

CATEGORY II –

SUPPLEMENTAL DOCUMENTS

- Restrictive Covenant
- Determination of Architectural Significance
- Full Legal Description
- Microfilms

This instrument was prepared by:

Name:

Address:

(Space Reserved for Clerk)

DECLARATION OF RESTRICTIVE COVENANTS
IN LIEU OF UNITY OF TITLE

KNOW ALL BY THESE PRESENTS that the undersigned Owners hereby make, declare and impose on the land herein described, the easement and covenants running with the title to the land, which shall be binding on the Owners, their heirs, successors and assigns, personal representatives, mortgagees, lessees, and against all persons claiming by, through or under them;

WITNESSETH:

WHEREAS, the Owners hold fee-simple title to certain property in the City of Miami Beach, Florida, located at 5800 PINE TREE DR, Miami Beach, Florida, bearing the following folio number(s) 02-3211-014-0870, legally described in **Exhibit "A,"** attached hereto and made a part hereof ("Property"); and

WHEREAS, on N/A [date] Owner obtained approval of the [Design Review Board (DRB) / Historic Preservation Board (HPB) / Board of Adjustment (BOA) / Planning Board (PB)] under File No. N/A as recorded in Official Records Book N/A, at Page N/A of the Public Records of Miami-Dade; and

WHEREAS, the Owners may develop the buildings on the Property in a condominium format of ownership and/or in two or more phases; and

WHEREAS, the Owners may develop the buildings on the Property for sale to multiple owners or in a condominium or association format of ownership and/or in two or more phases; and

WHEREAS, the Owners may wish to convey portions of the Property from time to time, and may wish to offer units as condominiums, this instrument is executed in order to assure that the phased development, or development of the property with future multiple ownership, will not violate the Land Development Regulations of the City of Miami Beach.

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address 5800 PINE TREE DR

Folio No.: 02-3211-014-0870

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NOW THEREFORE, in consideration of the premises, Owner hereby agrees as follows:

1. The subject site will be developed as a unified development site in substantial accordance with the approved site plan, after one has been submitted and approved under the City's land development regulations. No modification shall be effectuated in such site plan without the written consent of the then owner(s) of the phase or portion of the property for which modification is sought, all owners within the original unified development site, or their successors, whose consent shall not be unreasonably withheld, and the Director of the City's Planning Department; provided the Director finds that the modification is in compliance with the land development regulations. Should the Director withhold such approval, the then owner(s) of the phase or portion of the property for which modification is sought shall be permitted to seek such modification by application to modify the plan at public hearing before the appropriate City board or the City Commission of Miami Beach, Florida, (whichever by law has jurisdiction over such matters). Such application shall be in addition to all other required approvals necessary for the modification sought. Proposed modifications to the property's use, operation, physical condition or site plan shall also be required to return to the appropriate development review board or boards for consideration of the effect on prior approvals and the affirmation, modification or release of previously issued approvals or imposed conditions.

2. If the subject property will be developed in phases, each phase will be developed in substantial accordance with the approved site plan.

3. In the event of multiple ownerships subsequent to site plan approval, each of the subsequent owners shall be bound by the terms, provisions and conditions of the declaration of restrictive covenants. Owners further agree that they will not convey portions of the subject property to such other parties unless and until the Owners and such other party or parties shall have executed and mutually delivered, in recordable form, an instrument to be known as an easement and operating agreement which shall contain, among other things:

- (i) Easements in the common area of each parcel for ingress to and egress from the other parcels;
- (ii) Easements in the common area of each parcel for the passage and parking of vehicles;
- (iii) Easements in the common area of each parcel for the passage and accommodation of pedestrians;
- (iv) Easements for access roads across the common area of each parcel to public and private roadways;

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address **5800 PINE TREE DR**

Folio No.: **02-3211-014-0870**

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- (v) Easements for the installation, use, operation, maintenance, repair, replacement, relocation and removal of utility facilities in appropriate areas in each such parcel;
- (vi) Easements on each such parcel for construction of buildings and improvements in favor of each such other parcel;
- (vii) Easements upon each such parcel in favor of each adjoining parcel for the installation, use, maintenance, repair, replacement and removal of common construction improvements such as footings, supports and foundations;
- (viii) Easements on each parcel for attachment of buildings;
- (ix) Easements on each parcel for building overhangs and other overhangs and projections encroaching upon such parcel from the adjoining parcels such as, by way of example, marquees, canopies, lights, lighting devices, awnings, wing walls and the like;
- (x) Appropriate reservation of rights to grant easements to utility companies;
- (xi) Appropriate reservation of rights to road right-of-ways and curb cuts;
- (xii) Easements in favor of each such parcel for pedestrian and vehicular traffic over dedicated private ring roads and access roads; and
- (xiii) Appropriate agreements between the owners of the several parcels as to the obligation to maintain and repair all private roadways, parking facilities, common areas and common facilities and the like.

The easement provisions or portions thereof may be waived by the Director if they are not applicable to the subject property (such as for conveyances to purchasers of individual condominium units). These provisions of the easement and operating agreement shall not be amended without prior written approval of the City Attorney. In addition, such easement and operating agreement shall contain such other provisions with respect to the operation, maintenance and development of the property as to which the parties thereto may agree, or the Director may require, all to the end that although the property may have several owners, it will be constructed, conveyed, maintained and operated in accordance with the approved site plan.

4. The provisions of this instrument shall become effective upon their recordation in the public records of Miami-Dade County, Florida, and shall continue in effect for a period of thirty (30) years after the date of such recordation, after which time they shall be extended automatically for successive periods of ten (10) years each, unless released in writing by the then owners of the Property and the Director of the Department of Planning, acting for and on behalf of the City of Miami Beach, Florida upon the demonstration and affirmative finding that the same is no longer necessary to preserve and protect the Property for the purposes herein intended.

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address **5800 PINE TREE DR**

Folio No.: **02-3211-014-0870**

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5. The provisions of this instrument may be amended, modified or released by a written instrument executed by the then Owner or Owners of the Property, with joinders by all mortgagees, if any. Should this Declaration of Restrictive Covenants be so modified, amended or released, and the Director of the Department of Planning or his successor, approves, then such Director or successor shall forthwith execute a written instrument effectuating and acknowledging such amendment, modification or release. No modification, amendment or release shall be effective without the Director's, or his successor's, approval.

6. Enforcement shall be by action against any parties or persons violating or attempting to violate any covenants. The prevailing party to any action or suit pertaining to or arising out of this Declaration shall be entitled to recover, in addition to costs and disbursements, allowed by law, such sum as the Court may adjudge to be reasonable for the services of his attorney. This enforcement provision shall be in addition to any other remedies available at law, in equity or both.

7. Invalidation of any of these covenants by judgment of Court shall not affect any of the other provisions, which shall remain in full force and effect.

8. This Declaration shall be recorded in the public records of Miami-Dade County at the Owners' expense.

9. All rights, remedies and privileges granted herein shall be deemed to be cumulative and the exercise of any one or more shall neither be deemed to constitute an election of remedies, nor shall it preclude the party exercising the same from exercising such other additional rights, remedies or privileges.

10. In the event of a violation of this Declaration, in addition to any other remedies available, the City of Miami Beach is hereby authorized to withhold any future permits, and refuse to make any inspections or grant any approval, until such time as this Declaration is complied with.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK—SIGNATURE PAGES TO FOLLOW]

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address 5800 PINE TREE DR

Folio No.: 02-3211-014-0870

Page 5 of 7

Signed, witnessed, executed and acknowledged on this 06 day of JUNE, 2020.

[*Note: All others require attachment of original corporate resolution of authorization]

WITNESSES:

Signature

SUSANA CORREA
Print Name

Signature

Print Name

GONZALO MUNOZ

OWNER:

Individual Signature

CORINNA U. KELLER

Print Name

N/A
Name of Corporate Entity

Position with Corporate Entity (Prez, VP, CEO)

Address: 5800 PINE TREE DR
MIAMI BEACH, FL. 33140

STATE OF Florida

COUNTY OF Dade

The foregoing instrument was acknowledged before me by Corinna Ulrike
Keller, who is personally known to me or has produced
Fl. Divers License, as identification.

Witness my signature and official seal this 5 day of June, 2020, in
the County and State aforesaid.

My Commission Expires:

Notary Public-State of Florida

Oscar Roca
Print Name



OSCAR ROCA
MY COMMISSION # GG 133220
EXPIRES: August 9, 2021
Bonded Thru Budget Notary Services

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address 5800 PINE TREE DR

Folio No.: 02-3211-014-0870

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Signed, witnessed, executed and acknowledged on this 06 day of JUNE, 2020.

WITNESSES:

Signature

SUSANA CORREA
Print Name

Signature

GONZALO MUNOZ
Print Name

OWNER:

Individual Signature

CORINNA U. KELLER

Print Name

Address: 5800 PINE TREE DR

MIAMI BEACH, FL. 33140

STATE OF Florida

COUNTY OF Dade

The foregoing instrument was acknowledged before me by Corinna Ulrike Keller, who is personally known to me or has produced FL Drivers License, as identification.

Witness my signature and official seal this 5 day of June, 2020, in the County and State aforesaid.

My Commission Expires:



OSCAR ROCA
MY COMMISSION # GG 133220
EXPIRES: August 9, 2021
Bonded Thru Budget Notary Services

Approved:

Director of Planning

Date

Notary Public-State of Florida

Oscar Roca
Print Name

Approved as to form & language & for execution:

City Attorney

Date

Declaration of Restrictive Covenants in Lieu of Unity of Title

Address 5800 PINE TREE DR

Folio No.: 02-3211-014-0870

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EXHIBIT A

MIAMI BEACH

PLANNING DEPARTMENT

Formal Determination of Architectural Significance

May 22, 2015

Ms. Corinna Keller
5800 Pine Tree Drive
Miami Beach, FL 33140

**Re: 5800 Pine Tree Drive, Miami Beach
Request for a Determination of Architectural Significance
DRB20-0512**

Field Visit: May 18, 2020

Dear Ms. Corinna Keller,

Pursuant to your letter and receipt of all the required documentation received in completion on May 12, 2020, the Planning Department has evaluated the subject property at **5800 Pine Tree Drive** to determine whether the existing single-family residence is 'architecturally significant'. This evaluation was done in accordance with the criteria set forth within Section 142-108(a) of the City Code.

A site visit of the subject property was conducted by staff on May 18, 2020. Also, a comprehensive review of all available aerial photographs of the subject residence from 1941 to the present was undertaken to determine the extent of alterations. The following is an analysis of each of the four criteria used to determine if the subject pre-1942 single-family home is 'architecturally significant':

1. The subject structure is characteristic of a specific architectural style constructed in the city prior to 1942, including, but not limited to, Vernacular, Mission Revival Style, **Mediterranean Revival Style**, Art Deco, Modern, Post War Modern, Monterey Colonial, or variations thereof.

Satisfied. *The subject structure was constructed in 1928 in the Mediterranean Revival style of architecture. The City does not have the original building card noting the architect, nor the original permit drawing. However, on the review of aerial photography from 1941 it appears that the predominant massing of the home is similar to the original structure.*



1941 aerial photograph



2020 aerial photograph

2. The exterior of the structure is recognizable as an example of its style and/or period, and its architectural design integrity has not been modified in a manner that cannot be reversed without unreasonable expense.

Satisfied. *The exterior of the structure has retained its architectural integrity. The two-story residence is clearly recognizable as an example of the Mediterranean Revival style with its textured stucco walls, low-pitched roofs adorned with Spanish tiles. One of the predominant architectural features is a tower-like volume wherein the front entrance is sited and has a decorated surround, arched openings on the ground floor, ornate roof brackets, balconies and an open loggia along its side facing a street elevation. Further, the home has many eclectic architectural features that are clearly influenced by the Mediterranean coast and are representative of its revival style and still evident in its current state.*



Site visit photo



MBBR Photo Listing MBBR Photo Listing, 1948 @ Miami-Dade Public Library System

3. Significant exterior architectural characteristics, features, or details of the subject structure remain intact.

Satisfied. Significant exterior architectural characteristics of the Mediterranean Revival style remain intact on the subject structure. These characteristics include low-pitched roofs adorned with Spanish red tiles, decorative roof brackets, a prominent front entrance adorned with a decorative door surround and relief panel, ornate balustrades expressed as alternating rope columns and seahorses, and an open side loggia of baroque columns and arches.



Details: Front entrance, balustrade with seahorse and column detail and open loggia along side

4. The subject structure embodies the scale, character, and massing of the built context of its immediate area.

Satisfied. The Beach View neighborhood along Pine Tree Drive has a distinctive collection of Mediterranean Revival homes, many of which are elaborate mansions fronting Indian Creek. The west side, or dry side, of Pine Tree Drive is predominately comprised of smaller lots with modest two-story single-family homes. Several of the homes in this neighborhood were built in the 1920s and 1930s, and share the Mediterranean Revival style of architecture. Based upon the site inspection and a study of the aerials from 1941 to today, the massing of the structure is consistent with the surrounding neighborhood.

Based on the foregoing, the Planning Department has determined that the subject home meets the criteria in Section 142-108(a) and, therefore, is 'architecturally significant'. In addition to the aforementioned criteria, the determination of architectural significance was based upon a combination of the site visit, as well as the evidence revealed in the aerial photographs and microfilms of all available plans. An appeal of this determination may be made to the Design Review Board, in accordance with the procedures set forth in Section 142-108 of the City Code. Any

future replacement structure associated with a request for the **total** demolition of an architecturally significant single-family home must be reviewed by the Design Review Board (DRB). A permit for the demolition of an architecturally significant single-family home shall not be issued until the DRB approves the design of the replacement home and all required benchmarks for the issuance of a demolition permit have been met in accordance with Section 142-108.

If you wish to pursue significant additions or alterations to the subject structure or property, it may be eligible to utilize zoning incentives identified under Section 142-108(g)(2), provided that the architecturally significant structure is substantially retained and preserved. Please contact James G. Murphy, Chief of Urban Design, at 305-673-7550, in order to determine if such additions and/or alterations require Design Review Board approval or may be approved by Planning staff.

If you wish to pursue the total demolition of the subject structure and the construction of a new home please contact Mr. Murphy in order to begin the board application process.

If you have any further questions or concerns, please do not hesitate to contact either myself or Mr. Murphy.

Sincerely,



Thomas R. Mooney, AICP
Planning Director

c: Rafael Granado, City Clerk
James G. Murphy, Chief of Urban Design
Fernanda Sotelo-Chotel, Principal Planner

DRB20-0512

PROPERTY INFORMATION

Folio: 02-3211-014-0870

Property address: 5800 Pine Tree Dr, Miami Beach. Fl. 33140

FULL LEGAL DESCRIPTION
BEACH VIEW ADDN PB 16-10; LOT 8 BLK 8; LOT SIZE 69.00 X 125;
OR 20930-2909 01 2003 4



PERMIT #

B0301924

35

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT
(This is not a permit & it is a receipt only)

03-04-2003

Receipt: 03-04-2003
Date Applied: 02/19/2003
Date Completed: 02/19/2003
Site Address: 5800 PINETREE DR MRCB
Parcel #: 2311016079

Activity Number: 04010724
Status: APPROVED
Entered By: BULWILR
Date Issued: 03/04/2003
Date Expired: 06/31/2003

Balance Due: \$0.00
Valuation: \$13,000.00

Applicant: SCHACH CONSTRUCTION INC
25700 S.W. 15TH AVENUE
HOMESTEAD FLORIDA 33031
30524-5245

Owner: CORINNA KELLER AN JOAQUIN HERANZ
5800 PINETREE DR
MIAMI BEACH FL 33142

Description: Install POT 14 window & 1 mgl door (1 double door)

Payments made for this receipt:

Date	Method	Description	Amount
03/04/2003	Check	03/04/2003	13,000.00

Total Payment: 13,000.00

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

Item Description	Account Code	Tax Fee	Fee	Prev. Fee	Cur. Fee
01 Building Permit	011000000000	13.00	13.00	13.00	13.00
02 Building Permit	011000000000	13.00	13.00	13.00	13.00
03 Building Permit	011000000000	13.00	13.00	13.00	13.00
04 Building Permit	011000000000	13.00	13.00	13.00	13.00
05 Building Permit	011000000000	13.00	13.00	13.00	13.00
06 Building Permit	011000000000	13.00	13.00	13.00	13.00
07 Building Permit	011000000000	13.00	13.00	13.00	13.00
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97 Building Permit	011000000000	13.00	13.00	13.00	13.00
98 Building Permit	011000000000	13.00	13.00	13.00	13.00
99 Building Permit	011000000000	13.00	13.00	13.00	13.00
100 Building Permit	011000000000	13.00	13.00	13.00	13.00

DAVIS ENGINEERS, P.A.
700 TAMARCA CANAL ROAD, MIAMI, FLORIDA 33141
305-286-2200

Project No: 200044
Date: 02/19/03
Page: 1

BUILDING DEPT. COMMENTS RESPONSE

Project: 200044
Ref: 16/1
Ref: 16/1
City: MIAMI BEACH
County: DADE

ITEM: RESPONSE:

1. PER FOR PREVIOUS PHONE CONVERSATION
BY BULWILR OFFICIAL, MINOR CORRECTIONS
HAVE BEEN UPDATED TO THIS SET OF
PLANS. PER TO WIND LOAD, CORRECTIONS ON PAGE 11.

FOR ITEM 16, REFERENCE SEE
ATTACHED COPY OF BULWILR
REMARKS COMMENTS SHEET.

Wind Load Calculation Worksheet (h < 60ft)
(As per ASCE-7/98)

Project: 200044
Date: February 27, 2003

1. Structure Type: Building
2. Basic Wind Speed: 145 mph
3. Structural Category: II (I = 1.00)
4. Exposure Category: C
5. Type of Roof: Monopitch 3:12 deg.
6. Roof Slope: 20.0 ft
7. Ridge Height: 14.0 ft
8. Eave Height: 17.0 ft
9. Mean Roof Height (h): 35.0 ft
10. Width Parallel to Wind (B): 60.0 ft
11. Width Perpendicular to Wind (L): 60.0 ft
12. Hurricane prone Region: Yes
13. Gust Response Factor (G): 0.85
14. Velocity Pressure Coeff (K): 0.87
15. Topographic Factor (K): 1.00
16. Directional Factor Coeff (K): 0.85
17. Velocity Pressure (q): 40.43 psf

Distance W: 3.00 ft
Min. = 3.00 ft
Max. = 6.00 ft
Avg. = 3.50 ft

Ferrari Exp. Constants:
Wpa = 9.50
Wp = 9.00 ft

Area	GCp (1)	GCp (2)	GCp (3)
10	48	-52	-54
20	40	-50	-54
30	42	-48	-54
40	40	-48	-54
50	38	-42	-44

Area	GCp (1)	GCp (2)	GCp (3)
10	48	-52	-54
20	40	-50	-54
30	42	-48	-54
40	40	-48	-54
50	38	-42	-44

template - Component and Cladding ASCE 7 98 (less than 60 ft) 201

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35

2/27/2003 10:08 AM

Template - Component and Cladding ASCE 7 98 (less than 60 ft) 34

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2K45040

WINDOW/DOOR PRESSURE SCHEDULE

NO.	DESC.	W	H	AREA	WIND	NO.	WIND	NO.	WIND	COMMENTS
1	WIND	24	42	1008	100	1	100	1	100	OPTION 1
2	WIND	24	100	2400	100	2	100	2	100	OPTION 1
3	WIND	24	82	1968	100	3	100	3	100	OPTION 1
4	WIND	24	80	1920	100	4	100	4	100	OPTION 1
5	WIND	24	78	1872	100	5	100	5	100	OPTION 1
6	WIND	24	76	1824	100	6	100	6	100	OPTION 1
7	WIND	24	74	1776	100	7	100	7	100	OPTION 1
8	WIND	24	72	1728	100	8	100	8	100	OPTION 1
9	WIND	24	70	1680	100	9	100	9	100	OPTION 1
10	WIND	24	68	1632	100	10	100	10	100	OPTION 1
11	WIND	24	66	1584	100	11	100	11	100	OPTION 1
12	WIND	24	64	1536	100	12	100	12	100	OPTION 1
13	WIND	24	62	1488	100	13	100	13	100	OPTION 1
14	WIND	24	60	1440	100	14	100	14	100	OPTION 1
15	WIND	24	58	1392	100	15	100	15	100	OPTION 1
16	WIND	24	56	1344	100	16	100	16	100	OPTION 1
17	WIND	24	54	1296	100	17	100	17	100	OPTION 1
18	WIND	24	52	1248	100	18	100	18	100	OPTION 1
19	WIND	24	50	1200	100	19	100	19	100	OPTION 1
20	WIND	24	48	1152	100	20	100	20	100	OPTION 1
21	WIND	24	46	1104	100	21	100	21	100	OPTION 1
22	WIND	24	44	1056	100	22	100	22	100	OPTION 1
23	WIND	24	42	1008	100	23	100	23	100	OPTION 1
24	WIND	24	40	960	100	24	100	24	100	OPTION 1
25	WIND	24	38	912	100	25	100	25	100	OPTION 1
26	WIND	24	36	864	100	26	100	26	100	OPTION 1
27	WIND	24	34	816	100	27	100	27	100	OPTION 1
28	WIND	24	32	768	100	28	100	28	100	OPTION 1
29	WIND	24	30	720	100	29	100	29	100	OPTION 1
30	WIND	24	28	672	100	30	100	30	100	OPTION 1
31	WIND	24	26	624	100	31	100	31	100	OPTION 1
32	WIND	24	24	576	100	32	100	32	100	OPTION 1
33	WIND	24	22	528	100	33	100	33	100	OPTION 1
34	WIND	24	20	480	100	34	100	34	100	OPTION 1
35	WIND	24	18	432	100	35	100	35	100	OPTION 1
36	WIND	24	16	384	100	36	100	36	100	OPTION 1
37	WIND	24	14	336	100	37	100	37	100	OPTION 1
38	WIND	24	12	288	100	38	100	38	100	OPTION 1
39	WIND	24	10	240	100	39	100	39	100	OPTION 1
40	WIND	24	8	192	100	40	100	40	100	OPTION 1
41	WIND	24	6	144	100	41	100	41	100	OPTION 1
42	WIND	24	4	96	100	42	100	42	100	OPTION 1
43	WIND	24	2	48	100	43	100	43	100	OPTION 1
44	WIND	24	0	0	100	44	100	44	100	OPTION 1
45	WIND	24	0	0	100	45	100	45	100	OPTION 1
46	WIND	24	0	0	100	46	100	46	100	OPTION 1
47	WIND	24	0	0	100	47	100	47	100	OPTION 1
48	WIND	24	0	0	100	48	100	48	100	OPTION 1
49	WIND	24	0	0	100	49	100	49	100	OPTION 1
50	WIND	24	0	0	100	50	100	50	100	OPTION 1

WINDOW MULLION SCHEDULE

NO.	W	H	WIND	WIND	WIND	COMMENTS
1	24	42	100	100	100	OPTION 1
2	24	100	100	100	100	OPTION 1
3	24	82	100	100	100	OPTION 1
4	24	80	100	100	100	OPTION 1
5	24	78	100	100	100	OPTION 1
6	24	76	100	100	100	OPTION 1
7	24	74	100	100	100	OPTION 1
8	24	72	100	100	100	OPTION 1
9	24	70	100	100	100	OPTION 1
10	24	68	100	100	100	OPTION 1
11	24	66	100	100	100	OPTION 1
12	24	64	100	100	100	OPTION 1
13	24	62	100	100	100	OPTION 1
14	24	60	100	100	100	OPTION 1
15	24	58	100	100	100	OPTION 1
16	24	56	100	100	100	OPTION 1
17	24	54	100	100	100	OPTION 1
18	24	52	100	100	100	OPTION 1
19	24	50	100	100	100	OPTION 1
20	24	48	100	100	100	OPTION 1
21	24	46	100	100	100	OPTION 1
22	24	44	100	100	100	OPTION 1
23	24	42	100	100	100	OPTION 1
24	24	40	100	100	100	OPTION 1
25	24	38	100	100	100	OPTION 1
26	24	36	100	100	100	OPTION 1
27	24	34	100	100	100	OPTION 1
28	24	32	100	100	100	OPTION 1
29	24	30	100	100	100	OPTION 1
30	24	28	100	100	100	OPTION 1
31	24	26	100	100	100	OPTION 1
32	24	24	100	100	100	OPTION 1
33	24	22	100	100	100	OPTION 1
34	24	20	100	100	100	OPTION 1
35	24	18	100	100	100	OPTION 1
36	24	16	100	100	100	OPTION 1
37	24	14	100	100	100	OPTION 1
38	24	12	100	100	100	OPTION 1
39	24	10	100	100	100	OPTION 1
40	24	8	100	100	100	OPTION 1
41	24	6	100	100	100	OPTION 1
42	24	4	100	100	100	OPTION 1
43	24	2	100	100	100	OPTION 1
44	24	0	100	100	100	OPTION 1
45	24	0	100	100	100	OPTION 1
46	24	0	100	100	100	OPTION 1
47	24	0	100	100	100	OPTION 1
48	24	0	100	100	100	OPTION 1
49	24	0	100	100	100	OPTION 1
50	24	0	100	100	100	OPTION 1

DAVIS ENGINEERS, P.A. Project No. 2000-1000
7800 BAYVIEW BLVD., SUITE 100, MIAMI BEACH, FLORIDA 33141
DATE: 02/21/03
PAGE: 1

BUILDING DEPT. COMMENTS RESPONSE

PROJECT: 2000-1000 / 2000-1000 DRIVE, MIAMI BEACH

PERMIT NO.: 2000-1000 CITY: MIAMI BEACH COUNTY: MIAMI BEACH

ITEM: RESPONSE:

CONSTRUCTION ANALYSIS FOR WINDOWS
IT IS RECOMMENDED THAT THE
RESPONSE (ANALYSIS) BE
SUBMITTED TO THE PERMITTING
AGENCY FOR REVIEW.

