VALVE ND A CHURCH #9500C OPEN FRONT SEAT LESS COVER.

PLUMBING FIXTURE LIST:

ALL FIXTURES AND TRIM SHALL BE PROVIDED BY OWNER/BUILDER, P.C. SHALL PROVIDE THE NECESSARY LABOR AND MATERIALS FOR INSTALLATION.

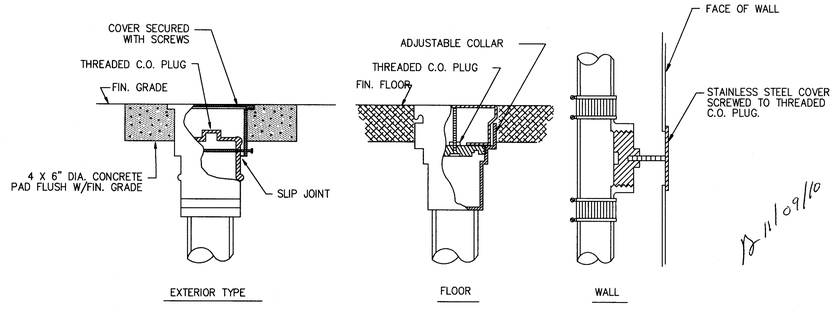


NOTES:

1. TURN LEAD FLASHING DOWN INTO STACK
2. ROOFING
3. ROOF CONSTRUCTION
4. SLEEVE ROOF CONSTRUCTION AS REQUIRED
5. VENT STACK
6. 4LB. SHEET LEAD FLASHING FILL IN WITH ROOFING MATERIAL
7. ANY VENT PIPE WITHIN 10' OF ANY DOOR WINDOW OR FRESH AIR INTAKE, EXHAUST OPENING SHALL EXTEND NOT LESS THAN 3' ABOVE SUCH

VENT THRU ROOF DETAIL

N.T.S.



TYPICAL CLEANOUT DETAIL

N.T.S.

Edward A. LANDERS, P.E.
CONSULTING ENGINEERS
7800 NW 146TH STREET, SUITE 109 MIAMI LAKES FL 33016
P.E. #036366
Tel. (305) 823-3938
Fax (305) 823-9355

PERMIT SET

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Revisions	Date
Rev.	11-8-10
1	

NEW BATH RENOVATION
6437 N BAY ROAD
MIAMI, FLORIDA

P-1
SHEET NUMBER

11-8-10

B1100529
6437 N. Bay Rd.
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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
CURRENT
ZONING
PLANNING:
HISTORIC:
ENVIRONMENTAL:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:

11/18/10
11/18/10
11/19/10 Initials
11/19/10 Initials
11/19/10 Initials
11/19/10 Initials N/A
11/19/10 Initials N/A
11/19/10
11/19/10

DRB
04-21-11

GENERAL NOTES

Contractor shall carefully examine the drawings and the project and is to check and verify all dimensions, elevations and other existing conditions before commencing work. The Contractor shall report any discrepancy to Architect in writing before commencing work. All work to comply with South Florida building code (latest edition) and all other applicable Federal, State, County and Municipal laws, codes and regulations.

The Contractor is to be solely responsible for construction means, techniques, sequences, procedures and for safety precautions and programs in connection with the work.

ELECTRICAL NOTES

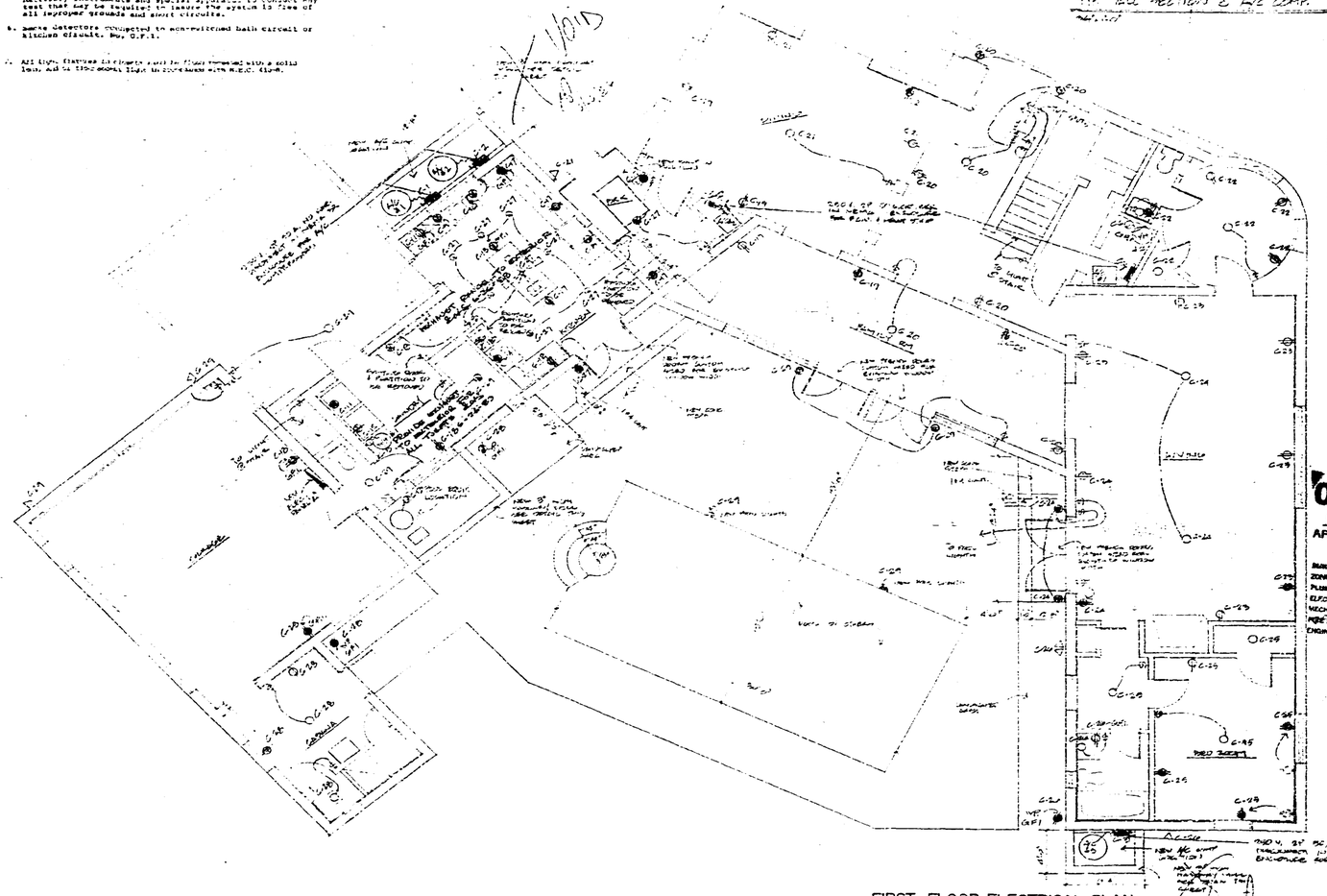
1. All electrical work shall comply with the national Electrical Code, South Florida building code and other applicable codes.
2. Cable and wire indicated on drawings shall be COPPER, 60 degrees C in sizes No. 14,12 and 10 AWG, 75 degrees C in sizes No. 8 and larger.
3. Conduit installed underground shall be PVC SCH. 40 conduit installed above ground shall be IMC. Conduit installed elsewhere shall be EMT. Flexible conduit used where indicated shall be "Seal-Tite".
4. Generally outlet locations may be scaled with reasonable accuracy. Outlets to be flush with finished surface. Two or more light switches in same wall shall be installed in gang type boxes.
5. Electrical contractor shall perform all necessary work for a complete electrical installation and shall provide all necessary instruments and special apparatus to conduct any test that may be required to insure the system is free of all improper grounds and short circuits.
6. Smoke detectors connected to non-switched hots circuit or kitchen circuit, Rev. O.F.I.
7. All light fixtures in closets must be flush mounted with a solid lens, and of fluorescent type in accordance with N.E.C. 410-8.

SCOPE OF WORK

1. NEW ELECTRICAL SERVICE & ALARM SYSTEM
2. NEW UNDERGROUND FEEDERS TO BLDG
3. NO PANEL IN EXISTING BUILDING
4. NO PLASTER WORK
5. RE-PAINT INTERIOR AND EXTERIOR
6. NEW H/C WATER.

SYMBOL LEGEND

- NEW E.U. SYSTEM
- NEW UNIT FIXTURE
- EXISTING SEC. SYSTEM TO REMAIN
- EXISTING LIGHTS TO REMAIN
- EXISTING SYSTEM TO BE REMOVED AS SHOWN



E-1

CIRCUIT NO.	LOAD	AMPS	POLES	KW LOAD	KW DEMAND
1	[illegible]	100	2	10.0	[illegible]
3	[illegible]	20	2	4.0	[illegible]
5	[illegible]	20	2	4.0	[illegible]
7	[illegible]	20	2	4.0	[illegible]
9	[illegible]	20	2	4.0	[illegible]
11	[illegible]	30	2	4.5	[illegible]
13	[illegible]	30	2	4.5	[illegible]
15	[illegible]	20	1	1.5	[illegible]
16	[illegible]	20	1	1.5	[illegible]
17	[illegible]	20	1	1.5	[illegible]
18	[illegible]	20	1	1.5	[illegible]
19	[illegible]	20	1	1.5	[illegible]
20	[illegible]	20	2	4.0	[illegible]
21	[illegible]	60	1	1.5	[illegible]
23	[illegible]	20	1	1.5	[illegible]
25	[illegible]	20	1	1.5	[illegible]
27	[illegible]	20	1	1.5	[illegible]
29	[illegible]	20	1	1.5	[illegible]
31	[illegible]	20	1	1.5	[illegible]
33	[illegible]	20	1	1.5	[illegible]
35	[illegible]	20	1	1.5	[illegible]
37	[illegible]	20	1	1.5	[illegible]
39	[illegible]	20	1	1.5	[illegible]
41	[illegible]	20	1	1.5	[illegible]
43	[illegible]	20	1	1.5	[illegible]

[illegible] SPACE

[illegible] SPACE

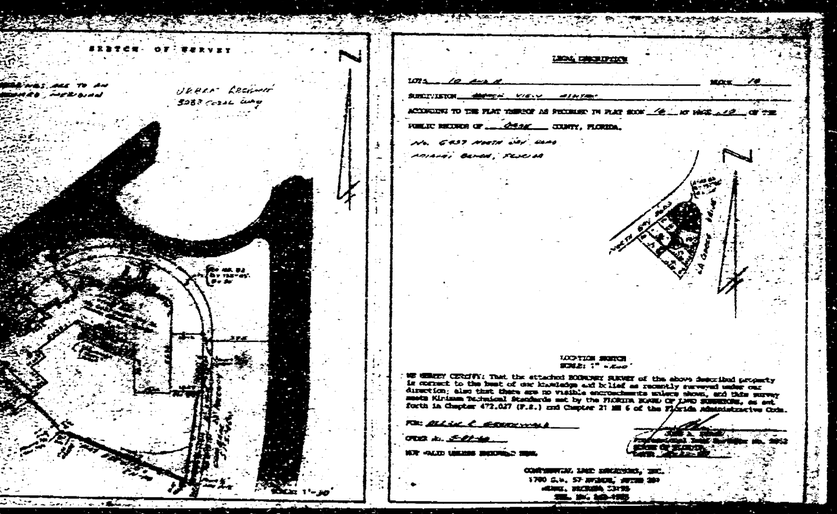
[illegible] SPACE

58900314

PERMIT #

B59-00322

ADDRESS :



SKETCH OF SURVEY

LEGAL DESCRIPTION

LOT 10 BLK 8 BLOCK 8

SUBDIVISION OCEAN VIEW ESTATES

ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 16 AT PAGE 12 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

A/K/A 6637 NORTH 30TH LANE
ORLANDO, ORANGE, FLORIDA

LOCATION SKETCH
SCALE: 1" = 1000'

I HEREBY CERTIFY: That the attached BOUNDARY SURVEY of the above described property is correct to the best of our knowledge and belief as recently surveyed under our direction; also that there are no visible encroachments unless shown, and that survey meets Minimum Technical Standards set by the FLORIDA BOARD OF LAND SURVEYORS, as set forth in Chapter 472.027 (F.S.) and Chapter 21 HH 6 of the Florida Administrative Code.