FOR ITEM NO. 10, RESPONSE NO. 1
ATTACHED TO THE PERMIT
SUBMITTAL COMMENTS SHEET.

DAVIS ENGINEERS, P.A.
7800 BAYVIEW BLVD., SUITE 100, MIAMI BEACH, FLORIDA 33141
PHONE: 305-444-4444

DAVIS ENGINEERS, P.A.
750 TAMMAM CANAL ROAD - MIAMI, FLORIDA 33144
305-281-2300

Project: VELLER RES.

Job No.: 2102040
Date: 02/21/03

Comparative Analysis

Windows: 11 x 13: CONCRETE WINDOWS
PE# 01-1108.07

Approved Window Size: 52" x 68"
(W) (H)

Rated Capacity = $+75 \text{ psf} / -75 \text{ psf}$
Area = $52" \times 68" = 4136 \text{ in}^2 (28.1 \text{ SF})$

Total Wind Force = $+75 \text{ psf} \times (15.1 \text{ ft}^2) = +1132 \text{ lb}$
or $-75 \text{ psf} \times (15.1 \text{ ft}^2) = -1132 \text{ lb}$

Perimeter = $2(52" + 68") = 232 \text{ in}$

Wind Load on Frame of = $1132 \text{ lb} / 232" = 4.88 \text{ lb/ft}$

Approved Window

Proposed Window Size: 52" x 68"
(W) (H)

Perimeter of = $2(52" + 68") = 232 \text{ in}$

Allowable Load = $145 \text{ lb/ft} \times 232" = 33640 \text{ lb}$

Area of Proposed Window = $52" \times 68" = 3536 \text{ in}^2 (25.1 \text{ SF})$

Allowable Area = $33640 \text{ lb} / 9.5 \text{ psf} = 3541 \text{ SF}$

USE IN PLANS

DAVIS ENGINEERS, P.A.
750 TAMMAM CANAL ROAD - MIAMI, FLORIDA 33144
305-281-2300

Project: VELLER RES.

Job No.: 2102040
Date: 02/21/03

Comparative Analysis

Windows: 14 x 16: HORIZONTAL SLIDING WINDOW
PE# 01-1108.08
Glass type: 10

Approved Window Size: 74" x 68"
(W) (H)

Rated Capacity = $+60 \text{ psf} / -75 \text{ psf}$
Area of Approved Window = $74" \times 68" = 5032 \text{ in}^2 (35.9 \text{ SF})$

Total Wind Force = $+60 \text{ psf} \times 35.9 \text{ SF} = 2154 \text{ lb}$
or $-75 \text{ psf} \times 35.9 \text{ SF} = 2693 \text{ lb}$

Approved Window Perimeter = $2(74" + 68") = 284 \text{ in}$

Wind Load on = $2154 \text{ lb} / 284" = 7.58 \text{ lb/ft}$

Frame of Approved Window = $2693 \text{ lb} / 284" = 9.48 \text{ lb/ft}$

Proposed Window Size: 74" x 68"
(W) (H)

Perimeter of Proposed Window = $2(74" + 68") = 284 \text{ in}$

Allowable Load on Frame = $145 \text{ lb/ft} \times 284" = 41180 \text{ lb}$

Area of Proposed Window = $74" \times 68" = 5032 \text{ in}^2 (35.9 \text{ SF})$

Allowable Area = $41180 \text{ lb} / 9.5 \text{ psf} = 4335 \text{ SF}$

USE IN PLANS

DAVIS ENGINEERS, P.A.
750 TAMMAM CANAL ROAD - MIAMI, FLORIDA 33144
PHONE 305-281-2300 FAX 305-281-1506

Project: VELLER RES.

Client: SCHACH. CONST.

DE No.: 2102040

Structural Calculations

Description: WINDOW REPLACEMENT
WIND PRESSURES

DATE: 02/14/03

No. of Pages: 3

Felix Tong, P.E.
Structural Engineer
FL No. 54223

Project: 2N1133
Date: February 14, 2003

Wind Load Calculation Worksheet (h < 60ft)

1. Structure Type: Building
2. Basic Wind Speed: 146 mph (1 = 1.00)
3. Exposure Category: C
4. Type of Roof: Monoslope 3:12 deg.
5. Ridge Height: 20.0 ft
6. Eave Height: 14.0 ft
7. Mean Roof Height (h): 17.0 ft
8. Width Parallel to Wind (W): 35.0 ft
9. Width Perpendicular to Wind (D): 80.0 ft
10. Hurricane prone Region: Yes
11. Gust Response Factor (G): 0.85
12. Velocity Pressure Coeff (K_z): 0.87
13. Topographic Factor (K_t): 1.00
14. Directional Factor Coeff (K_d): 1.00
15. Velocity Pressure (q_h): 47.56 psf

Distance 'x':
Min = 3.00 ft
0.47h = 6.60 ft
0.18 + 0.1 = 3.50 ft

Terrain Exp. Constants:
alpha = 9.50
z₀ = 800 ft

Area	GCP (1)	GCP (2)
10	55	-51
20	54	-50
30	49	-45
40	47	-43
50	44	-40
60	44	-40

Area	GCP (1)	GCP (2)	GCP (3)	GCP (4)
10	55	-51	-51	-51
20	54	-50	-50	-50
30	49	-45	-45	-45
40	47	-43	-43	-43
50	44	-40	-40	-40
60	44	-40	-40	-40

Project: 2N1133
Date: February 14, 2003

Wind Load Calculation Worksheet (h < 60ft)

1. Structure Type: Building
2. Basic Wind Speed: 146 mph (1 = 1.00)
3. Exposure Category: C
4. Type of Roof: Monoslope 3:12 deg.
5. Ridge Height: 20.0 ft
6. Eave Height: 14.0 ft
7. Mean Roof Height (h): 17.0 ft
8. Width Parallel to Wind (W): 35.0 ft
9. Width Perpendicular to Wind (D): 80.0 ft
10. Hurricane prone Region: Yes
11. Gust Response Factor (G): 0.85
12. Velocity Pressure Coeff (K_z): 0.87
13. Topographic Factor (K_t): 1.00
14. Directional Factor Coeff (K_d): 1.00
15. Velocity Pressure (q_h): 47.56 psf

Distance 'x':
Min = 3.00 ft
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10	55	-51
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30	49	-45
40	47	-43
50	44	-40
60	44	-40

Area	GCP (1)	GCP (2)	GCP (3)	GCP (4)
10	55	-51	-51	-51
20	54	-50	-50	-50
30	49	-45	-45	-45
40	47	-43	-43	-43
50	44	-40	-40	-40
60	44	-40	-40	-40

Project: 2N1133
Date: February 14, 2003

Wind Load Calculation Worksheet (h < 60ft)

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3. Exposure Category: C
4. Type of Roof: Monoslope 3:12 deg.
5. Ridge Height: 20.0 ft
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Area	GCP (1)	GCP (2)
10	55	-51
20	54	-50
30	49	-45
40	47	-43
50	44	-40
60	44	-40

Area	GCP (1)	GCP (2)	GCP (3)	GCP (4)
10	55	-51	-51	-51
20	54	-50	-50	-50
30	49	-45	-45	-45
40	47	-43	-43	-43
50	44	-40	-40	-40
60	44	-40	-40	-40

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

PRODUCT CONTROL NOTICE OF ACCEPTANCE

DAAB Door Company, Inc.
12195 NW 98 Avenue
Hialeah Gardens, FL 33018

CONTRACTOR LICENSING SECTION
(305) 375-3727 FAX (305) 375-3728

CITY OF MIAMI BUILDING CODE COMPLIANCE OFFICE
(305) 375-2966 FAX (305) 375-2976

PRODUCT CONTROL DIVISION
(305) 375-2972 FAX (305) 375-2973

Your application for Notice of Acceptance (NOA) of:
Residential Steel Overhead Garage Door
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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure the product or material at any time from a jobsite or manufacturer's plant for quality control testing. If the product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend its use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by 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.: 88-111141
EXPIRES: 02/22/2005

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL REVIEW COMMITTEE.

OFFICE COPY

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: *[Signature]*
ZONING: *[Signature]*
ELECTRICAL: *[Signature]*
MECHANICAL: *[Signature]*
FIRE PREVENTION: *[Signature]*
ENGINEERING: *[Signature]*
PUBLIC WORKS: *[Signature]*
PLANNING: *[Signature]*
ACCESSIBILITY: *[Signature]*

APPROVED: 02/22/2003

Internet mail address: permits@buildingcode.com Homepage: <http://www.buildingcodeonline.com>

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DAB Door Company, Inc.

ACCEPTANCE No. 98-11181
APPROVED: FEB 2 2 2001
EXPIRES: FEB 2 2 2005

NOTICE OF ACCEPTANCE - SPECIFIC CONDITIONS

- SCOPE**
This approves a sectional steel garage door 16'-1" wide x 6'-6" through 16'-0" high, as described in Section 2 of this Notice of Acceptance (NOA), designed to comply with the South Florida Building Code, Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.
- PRODUCT DESCRIPTION**
The DAB Sectional Garage Door Model 824 and its components shall be constructed in strict compliance with the following documents: Drawing No. 00-11, titled "Sectional Residential Garage Door" prepared by Al-Farooq Corporation, drawn on 08/24/00, with last revision on 01/09/01, sheet 1 through 3 of 3. They shall be manufactured in strict compliance with the Notice of Acceptance number 98-11181, approved date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.
- LIMITATIONS**
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 tested in accordance with ASTM F 1454 by a Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office a copy of the tested reports with confirmation that the specimens were selected from coils at the manufacturer's production facilities. And a required statement from the manufacturer that only coils with yield strength of 34,000 psi or more shall be used to make door panels for Dade County under this Notice of Acceptance.
- INSTALLATION**
4.1 The sectional steel garage door and its components shall be installed in strict compliance with approved drawings.
4.2 The installation of this door does not require a hurricane protection system.
4.3 Units with dimensions equal to or smaller than those shown in the approved drawing shall comply with this approval.
- LABELING**
Each door shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".
- BUILDING PERMIT REQUIREMENTS**
6.1 Application for building permits 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 NOA, 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 (SFBDC) in order to properly evaluate the installation of this system.

Candido Font, P.E., Sr. Product Control Exam
Product Control Division

DAB Door Company, Inc.

ACCEPTANCE No. 98-11181
APPROVED: FEB 2 2 2001
EXPIRES: FEB 2 2 2005

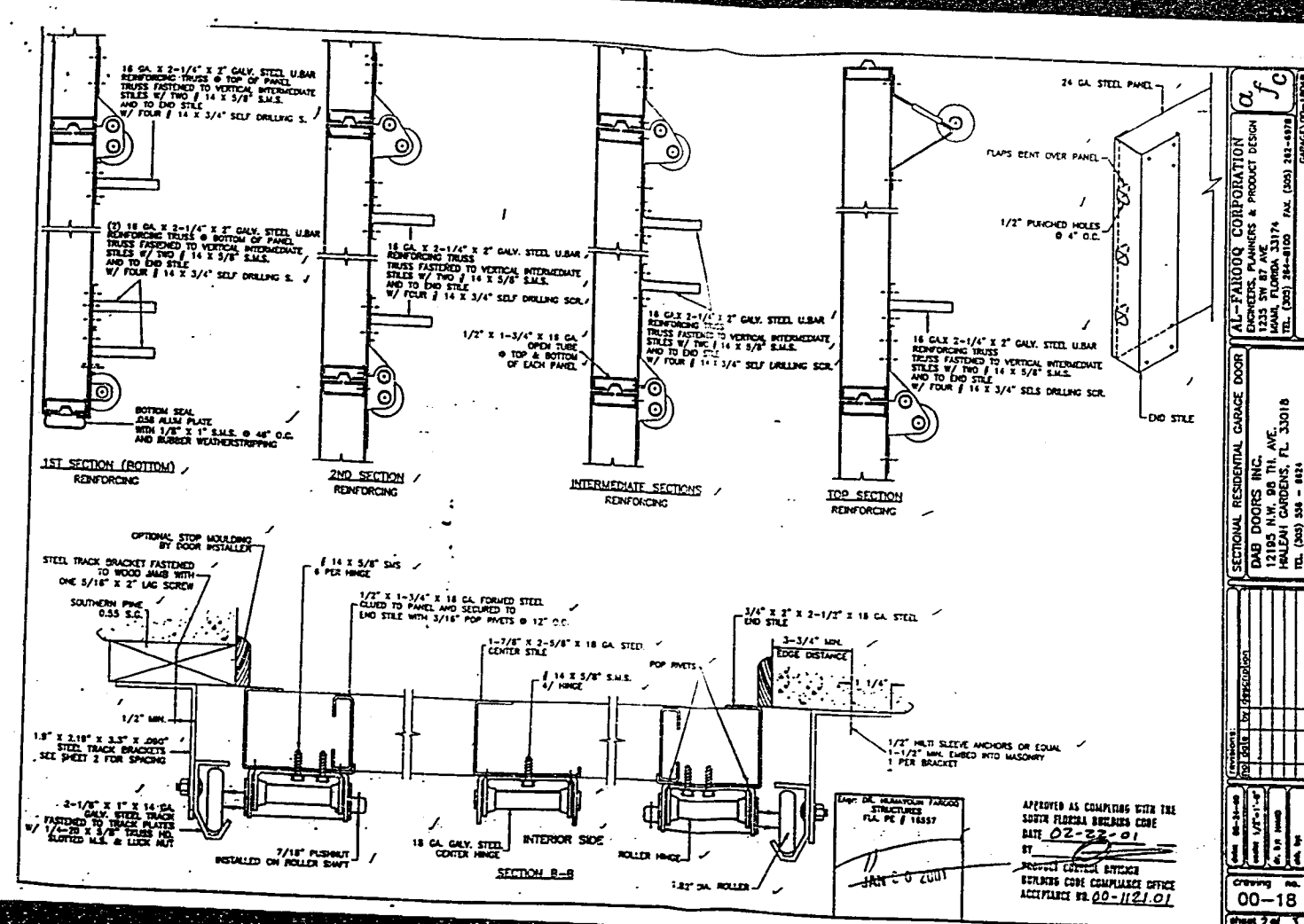
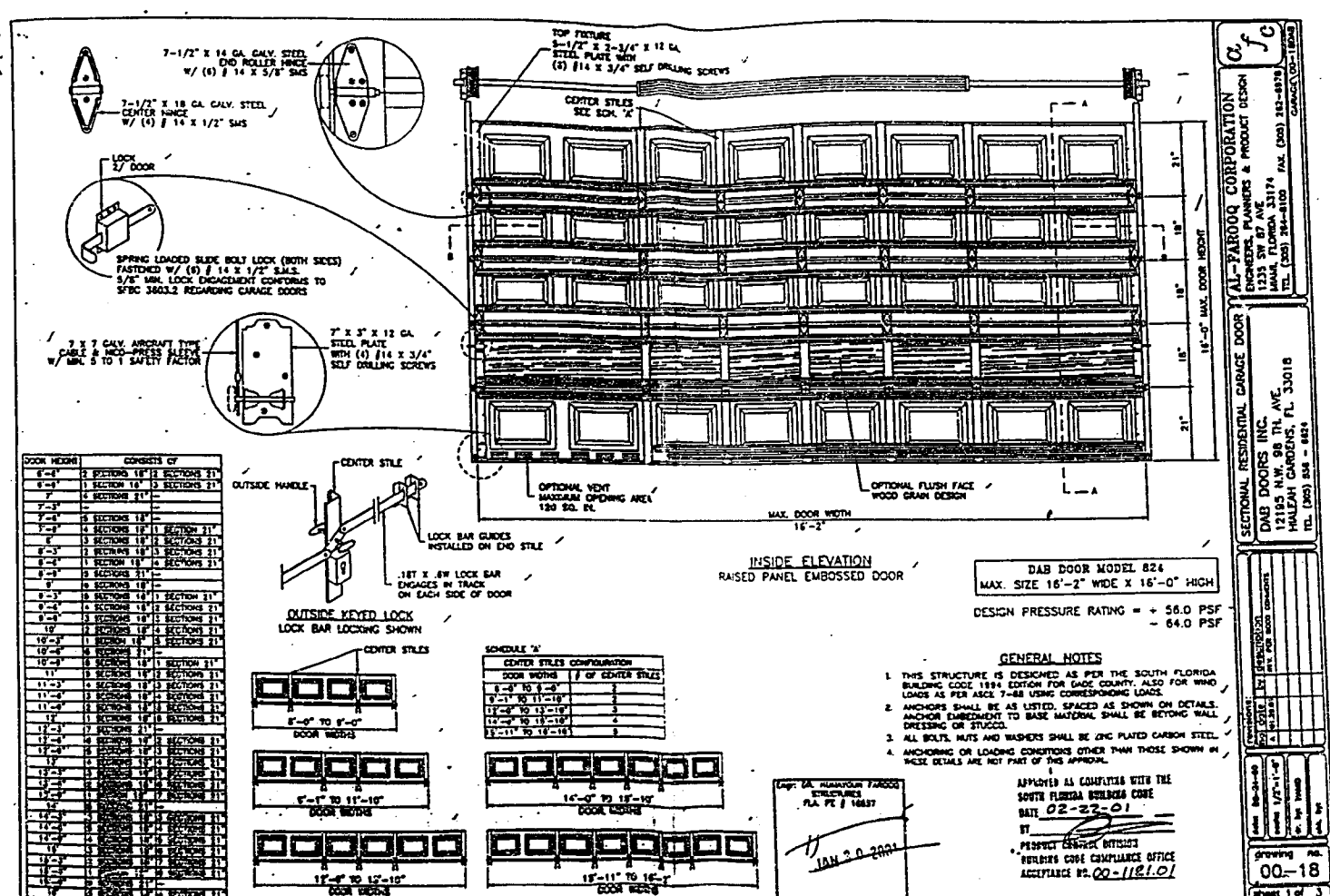
NOTICE OF ACCEPTANCE - SPECIFIC CONDITIONS

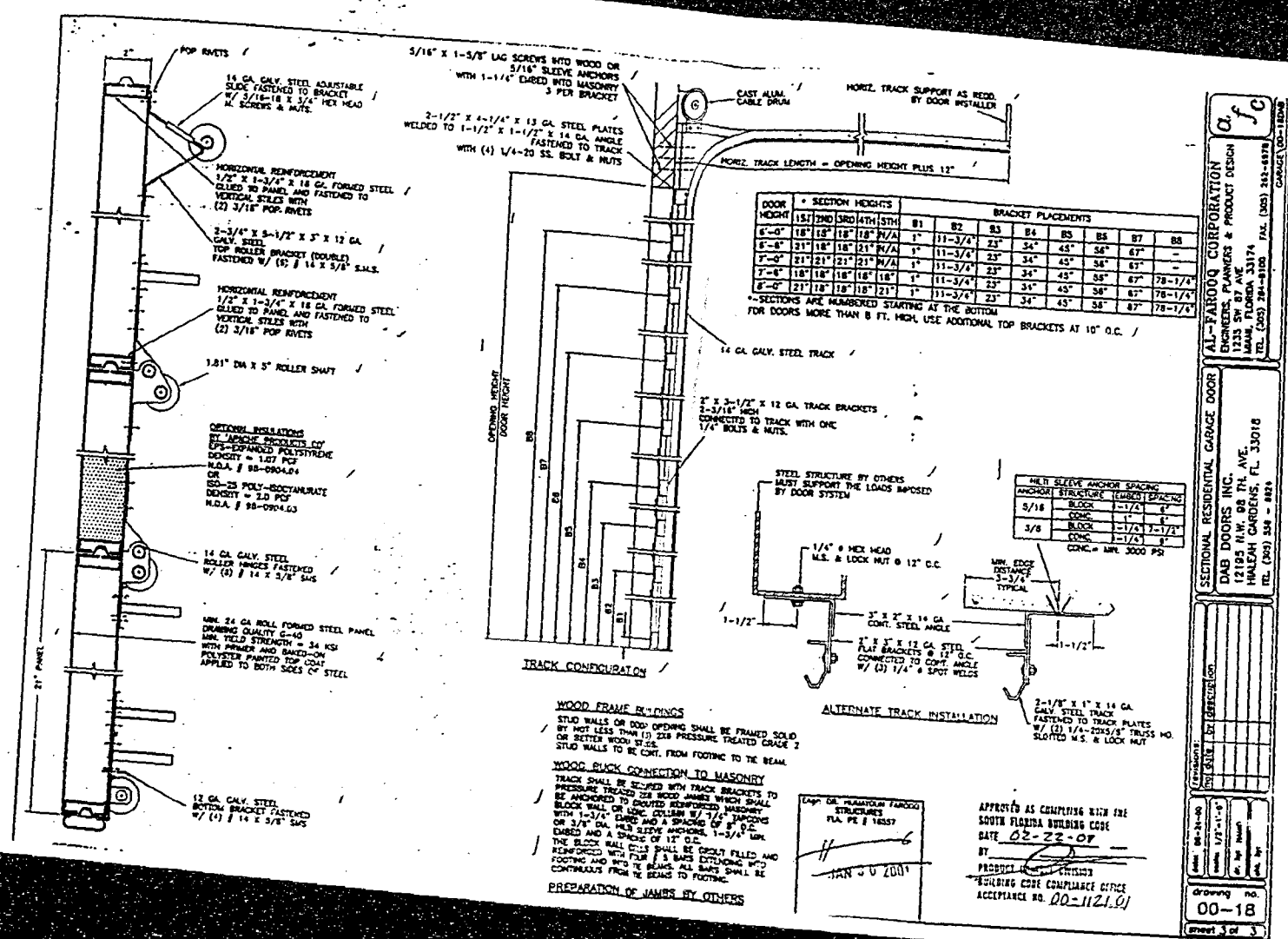
- Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and original submitted documents, including test supporting data, engineering documents, are no older than 5 (5) years.
- Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and following statement: "Miami-Dade County Product Control Approved", or as specifically stated in specific conditions of this Acceptance.
- 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 correct installation of the product.
d. The engineer, who originally prepared, signed and sealed the required documentation and submitted, is no longer practicing the engineering profession.
- Any revision or change in the materials, size, and/or manufacturer of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through filing of a revision application with appropriate fee) and granted by this office.
- 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.
- The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by 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.
- 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 at all times. The engineer need not reveal the copies.
- Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Candido Font, P.E., Sr. Product Control Exam
Product Control Division

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MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

PRODUCT CONTROL NOTICE OF ACCEPTANCE

1070 Technology Drive
Noblesville, IN 46060

Your application for Notice of Acceptance (NOA) of:
Aluminum Casement Window Frames
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternative 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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to accept this product or material at any time from a job site or manufacturer's plant for quality control testing. If the use of such product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the NOA. BCCO reserves the right to require the replacement of the product or material if it is found to be defective.

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

ACCEPTANCE NO: 00-1108-07
EXPIRATION: 12/28/07

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT
THE FOLLOWING:

BUILDING: _____
ZONING: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
ENGINEERING: _____
PUBLIC WORKS: _____

APPROVED BY: _____
DATE: 02-28-07

APPROVED BY: _____
DATE: 02-28-07

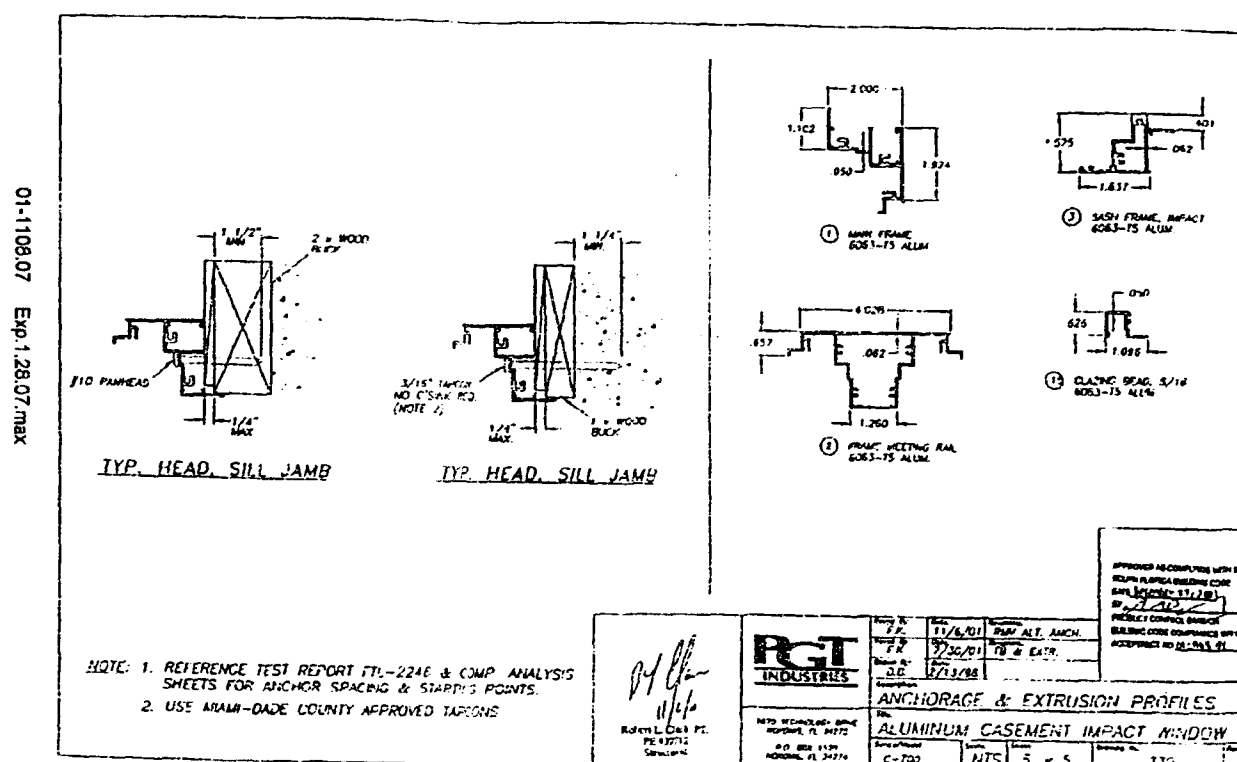
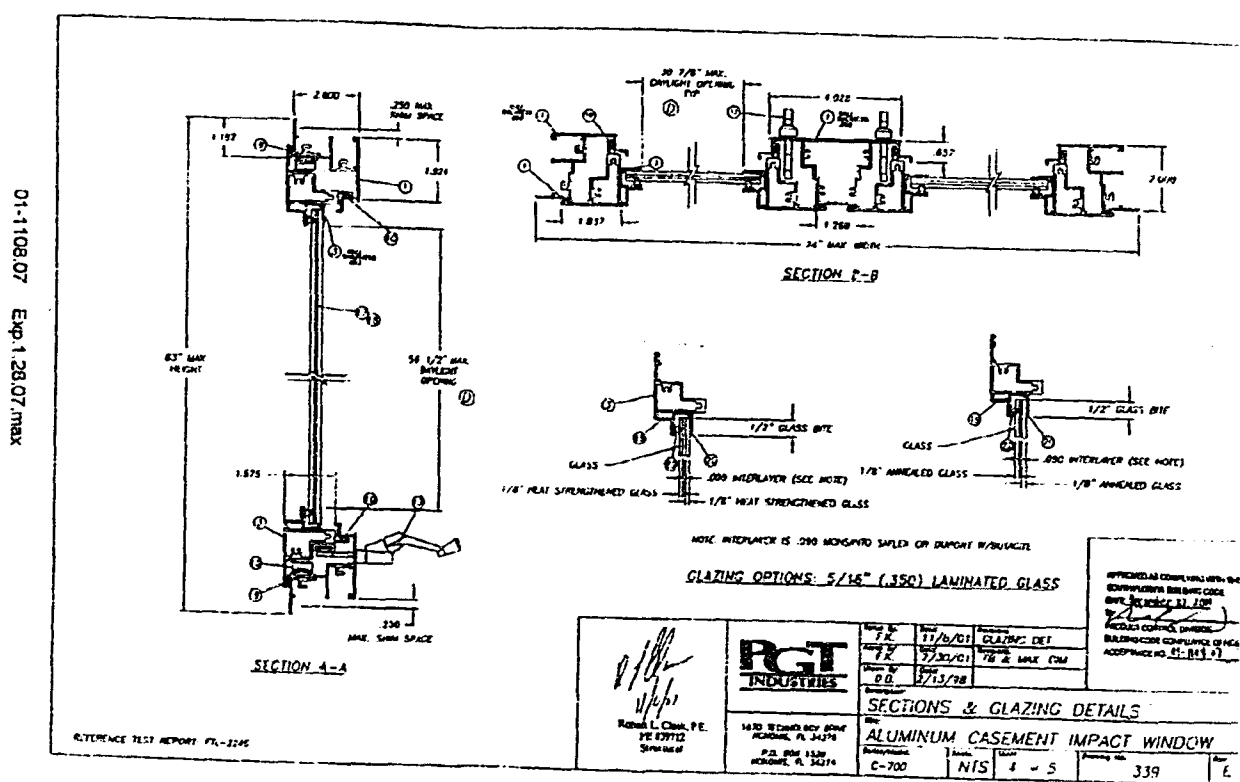
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01-1108 07 Exp 1.28 07 max

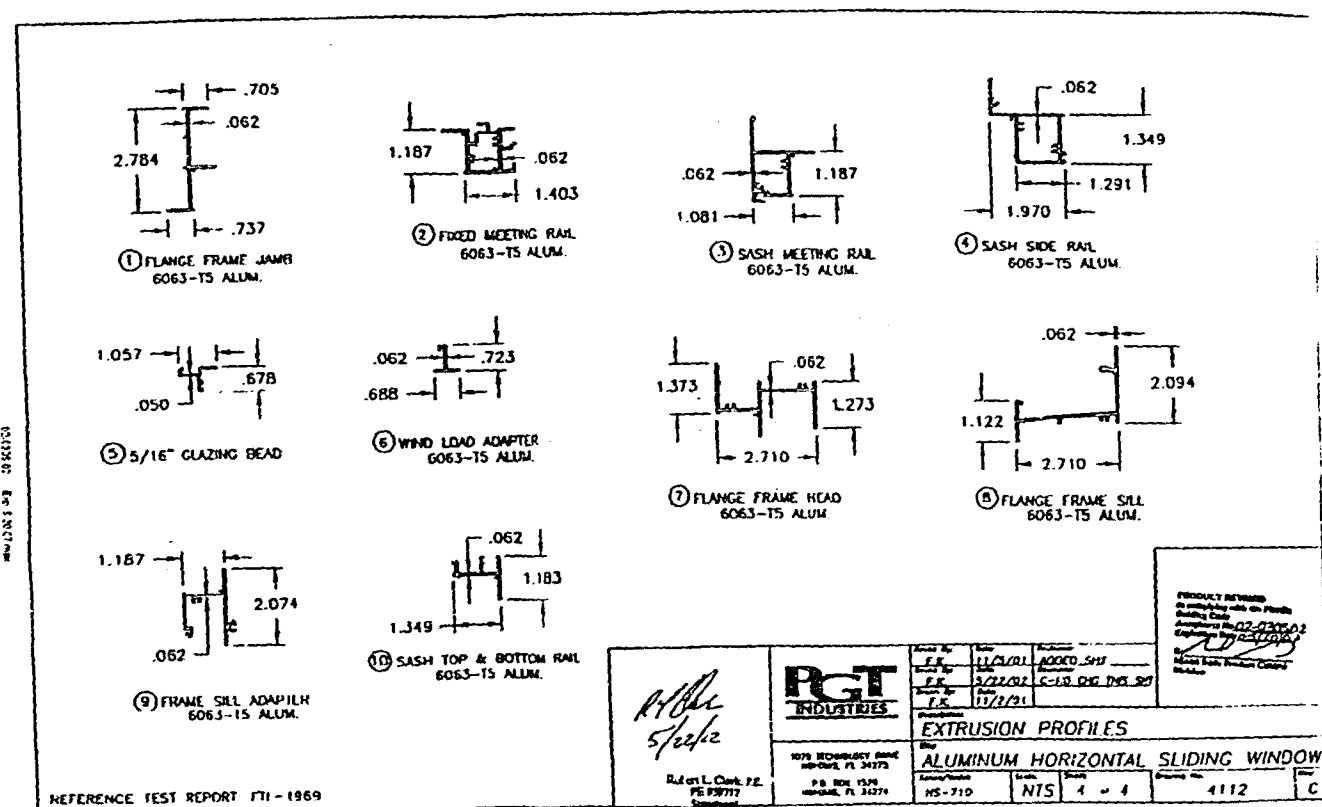
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DESIGN PRESSURE RATING: 75 PSF + 567 PSF					
CLASS TYPE A OR B DETERMINATION (SEE NOTE 1)					
WINDYWAY	WINDYWAY HEIGHT				
WIDTH	26,000	36,375	44,000	50,625	63,000
26,000	A	A	A	A	A
36,000	A	A	A	A	A
44,000	A	A	A	A	B
52,125	A	A	B	B	B
63,000	A	B	B	B	B
74,000	A	B	B	B	B

permanently label with the manufacturer's name, address, and telephone number. The label should be placed on the inside of the container, in a location that is easily accessible. The label should be placed on the inside of the container, in a location that is easily accessible. The label should be placed on the inside of the container, in a location that is easily accessible.



MIAMI-DADE COUNTY, FL
METRO-DADE FLAGLER BUILDING CODE COMPLIANCE OFFICE
140 WEST FLAGLER STREET, SUITE 100
MIAMI, FL 33135
(305) 375-2944 FAX (305) 375-2945
CONTRACTOR LICENSING DIV.
(305) 375-2315 FAX (305) 375-2316
CONTRACTOR ENFORCEMENT DIV.
(305) 375-2944 FAX (305) 375-2945
PRODUCT CONTROL DIV.
(305) 375-2942 FAX (305) 375-2943

PRODUCT CONTROL NOTICE OF ACCEPTANCE
FCT Industries
1810 Technology Drive
Nakemits FL 34274

Your application for Product Approval of:
Series Dairwing Aluminum French Door w/ Sidelites-Impact
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and T, Construction, and completely described herein, has been recommended for acceptance by the Miami 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 see 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. **99-0716.01**
Expires: **02/11/2003**

Raul Rodriguez
Chief Product Control Officer

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

OFFICE COPY

This application for Product Approval was reviewed and approved by the Building and Product Review Committee on **01/14/03** under the conditions set forth above.

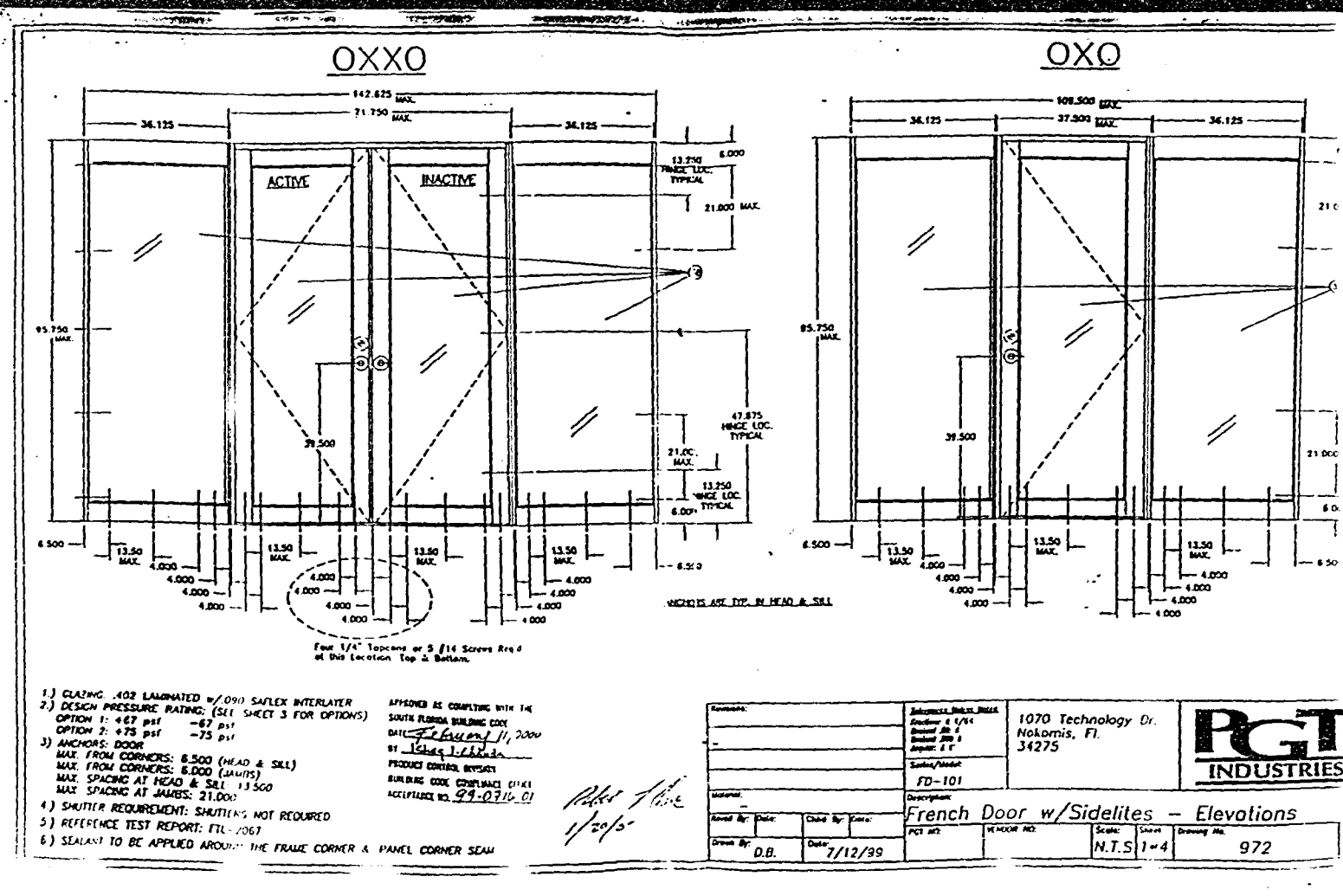
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: ☒ *[Signature]*
ZONING: ☒
PLUMBING: ☒
ELECTRICAL: ☒
MECHANICAL: ☒
FIRE PREVENTION: ☒
ENGINEERING: ☒
PUBLIC WORKS: ☒
STRUCTURAL: ☒

Approved: **02/11/2000**

Internet web address: <http://www.bccco.com>

35



RGT Industries

ACCEPTANCE No.: 972-01-01

APPROVED: FEB 11

EXPIRES: FEB 11

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed original submitted documentation, including test supporting data, engineering documents, are no older than (5) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, 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; 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 correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall require the owner for termination of this Acceptance, unless prior written approval has been requested (through 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 purpose.
6. The Notice of Acceptance number preceded by the word Miami-Dade County, Florida, and followed by 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 user's site at all times. The engineer need not seal 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.

Ismael L. Chanda, P.E.
 Ismael Chanda, P.E., Product Control Examining Engineer
 Product Control Division
 END OF THIS ACCEPTANCE
 3 of 3

RGT Industries

ACCEPTANCE No.: 972-01-01

APPROVED: FEB 11

EXPIRES: FEB 11

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE
 - a) This approves an outswing aluminum French door, as described in Section 2 of this Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 (Miami-Dade County), for the locations where the pressure requirements, as determined Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.
2. PRODUCT DESCRIPTION
 - a) The Series Outswing Aluminum French Doors w/ Sidelites-Large Missile Impact Resistant components shall be constructed in strict compliance with the following documents: Do 972, titled "French Door w/ Sidelites" Sheets 1 through 4 of 4, prepared by manufacturer 07/12/99, 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 Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as approved drawings.
3. LIMITATIONS
 - a) This approval applies to single unit application of pair of doors and single door w/ Sidelites shown in approved drawings. Single door unit shall include described in the active leaf of the approval.
4. INSTALLATION
 - a) The outswing aluminum French doors w/ sidelites and its components shall be installed in strict compliance with the approved drawings.
 - b) Hurricane protection system (shutters): the installation of this unit will not require a hurricane protection system.
5. LABELING
 - a) 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".
6. BUILDING PERMIT REQUIREMENTS
 - a) Application for building permit shall be accompanied by copies of the following:
 - i) 6.1.1 This Notice of Acceptance
 - i) 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.
 - i) 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.