FOR: BELLA E. RODRIGUEZ

DATED: 5-21-96

NOT VALID UNLESS EMBOSSED SEAL

CONTINENTAL LAND SURVEYORS, INC.
1780 S.R. 434 WEST, SUITE 209
ALTAMONTE SPRINGS, FLORIDA 32714
PHONE: (407) 869-4700

9

CONSTRUCTION SERVICES DEPARTMENT

E.P.#90-0372

ENGINEERING PLANS REVIEW

LEGAL DESCRIPTION: Lots 10 & 11, Block 14, Beach View Addition

LEGAL ADDRESS: 6437 N. Bay Road

PLAN DESCRIPTION: Swimming Pool

THE ABOVE PLAN SUBMITTED TO THIS DEPARTMENT NEEDS THE FOLLOWING CORRECTIONS:

GARBAGE FACILITIES: To use existing facilities.

SANITARY SEWER: To use existing facilities.

WATER: To use existing facilities.

DRAINAGE: Side yards to be sloped so as to not shed water to neighboring properties.

Swimming pool waste water must discharge to drywell drainage well, to be located on private property.

GRADES: N/A

ENCROACHMENTS/EASEMENTS: None.

PUBLIC SERVICES DEPARTMENT PERMITS REQUIRED FOR WORK DONE ON CITY PROPERTY.

COMMENTS: Public Services Department street permit required for work done on city property.

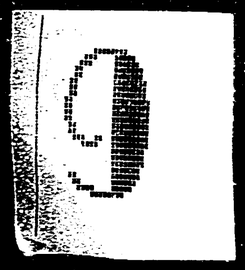
Bond required $350.00

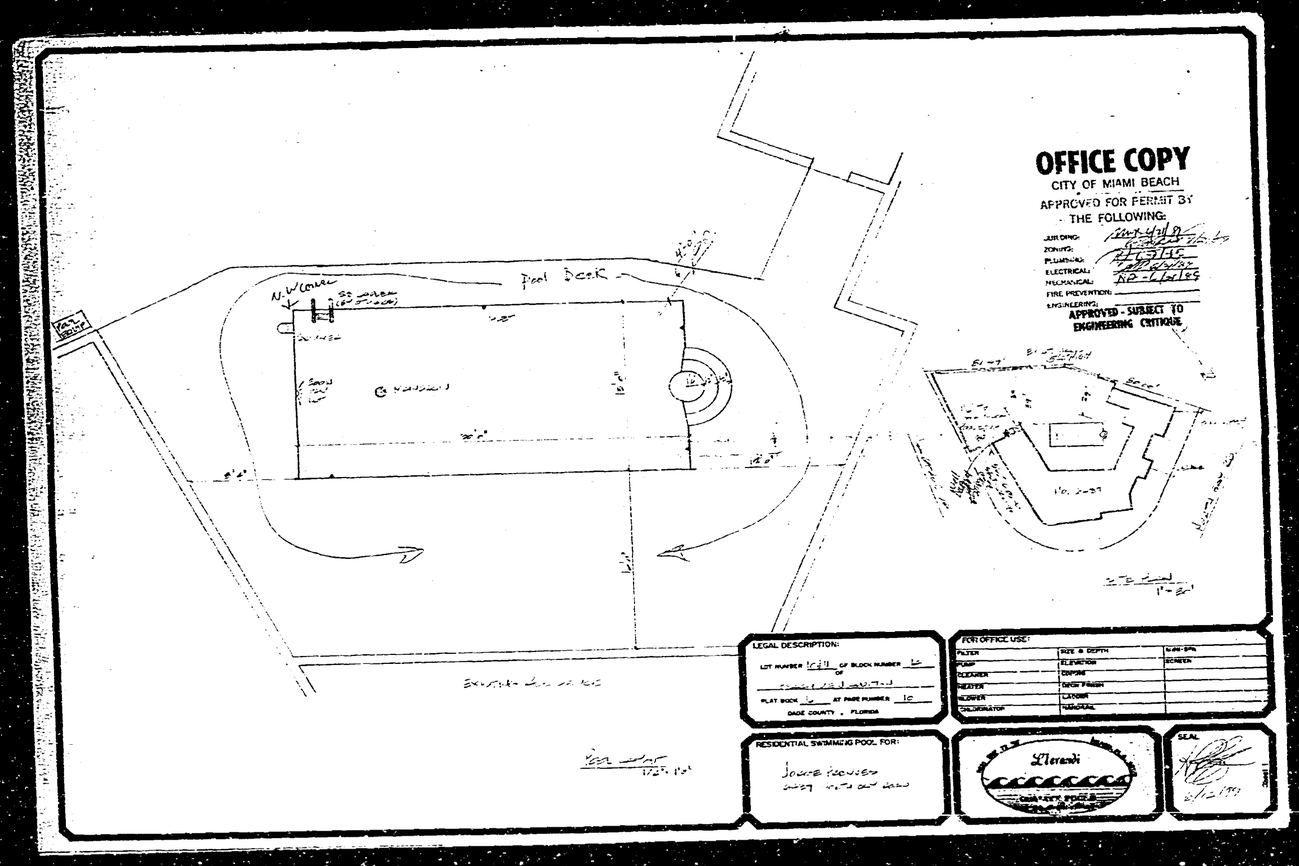
SIGNATURE [signature] COMPANY Hendricks City Pools PHONE NO. 275-2201

APPROVED FOR PERMIT SUBJECT TO THE ABOVE CORRECTIONS

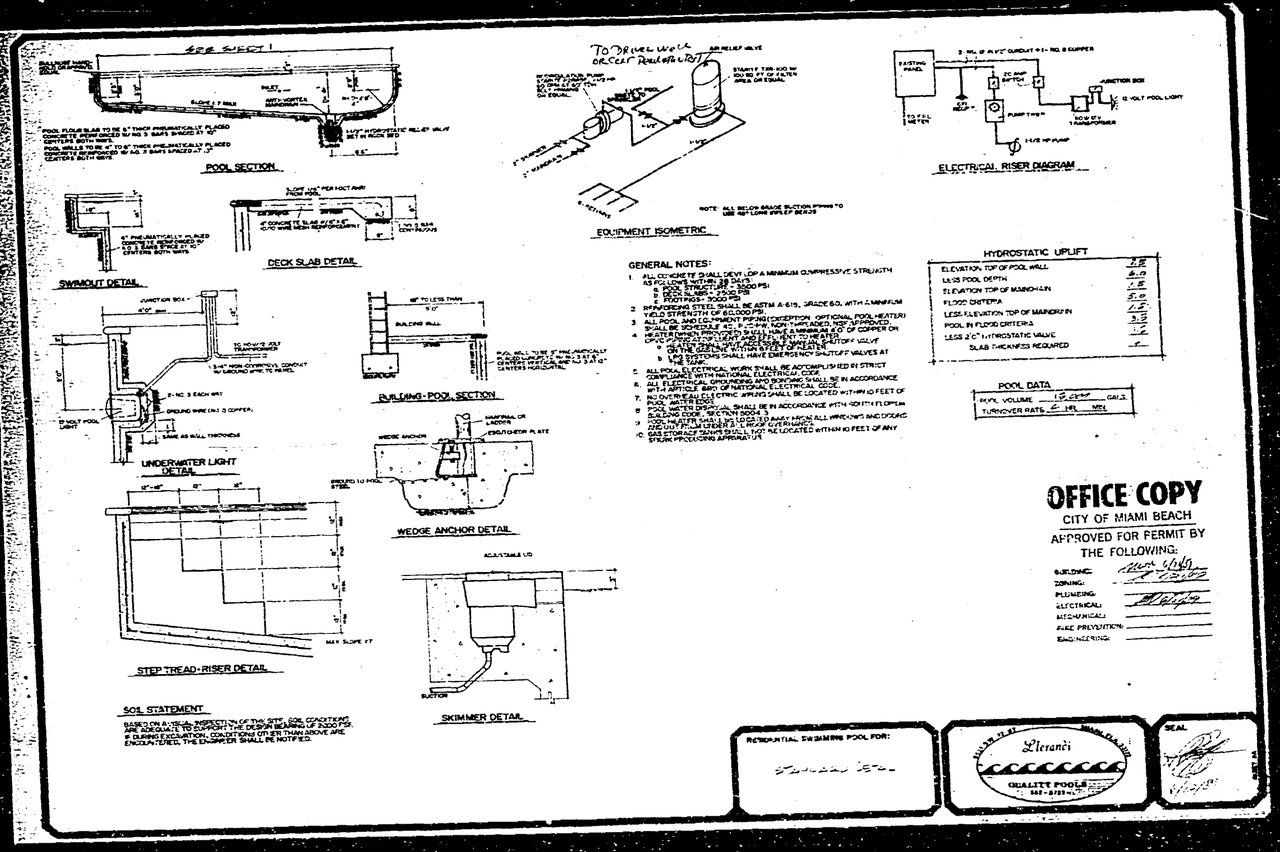
PAUL GOLF, DIRECTOR
CONSTRUCTION SERVICES
DEPARTMENT

Original/Plan Review yellow/Job Copy pink/Office Copy goldenrod/File




N.W Corner
Pool Deck
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
JUR DIRG:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
APPROVED - SUBJECT TO
ENGINEERING CRITIQUE
LEGAL DESCRIPTION:
LOT NUMBER 1 & 11 OF BLOCK NUMBER 6
OF
PLAT BOOK 6 AT PAGE NUMBER 10
DADE COUNTY , FLORIDA
FOR OFFICE USE:
FILTER
PUMP
CLEANER
HEATER
BLOWER
CHLORINATOR
SIZE & DEPTH
ELEVATION
COPING
DECK FINISH
CAGING
MISCELLANEOUS
NON-SPRL
SCREEN
RESIDENTIAL SWIMMING POOL FOR:
SEAL