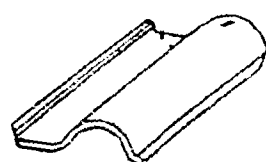
Ismael L. Chanda, P.E.
 Ismael Chanda, P.E., Product Control Examining Engineer
 Product Control Division
 2 of 3

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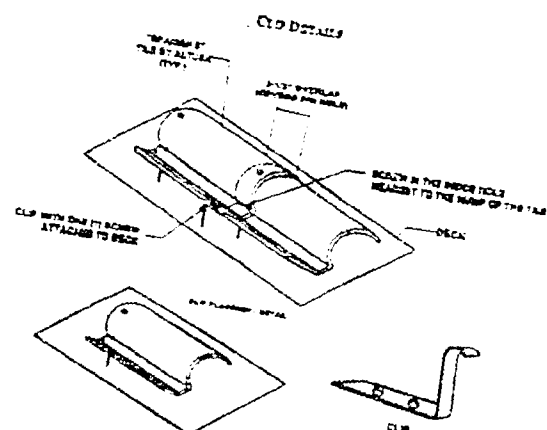
Table 5A: Attachment Resistance Expressed as a Moment - 54 (N-B)			
for Single Party Adhesive Set Systems			
Title	Profile	Attachment Resistance	Application
One Piece 1/2" Tile	One Piece 1/2" Tile	24.50	24.50
Two Piece 1/2" Tile	Two Piece 1/2" Tile	24.50	24.50
Three Piece 1/2" Tile	Three Piece 1/2" Tile	24.50	24.50
Four Piece 1/2" Tile	Four Piece 1/2" Tile	24.50	24.50
Five Piece 1/2" Tile	Five Piece 1/2" Tile	24.50	24.50
Six Piece 1/2" Tile	Six Piece 1/2" Tile	24.50	24.50
Seven Piece 1/2" Tile	Seven Piece 1/2" Tile	24.50	24.50
Eight Piece 1/2" Tile	Eight Piece 1/2" Tile	24.50	24.50
Nine Piece 1/2" Tile	Nine Piece 1/2" Tile	24.50	24.50
Ten Piece 1/2" Tile	Ten Piece 1/2" Tile	24.50	24.50
Eleven Piece 1/2" Tile	Eleven Piece 1/2" Tile	24.50	24.50
Twelve Piece 1/2" Tile	Twelve Piece 1/2" Tile	24.50	24.50
Thirteen Piece 1/2" Tile	Thirteen Piece 1/2" Tile	24.50	24.50
Fourteen Piece 1/2" Tile	Fourteen Piece 1/2" Tile	24.50	24.50
Fifteen Piece 1/2" Tile	Fifteen Piece 1/2" Tile	24.50	24.50
Sixteen Piece 1/2" Tile	Sixteen Piece 1/2" Tile	24.50	24.50
Seventeen Piece 1/2" Tile	Seventeen Piece 1/2" Tile	24.50	24.50
Eighteen Piece 1/2" Tile	Eighteen Piece 1/2" Tile	24.50	24.50
Nineteen Piece 1/2" Tile	Nineteen Piece 1/2" Tile	24.50	24.50
Twenty Piece 1/2" Tile	Twenty Piece 1/2" Tile	24.50	24.50

3. LABELING
All tile shall bear the letter or identifier marking of the manufacturer's name or logo in following locations: "Manufacturer's Name/Logo Approved"
4. BUILDING PERMIT REQUIREMENTS
4.1 Application for building permit shall be accompanied by copies of the following:
4.1.1 Title Sheet of Acceptance
4.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of the system

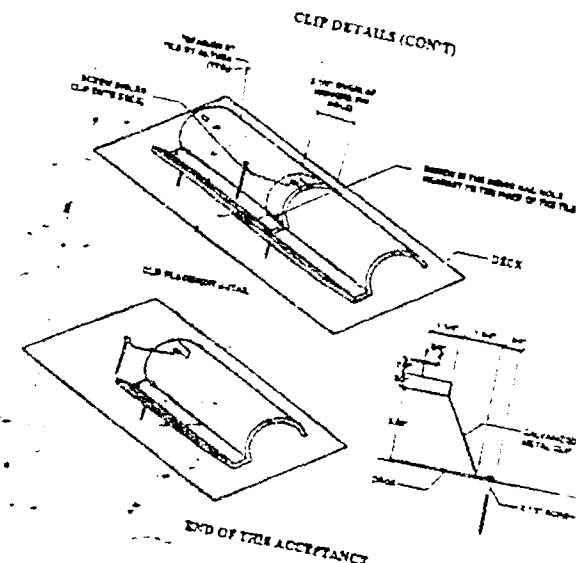
PROFILE DRAWINGS



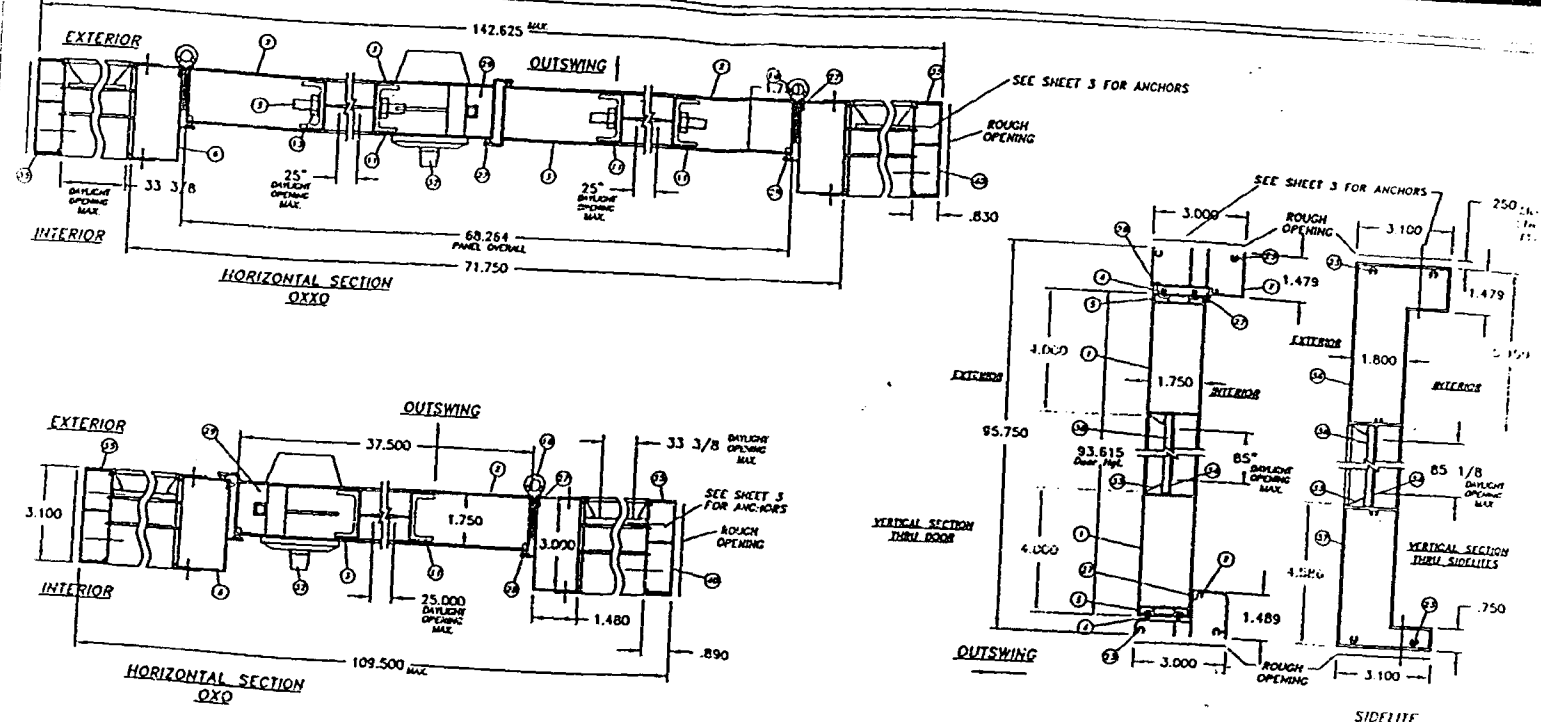
NDA No. 95-1112-83
Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 2 of 4



NDA No. 95-1112-83
Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 3 of 4

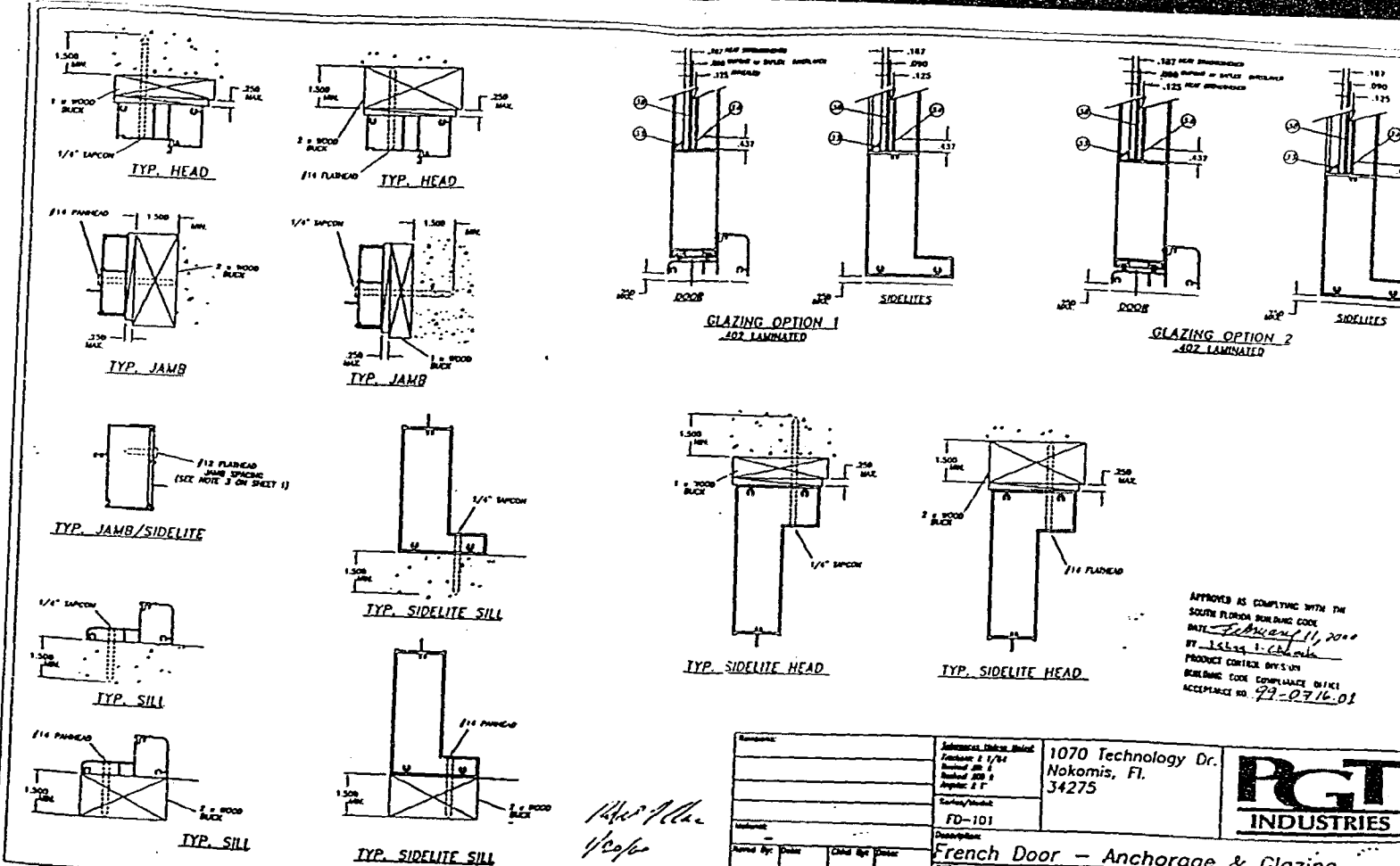


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Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 4 of 4



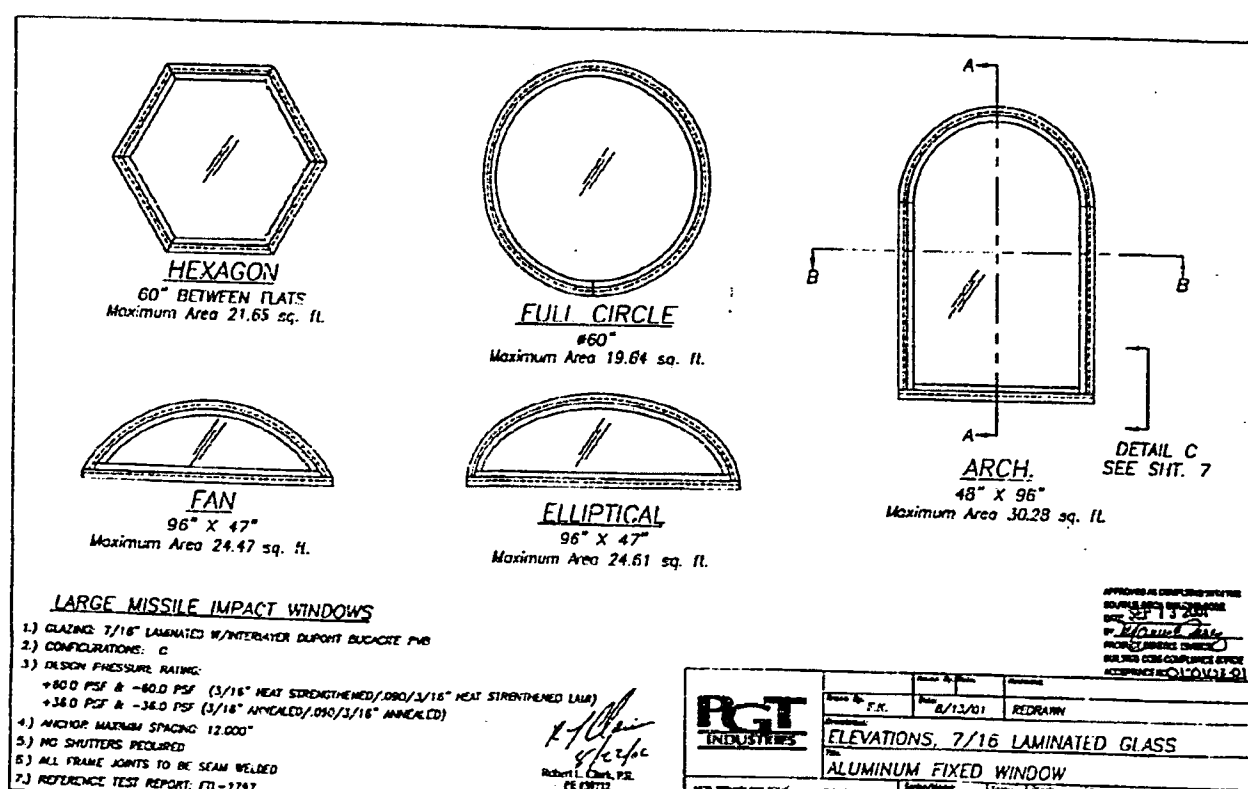
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
BY *[Signature]*
DATE 7/12/99
BUILDING CODE COMPLIANCE REVIEW
ACCEPTANCE NO. 27-0216-01

Project No.	1070 Technology Dr. Nokomis, FL 34275	P&T INDUSTRIES
Client Name	1070 Technology Dr. Nokomis, FL 34275	
Product	FD-101	French Door w/Sidelites - Sections
Revision	7/12/99	
Sheet No.	972	



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
BY *[Signature]*
DATE 7/12/99
BUILDING CODE COMPLIANCE REVIEW
ACCEPTANCE NO. 27-0216-01

Project No.	1070 Technology Dr. Nokomis, FL 34275	P&T INDUSTRIES
Client Name	1070 Technology Dr. Nokomis, FL 34275	
Product	FD-101	French Door - Anchorage & Glazing
Revision	7/12/99	
Sheet No.	972	



PCT-Industria

ACCEPTANCE No.: 81-9187.01
APPROVED: SEP 13 2001
EXPIRES: SEP 13 2006

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 documentation, 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. Renewal 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 change;
 - 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 purpose.
6. The Notice of Acceptance number preceded by the words 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 distributor and shall be available for inspection at the job site at all times. The engineer does not need to retain the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1, 2, and this last page 3.

END OF THIS ACCEPTANCE

Mariel Fort, P.E., Product Control Engineer
Product Control Division

PCT-Industria

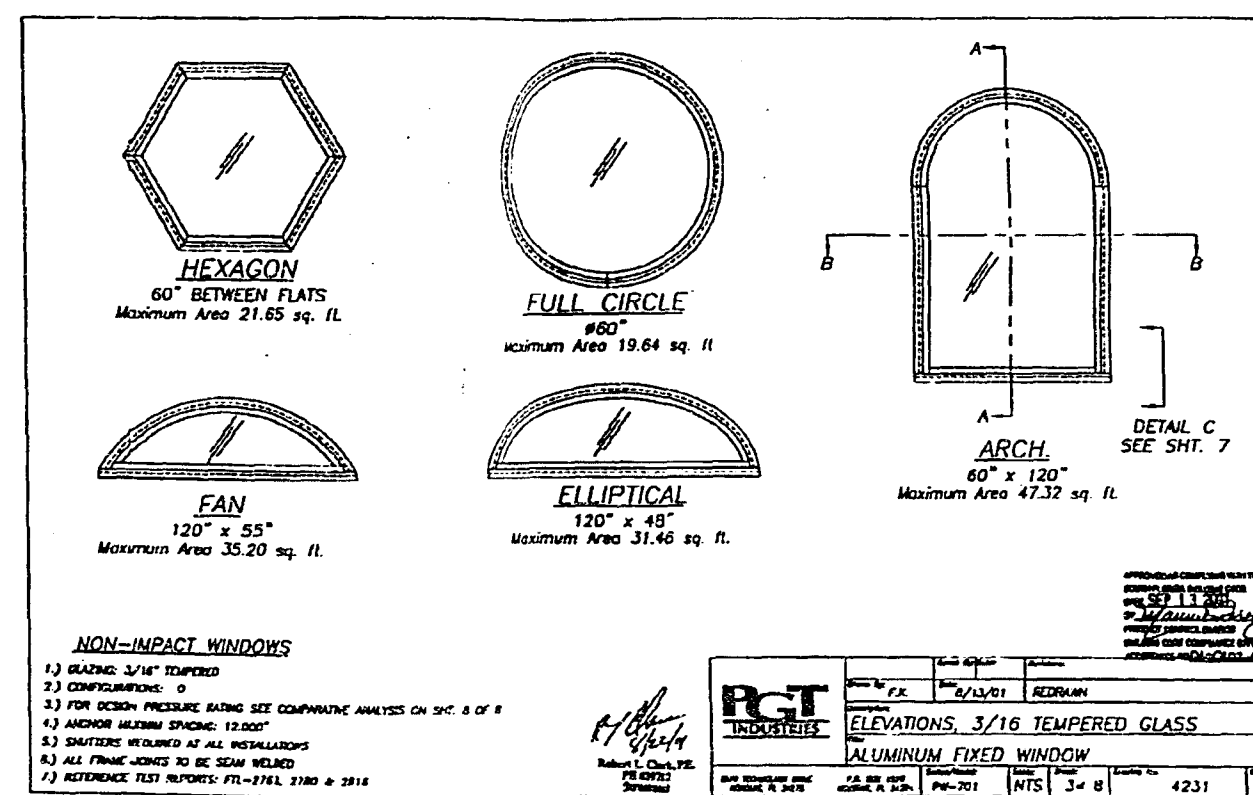
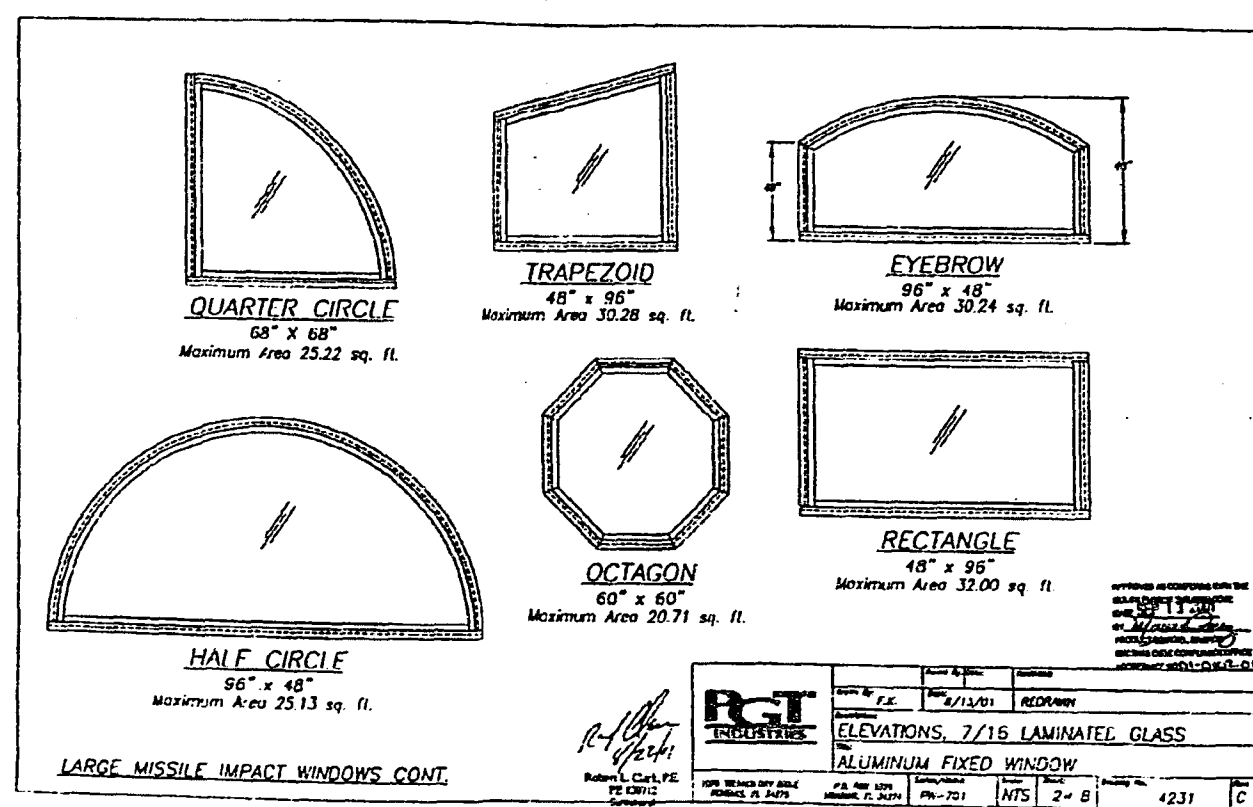
ACCEPTANCE No.: 81-9187.01
APPROVED: SEP 13 2001
EXPIRES: SEP 13 2006

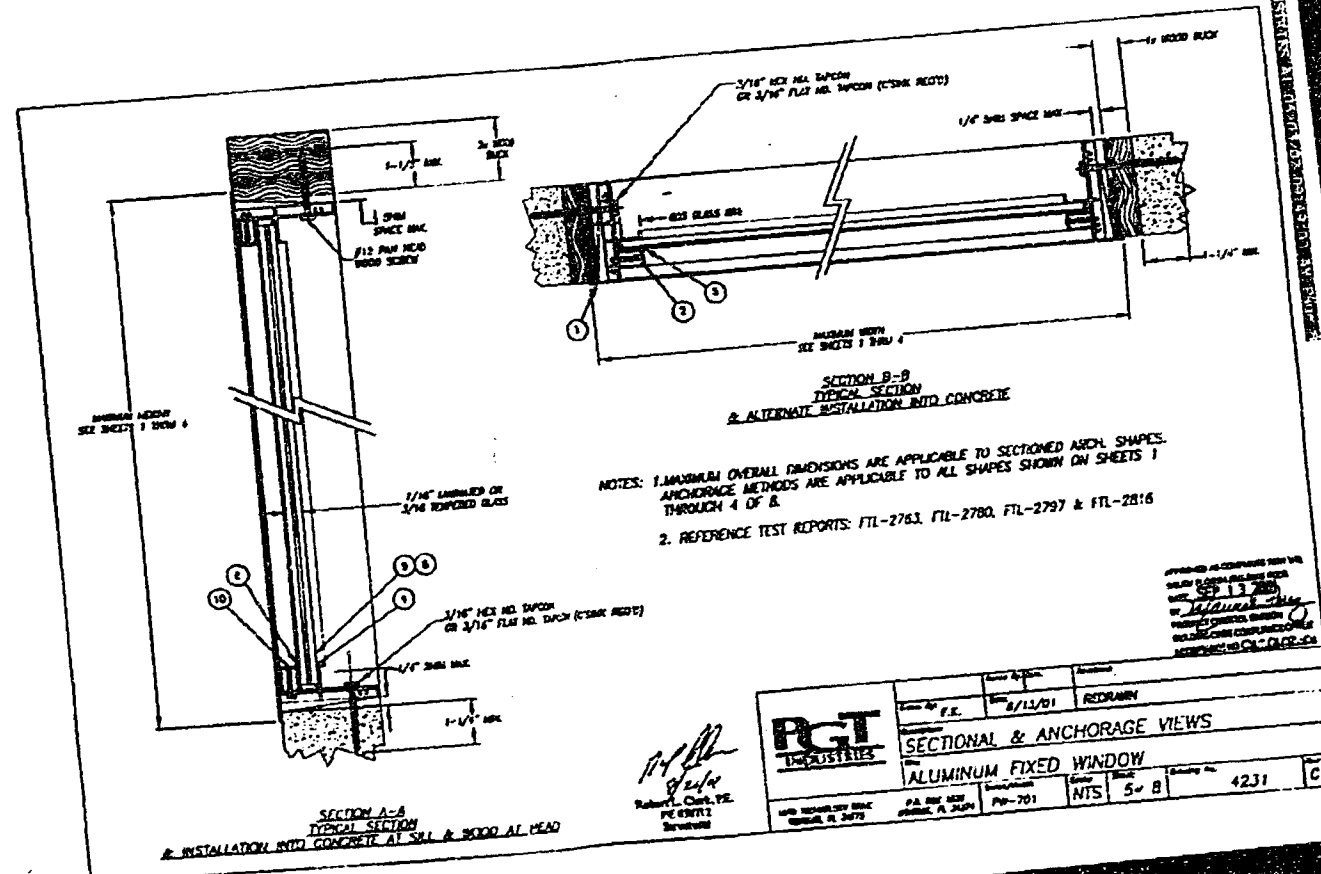
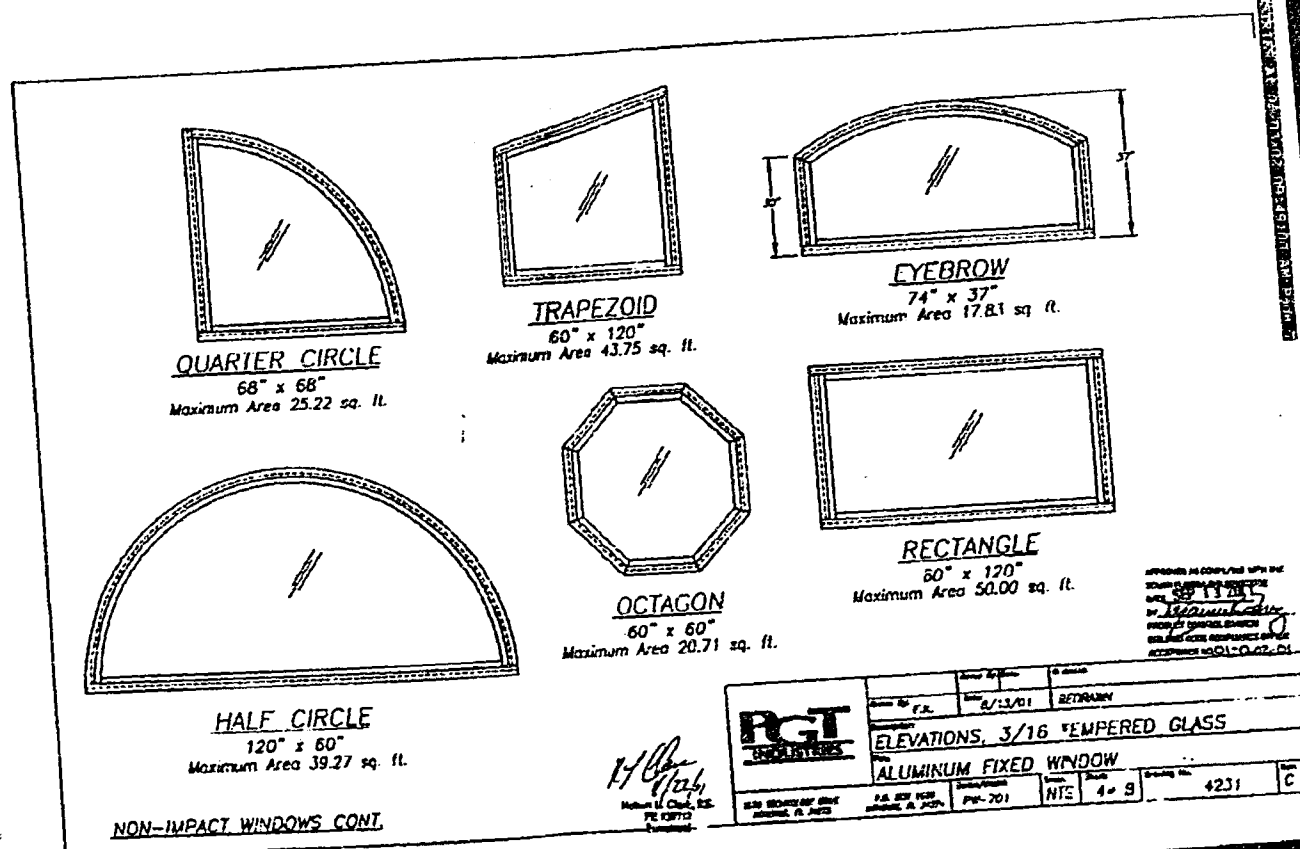
NOTICE OF ACCEPTANCE - SPECIFIC CONDITIONS

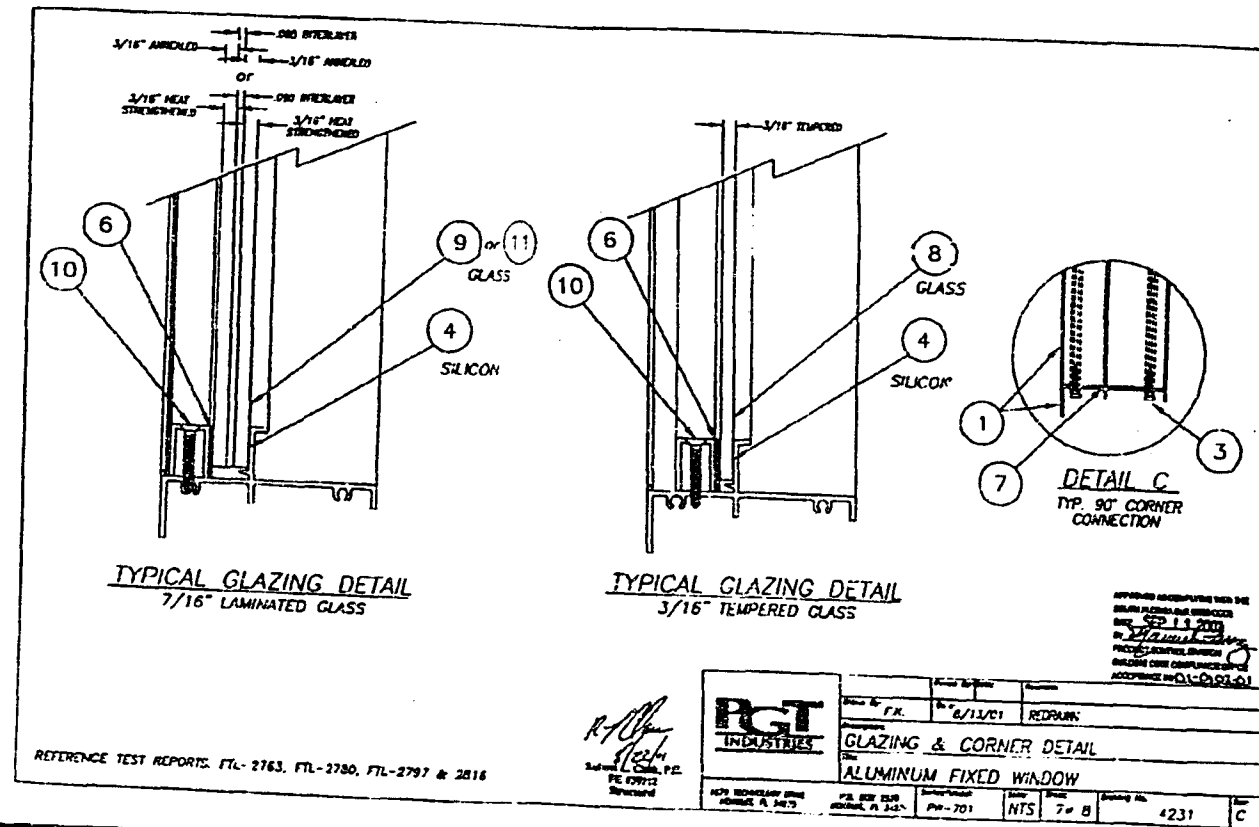
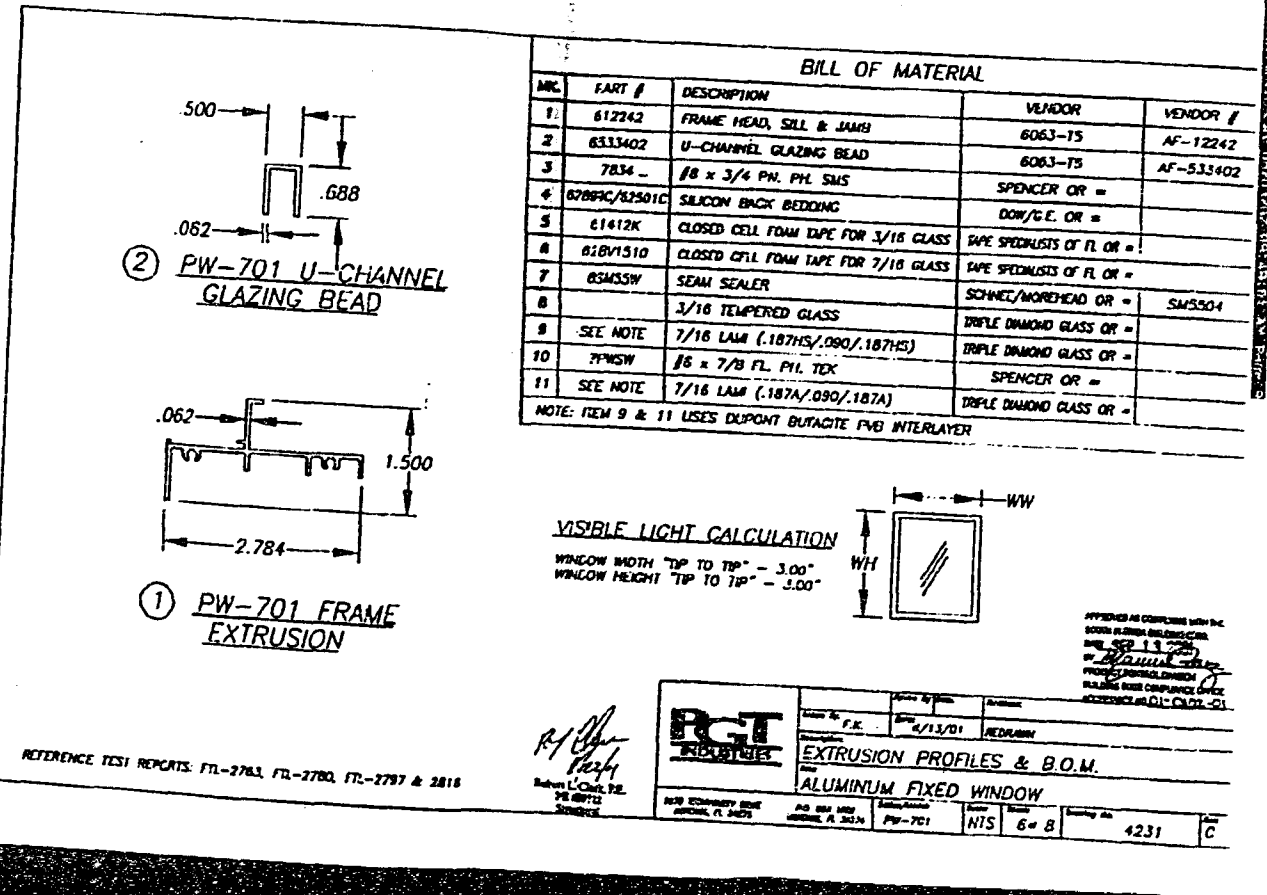
1. **SCOPE**
 - i. This approves an aluminum fixed window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.
2. **PRODUCT DESCRIPTION**
 - i. The Series PW-701 Aluminum Fixed Window - Non-Impact and Large Missile Impact Resistant and its components shall be constructed in strict compliance with the following documents: Drawing No 4231, Sheet 1 through 8 of 8, titled "PW-701 Aluminum Fixed Window," dated 8/1/01, prepared by manufacturer, signed and sealed by Robert L. Clark, P.E., bearing the approval date by the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and hereinafter be referred to as the approved drawings.
3. **LIMITATIONS**
 - i. This approval applies to single unit applications only, as shown in approved drawings.
 - ii. Non-Impact Resistant windows, for Design Pressure Rating vs. Window Size, see Comparative Analysis Tables in Sheet 8 of 8 of approved drawings.
 - iii. Impact Resistant windows, see Design Pressure Rating in Sheet 1 of 8 of approved drawings.
4. **INSTALLATION**
 - i. The aluminum fixed window and its components shall be installed in strict compliance with the approved drawings.
 - ii. Hurricane protection system (shutters) to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.
5. **LABELING**
 - i. 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".
6. **BUILDING PERMIT REQUIREMENTS**
 - i. Application for building permit shall be accompanied by copies of the following:
 - a. 6.1.1 This Notice of Acceptance;
 - a. 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.
 - ii. 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.

Mariel Fort, P.E., Product Control Engineer
Product Control Division

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3/16" TEMPERED GLASS

NOTES:

- 1.) Negative Design Loads based on Comparative Analysis and Glass Table ASTM E1300.
- 2.) Positive Design Loads based on Comparative Analysis and Water Test Pressure.
- 3.) Numbers are for #12 screws or 3/16" Topcons.
- 4.) Anchor maximum spacing: 12"

Negative Design Loads

Window Height	10' x 10'	12' x 10'	14' x 10'	16' x 10'	18' x 10'	20' x 10'	22' x 10'	24' x 10'	26' x 10'	28' x 10'	30' x 10'
10' x 10'	125.00	135.00	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00
12' x 10'	135.00	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00
14' x 10'	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00
16' x 10'	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00
18' x 10'	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00
20' x 10'	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00
22' x 10'	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00
24' x 10'	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00
26' x 10'	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00
28' x 10'	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00	315.00
30' x 10'	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00	315.00	325.00

Positive Design Loads

Window Height	10' x 10'	12' x 10'	14' x 10'	16' x 10'	18' x 10'	20' x 10'	22' x 10'	24' x 10'	26' x 10'	28' x 10'	30' x 10'
10' x 10'	125.00	135.00	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00
12' x 10'	135.00	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00
14' x 10'	145.00	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00
16' x 10'	155.00	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00
18' x 10'	165.00	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00
20' x 10'	175.00	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00
22' x 10'	185.00	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00
24' x 10'	195.00	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00
26' x 10'	205.00	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00
28' x 10'	215.00	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00	315.00
30' x 10'	225.00	235.00	245.00	255.00	265.00	275.00	285.00	295.00	305.00	315.00	325.00

REFERENCE TEST REPORTS: FTL-2783, FTL-2780, & 2816

PGT INDUSTRIES
1070 Technology Drive
Nokomis, FL 34215

COMPARATIVE ANALYSIS, NON-IMPACT
ALUMINUM FIXED WINDOW
FWS 201 NTS 8-B 4231 C

MIAMI-DADE COUNTY, FLORIDA
METRO-DADRI FLAGLER BUILDING

PRODUCT CONTROL NOTICE OF ACCEPTANCE
PGT Industries
1070 Technology Drive
Nokomis, FL 34215

BUILDING CODE COMPLIANCE OFFICE
160 WEST FLAGLER STREET, SUITE 100
MIAMI, FLORIDA 33130-1000
(305) 375-2601 FAX (305) 375-2606

CONTRACTOR/ENGINEER/ARCHITECT
(305) 791-2527 FAX (305) 791-2518

CONTRACTOR/ENGINEER/ARCHITECT
(305) 791-2527 FAX (305) 791-2518

PRINCIPAL/OWNER/ARCHITECT
(305) 791-2527 FAX (305) 791-2518

Your application for Notice of Acceptance (NOA) of:
1" Heavy Wall - Aluminum Tube Clipped Mullion
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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to accept this product or material at any time from a job site or manufacturer's plant for quality control testing. If this product or material fails to perform in the approval 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 by 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.: B14242
EXPIRES: 06/28/2001

THIS IS THE COVERSHEET. SEE ADDITIONAL FACTORS, SPECIFIC AND GENERAL.

OFFICE COPY

This application for Product Approval was reviewed and approved by the Building Code and Product Review Committee of the Miami-Dade County Building Code Compliance Office under the conditions set forth above.

APPROVED FOR PERMIT BY:
THE FOLLOWING:
BUILDING: [Signature]
PLUMBING: [Signature]
ELECTRICAL: [Signature]
MECHANICAL: [Signature]
FIRE PREVENTION: [Signature]
ENGINEERING: [Signature]
ARCHITECT: [Signature]

APPROVED: 06/28/2001

Internet web address: www.miamidade.gov/buildingcode

PGT Industries

ACCEPTANCE NO.: B14242
APPROVED: JUN 28 2001
EXPIRES: JUN 28 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE
1.1 This approval is a clipped mullion system, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 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
2.1 The 1" Heavy Wall - Aluminum Tube Clipped Mullion and its components shall be constructed in strict compliance with the following documents: Drawing No. 6421, Sheets 1 through 6 of 6, titled "1" Heavy Wall Mullion Arrangement Detail", prepared by manufacturer dated 4/28/00, 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. These documents shall hereinafter be referred to as the approved drawings.
3. LIMITATIONS
3.1 This approval applies to clipped structural mullions to be installed vertically or horizontally, as shown in the approved drawings.
3.2 For Design Pressure Rating vs. Mullion Length and Opening Width, for either 1x2x.375 (2 anchors) mullion, 1x2.75x.375 (3/4 anchors) mullion, 1x2.75x.650 (3/4 anchors) mullion or 1x4x.375 (4/6 anchors) mullion, see corresponding table in approved drawings.
3.3 Window sizes and design pressures are to be limited only to those appearing on charts referenced above and also listed in the individual window's Notice of Acceptance.
4. INSTALLATION
4.1 The clipped mullion system and its components shall be installed in strict compliance with the approved drawings.
4.2 This mullion can be installed as part of an impact resistant unit.
5. LABELING
5.1 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".
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, with mullion option indicated.
6.1.2 The Notice of Acceptance of each door end or fixed frame attached to mullion.
6.1.3 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components referred to for the proposed installation.
6.1.4 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.

Michael P. Clark
Miami-Dade County Product Control Division

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EGL Industries

ACCEPTANCE No.: 01-0322.01
APPROVED : JUN 28 2001
EXPIRES : JUN 28 2006

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 documentation, 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 Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewal 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 for 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 provided 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 times. 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

Manuel P. P. Jr.
Manuel P. P. Jr., P.E. Product Control Examiner
Product Control Division

3

EGL Industries

ACCEPTANCE No.: 01-0322.01
APPROVED : JUN 28 2001
EXPIRES : JUN 28 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA.)

- A. DRAWINGS
1. Manufacturer's drawings and sections.
 2. Drawing No. 6621, Sheet 1 through 5 of 6, titled "1" Heavy Wall Mullion Arrangement Detail", prepared by manufacturer, dated 4/28/00, signed and sealed by Robert L. Clark, P.E.
- B. TESTS
1. Test reports on:
 - i. Uniform Load Static Air Pressure Test, per SFBC PA 202-94
 - ii. Large Missile Impact Test, per SFBC PA 201-94
 - iii. Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of a pair of fixed alarm windows (OO configuration) 60" x 54" milled together with a 1x2 x 4 end wall mullion, prepared by Forensic Testing Laboratory, Inc., Test Report No. FTL-2992, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
 2. Test reports on:
 - i. Uniform Load Static Air Pressure Test, per SFBC PA 202-94
 - ii. Large Missile Impact Test, per SFBC PA 201-94
 - iii. Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of a pair of fixed alarm windows (OO configuration) 80" x 76" milled together with a 1x2 x 4 end wall mullion, prepared by Forensic Testing Laboratory, Inc., Test Report No. FTL-2993, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
 3. Test reports on:
 - i. Uniform Load Static Air Pressure Test, per SFBC PA 202-94
 - ii. Large Missile Impact Test, per SFBC PA 201-94
 - iii. Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of a pair of fixed alarm windows with a transom line (OVO configuration) milled together with a 1x2 x 4 wall vertical mullion and a 2 x 6 x 1/4" wall horizontal mullion, prepared by Forensic Testing Laboratory, Inc., Test Report No. FTL-2995, dated 01/23/01, signed and sealed by Antonio Acevedo, P.E.
- C. CALCULATIONS
1. Engineering Structural & Anchor Calculations, prepared by manufacturer, dated 08/20/00, revised on 5/24/01, signed and sealed by Robert L. Clark, P.E.
- D. MATERIAL CERTIFICATIONS
1. None.