9


SEE SHEET 1
POOL SECTION
DECK SLAB DETAIL
SWIMOUT DETAIL
UNDERWATER LIGHT DETAIL
STEP TREAD-RISER DETAIL
SOIL STATEMENT
BUILDING-POOL SECTION
WEDGE ANCHOR DETAIL
SKIMMER DETAIL
TO DRIVEWAY OR SELF DRAINING LOT
EQUIPMENT ISOMETRIC
ELECTRICAL RISER DIAGRAM
JUNCTION BOX
12 VOLT POOL LIGHT
1½ HP PUMP
GENERAL NOTES:
1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS WITHIN 28 DAYS:
a. DECK SLAB - 3000 PSI
b. POOL WALLS - 3000 PSI
c. FOOTINGS - 3000 PSI
2. REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. ALL POOL AND EQUIPMENT PIPING (EXCEPTION: OPTIONAL POOL HEATER) SHALL BE SCHEDULE 40 P.V.C. PIPE, NON-UNPLASTICIZED, NSF APPROVED.
4. WATER INTAKE (SKIMMER) SHALL HAVE A MINIMUM AREA OF 1 SQ. FT. OF GRATE AREA FOR EACH 10 GPM OF FLOW AND SHALL BE EQUIPPED WITH A SHUT-OFF VALVE
a. SHUT-OFF VALVE SHALL BE OF THE QUARTER TURN TYPE OF GATE VALVE
b. BOTH SYSTEMS SHALL HAVE EMERGENCY SHUT-OFF VALVES AT POOL
5. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED BY STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE.
6. ALL ELECTRICAL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 680 OF NATIONAL ELECTRICAL CODE.
7. NO OVERHEAD ELECTRIC WIRING SHALL BE LOCATED WITHIN 10 FEET OF POOL WATER EDGE.
8. POOL WATER DISCHARGE SHALL BE IN ACCORDANCE WITH SOUTH FLORIDA BUILDING CODE, SECTION 1611.3.
9. ALL DOORS WITHIN 10'-0" (3.0 M) AWAY FROM ALL WINDOWS AND DOORS SHALL HAVE SELF-CLOSING, SELF-LATCHING DEVICES.
10. GAS SERVICE LINES SHALL NOT BE LOCATED WITHIN 10 FEET OF ANY SWIMMING POOL EQUIPMENT.
HYDROSTATIC UPLIFT
ELEVATION TOP OF POOL WALL 7.8
LESS POOL DEPTH 6.0
ELEVATION TOP OF MAINDRAIN 1.8
FLOOD CRITERIA 5.0
LESS ELEVATION TOP OF MAINDRAIN 1.8
POOL IN FLOOD CRITERIA 3.2
LESS 2'-0" HYDROSTATIC VALVE 1.5
SLAB THICKNESS REQUIRED 1.7
POOL DATA
POOL VOLUME 15 GPM GALS
TURNOVER RATE 6 HRS MIN
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING
ZONING
PLUMBING
ELECTRICAL
MECHANICAL
FIRE PREVENTION
ENGINEERING
RESIDENTIAL SWIMMING POOL FOR:
Llerandi
QUALITY POOLS
SEAL

9

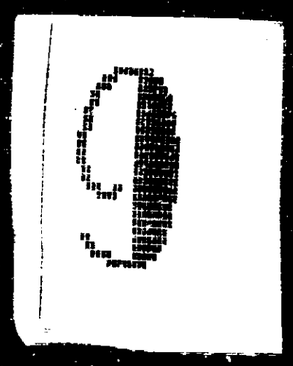
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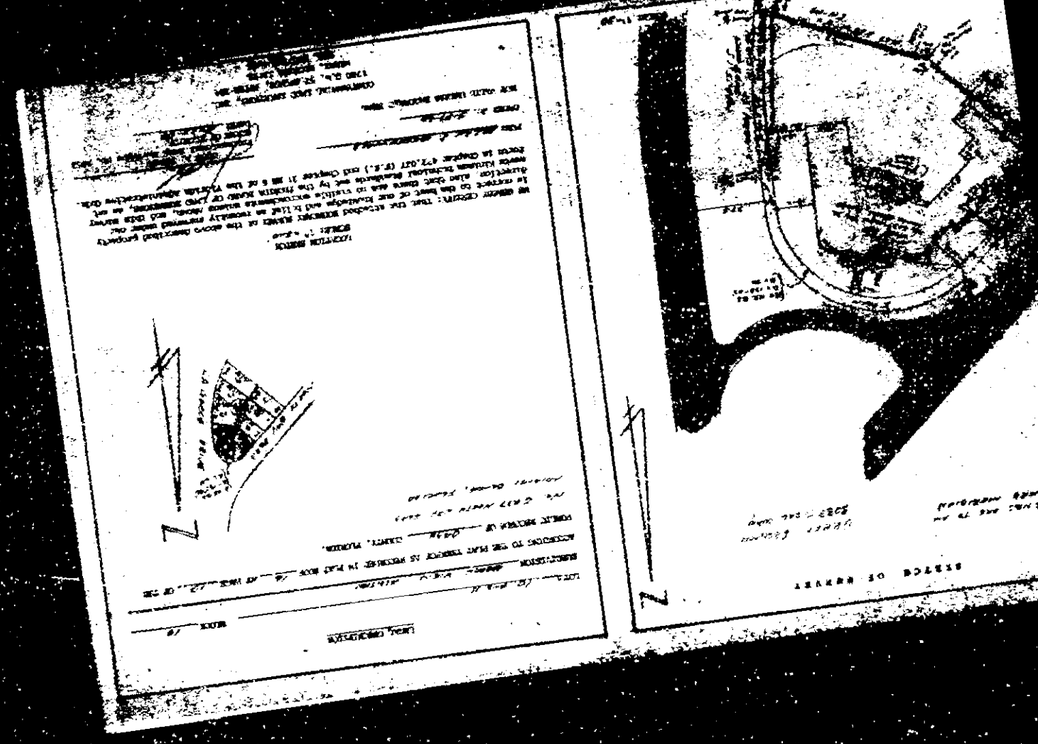
PERMIT #

BP-0022

ADDRESS :



6



CONSTRUCTION SERVICES DEPARTMENT

EP90U322

ENGINEERING PLAN REVIEW

AL DESCRIPTION: Lots 10 & 11, Block 14, Beach View Addition

AL ADDRESS: 6437 W. Bay Road

F DESCRIPTION: Swimming Pool

ABOVE PLAN SUBMITTED TO THIS DEPARTMENT NEEDS THE FOLLOWING CORRECTIONS:

RAGE FACILITIES: To use existing facilities.

ITARY SEWER: To use existing facilities.

ER: To use existing facilities.

NAGE: Side yards to be sloped so as to not shed water to neighboring properties.

Swimming pool waste water must discharge to drywell drainage well, to be located on private property.

ES: N/A

OACHMENTS:
MENTS: None.

IC SERVICES DEPARTMENT PERMITS REQUIRED FOR WORK DONE ON CITY PROPERTY.

ENTS: Public Services Department street permit required for work done on city property.

Bond required $368.00

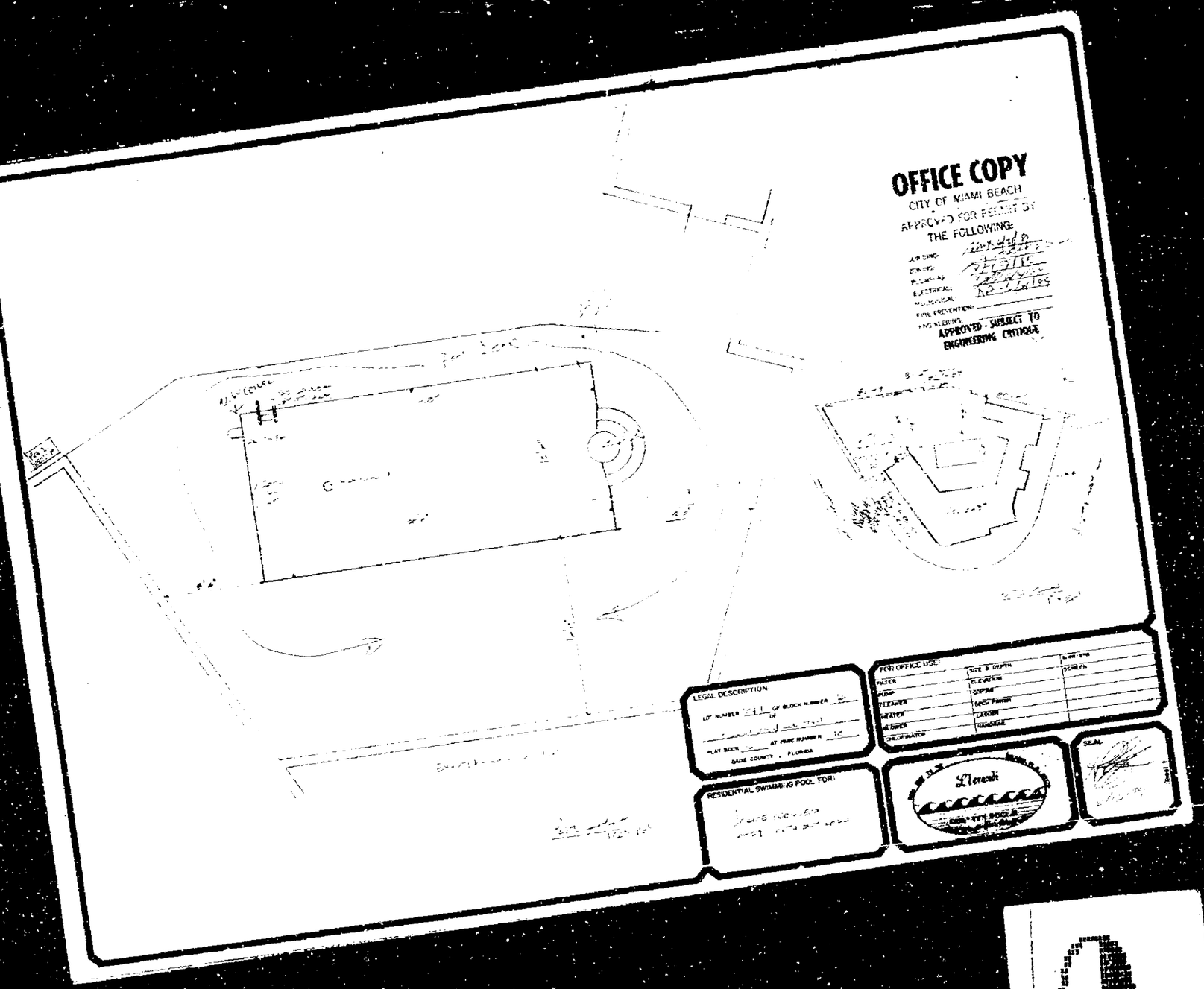
TURE [signature] COMPANY Wesley Gullickson PHONE NO. 270-0209

OVED FOR PERMIT SUBJECT TO THE ABOVE CORRECTIONS

PAUL GIOIA, DIRECTOR,
CONSTRUCTION SERVICES
DEPARTMENT

nal/Plan Review yellow/Job Copy pink/Office Copy goldenrod/File

9


OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
APPROVED - SUBJECT TO
ENGINEERING CRITIQUE
LEGAL DESCRIPTION
FOR OFFICE USE
RESIDENTIAL SWIMMING POOL FOR:
SEAL



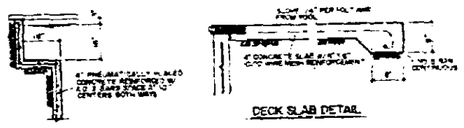
POOL SECTION



EQUIPMENT ISOMETRIC

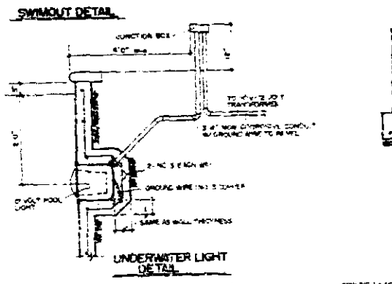


ELECTRICAL RISER DIAGRAM

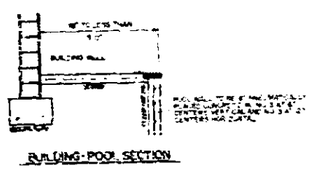


DECK SLAB DETAIL

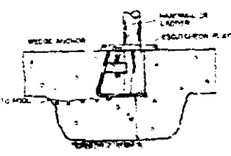
SWIMOUT DETAIL



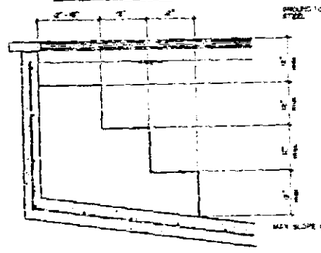
UNDERWATER LIGHT DETAIL



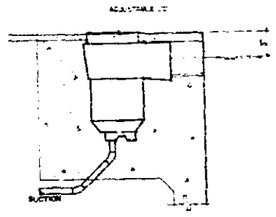
BUILDING-POOL SECTION



WEDGE ANCHOR DETAIL



STEP TREAD-RISER DETAIL



SKIMMER DETAIL

SOIL STATEMENT

BASED ON A VISUAL INSPECTION OF THE SITE, SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE DESIGN BEARING OF 2000 PSF. IF DURING EXCAVATION, CONDITIONS OTHER THAN ABOVE ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED.

GENERAL NOTES:

1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS WITHIN 28 DAYS:
   a. POOL STRUCTURE - 3000 PSI
   b. DECK SLABS - 2500 PSI
   c. FOOTINGS - 3000 PSI
2. REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60, WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI
3. ALL POOL AND EQUIPMENT PIPING (EXCEPTION: OPTIONAL POOL HEATER) SHALL BE SCHEDULE 40, P.V.C. OR NON-TOXIC LEAD FREE, NSF APPROVED
4. HEATER (WHEN PROVIDED) SHALL HAVE A MINIMUM 4.0 OF COPPER OR CUPRO-NICKEL HEAT EXCHANGER. THE HEATER SHALL BE EQUIPPED WITH:
   a. HEATER SHALL HAVE A NON-CORROSIVE BYPASS AND SHUTOFF VALVE ON THE DISCHARGE SIDE WITHIN 5 FEET OF HEATER
   b. ICE SYSTEMS SHALL HAVE EMERGENCY SHUTOFF VALVES AT POOL
5. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH N.E.C. ELECTRICAL CODE
6. ALL ELECTRICAL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 680 OF NATIONAL ELECTRICAL CODE
7. NO ELECTRICAL OUTLETS ARE TO BE LOCATED WITHIN 10 FEET OF POOL WATER EDGE
8. POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH SOUTH FLORIDA BUILDING CODE, SECTION 3004.3
9. ALL PLUMBING SHALL BE CODE APPROVED FOR ALL WORK, MATERIALS AND WORKMANSHIP
10. ALL WORK SHALL BE DONE BY LICENSED CONTRACTORS
11. GAS STORAGE OF 50 LBS SHALL NOT BE LOCATED WITHIN 10 FEET OF ANY SWIMMING POOL APPURTENANCE

HYDROSTATIC UPLIFT

ELEVATION TOP OF POOL WALL	7.0
LESS POOL DEPTH	6.0
ELEVATION TOP OF MAINDRAIN	1.0
FLOOD CRITERIA	5.0
LESS ELEVATION TOP OF MAINDRAIN	1.0
POOL IN FLOOD CRITERIA	4.0
LESS 2.0 HYDROSTATIC VALVE	2.0
SLAB THICKNESS REQUIRED	2.0

POOL DATA

POOL VOLUME 5,000 GALS.

TURNOVER RATE 6 HR. MIN.

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:

RESIDENTIAL SWIMMING POOL FOR:

STANDARD DETAIL

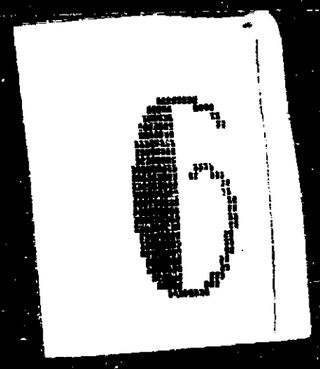
Llerandi

QUALITY POOLS

SEAL

9





2290689

BLD17008SO

STRUCTURAL SOLUTIONS, P.A.*
5921-G West Friendly Avenue
Greensboro, North Carolina 27410
NC Firm #C-1096

Project No.: 17-002
Date: 1/9/2017

Garage Door Windload Design Pressures

The following Design Pressures have been calculated in accordance with ASCE 7-10 Chapter 30 Part 1 for Components & Cladding, based upon the design parameters listed below, using the Load Combinations in Section 2.4.1. For use with Florida Building Code 5th Edition (2014).

Building Address: 6437 North Bay Road
Miami Beach, FL 33141

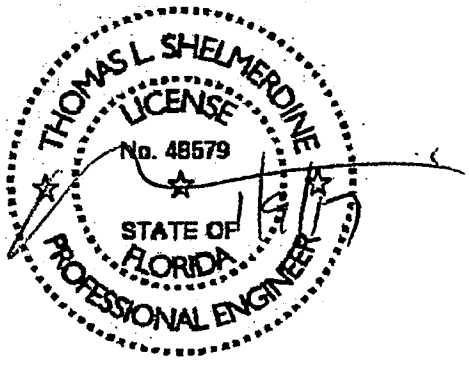
Garage Door Width:	8 ft
Garage Door Height:	8 ft
Basic Wind Speed:	175 mph
Exposure:	D
Mean Roof Height:	12 ft
Least Overall Horizontal Dimension of Building:	63 ft
Distance from left building corner to edge of garage door opening:	2 ft
Distance from right building corner to edge of garage door opening:	12 ft
Roof Slope:	any slope

Positive Design Pressure =	**42.7 psf**
Negative Design Pressure =	**-49.1 psf**

Design Assumptions:
The building is considered Enclosed as defined in ASCE 7-10
The Topographic Factor for the building is 1.

The building and garage door measurements shown above were provided to Structural Solutions, P.A. by others. These calculations do not address the structural adequacy of the jambs or other supporting structure. These calculations merely determine the Design Wind Pressures for the given garage door size and building geometry. Evaluating the structural adequacy of the jambs or other supporting structure is not the responsibility of Structural Solutions, P.A.

This document is only to be used in conjunction with Amarr Garage Doors



STRUCTURAL SOLUTIONS, P.A.* (*dba Structural Solutions of North Carolina, Inc., FL Firm #29412)
Thomas L. Shelmerdine, PE (Florida PE #0048579)

B12170085O

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Amarr Garage Doors
165 Carriage Court
Winston-Salem, NC 27105

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 950 Heritage & 655 Oak Summit 1000, 2000 Steel Sectional Garage Door up to 9'-0" Wide

APPROVAL DOCUMENT: Drawing No. **IRC-9509-185-15-I**, titled "Model 950 Heritage and Model 655 Oak Summit (24ga) 1000, 2000 Short, Long, Flush and Oak Summit Panels", Sheets 1 through 3 of 3, dated 04/06/2007, with revision D dated 12/02/2011, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, 3800 Greenway Circle, Lawrence, Kansas, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA **revises NOA # 12-0228.07** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.
The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

07/07/2015

NOA No. 15-0505.05
Expiration Date: September 6, 2017
Approval Date: July 16, 2015

Amarr Garage Doors BR1700850

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS *"Submitted under NOA # 12-0228.07"*

1. Drawing No. **IRC-9509-185-15-I**, titled "Model 950 Heritage and Model 655 Oak Summit (24ga) 1000, 2000 Short, Long, Flush and Oak Summit Panels", Sheets 1 through 3 of 3, dated 04/06/2007, with revision D dated 12/02/2011, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E.

B. TESTS *"Submitted under NOA # 12-0228.07"*

1. Test report on Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments per ASTM D1654 & ASTM B117, prepared by Architectural Testing, Inc., Test Report # **A7420.01-106-18**, dated 04/12/2011, signed and sealed by Joseph A. Reed, P.E.
2. Test report on Forced Entry Test per FBC, TAS 202-94, prepared by American Test Lab, Inc., Test Report # **ATLNC 0912.01-11**, dated 10/13/2011, signed and sealed by David W. Johnson, P.E. *"Submitted under NOA # 12-0228.09"*

"Submitted under NOA # 07-0928.11"

3. Test report on Large Missile Impact Test per FBC TAS 201, Uniform Static Air Pressure Test per FBC TAS 202 and Cyclic Wind Pressure Test per FBC TAS 203 for a 9' x 7' Sectional Steel Garage Door, prepared by American Test Lab, Inc., Report # **ATLNC 0312.02-07**, dated 05/04/07, signed and sealed by David W. Johnson, P.E.
4. Test report on Tensile Test for 3 Samples per ASTM E 8, prepared by Hurricane Engineering & Testing Inc., Report # **HETI-07-T684**, dated 04/19/2007, signed and sealed by Candido F. Font, P.E.

C. CALCULATIONS *"Submitted under NOA # 12-0228.07"*

1. Anchor calculations prepared by Structural Solutions, P.A., dated 01/25/2012, signed and sealed by Thomas L. Shelmerdine, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

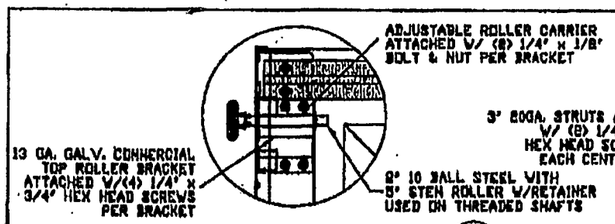
F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC and no financial interest issued by Structural Solutions, PA., dated 04/08/2015, signed and sealed by Tomas L. Shelmerdine, P.E.