E-1

Manuel P. P. Jr.
Manuel P. P. Jr., P.E. Product Control Examiner
Product Control Division

EGL Industries

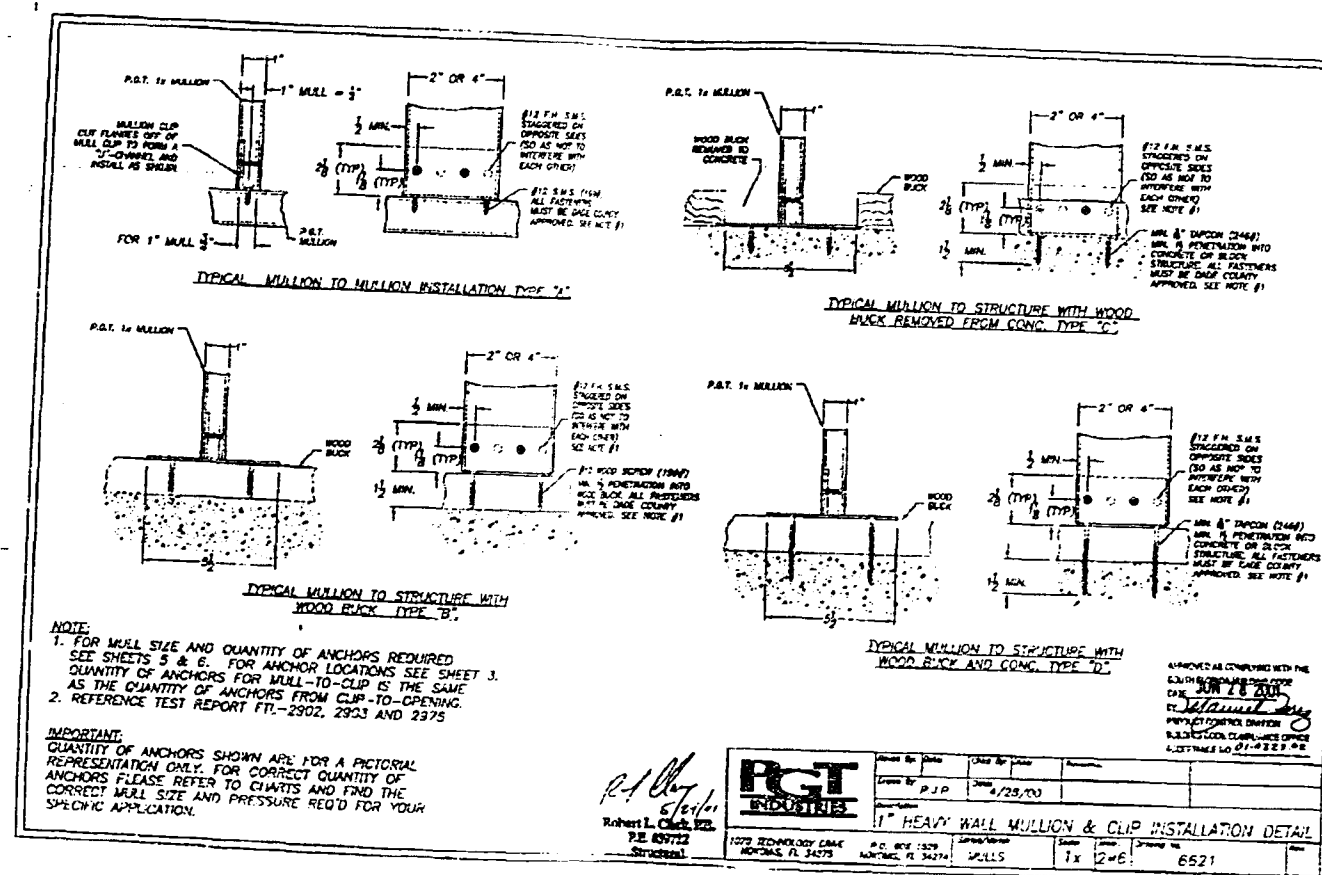
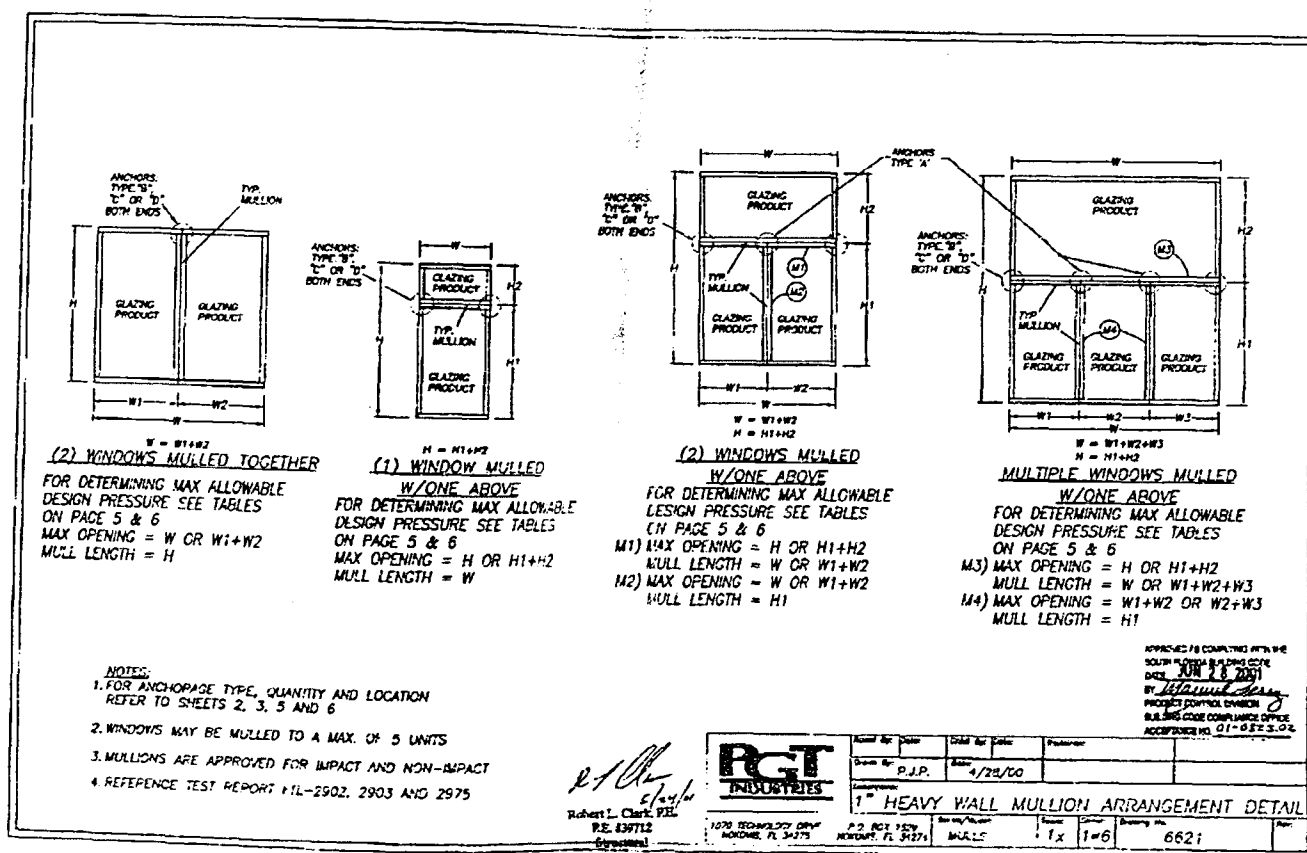
ACCEPTANCE No.: 01-0322.01
APPROVED : JUN 28 2001
EXPIRES : JUN 28 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA.)

- E. STATEMENTS
1. Statement letter of conformance, dated March 16, 2001, signed and sealed by Robert L. Clark, P.E.
 2. Statement letter of no financial interest, dated _____, signed and sealed by Robert L. Clark, P.E.
 3. Laboratory compliance letter for Test Reports No. FTL-2992, FTL-2993 and FTL-2995, issued by Forensic Testing Laboratory, Inc., dated January 30, 2001, signed and sealed by Antonio Acevedo, P.E.
- F. OTHER
1. None.

F-2

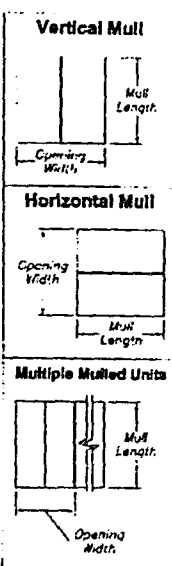
Manuel P. P. Jr.
Manuel P. P. Jr., P.E. Product Control Examiner
Product Control Division



1x2.375 2 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	155	142	134	126	118	110	102	94	86	78	70	62
48	129	116	107	102	93	85	77	69	61	53	45	37
50.625	115	102	93	85	77	69	61	53	45	37	29	21
54	94	81	73	65	57	49	41	33	25	17	9	1
60	67	54	46	38	30	22	14	6	-	-	-	-
63	58	45	37	29	21	13	5	-	-	-	-	-
66	50	37	29	21	13	5	-	-	-	-	-	-
72	36	23	15	7	-	-	-	-	-	-	-	-
76	32	19	11	3	-	-	-	-	-	-	-	-
78	30	17	9	1	-	-	-	-	-	-	-	-
84	24	11	3	-	-	-	-	-	-	-	-	-
90	18	5	-	-	-	-	-	-	-	-	-	-
100	10	-	-	-	-	-	-	-	-	-	-	-
110	5	-	-	-	-	-	-	-	-	-	-	-
120	2	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-

1x2.75x.375 3/4 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	170	157	149	141	133	125	117	109	101	93	85	77
48	143	130	122	114	106	98	90	82	74	66	58	50
50.625	129	116	107	99	91	83	75	67	59	51	43	35
54	105	92	84	76	68	60	52	44	36	28	20	12
60	78	65	57	49	41	33	25	17	9	1	-	-
63	69	56	48	40	32	24	16	8	0	-	-	-
66	60	47	39	31	23	15	7	-	-	-	-	-
72	46	33	25	17	9	1	-	-	-	-	-	-
76	42	29	21	13	5	-	-	-	-	-	-	-
78	40	27	19	11	3	-	-	-	-	-	-	-
84	34	21	13	5	-	-	-	-	-	-	-	-
90	28	15	7	-	-	-	-	-	-	-	-	-
100	16	8	0	-	-	-	-	-	-	-	-	-
110	8	0	-	-	-	-	-	-	-	-	-	-
120	4	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-

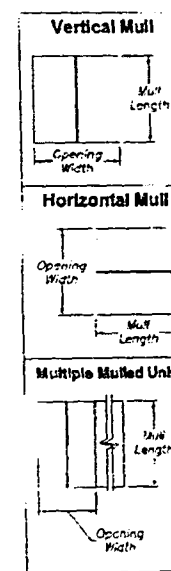
1x2.75x.375 3/4 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	170	157	149	141	133	125	117	109	101	93	85	77
48	143	130	122	114	106	98	90	82	74	66	58	50
50.625	129	116	107	99	91	83	75	67	59	51	43	35
54	105	92	84	76	68	60	52	44	36	28	20	12
60	78	65	57	49	41	33	25	17	9	1	-	-
63	69	56	48	40	32	24	16	8	0	-	-	-
66	60	47	39	31	23	15	7	-	-	-	-	-
72	46	33	25	17	9	1	-	-	-	-	-	-
76	42	29	21	13	5	-	-	-	-	-	-	-
78	40	27	19	11	3	-	-	-	-	-	-	-
84	34	21	13	5	-	-	-	-	-	-	-	-
90	28	15	7	-	-	-	-	-	-	-	-	-
100	16	8	0	-	-	-	-	-	-	-	-	-
110	8	0	-	-	-	-	-	-	-	-	-	-
120	4	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-



1x2.75x.650 3/4 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	170	157	149	141	133	125	117	109	101	93	85	77
48	143	130	122	114	106	98	90	82	74	66	58	50
50.625	129	116	107	99	91	83	75	67	59	51	43	35
54	105	92	84	76	68	60	52	44	36	28	20	12
60	78	65	57	49	41	33	25	17	9	1	-	-
63	69	56	48	40	32	24	16	8	0	-	-	-
66	60	47	39	31	23	15	7	-	-	-	-	-
72	46	33	25	17	9	1	-	-	-	-	-	-
76	42	29	21	13	5	-	-	-	-	-	-	-
78	40	27	19	11	3	-	-	-	-	-	-	-
84	34	21	13	5	-	-	-	-	-	-	-	-
90	28	15	7	-	-	-	-	-	-	-	-	-
100	16	8	0	-	-	-	-	-	-	-	-	-
110	8	0	-	-	-	-	-	-	-	-	-	-
120	4	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-

1x2.75x.650 3/4 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	170	157	149	141	133	125	117	109	101	93	85	77
48	143	130	122	114	106	98	90	82	74	66	58	50
50.625	129	116	107	99	91	83	75	67	59	51	43	35
54	105	92	84	76	68	60	52	44	36	28	20	12
60	78	65	57	49	41	33	25	17	9	1	-	-
63	69	56	48	40	32	24	16	8	0	-	-	-
66	60	47	39	31	23	15	7	-	-	-	-	-
72	46	33	25	17	9	1	-	-	-	-	-	-
76	42	29	21	13	5	-	-	-	-	-	-	-
78	40	27	19	11	3	-	-	-	-	-	-	-
84	34	21	13	5	-	-	-	-	-	-	-	-
90	28	15	7	-	-	-	-	-	-	-	-	-
100	16	8	0	-	-	-	-	-	-	-	-	-
110	8	0	-	-	-	-	-	-	-	-	-	-
120	4	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-

1x2.75x.650 3/4 Anchors		OPENING WIDTH IN INCHES										
MULL LENGTH IN INCHES	50	60	70	80	90	100	110	120	130	140	150	160
42	170	157	149	141	133	125	117	109	101	93	85	77
48	143	130	122	114	106	98	90	82	74	66	58	50
50.625	129	116	107	99	91	83	75	67	59	51	43	35
54	105	92	84	76	68	60	52	44	36	28	20	12
60	78	65	57	49	41	33	25	17	9	1	-	-
63	69	56	48	40	32	24	16	8	0	-	-	-
66	60	47	39	31	23	15	7	-	-	-	-	-
72	46	33	25	17	9	1	-	-	-	-	-	-
76	42	29	21	13	5	-	-	-	-	-	-	-
78	40	27	19	11	3	-	-	-	-	-	-	-
84	34	21	13	5	-	-	-	-	-	-	-	-
90	28	15	7	-	-	-	-	-	-	-	-	-
100	16	8	0	-	-	-	-	-	-	-	-	-
110	8	0	-	-	-	-	-	-	-	-	-	-
120	4	-	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	-	-	-	-	-

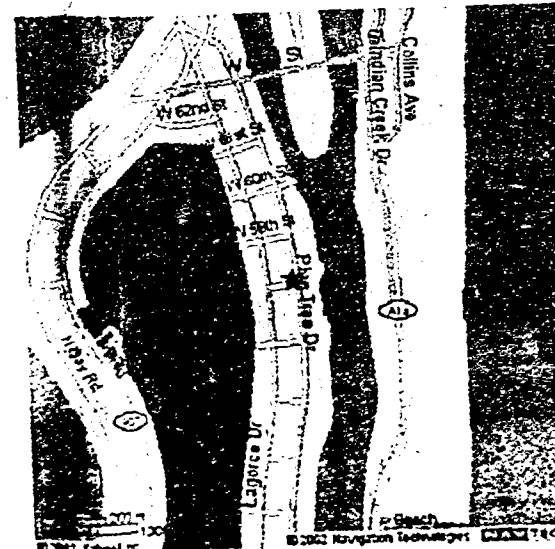




NOTES: D = DOOR
FD = FRENCH DOOR
E = ENTRY WINDOW
HSH = HORIZONTAL SLIDING WINDOW
GD = GLASS DOOR
CW = CASEMENT WINDOW

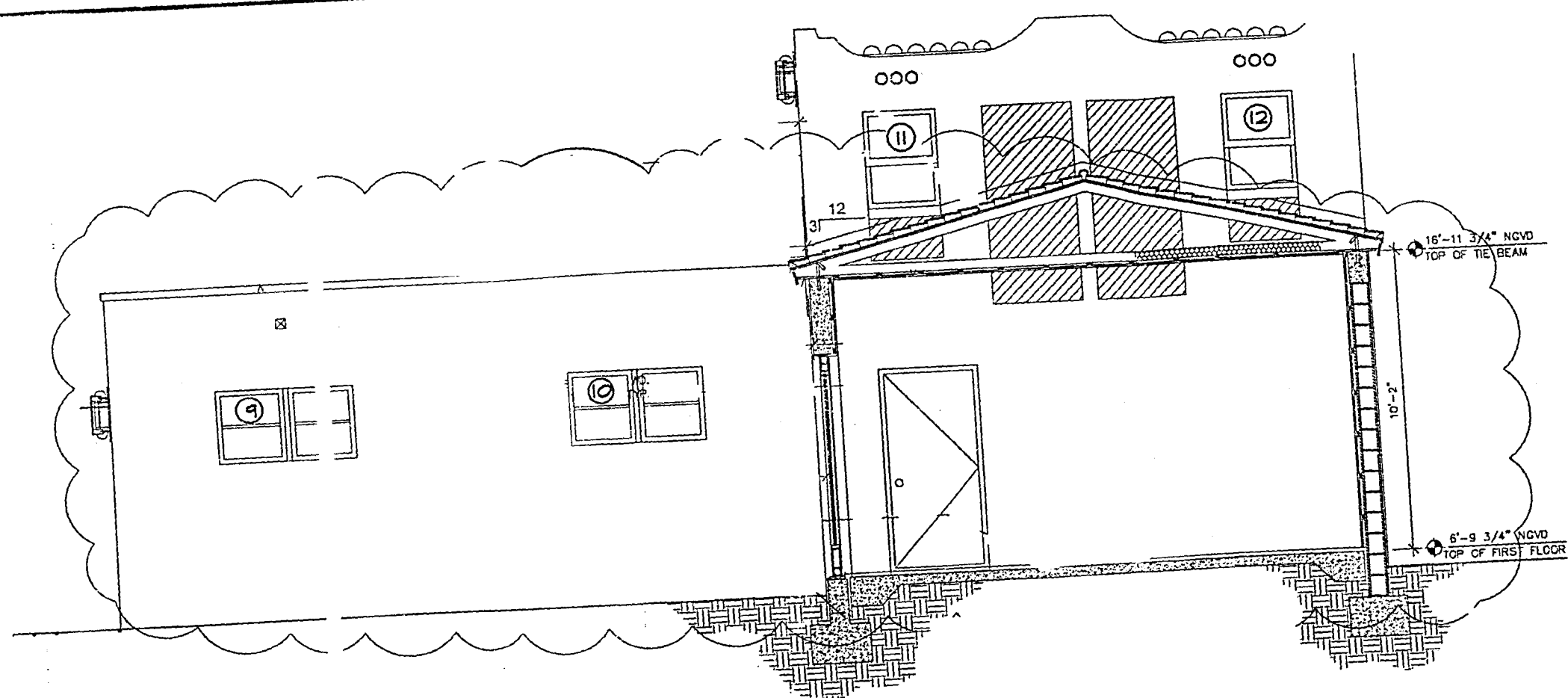
WINDOW MULLION SCHEDULE						
MARK	L (W)	R (H)	SIZE	N.O.A.	ALLOW PERD PRESS. (psi)	COMMENTS
M	84	72	1'6"x3'5"	01-0023.02	-48 -102	(4) ANCHORS REQ. B.A. E

ENG: *[Signature]* 03/04

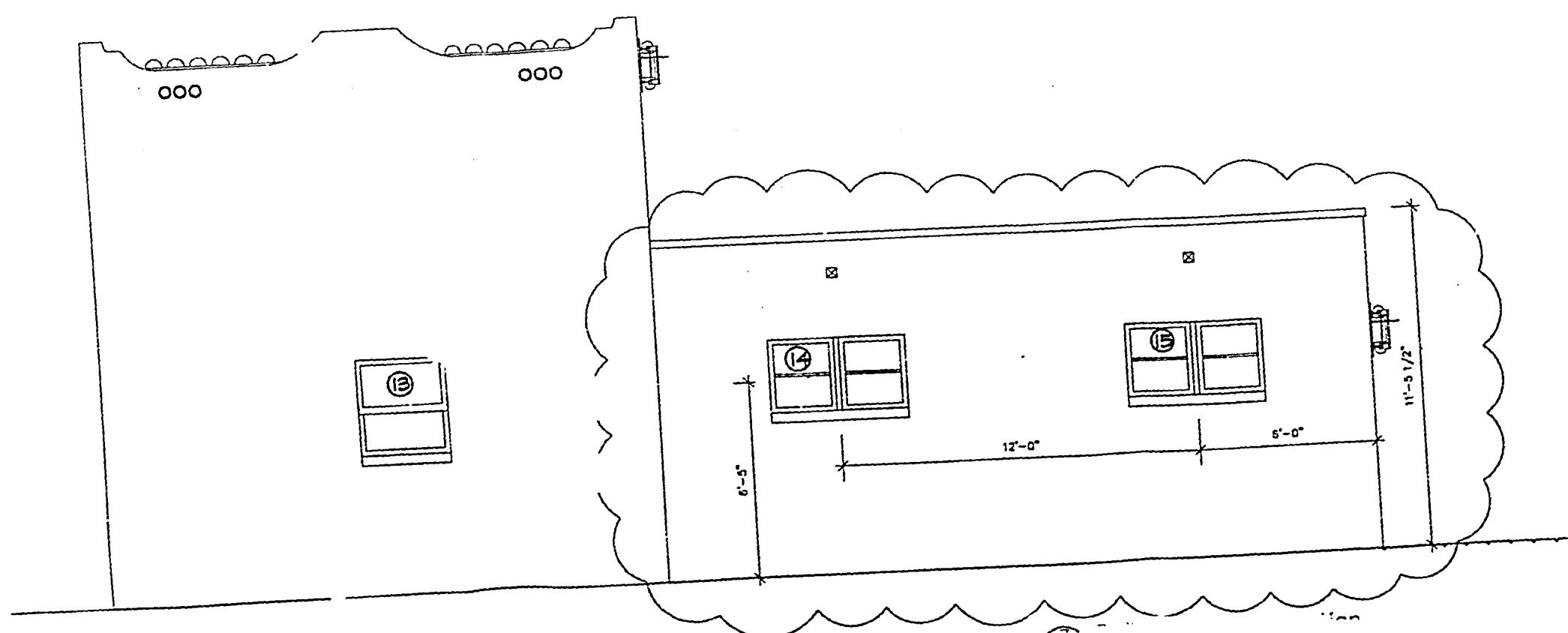


LOCATION MAP

MARK <input type="checkbox"/>	REV. DESCRIPTION	DATE			OL. NO. 017185	ESS. NO. 000400	SCALE: 1/2	NTS	SCHEMATIC WORK KELLERIE FREE DRIVE 5800 MIAMI FLORIDA ADDITION / REMODELING	MILLIK TOWN OF 02/27/03 P. GREGUS P.E. NO. 16225
					DAVIS ENGINEERS P.A. 180 TAMIAMI CANAL ROAD MIAMI, FLORIDA 33144 (305) 266-7566	JOB NO. 1 DATE 03-10-2003 PKG 01-10	2 2 2			
A	PLAN OPERATIONS COMMENTS	03-20-03								



BUILDING EAST ELEVATION



BUILDING WEST ELEVATION

WINDOW/DOOR PRESSURE SCHEDULE									
NO.	SYMBOL	W	H	AREA	WIND	WIND	WIND	WIND	COMMENTS
1	FRONT DOOR	36	72	2592	15	15	15	15	OPTION 1
2	REAR DOOR	36	72	2592	15	15	15	15	OPTION 1
3	W.D.	36	72	2592	15	15	15	15	GLASS TYPE A
4	W.D.	36	72	2592	15	15	15	15	OPTION 1
5	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
6	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
7	W.D.	36	72	2592	15	15	15	15	GLASS TYPE A
8	W.D.	36	72	2592	15	15	15	15	GLASS TYPE A
9	W.D.	36	72	2592	15	15	15	15	GLASS TYPE A
10	W.D.	36	72	2592	15	15	15	15	GLASS TYPE A
11	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
12	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
13	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
14	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
15	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B
16	W.D.	36	72	2592	15	15	15	15	GLASS TYPE B

NOTES: 1. DOOR
2. REAR DOOR
3. W.D. WINDOW

WINDOW MULLION SCHEDULE									
NO.	SYMBOL	W	H	AREA	WIND	WIND	WIND	WIND	COMMENTS
1	W.D.	36	72	2592	15	15	15	15	(A) ANCHORS REG. EA. END

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY

THE FOLLOWING:

EXPLANATION:

PLUMBING:

ELECTRICAL:

MECHANICAL:

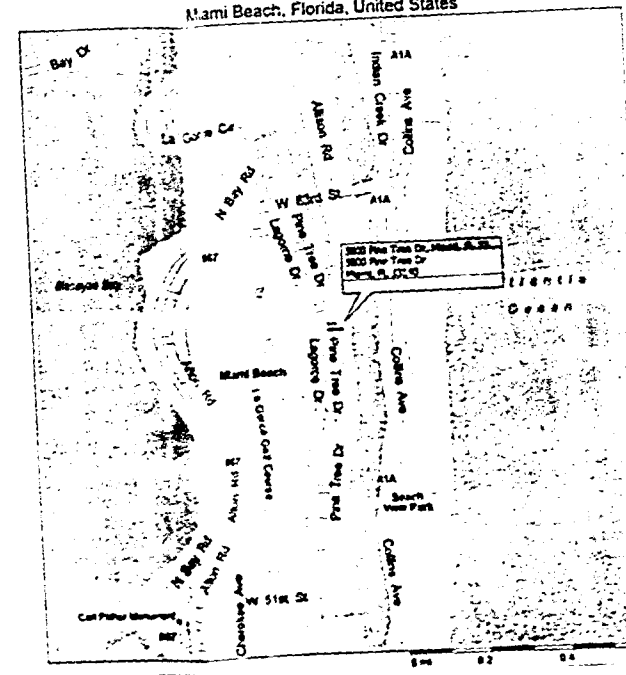
FIRE PREVENTION:

ENGINEERING:

PUBLIC WORKS:

STRUCTURAL:

ACCESSIBILITY:



LOCATION MAP

DATE: 07-14-2003
SCALE: 1/2" = 1'-0"

PROJECT: 15th Street and 15th Avenue
15th Street and 15th Avenue
15th Street and 15th Avenue

DESIGNER: DAVID ENGINEERS P.A.
15th Street and 15th Avenue
15th Street and 15th Avenue

DATE: 07-14-2003
SCALE: 1/2" = 1'-0"

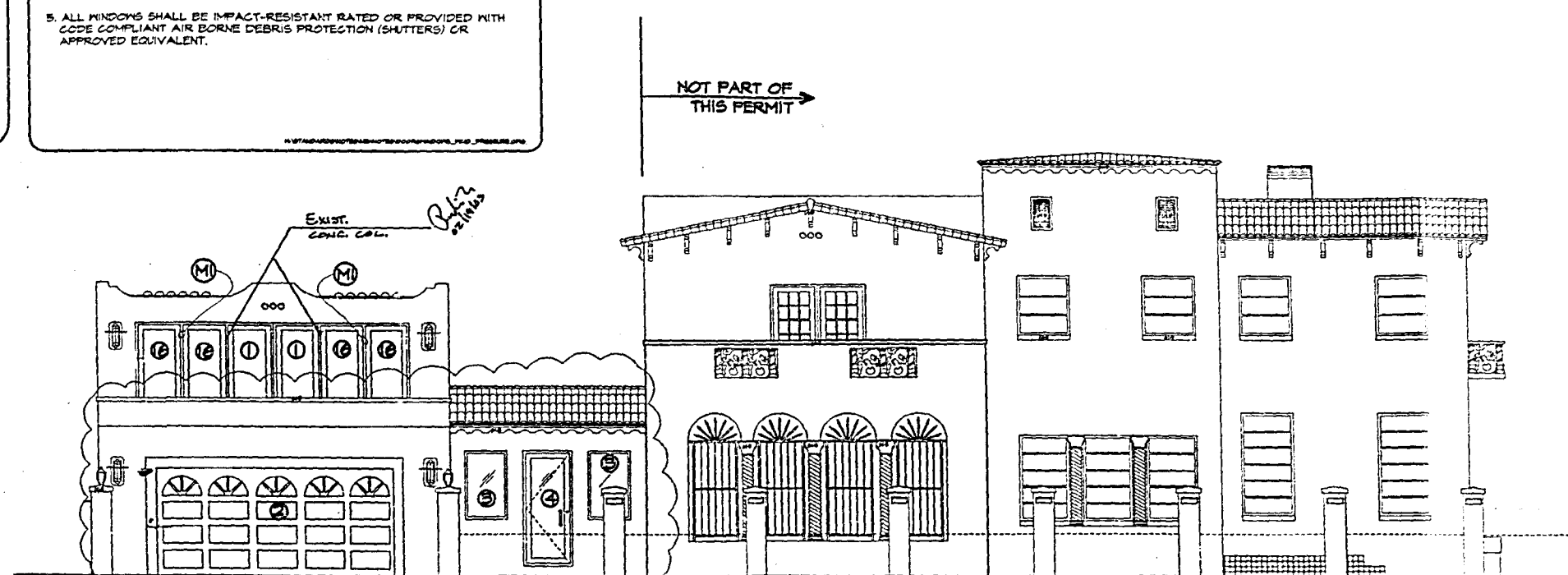
PROJECT: 15th Street and 15th Avenue
15th Street and 15th Avenue
15th Street and 15th Avenue

GENERAL NOTES:

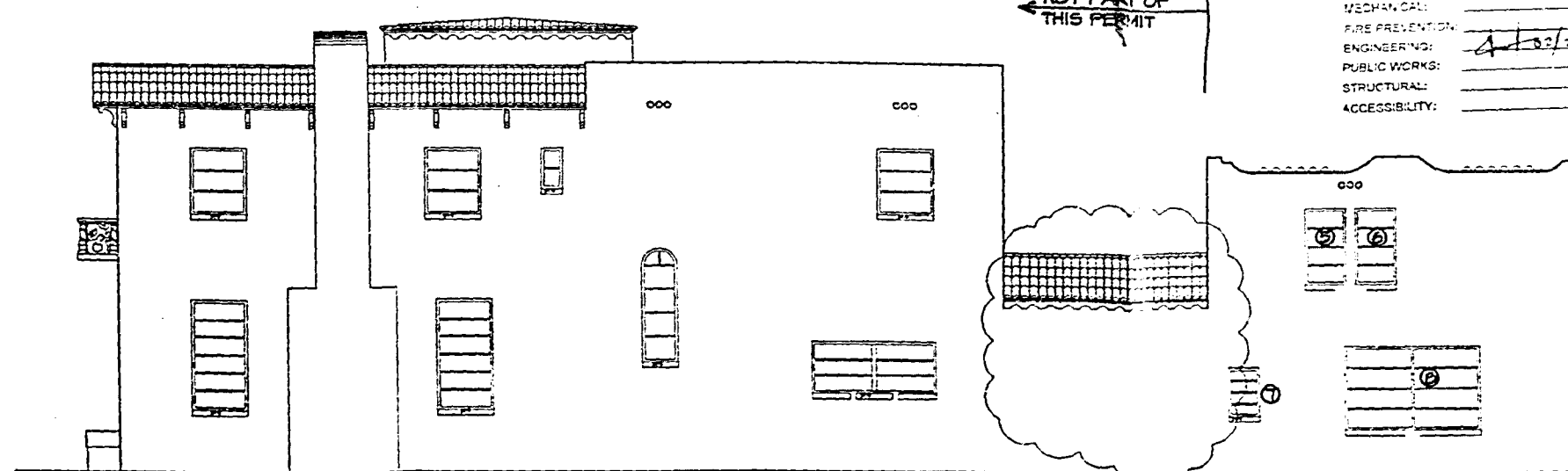
1. ALL WORK SHALL CONFORM TO FLORIDA BUILDING CODE LATEST EDITION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY IN THE DRAWINGS AND OBTAIN HIS APPROVAL BEFORE PROCEEDING WITH WORK.
3. THIS WORK REQUIRES A BUILDING PERMIT. DO NOT BEGIN WORK UNTIL A BUILDING PERMIT IS OBTAINED.
4. CONTRACTOR TO FURNISH ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
5. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN.
6. WINDOW MANUFACTURER TO VERIFY ALL WINDOW OPENINGS AT FIELD PRIOR TO WINDOW PLACEMENT.
7. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL SERVICES OR WORK WITHOUT PRIOR NOTIFICATION TO THE OWNER, FOLLOWED BY A CHANGE ORDER.

NOTES: (DOORS/WINDOWS WIND PRESSURE)

1. ALL DOOR/WINDOW PRESSURES CONFORM TO ASCE - 7, 1989 EDITION, COMPONENTS AND GLAZING REQUIREMENTS.
2. ALL DOORS/WINDOWS SHALL BE INSTALLED AS PER MANUFACTURER SPECIFICATIONS AND/OR MIAMI-DADE COUNTY A.D.A. REQUIREMENTS. THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
3. ALL DOORS/WINDOWS SHALL RESIST THE RESPECTIVE POSITIVE AND NEGATIVE WIND PRESSURES SHOWN ON DRAWINGS.
4. THIS WORK REQUIRES A BUILDING PERMIT. DO NOT BEGIN WORK UNTIL A BUILDING PERMIT IS OBTAINED.
5. ALL WINDOWS SHALL BE IMPACT-RESISTANT RATED OR PROVIDED WITH CODE COMPLIANT AIR BORNE DEBRIS PROTECTION (SHUTTERS) OR APPROVED EQUIVALENT.



SOUTH ELEVATION



NORTH ELEVATION

OFFICE COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

PROJECT: 4-100-1101
OWNER: KEITH R. GRIFFIN
LOCATION: 5800 RINEE DRIVE
ELECTRICAL: MIAMI, FLORIDA
MECHANICAL: ADDITION & ELEC. WIRING
FIRE PREVENTION: ADDITION & ELEC. WIRING
PUBLIC WORKS: ADDITION & ELEC. WIRING
STRUCTURAL: ADDITION & ELEC. WIRING
ACCESSIBILITY: ADDITION & ELEC. WIRING

AS PREPARED BY:	DATE:
REVIEWED BY:	DATE:
OL AND CTR:	DATE:
DESIGNED BY:	DATE:
PROJECT:	DATE:
OWNER:	DATE:
LOCATION:	DATE:
ELECTRICAL:	DATE:
MECHANICAL:	DATE:
FIRE PREVENTION:	DATE:
PUBLIC WORKS:	DATE:
STRUCTURAL:	DATE:
ACCESSIBILITY:	DATE:

DATE:	REVISION DESCRIPTION:
DATE:	REVISION DESCRIPTION:
DATE:	REVISION DESCRIPTION:
DATE:	REVISION DESCRIPTION:
DATE:	REVISION DESCRIPTION:

OFFICE COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	_____
ZONING:	_____
DRAINAGE:	_____
CONCURRENCY:	_____
PLUMBING:	_____
ELECTRICAL:	_____
MECHANICAL:	_____
FIRE PREVENTION:	_____
ENGINEERING:	_____
PUBLIC WORKS:	_____
STRUCTURAL:	_____
ACCESSIBILITY:	_____
ELEVATOR:	_____

5800 PINETREE DR
BD 30/1984

35



PERMIT #

B0400914

3883704

SECTION 1524 HIGH VELOCITY HURRICANE ZONES REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the contents of this section. The provisions of Chapter 15 of the Florida Building Code, Building Part, shall govern the minimum requirements and standards of the roofing system installation. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initials on the adjacent box indicates that the item has been reviewed.

1524.2 Antirattle Workmanship: The workmanship provisions of Chapter 15, High Velocity Hurricane Zones, are for the purpose of providing that the roofing system meets the wind resistance and water penetration standards. Antirattle workmanship provisions are not a consideration with respect to a roofing system installation. Antirattle items such as cover or antirattle appearance that are not part of a roofing system shall be addressed as part of the agreement between the owner and the contractor.

1524.3 Replacing Wood Decks: When replacing roofing, the existing wood roof deck may have to be replaced in accordance with the current provisions of Chapter 15, High Velocity Hurricane Zones, Florida Building Code. The roof deck is usually checked prior to removing the existing roof system.

1524.4 Common Roofs: Common roofs are those which have no visible changes in slope or pitch, and are not subject to wind uplift. In buildings with common roofs, the roofing contractor and the owner should both be responsible for the removal of all debris and materials to be performed.

1524.5 Exposed Ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance, thus no ceiling repair or replacement of the underside of the decking may not be acceptable. The Florida Building Code provisions for the removal of materials should be reviewed.

1524.6 Ponding Water: The current roof system and/or deck of the building may not drain well and may allow water to pond, accumulate in low lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

1524.7 Overflow Scuppers (wall outlets): It is required that rainwater flow off of the roof and not overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the Florida Building Code, Plumbing.

1524.8 Ventilation: Most roof structures should have some ability to vent natural air flow through the interior of the structural assembly, the building shell. The existing amount of venting should be reviewed. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

Robert H. 9.9.01
CONTRACTOR'S SIGNATURE

Florida Building Code Edition 2002 High Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. B-0304281 Process No. BC400914
Contractor's Name H. Ramos & Sons, Inc.
Job Address 5800 PINE TREE DR.

ROOF CATEGORY

☒ Low Slope
☐ Asphaltic Shingles
☐ Mechanically Fastened Tile
☐ Metal Panels/Shingles
☐ Prescriptive BUR-RAS 120
☐ Adhesive/Adhesive Sat Tile
☐ Wood Shingles/Shakes

ROOF TYPE

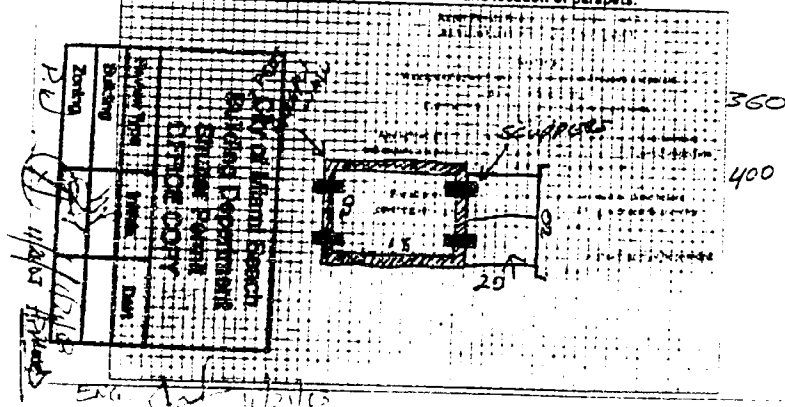
☒ New Roof ☐ Re-Roofing ☐ Recovering ☐ Repair ☐ Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) 360 Steep Sloped Roof Area (SF) 400 Total (SF) 760

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



Florida Building Code Edition 2002 High Velocity Hurricane Zone Uniform Permit Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer: ALMAR (USA) INC

Notice of Acceptance Number: 99-1102.04

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: 7.55 P2: 22.21 P3: 22.21

Maximum Design Pressure
(From the NOA Specific System): 38.7

Method of tile attachment: Poly Pro AH 160

Steep Sloped Roof System Description

Deck Type: WOOD
Type Underlayment: #30 ASTM
Insulation: N/A
Fire Barrier: N/A
Fastener Type & Spacing: 1 1/4" x 6" 12" O.C.
Adhesive Type: ASTM ASPHALT TYPAR
Type Cap Sheet: #40 ASTM
Roof Covering: SPANISH 4" 5"
Type & Size Gutter: 26 GAUGE 2 1/2" 3"
Edge: 1 1/4" RIS 4' O.C.

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11


ROOFING ASSEMBLY APPROVAL
CRITICAL
Subcategory: Roofing
Approval Date: February 1, 2001
Expiration Date: May 28, 2002

Deck Type: Concrete
Maximum Deck Thickness: 475 mil
See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
Cemflex Concrete	1 or 5 gal	PA 114	Adhesive used to produce Cemflex Slurry, a base liquid coat for use over concrete substrates
Sealoflex Pink Foundation Metal Eek Primer	1 or 5 gal	TAS 142	Base liquid coat
Sealobond Primer	1 or 5 gal	Proprietary	Primer for all impervious metal surfaces
Sealoflex Fibrac		Proprietary	Primer for use over painted concrete, wood or steel, or unpainted masonry substrates
Sealoflex Fibrac Coat	1 or 5 gal	TAS 143	Non-woven polyester reinforcing fabric for use in the Sealoflex roof system
Sealoflex Fibrac Coat	1 or 5 gal	TAS 143	Top waterproofing coating
Sealoflex Plus	50# bags	Proprietary	Cement surface treatment
Sealoflex CT	1 or 5 gal	Proprietary	Solvent borne, single component roof coating
Corabase OnePack	50# bags	Proprietary	Polymer modified portland cement powder
Wearcoat	1 or 5 gal	Proprietary	Liquid applied emulsion coating (available in single or non-slip version containing aggregate)

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 Frank Zabala, RRC
 Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11

EVIDENCE SUBMITTED:

Test Name	Test Identifier	Description	Date
Dynatrac Engineering Corp	4211-1294-2	Uplift Resistance PA 114, Appendix D	12/18/94
Dynatrac Engineering Corp	4212-04-93-1	Adhesion Performance PA 114, Appendix H	04/11/95
Extensor Research & Design, LLC	4210-02-96-	Adhesion Performance PA 114, Appendix H	03/01/96
Extensor Research & Design, LLC	4210-04-96-	Adhesion Performance PA 114, Appendix H	03/28/96
Extensor Research & Design, LLC	4445-11-95-	Adhesion Performance PA 114, Appendix H	11/14/95
Extensor Research & Design, LLC	4421-07-97-	Uplift Resistance PA 114, Appendix D	07/15/97
Intertek Testing Services, Inc.	J00 No. 09707119	Fire Resistance PA 114, Appendix A (UL 790 ASTM E 108)	01/12/98
Celtek Testing Center, Inc.	M15 J00 No. 218211	Physical Properties PA 142	01/20/98
Celtek Testing Center, Inc.	32-8454-18-2 32-8454-18-1 32-8454-17-1	PA 143	11/24/98
Celtek Testing Center, Inc.	32-2191-3	PA 143	02/21/99
Extensor Research & Design, LLC	44211-09-00-1	PA 114	10/20/00

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 Frank Zabala, RRC
 Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11

APPROVED ASSEMBLIES:

Deck Type 31: Concrete Deck, New and New Construction

Deck Description: 2500 psi structural concrete or concrete block

System Type A-1: Insulation adhered with approved deck 1

All General and System Limitations apply.

Insulation	System	Fastening	Fasteners	Fastener
Base or Top Layer	Type	Detail No.	Detail No.	Detail
Approved Type(s): AC Foam II				
Minimum: 1 1/2" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): Dens Deck				
Minimum Thickness: 1 1/2"	N/A	N/A	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All fasteners shall be adhered to the deck in full mapping of approved asphalt within the EVT range and at a rate of 25-30 lbs/100 sq ft. Please refer to Roofing Application Standard RAS 117 for installation attachment. Insulation listed as base layer only shall be used with at least two layers with a second layer of approved top layer insulation installed on the total membrane substrate. Composite insulation panels used as a replace shall be placed with the polymeric substrate side facing down.

Vapor Barrier: (Optional) Any UL or FM approved vapor barrier

Base Sheet: None

1/4" Sheet: None


Membrane: Apply Sealoflex Pink Foundation at an application rate of 10-15 gal. A layer of non-woven polyester fabric, applied to the wet Pink Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Pink Foundation. Apply Sealoflex Fibrac Coat at a rate of 22 ft/gal.

Surfacing: (Optional) Apply Wearcoat at a rate of 90 ft/gal.

Maximum Design Pressure: 150 psi (See General Limitations #7)

Maximum Fire Classification: See General Limitations #1

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 Frank Zabala, RRC
 Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC. Reference No. 80-1212.11

Deck Type 31: Concrete Deck, Insulated, New Construction

Deck Description: 2000 psi structural concrete over concrete slabs

System Type A-2: Insulation adhered with approved adhesive

All General and System Limitations apply

Insulation	Approved Type	Thickness	Minimum Thickness
Extruded Polystyrene	AC Form II	1 1/2"	1 1/2"
Expanded Polystyrene	AC Form II	1 1/2"	1 1/2"
Concrete Deck	AC Form II	1 1/2"	1 1/2"

Note: Concrete Deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mapping of approved Standard RAS 117 for insulation attachment. Insulation based on base layer shall be used with a minimum of 1/2" of approved top layer insulation installed as the final membrane.

Base Sheet: (Optional) Any UL or FM approved waterproofing

Max. Sheet: None

Membrane: Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal. A single layer of membrane shall be applied to the deck. The final membrane shall be applied to the deck at a rate of 100 ft²/gal. Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Surface: (Optional) Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Maximum Design Pressure: 200 psi (See General Limitations #1)

Maximum Fire Classification: See General Limitations #1

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Tom Zengge, RRC
Routing Product Control Engineer

SEALOFLEX WATERPROOFING SYSTEMS, INC. Reference No. 80-1212.11

Deck Type 31: Concrete Deck, Insulated, New Construction

Deck Description: 2000 psi structural concrete over concrete slabs

System Type A-3: Insulation adhered with approved adhesive

All General and System Limitations apply

Insulation	Approved Type	Thickness	Minimum Thickness
Extruded Polystyrene	AC Form II	1 1/2"	1 1/2"
Expanded Polystyrene	AC Form II	1 1/2"	1 1/2"
Concrete Deck	AC Form II	1 1/2"	1 1/2"

Note: Concrete Deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mapping of approved Standard RAS 117 for insulation attachment. Insulation based on base layer shall be used with a minimum of 1/2" of approved top layer insulation installed as the final membrane.

Base Sheet: (Optional) Any UL or FM approved waterproofing

Max. Sheet: None

Membrane: Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal. A single layer of membrane shall be applied to the deck. The final membrane shall be applied to the deck at a rate of 100 ft²/gal. Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Surface: (Optional) Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Maximum Design Pressure: 200 psi (See General Limitations #1)

Maximum Fire Classification: See General Limitations #1

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Tom Zengge, RRC
Routing Product Control Engineer

SEALOFLEX WATERPROOFING SYSTEMS, INC. Reference No. 80-1212.11

Deck Type 31: Concrete Deck, Insulated, New Construction

Deck Description: 2000 psi structural concrete over concrete slabs

System Type A-4: Insulation adhered with approved adhesive

All General and System Limitations apply

Insulation	Approved Type	Thickness	Minimum Thickness
Extruded Polystyrene	AC Form II	1 1/2"	1 1/2"
Expanded Polystyrene	AC Form II	1 1/2"	1 1/2"
Concrete Deck	AC Form II	1 1/2"	1 1/2"

Note: Concrete Deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mapping of approved Standard RAS 117 for insulation attachment. Insulation based on base layer shall be used with a minimum of 1/2" of approved top layer insulation installed as the final membrane.

Base Sheet: (Optional) Any UL or FM approved waterproofing

Max. Sheet: None

Membrane: Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal. A single layer of membrane shall be applied to the deck. The final membrane shall be applied to the deck at a rate of 100 ft²/gal. Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Surface: (Optional) Apply Sealoflex Prol Foundation at a rate of 100 ft²/gal.

Maximum Design Pressure: 200 psi (See General Limitations #1)

Maximum Fire Classification: See General Limitations #1

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Tom Zengge, RRC
Routing Product Control Engineer

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11

Deck Type 31: Concrete Deck, Insulated, New Construction

Deck Description: 2100 psi structural concrete or concrete panel

System Type B Insulation layer mechanically fastened

All General and System Limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): AC Foam II				
Minimum: 1.5" x 6" x 4"	#12 Insulflex S	5	12	11.2 ft ²

Note: Insulation panels listed are minimum size and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Top Layer (Optional)	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): Dens-Deck	N/A	N/A	N/A	N/A
Minimum Thickness: 1"				

Optional top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 25-30 lbs/ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polymeric membrane face down.

Membrane: Apply Sealoflex Pink Foundation at an application rate of 40 ft²/gal.
A single layer of non-woven polyester fabric applied to the wet Pink Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Pink Foundation.
Apply Sealoflex Finish Coat at a rate of 70 ft²/gal.

Surfacing: (Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Maximum Design Pressure: 77.5 psi (with no Dens Deck top insulation)
83 psi (with Dens Deck top insulation)
(See General Limitations #9)

Maximum Fire Classification: See General Limitation #1.

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Frank Zukaga, RRC
Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11

Deck Type 31: Concrete Deck, Insulated, New Construction or Reroof

Deck Description: 2100 psi structural concrete or concrete panel

System Type C: All layers of insulation were mechanically attached

All General and System Limitations apply.