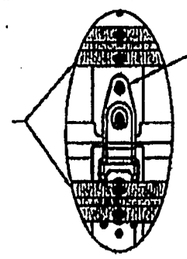
07/07/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 15-0505.05
Expiration Date: September 6, 2017
Approval Date: July 16, 2015

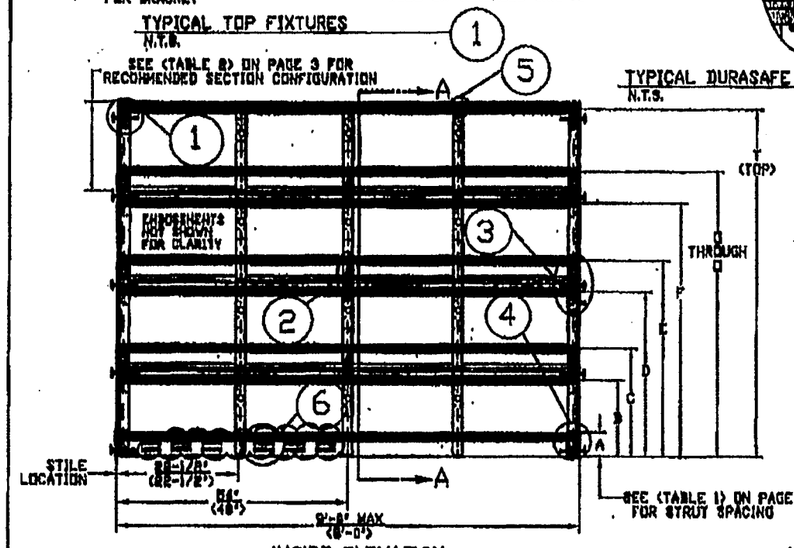
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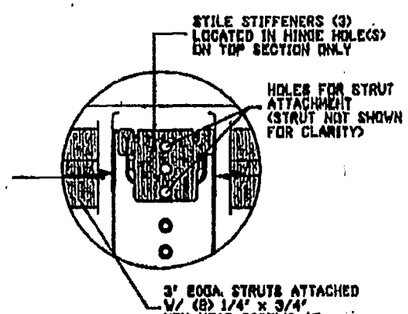
TYPICAL TOP FIXTURES (1)
N.T.S.



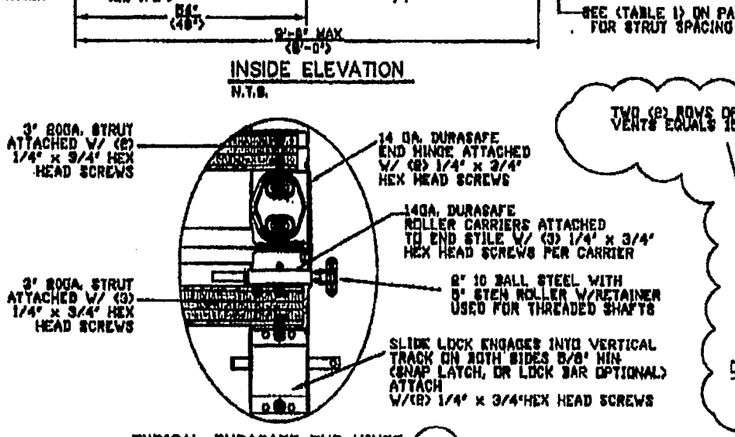
TYPICAL DURASAFE CENTER HINGE (2)
N.T.S.



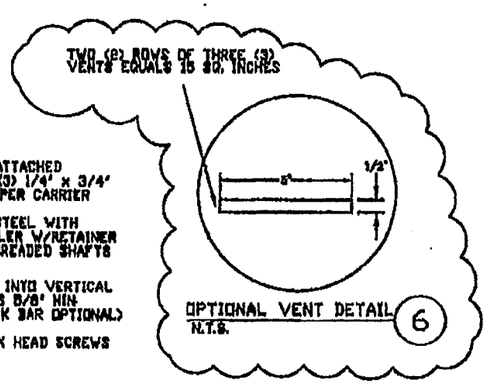
INSIDE ELEVATION
N.T.S.



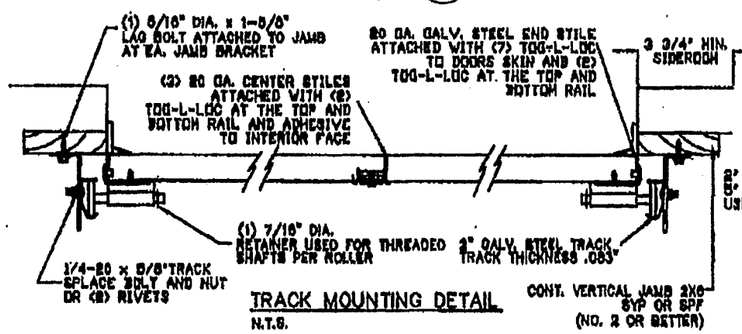
TYPICAL STILE STIFFENER (5)
N.T.S.



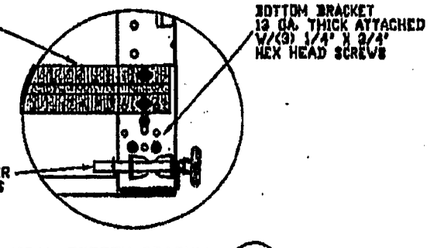
TYPICAL DURASAFE END HINGE (3)
N.T.S.



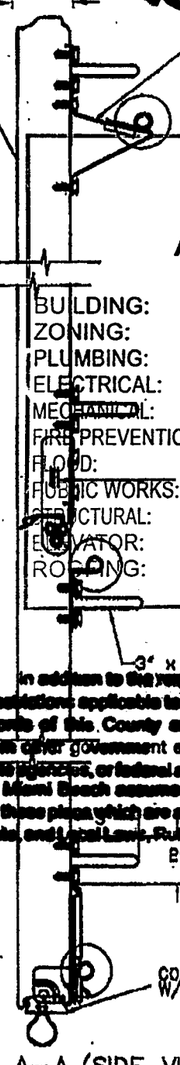
OPTIONAL VENT DETAIL (6)
N.T.S.



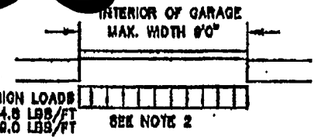
TRACK MOUNTING DETAIL
N.T.S.



TYPICAL BOTTOM BRACKET (4)
N.T.S.



SECTION A-A (SIDE VIEW)
N.T.S.



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	EM 1/13/17
ZONING:	1/25/17
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	11/2/17
PUBLIC WORKS:	END HINGE 14 GA.
STRUCTURAL:	AV 1/12/17
ELEVATOR:	
ROOFING:	

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management's districts, state agencies, or federal agencies.
The City of Miami Beach assumes no responsibility for ensuring compliance with the Florida results from those plans which are approved subject to compliance with the Florida Federal, State, and Local Laws, Rules, and Regulations.

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +244.8 LBS/FT & -279.0 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH.
5. DOORS UP TO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (2) 3" 20 GA STRUTS PER SECTION
6. DOORS OVER (4) SECTIONS REFER TO TABLES 1 AND 2 ON PAGE 3
7. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
8. THIS APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE COUNTY APPROVED LAB SELECTED AND PAID BY THE MANUFACTURER. EVERY 3 MONTHS, 4 TIMES A YEAR, THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES, AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 34,600 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.

PRODUCT REVISED
Acceptance No 15-0505.05
Expiration Date 07/06/2017
By
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 12-0228.07
Expiration Date 07/06/2017
By
Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED TITLE BLOCK TO PAGE 2	7-3-07	SHG
B	CORRECTED TRACK THICKNESS NOTE	8-13-07	SHG
C	NOTE 8 REVISED	12-19-08	CBT
D	UPDATED TO 2010 FBC	12-2-11	RLR

MAX SIZE 9' x 14'
DESIGN LOADS +54.4 PSF -62.0 PSF
LARGE MISSILE IMPACT RESISTANCE

THOMAS L. SHELMERDINE LICENSE No 0048579 STATE OF FLORIDA PROFESSIONAL ENGINEER

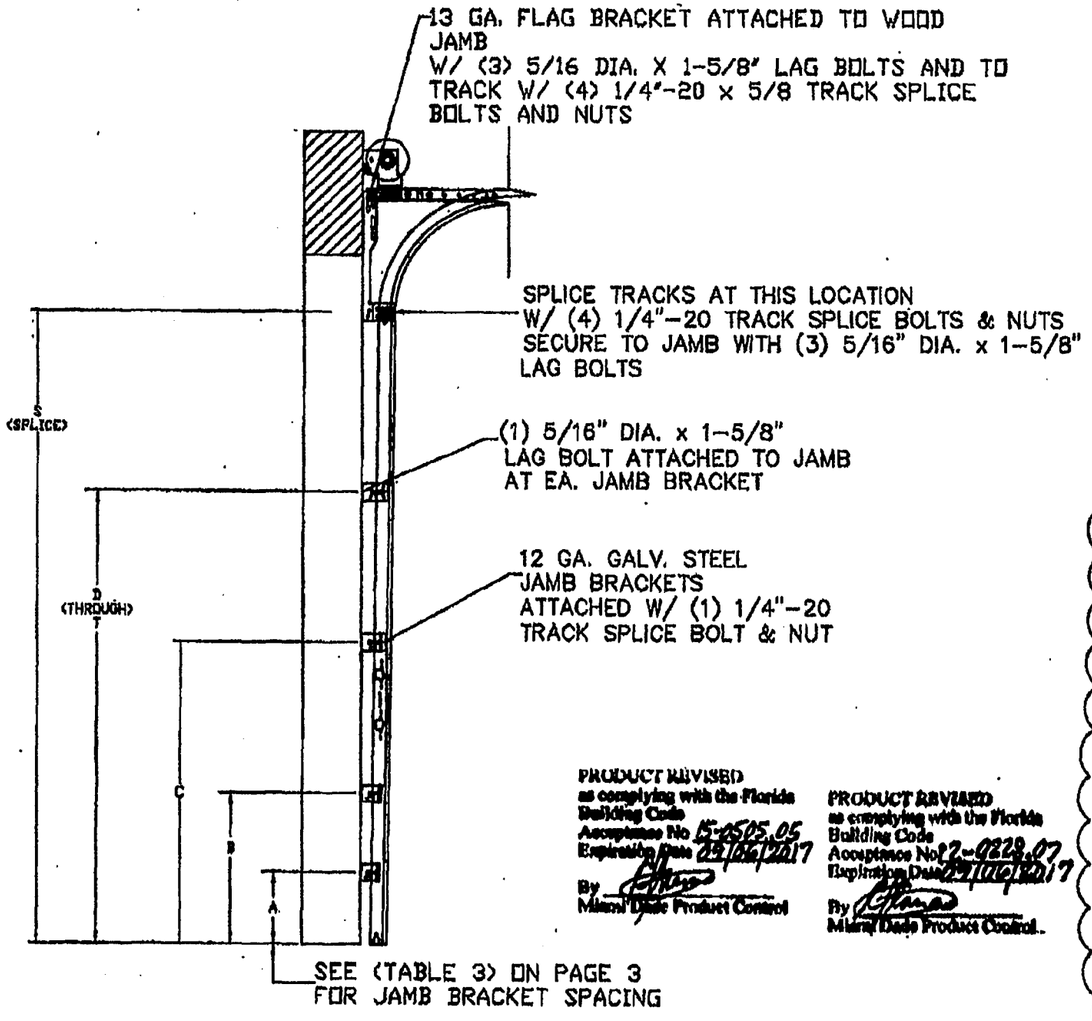
LARGE MISSILE IMPACT RESISTANCE

Amarr
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE 1000 & 2000
MODEL 955 OAK SUMMIT(24ga) 1000 & 2000
Short, Long, Flush & Oak Summit Panels

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	SHG 03/7/07	CHECKED BY SKW 04/6/07	IRC-9509-185-15-1

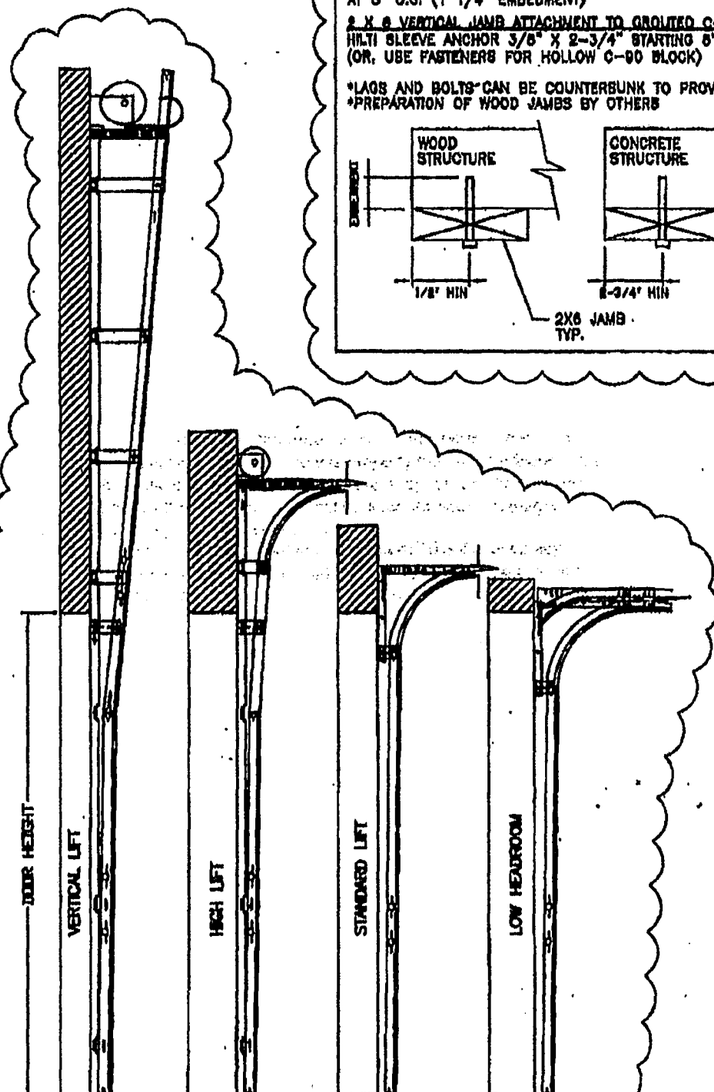
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 | SHEET 1 OF 3



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0505.05 Expiration Date 12/16/2017 By Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0229.07 Expiration Date 12/16/2017 By Miami Dade Product Control



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

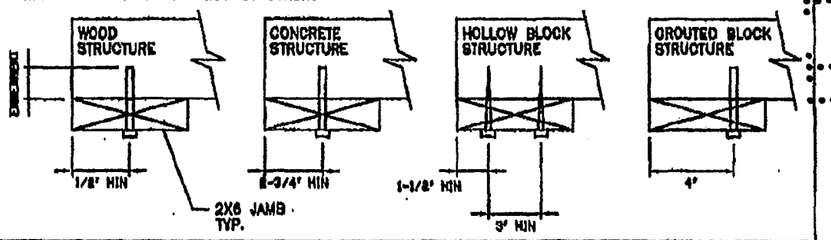
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 16" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 20" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED TITLE BLOCK TO PAGE 2	7-3-07	BHG
B	CORRECTED BRACK THICKNESS NOTE	9-13-07	BHG
C	NOTE 8 REVISED	12-15-08	CBT
D	UPDATED TO 2010 FBC	12-2-11	RLR

MAX SIZE 8' x 14'
DESIGN LOADS +54.4 PSF -62.0 PSF
LARGE MISSILE IMPACT RESISTANCE

THOMAS L. SHELMERDINE LICENSE No 0048579 STATE OF FLORIDA PROFESSIONAL ENGINEER

Amarr
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE 1000 & 2000
MODEL 655 OAK SUMMIT(24ga) 1000 & 2000
Short, Long, Flush & Oak Summit Panels

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	CHECKED BY SKW	DATE 04/6/07	RC-9509-185-15-1
ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579			SHEET 2 OF 3

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)															TOP
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T
7'	5 1/2"	18"	25 3/8"	39"	46 3/8"	60"	67 3/8"									82 1/4"
8'	5 1/2"	18"	25 3/8"	36"	43 3/8"	54"	61 3/8"	72"	79 3/8"							94 1/4"
9'	5 1/2"	15"	22 3/8"	33"	40 3/8"	51"	58 3/8"	69"	76 3/8"	87"	94 3/8"					106 1/4"
10'	5 1/2"	18"	25 3/8"	39"	46 3/8"	60"	67 3/8"	78"	85 3/8"	96"	103 3/8"					118 1/4"
11'	5 1/2"	18"	25 3/8"	36"	43 3/8"	54"	61 3/8"	72"	79 3/8"	90"	97 3/8"	108"	115 3/8"			130 1/4"
12'	5 1/2"	18"	25 3/8"	39"	46 3/8"	60"	67 3/8"	81"	88 3/8"	102"	109 3/8"	120"	127 3/8"			142 1/4"
13'	5 1/2"	18"	25 3/8"	39"	46 3/8"	60"	67 3/8"	78"	85 3/8"	96"	103 3/8"	114"	121 3/8"	132"	139 3/8"	154 1/4"
14'	5 1/2"	18"	25 3/8"	39"	46 3/8"	60"	67 3/8"	81"	88 3/8"	102"	109 3/8"	123"	130 3/8"	144"	151 3/8"	166 1/4"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0505.05 Expiration Date 07/06/2017 By Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0228.07 Expiration Date 07/06/2017 By Miami-Dade Product Control

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
11' 6"	21"	21"	21"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
9' 6"	21"	18"	18"	18"	18"	21"		
8' 6"	21"	21"	21"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
6' 6"	21"	18"	18"	21"				

TABLE 3

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	S
7'	3"	14"	27"	38"	46"	56"	68"								76"
8'	3"	14"	27"	38"	46"	56"	68"	78"							88"
9'	3"	14"	27"	38"	46"	56"	68"	78"	88"						100"
10'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"					112"
11'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				124"
12'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"			136"
13'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"		148"
14'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"	160"

ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	ADDED TITLE BLOCK TO PAGE 2	7-3-07	BHG
B	CORRECTED TRACK THICKNESS NOTE	9-13-07	BHG
C	NOTE 9 REVISED	12-15-08	CBT
D	UPDATED TO 2010 FBC	12-2-11	RLR

MAX SIZE 9' x 14'

DESIGN LOADS +54.4 PSF -82.0 PSF

LARGE MISSILE IMPACT RESISTANCE

THOMAS L. SHELMERDINE LICENSE No 0048579 STATE OF FLORIDA PROFESSIONAL ENGINEER

Amarr

165 CARRIAGE COURT WINSTON-SALEM, NC. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE 1000 & 2000
MODEL 955 OAK SUMMIT(24ga) 1000 & 2000
Short, Long, Flush & Oak Summit Panels

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	CHECKED BY SKW	DATE 04/8/09	IRC-9509-185-15-I

ENGINEER: THOMAS L. SHELMERDINE P.E. LIC. No. 0048579 SHEET 3 OF 3

B12170085O

6437 Bay

RD



6437 N BAY RD
Miami Beach FL
33141

Folio # 02-3241-014-1380

SqFT

1 Floor

2 Floor

63 FT

68 FT

Garage
8x8 8x8

Doors to be Replace

66 FT

Front

2 Floor

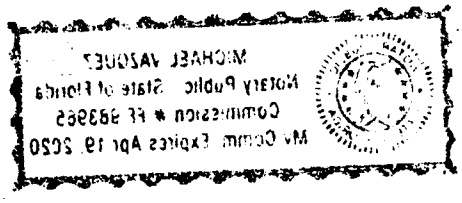
2 Floor

MICHAEL VAZQUEZ
Notary Public - State of Florida
Commission # FF 983965
My Comm. Expires Apr 19, 2020

BRI.200.1850

6437 BAY

RD



RV17023 4

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Amarr Garage Doors
125 Carriage Court
Winston-Salem, NC 27105

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 950 Heritage & 655 Oak Summit 1000, 2000 Steel Sectional Garage Door up to 9'-0" Wide (DP +51.1, -60.3 PSF)

APPROVAL DOCUMENT: Drawing No. **IRC-9509-180-21**, titled "Model 950 Heritage & Model 655 Oak Summit, (24 GA) 1000, 2000, Short, Long, Flush and Oak Summit Panels", sheets 1through 3 of 3, dated 03/14/2003, with revision B dated 10/13/2011, prepared by Amarr Garage Doors, signed and sealed by Tomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, 3800 Greenway Circle, Lawrence, Kansas, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises **NOA # 13-0503.06** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

07/09/2015

NOA No 15-0505.11
Expiration Date: September 4, 2018
Approval Date: July 16, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS ***"Submitted under NOA # 13-0503.06"***

1. Drawing No. **IRC-9509-180-21**, titled "Model 950 Heritage & Model 655 Oak Summit, (24 GA) 1000, 2000, Short, Long, Flush and Oak Summit Panels", sheets 1through 3 of 3, dated 03/14/2003, with revision B dated 10/13/2011, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E.

B. TESTS ***"Submitted under NOA # 13-0503.06"***

1. Addendum to Test Report No. **ATLNC 0129.01-13R**, prepared by American Test Lab, Inc., dated 06/11/2013, signed and sealed by David W. Johnson, P.E.
2. Test report on Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments per ASTM D1654 & ASTM B117, prepared by Architectural Testing, Inc., Test Report No. **C5463.01-106-18**, dated 04/03/2013, signed and sealed by Gary T. Hartman, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   4) Tensile Test per ASTM E8
   5) Forced Entry Resistance Test per FBC, TAS 202-94

   along with marked-up drawings and installation diagram of 9'x 7' 24 ga steel garage door Model 950, prepared by American Test Lab, Inc., Test Report No. **ATLNC 0129.01-13R**, dated 04/02/2013, signed and sealed by David W. Johnson, P.E.
4. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   2) Large Missile Impact Test per FBC, TAS 201-94
   3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of 9'x 7' Model 950D Heritage with Durasafe, 24 ga Sectional Steel Garage Door, prepared by American Test Lab, Inc., Test Report No. **ATL 0311.01-03R**, dated 06/22/2006, signed and sealed by David W. Johnson, P.E. ***"Submitted under NOA # 08-0718.01"***

C. CALCULATIONS ***"Submitted under NOA # 13-0503.06"***

1. Anchor calculations prepared by Structural Solutions, P.A., dated 04/11/2013, signed and sealed by Thomas L. Shelmerdine, P.E.
2. Anchor calculations prepared by Structural Solutions, P.A., dated 01/25/2012, signed and sealed by Thomas L. Shelmerdine, P.E. ***"Submitted under NOA # 08-0718.01"***

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC and no financial interest issued by Structural Solutions, PA., dated 04/08/2015, signed and sealed by Tomas L. Shelmerdine, P.E.

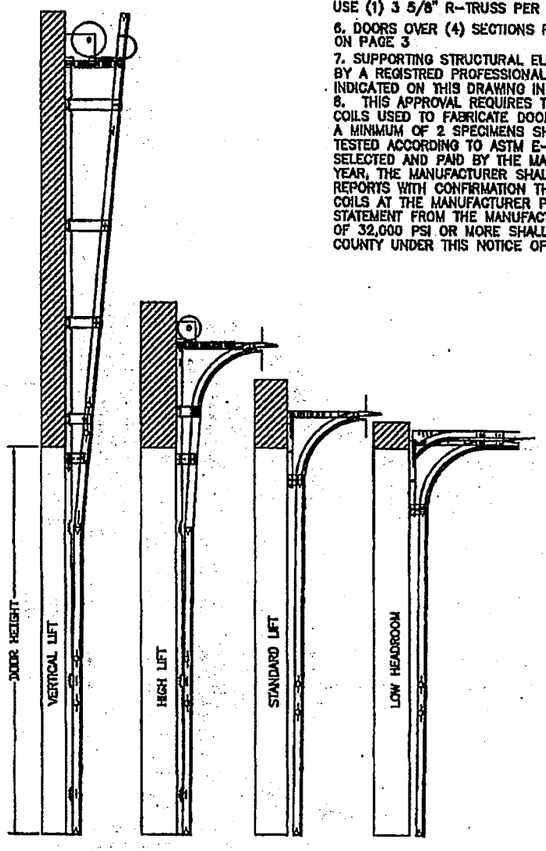
07/09/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 15-0505.11
Expiration Date: September 4, 2018
Approval Date: July 16, 2015

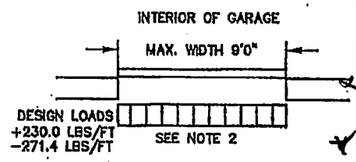
RU1702341

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +230.0 LBS/FT & -271.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UPTO 7'0" HIGH CONSIST OF (4) SECTIONS AS SHOWN. USE (1) 3 5/8" R-TRUSS PER SECTION
6. DOORS OVER (4) SECTIONS REFER TO TABLES 1 AND 2 ON PAGE 3
7. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
8. THIS APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE COUNTY APPROVED LAB SELECTED AND PAID BY THE MANUFACTURER. EVERY 3 MONTHS, 4 TIMES A YEAR, THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES. AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 32,000 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.



AVAILABLE TRACK CONFIGURATIONS
N.T.S.

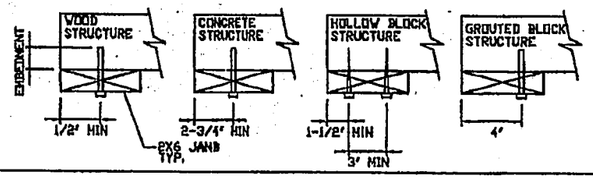


WOOD JAMB ATTACHMENT TO STRUCTURE

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 20" O.C. (1 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 18" O.C. (1 1/4" EMBEDMENT)
ITW/RANSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 22" O.C. (1 1/4" EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: 3/1/17
ZONING: 3/1/17
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD: 3/1/17
PUBLIC WORKS:
STRUCTURAL: VE 3-1-17
ELEVATOR:

NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies.
The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0505.11 Expiration Date 2/10/2018 By Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0503.06 Expiration Date 2/10/2018 By Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	AFFIRMATION TO 2007 FBC, MODEL 655 & PGS ADDED	08-11-08	SCW
B	UPDATED TO FBC 2010	10/13/11	DRG

MAX SIZE 9' x 14'
DESIGN LOADS +51.1 PSF -80.3 PSF
LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #28432)

THOMAS L. SHELMERDINE LICENSE No 0048579 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/1/17

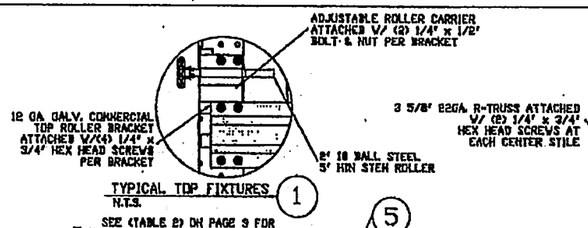
dba Structural Solutions, Inc. North Carolina Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

FL

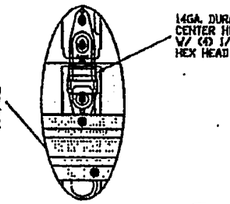
Amarr
163 CARRIAGE COURT WINSTON-SALEM, NC. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE (24 GA) 1000, 2000
MODEL 655 OAK SUMMIT (24 GA) 1000, 2000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

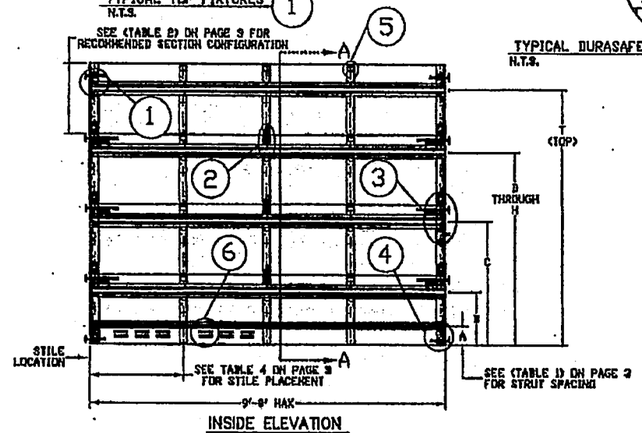
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B	CHECKED BY	AAE	DATE	03/14/03	IRC-9509-180-21
					SHEET 2 OF 3



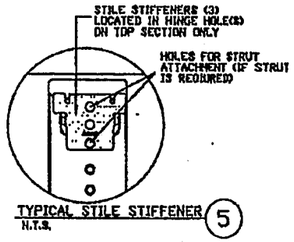
TYPICAL TOP FIXTURES (1)
N.T.S.



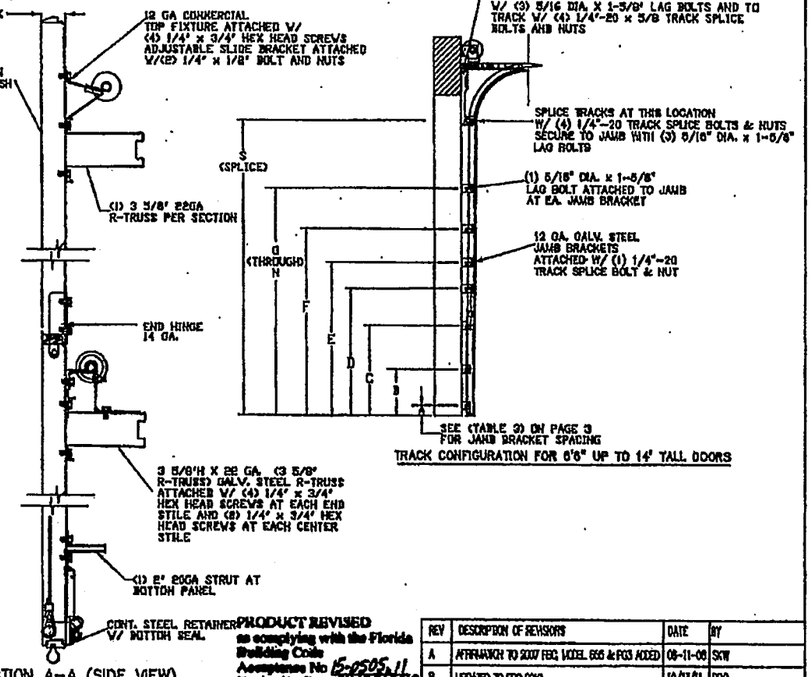
TYPICAL DURASAFE CENTER HINGE (2)
N.T.S.



INSIDE ELEVATION
N.T.S.

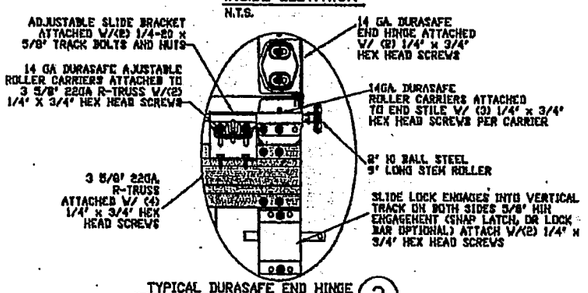


TYPICAL STILE STIFFENER (5)
N.T.S.

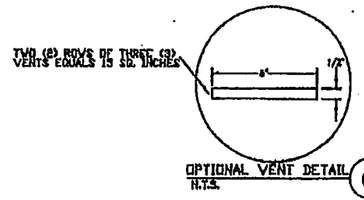


SECTION A-A (SIDE VIEW)
N.T.S.

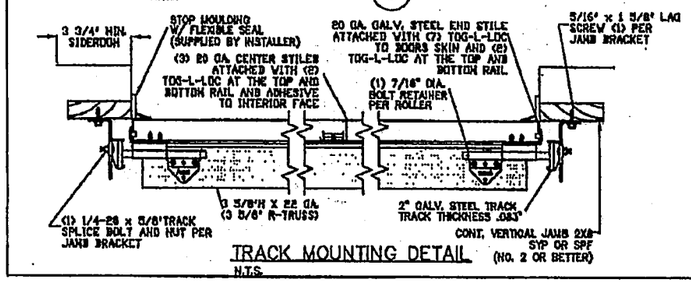
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS



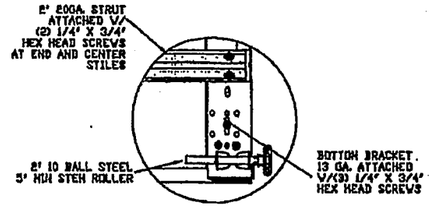
TYPICAL DURASAFE END HINGE (3)
N.T.S.



OPTIONAL VENT DETAIL (6)
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.



TYPICAL BOTTOM BRACKET (4)
N.T.S.

LARGE MISSLE IMPACT RESISTANT

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0503.06 Expiration Date 07/04/2018
By _____ Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0505.11 Expiration Date 07/04/2018
By _____ Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	APPROVED TO 2007 FBC, MODEL 655 & P03 ADDED	08-11-08	SKW
B	UPDATED TO FBC 2010	10/13/11	DRC

MAX SIZE 9' x 14'
DESIGN LOADS +51.1 PSF -60.3 PSF
LARGE MISSLE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL.PE.#0046579) Structural Solutions, PA (FL Firm #29402)

THOMAS L. SHELMERDINE LICENSE No 0046579 10/13/11 STATE OF FLORIDA PROFESSIONAL ENGINEER

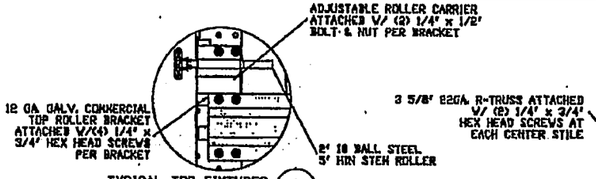
FL

dba Structural Solutions, LLC of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

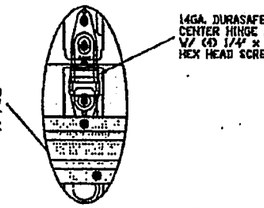
Amarr
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE (24 GA) 1000, 2000
MODEL 655 OAK SUMMIT (24 GA) 1000, 2000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

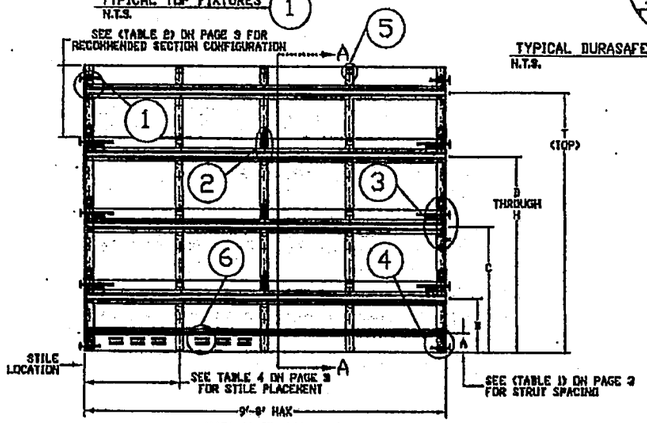
SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	OLJ	03/12/03	IRC-9509-180-21
	CHECKED BY AJE	DATE 03/14/03	
			SHEET 1 OF 3



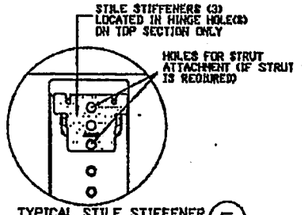
TYPICAL TOP FIXTURES (1)
N.T.S.



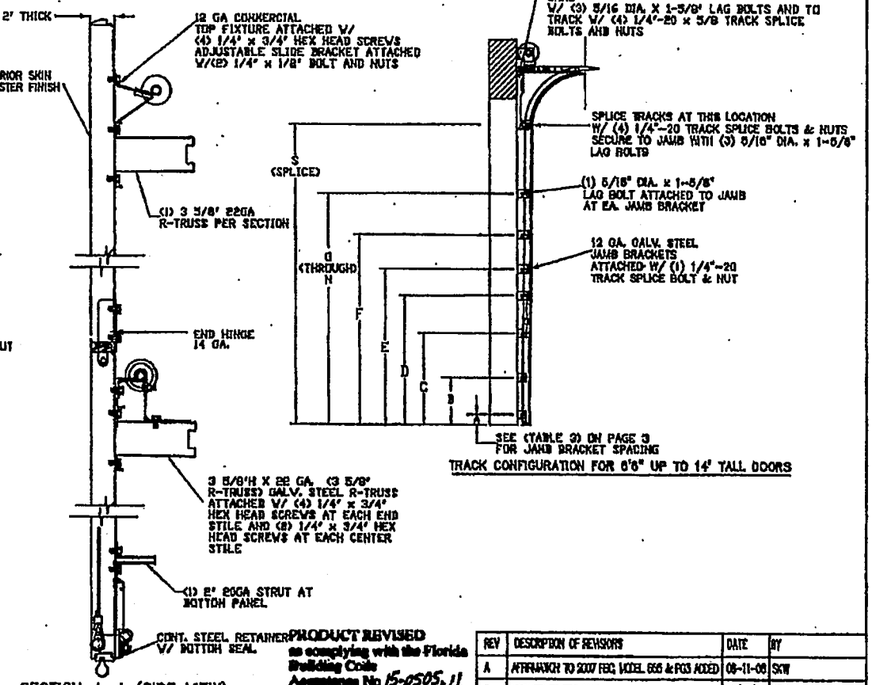
TYPICAL DURASAFE CENTER HINGE (2)
N.T.S.



INSIDE ELEVATION (5)
N.T.S.



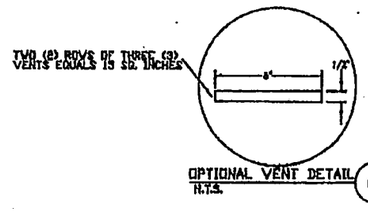
TYPICAL STILE STIFFENER (5)
N.T.S.



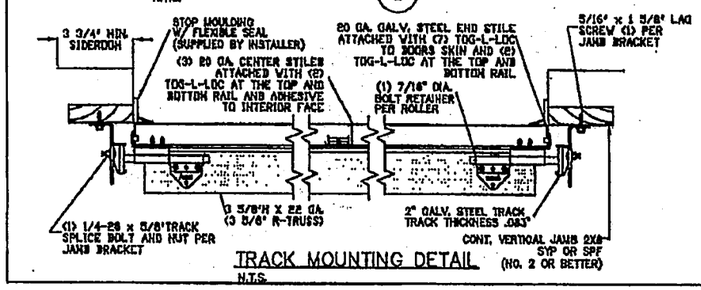
SECTION A-A (SIDE VIEW)
N.T.S.

TRACK CONFIGURATION FOR 6'8" UP TO 14' TALL DOORS

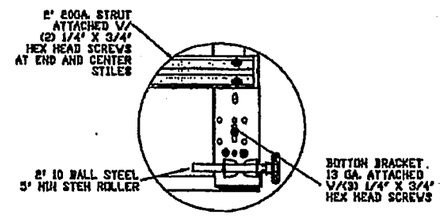
TYPICAL DURASAFE END HINGE (3)
N.T.S.



OPTIONAL VENT DETAIL (6)
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.



TYPICAL BOTTOM BRACKET (4)
N.T.S.

LARGE MISSLE IMPACT RESISTANT

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-1503.06 Expiration Date 07/04/2018
By Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0505.11 Expiration Date 07/04/2018
By Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
A	AFFIRMATION TO 2007 FBC, MODEL 655 & FO3 ADDED	08-11-08	SKW
B	UPDATED TO FBC 2010	10/13/11	DRC

MAX SIZE 9' x 14'
DESIGN LOADS +51.1 PSF −80.3 PSF
LARGE MISSLE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29432)

THOMAS L. SHELMERDINE LICENSE No 0048579 STATE OF FLORIDA PROFESSIONAL ENGINEER 6/13/13

dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27103 WWW.AMARR.COM

MODEL 950 HERITAGE (24 GA) 1000, 2000
MODEL 655 OAK SUMMIT (24 GA) 1000, 3000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DLJ	DATE	03/12/03	DRAWING NUMBER
B	CHECKED BY	AJE	DATE	03/14/03	IRC-9509-180-21
					SHEET 1 OF 3

TABLE 1

DOOR HEIGHT	STRUT SPACING (BASED ON RECOMMENDED SECTION CONFIGURATION)								TOP
	A	B	C	D	E	F	G	H	T
6'6"	5 1/2"	16"	34"	52"					70 1/2"
7'	5 1/2"	16"	37"	58"					76 1/2"
7'6"	5 1/2"	16"	31"	49"	67"				82 1/2"
8'	5 1/2"	16"	34"	52"	70"				88 1/2"
8'6"	5 1/2"	16"	37"	58"	76"				94 1/2"
9'	5 1/2"	13"	31"	49"	67"	85"			100 1/2"
9'6"	5 1/2"	16"	34"	52"	70"	88"			106 1/2"
10'	5 1/2"	16"	37"	58"	76"	94"			112 1/2"
10'6"	5 1/2"	16"	37"	58"	79"	100"			118 1/2"
11'	5 1/2"	16"	34"	52"	70"	88"	106"		124 1/2"
11'6"	5 1/2"	16"	37"	58"	76"	94"	112"		130 1/2"
12'	5 1/2"	16"	37"	58"	79"	100"	118"		136 1/2"
12'6"	5 1/2"	16"	34"	52"	70"	88"	106"	124"	142 1/2"
13'	5 1/2"	16"	37"	58"	76"	94"	112"	130"	148 1/2"
13'6"	5 1/2"	16"	37"	58"	79"	100"	118"	136"	154 1/2"
14'	5 1/2"	16"	37"	58"	79"	100"	121"	142"	160 1/2"

TABLE 2

DOOR HEIGHT	SECTION HEIGHTS							
	Btm	#2	#3	#4	#5	#6	#7	#8
14'0"	21"	21"	21"	21"	21"	21"	21"	21"
13' 6"	21"	21"	21"	21"	21"	18"	18"	21"
13'0"	21"	21"	21"	18"	18"	18"	18"	21"
12' 6"	21"	18"	18"	18"	18"	18"	18"	21"
12'0"	21"	21"	21"	21"	21"	18"	21"	
11' 6"	21"	21"	21"	18"	18"	18"	21"	
11'0"	21"	18"	18"	18"	18"	18"	21"	
10' 6"	21"	21"	21"	21"	21"	21"		
10'0"	21"	21"	21"	18"	18"	21"		
9'6"	21"	18"	18"	18"	18"	21"		
9'0"	18"	18"	18"	18"	18"	18"		
8' 6"	21"	21"	21"	18"	21"			
8'0"	21"	18"	18"	18"	21"			
7' 6"	18"	18"	18"	18"	18"			
7'0"	21"	21"	21"	21"				
6' 6"	21"	18"	18"	21"				

TABLE 3

DOOR HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	S
6'6"	3"	14"	27"	38"	46"	56"	62"								70"
7'	3"	14"	27"	38"	46"	56"	68"								76"
7'6"	3"	14"	27"	38"	46"	56"	68"	78"							82"
8'	3"	14"	27"	38"	46"	56"	68"	78"							88"
8'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"						94"
9'	3"	14"	27"	38"	46"	56"	68"	78"	88"						100"
9'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	98"					106"
10'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"					112"
10'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				118"
11'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"				124"
11'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	120"			130"
12'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	110"	122"			136"
12'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	132"		142"
13'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"		148"
13'6"	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	109"	122"	134"	144"	154"
14'	3"	14"	27"	38"	46"	56"	68"	78"	88"	100"	114"	122"	134"	146"	160"

ALL TRACK ATTACHMENT SPACING +/- 2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 4

Section Width (ft)	Panel Type	Center Stile Location (Measured from Left Edge)		
		1st (in)	2st (in)	3rd (in)
8'0	Short	24.812	48.000	71.188
8'0	Long	24.000	48.000	72.000
8'0	Bead	24.625	48.000	71.375
8'2	Short	24.316	49.000	73.684
8'2	Long	24.500	49.000	73.500
8'2	Bead	25.125	49.000	72.875
8'4	Short	24.580	50.000	75.420
8'4	Long	25.000	50.000	75.000
8'4	Bead	25.625	50.000	74.375
8'6	Short	26.029	51.000	75.971
8'6	Long	25.500	51.000	76.500
8'6	Bead	26.125	51.000	75.875
8'8	Short	26.659	52.000	77.341
8'8	Long	26.000	52.000	78.000
8'8	Bead	26.625	52.000	77.375
8'10	Short	27.034	53.000	78.966
8'10	Long	26.500	53.000	79.500
8'10	Bead	27.125	53.000	78.875
9'0	Short	27.598	54.000	80.404
9'0	Long	27.000	54.000	81.000
9'0	Bead	27.625	54.000	80.375

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-0503.11 Expiration Date 04/04/2018 By Miami-Dade Product Control

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MAX SIZE 9' x 14'
DESIGN LOADS +51.1 PSF -60.3 PSF
LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29422)

THOMAS L. SHELMERDINE LICENSE No 0048579 4/3/13 STATE OF FLORIDA PROFESSIONAL ENGINEER FL

dba Structural Solutions, PA (FL Firm #29422) 5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105 WWW.AMARR.COM

MODEL 950 HERITAGE (24 GA) 1000, 8000
MODEL 655 OAK SUMMIT (24 GA) 1000, 8000
SHORT, LONG, FLUSH, AND OAK SUMMIT PANELS

SIZE	DRAWN BY	DLJ	DATE	03/12/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	03/14/03	IRC-9509-180-21
					SHEET 3 OF 3

RV17023411
BR17009851

6437

Bay Rd