Insulation Base Layer (Optional)	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): Any Approved polymeric insulate insulation				
Minimum: 1.5" x 6" x 4"	N/A	N/A	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): Dens-Deck				
Minimum: 1.5" x 6" x 4"	Olympic HD CF Deckfast #14	4	24	11.2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The installation patch listed are minimum size and dimensions; if larger patches are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 185 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Apply Sealoflex Pink Foundation at a rate of 40 ft²/gal.
A single layer of non-woven polyester fabric applied to the wet Pink Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Pink Foundation.
Apply Sealoflex Finish Coat at a rate of 70 ft²/gal.

Or:
Apply moderate base coat of Sealoflex Pink CT.
A single layer of non-woven polyester fabric applied to the wet foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Pink CT.
Apply two (2) coats of Sealoflex CT at a rate of 70 ft²/gal coat.

(Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Maximum Design Pressure: 80 psi (See General Limitations #9)

Maximum Fire Classification: See General Limitation #1.

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Frank Zukaga, RRC
Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 00-1212.11

Deck Type 31: Concrete Deck, Non-Insulated, New Construction

Deck Description: 2100 psi structural concrete or concrete panel

System Type F-1: Sealoflex system applied directly to substrate

All General and System Limitations apply.

Note: Metal Deck Primer is required on all unprotected iron and steel and previously painted surfaces.

Primer: Apply Seabond Primer at an application rate of 240 ft²/gal and allow to dry.

Membrane: Apply Sealoflex Pink Foundation at an application rate of 40 ft²/gal.

A single layer of non-woven polyester fabric applied to the wet Pink Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Pink Foundation.

Apply Sealoflex Finish Coat at an application rate of 70 ft²/gal.

(Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Surfacing: (Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Maximum Design Pressure: 77.5 psi (See General Limitations #9)

Maximum Fire Classification: See General Limitation #1.

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Frank Zukaga, RRC
Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 06-1212.11

Deck Type J: Concrete Decks, Non-insulated, New Construction

Deck Description: 2500 psi structural concrete or concrete plank

System Type F-2: Sealoflex system with Cemflex applied directly to substrate

All General and System Limitations apply.

Note: Metal Etch Primer is required on all unprotected steel and previously painted surfaces.

Membrane: Apply Cemflex Slurry at an application rate of 60 ft²/gal.

Apply Sealoflex Patch Foundation at an application rate of 40 ft²/gal.

A single layer of non-woven polypropylene fabric applied to the wet Patch Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Patch Foundation.


Apply Sealoflex Finish Coat at an application rate of 7

Surfacing: (Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Maximum Design Pressure: -147.3 psi (See General Limitations #9)

Maximum Fire Classification: See General Limitation #1

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Frank Zukauskas, RRC
Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 06-1212.11

Deck Type J: Concrete Decks, Non-insulated, New Construction or Reroof

Deck Description: 2500 psi structural concrete or concrete plank

System Type F-3: Sealoflex CT system applied directly to substrate

All General and System Limitations apply.

Note: Metal Etch Primer is required on all unprotected steel and previously painted surfaces.

Primer: Apply one coat of Sealoflex Patch CT (4 mils) 100% with Nupoke. Apply this coat during a curing phase of the deck and allow to cure overnight.


Membrane: Apply moisture base coat of Sealoflex Patch CT. A single layer of non-woven polypropylene fabric applied to the wet foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Patch CT. Apply final 2 coats of Sealoflex CT at a rate of 70 ft²/gal each.

Surfacing: (Optional) Apply Wearcoat at a rate of 90 ft²/gal.

Maximum Design Pressure: -147.3 psi (See General Limitations #9)

Maximum Fire Classification: See General Limitation #1

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Frank Zukauskas, RRC
Roofing Product Control Examiner

SEALOFLEX WATERPROOFING SYSTEMS, INC.

Acceptance No. 06-1212.11

Deck Type J: Concrete Decks, Non-insulated, New Construction or Reroof

Deck Description: 2500 psi structural concrete or concrete plank

System Type F-4: Roof Tile Underlayment System

All General and System Limitations apply.

Primer: Apply Cemflex Slurry at a rate of 120 ft²/gal.

Membrane: Apply Sealoflex Patch Foundation at a rate of 40 ft²/gal. A single layer of non-woven polypropylene fabric applied to the wet Patch Foundation coat. Fabric joints shall be overlapped a minimum of 3" followed by saturation coat of Sealoflex Patch Foundation. Apply Sealoflex Finish Coat at a rate of 70 ft²/gal.


Surfacing: Cemflex Slurry shall be applied over entire Sealoflex Patch Coat membrane system at a rate of 60 ft²/gal to reduce cement or clay fault lines. Embed single layer of non-woven polypropylene fabric in the wet slurry coat, overlapping fabric joints a minimum of 3". Apply additional Cemflex slurry to fully saturate fabric.

Tile Installation: Shall be in accordance with Roof Tile Assembly Manufacturers Notice of Acceptance and in compliance with Roofing Application Standard RAS 118, 119 and 120.

Maximum Design Pressure: See Roof Tile Assembly Manufacturers Notice of Acceptance

Maximum Fire Classification: See General Limitation #1

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Frank Zukauskas, RRC
Roofing Product Control Examiner

CONCRETE DECK SYSTEM LIMITATIONS:

1. Sealoflex is a variable waterproofing system used on concrete slabs or slabs to receive adhesive, not vice versa.
2. An application of Sealoflex slurry at an application rate of 50 lbs./sq. yd. is a variable waterproofing layer and bonding membrane for the application of concrete or clay tile over structural concrete slabs.

GENERAL LIMITATIONS:

1. The classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for the ratings of this product.
2. Installation must be installed in strict accordance with the first layer shall be attached in compliance with Product Control Approval guidelines. All other areas shall be adhered in a full membrane of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. yd. for mechanical attachment using the fastening pattern of a fastener layer.
3. All standard speed sheets are acceptable for mechanical attachment. When applied in approved asphalt, panels shall be 4' x 8' maximum.
4. An overlap and/or recovery board installation panel is required on all applications over closed cell foam insulation where the base sheet is fully exposed. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" on center, in 18" staggered 18" ribbons at three rows, one in each sublap and one down the center of the sheet along all corners and all ventilation. Lapping of the sheets is not acceptable. A 6" break shall be placed every 12" in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. yd. Note: Spot attached systems shall be limited to a maximum drive pressure of 40 psi.
5. Fastener spacing for installation attachment is based on a Minimum Characteristic Force (F_{min}) of 250 lbf, as tested in accordance with Testing Application Standard TAS 103. If the fastener has not been tested, one below 250 lbf, installation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of a rubber base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed in this specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall include the maximum resistance value taken from Testing Application Standards TAS 103 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the outlined uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet in calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (Where this limitation is specifically referred within this NOA, General Limitations are not applicable).
8. All attachment and usage of perimeter systems, metal profile and/or flashing termination details, shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones, i.e., wind penetration and corner. In other cases, no maximum pressure limitation shall be permitted for external factors, as outlined in this NOA, General Limitations, shall not be applicable.

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Frank Zuckaga, RRC
Roofing Product Control Examiner

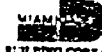
NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, 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, date, 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 (material) 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 in fully submitted is no longer practicing the engineering profession.
4. Any revision or change in the material, use, and/or manufacture of the product or product 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 fees and granted by this office.
5. Any of the following shall also be grounds for removal of this acceptance:
 - a) Unacceptable performance of the product or products.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number provided by the 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 direct users and shall be available for inspection at the job site at all times. The copies need not be marked by the engineer.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1 through 15.

END OF THIS ACCEPTANCE

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Frank Zuckaga, RRC
Roofing Product Control Examiner



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

MIAMI-DADE COUNTY, FLORIDA
METRO-DASH PLAZA, SUITE 1400
140 WEST FLAGLER STREET, SUITE 1400
MIAMI, FL 33135-3333
(305) 375-5200 / FAX: (305) 375-1194

NOTICE OF ACCEPTANCE (NOA)

Albert (LISA) Lee
4801 NW 77th Avenue
Miami, FL 33154

SCOPE:

This document is submitted and 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 as may be 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 approved manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, suspend, 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: ALUMINUM 78" Clay Roof Tile

LABELING: Each unit shall have 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: All of the NOA shall be considered after a renewal application has been filed and to any has been a change in the applicable building code affecting the performance of this product.

TERMINATION: This NOA will remain after the expiration date or if there has been a revision or change in the material, use, and/or manufacture of the product or product. 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 provided by the 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 direct users and shall be available for inspection at the job site at all times. The copies need not be marked by the Building Official.

The NOA number of pages 1 through 15

The submitted documentation was reviewed by Frank Zuckaga, RRC



NOA No. 08-1212-11
Expiration Date: 12/15/07
Approval Date: 12/15/07
Page 1 of 1

ROOFING ASSEMBLY APPROVAL

Category: Roofing
 Sub-Category: Roofing Tile
 Material: Clay

1. SCOPE
 This covers roof assembly using Atlas One Piece 3" Clay Roof Tile, as manufactured by Atlas (USA), Inc. and described in Section 2 of this Notice of Approval. For locations where the primary requirements, as determined by applicable Building Code, do not exceed the design values stated by this notice, compliance with RAS 112 using the values listed in Section 4 herein. The structural calculations shall be done at a licensed structural engineer.

2. PRODUCT DESCRIPTION

Manufacturer's Approval	Tile Description	Product Description
Atlas One Piece 3" Tile	TAS 112 1" x 11 1/2" x 19 1/2" N" thick nominal 1.25" high	High profile clay roof tile. For direct deck or battens application, cover as a minimum 100 sq ft.
Trim Piece	Length: varies Width: varies Tapering thickness L = 6" D = 0.125" L db = 2" W = 1 1/2" 0.07" thick	Accessory trim, clay roof piece for use at hips, ridges, valleys and other transitions. Manufactured for each tile profile.
Clip	PA 114	1" x 11 1/2" x 19 1/2"
Clip	PA 114	L Shaped clip

3.1 SUBMITTED EVIDENCE:

Test Agency	Test Method	Test Results	Date
The Center for Applied Engineering, Inc.	94-013	Static Uplift Testing PA 112 (Adhesive Set)	April 1994
The Center for Applied Engineering, Inc.	94-014	Static Uplift Testing PA 112 (Adhesive Set)	May 1994
The Center for Applied Engineering, Inc.	25-7205-1	Static Uplift Testing PA 112 (Adhesive Set)	Feb. 1997
The Center for Applied Engineering, Inc.	Project No. 157723 Test #RDC-78	(Quake-Data Service, Bureau) Wind Drive Tests PA 112	Oct. 1994
General Construction Testing	M73 130649	PA 112(A)	May 2000
FD Asphalt Technology, Inc.	CL7-007 21-41	PA 112	October 2001
Radford Technologies	7161-03, Appendix III	PA 112	Dec. 1991

NOA No. 95-11183
 Expiration Date: 12-31-97
 Approval Date: 12-31-92
 Page 3 of 7

Test Agency Test Method Test Results Date

Radford Technologies	7161-03 Appendix II	Wind Tunnel Testing PA 112 (Nail-On)	Dec. 1991
Radford Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 112 (Nail-On)	Aug. 1994
Radford Technologies	PG-01-01	Wind Tunnel Testing PA 112 (Nail-On)	July 1994
Radford Technologies	PG-02	Wind Tunnel Testing PA 112 (Nail-On)	Sept. 1991
Walker Engineering, Inc.	Calculation	Withstand Resistance Testing of screw-in, smooth deck and	March 1999
Walker Engineering, Inc.	Exhaustive Calculations	25-7110	March 1995
Walker Engineering, Inc.	Exhaustive Calculations	25-7194	February 1996
Walker Engineering, Inc.	Exhaustive Calculations	25-7194	April 1996
Walker Engineering, Inc.	Exhaustive Calculations	25-7194 25-7194-A 25-7194-B	December 1996

3. LIMITATIONS

1. For classification is not part of this approval.
2. For exterior or interior use, the application, a static field test shall be performed in accordance with RAS 112.
3. Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test to accordance with RAS 112, Appendix "A". Such testing shall be submitted to the Building Code Compliance Office for review.
4. Minimum underlayment shall be in accordance with the applicable Building Code. Minimum underlayment shall be in accordance with the applicable Building Code.
5. 100% wet applied underlayment application may be installed perpendicular to the roof slope unless stated otherwise by the manufacturer's material manufacturer published literature.
6. This approval is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
7. May be installed on slopes 7:12 and greater.

4. INSTALLATION

- 4.1. Atlas One Piece 3" Clay Roof Tile and its components shall be installed in strict compliance with Reading Application Standard RAS 112, RAS 113, and RAS 114.
- 4.2. See For Attachment Calculations.

Tile Profile	Weight (lb)	Length (ft)	Width (ft)
One Piece 3" Tile	6.8	1.25	0.875

NOA No. 95-11183
 Expiration Date: 12-31-97
 Approval Date: 12-31-92
 Page 3 of 7

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

Tile Profile	Attachment Application	Direct Deck Application
One Piece 3" Tile	2.15	2.15

NOA No. 95-11183
 Expiration Date: 12-31-97
 Approval Date: 12-31-92
 Page 3 of 7

Table 5A: Attachment Resistance Expressed as a Moment - 54 (N-B)			
for Single Party Adhesive Set Systems			
The Profile	The Application	Minimum Attachment Resistance	Designation
One-piece 5" tile	One-piece 5" tile	2500	2500
Two-piece 5" tile	Two-piece 5" tile	2500	2500
Three-piece 5" tile	Three-piece 5" tile	2500	2500
Four-piece 5" tile	Four-piece 5" tile	2500	2500
Five-piece 5" tile	Five-piece 5" tile	2500	2500
Six-piece 5" tile	Six-piece 5" tile	2500	2500
Seven-piece 5" tile	Seven-piece 5" tile	2500	2500
Eight-piece 5" tile	Eight-piece 5" tile	2500	2500
Nine-piece 5" tile	Nine-piece 5" tile	2500	2500
Ten-piece 5" tile	Ten-piece 5" tile	2500	2500
Eleven-piece 5" tile	Eleven-piece 5" tile	2500	2500
Twelve-piece 5" tile	Twelve-piece 5" tile	2500	2500
Thirteen-piece 5" tile	Thirteen-piece 5" tile	2500	2500
Fourteen-piece 5" tile	Fourteen-piece 5" tile	2500	2500
Fifteen-piece 5" tile	Fifteen-piece 5" tile	2500	2500
Sixteen-piece 5" tile	Sixteen-piece 5" tile	2500	2500
Seventeen-piece 5" tile	Seventeen-piece 5" tile	2500	2500
Eighteen-piece 5" tile	Eighteen-piece 5" tile	2500	2500
Nineteen-piece 5" tile	Nineteen-piece 5" tile	2500	2500
Twenty-piece 5" tile	Twenty-piece 5" tile	2500	2500

Table 5B: Attachment Resistance Expressed as a Moment - 54 (N-B)

for Multiple Party Adhesive Set Systems

The Profile

The Application

Attachment Resistance

Designation

1. LABELING

A. All tile shall bear the letter or identification marking of the manufacturer's name or logo or following statement: "MasterTile Clastic Product Center Approved"

2. BUILDING PERMIT REQUIREMENTS

A. Application for building permit shall be accompanied by copies of the following:

1.1 Title Sheet of Acceptance

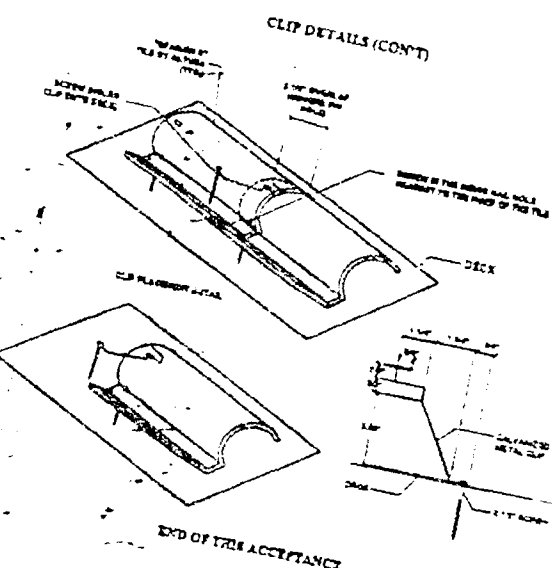
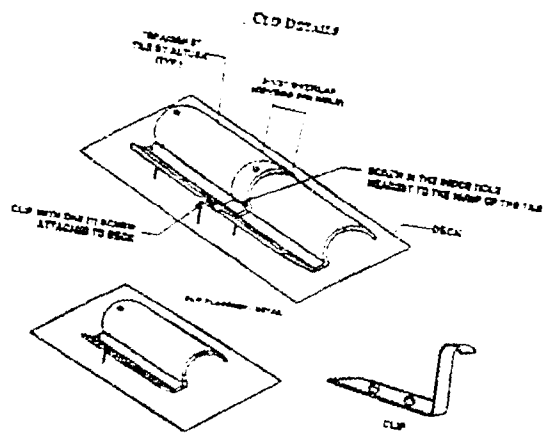
1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system

PROFILE DRAWINGS

ONE PIECE 5" CLAY EGG TILE



NDA No. 95-1112-83
Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 2 of 4



NDA No. 95-1112-83
Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 3 of 4

NDA No. 95-1112-83
Expiration Date: 12/16/97
Approval Date: 12/11/93
Page 4 of 4

BD400914
5800 PINETREE DR



PERMIT #

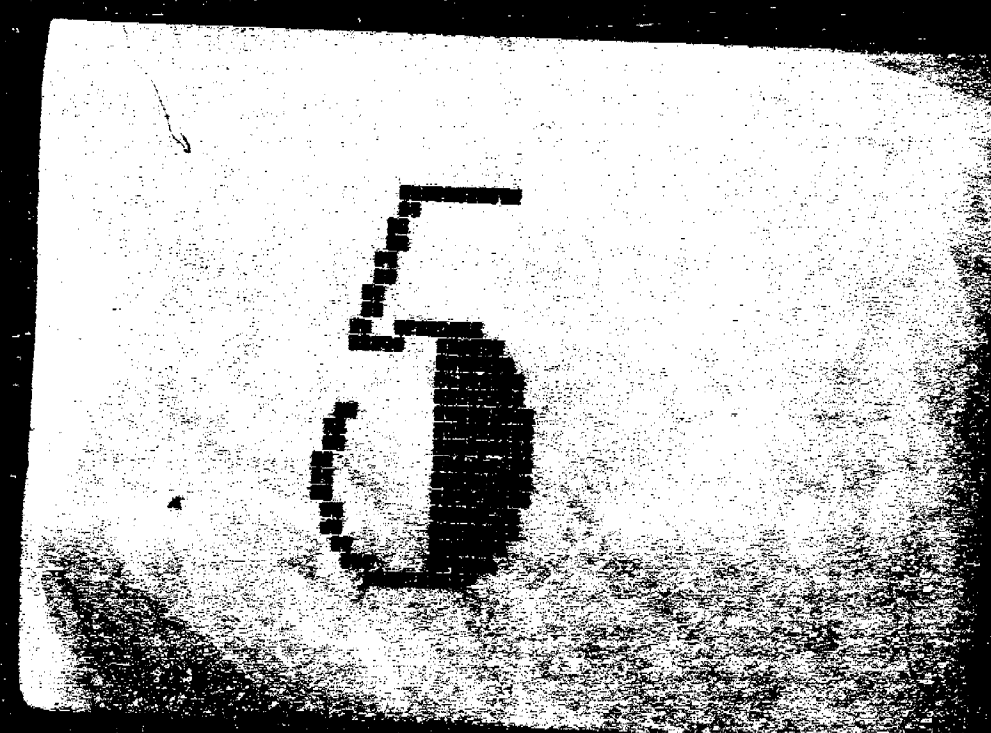
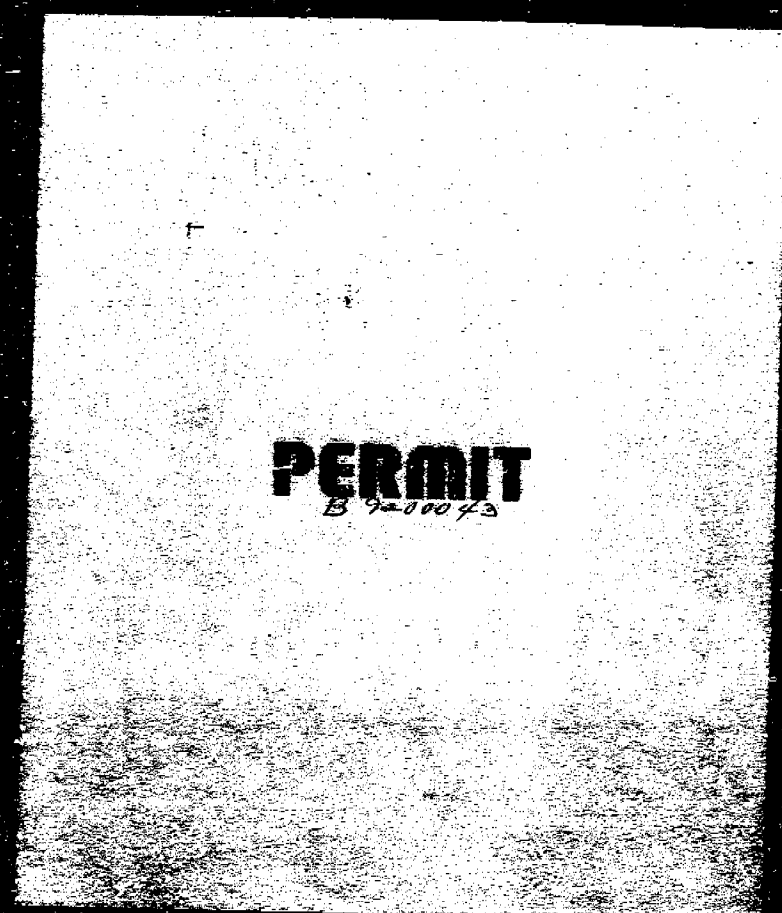
B0402804

[illegible]

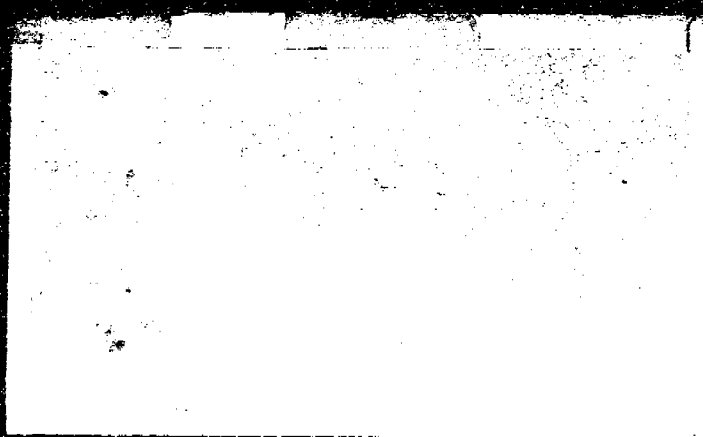
**48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION OF
UNDERGROUND UTILITIES**

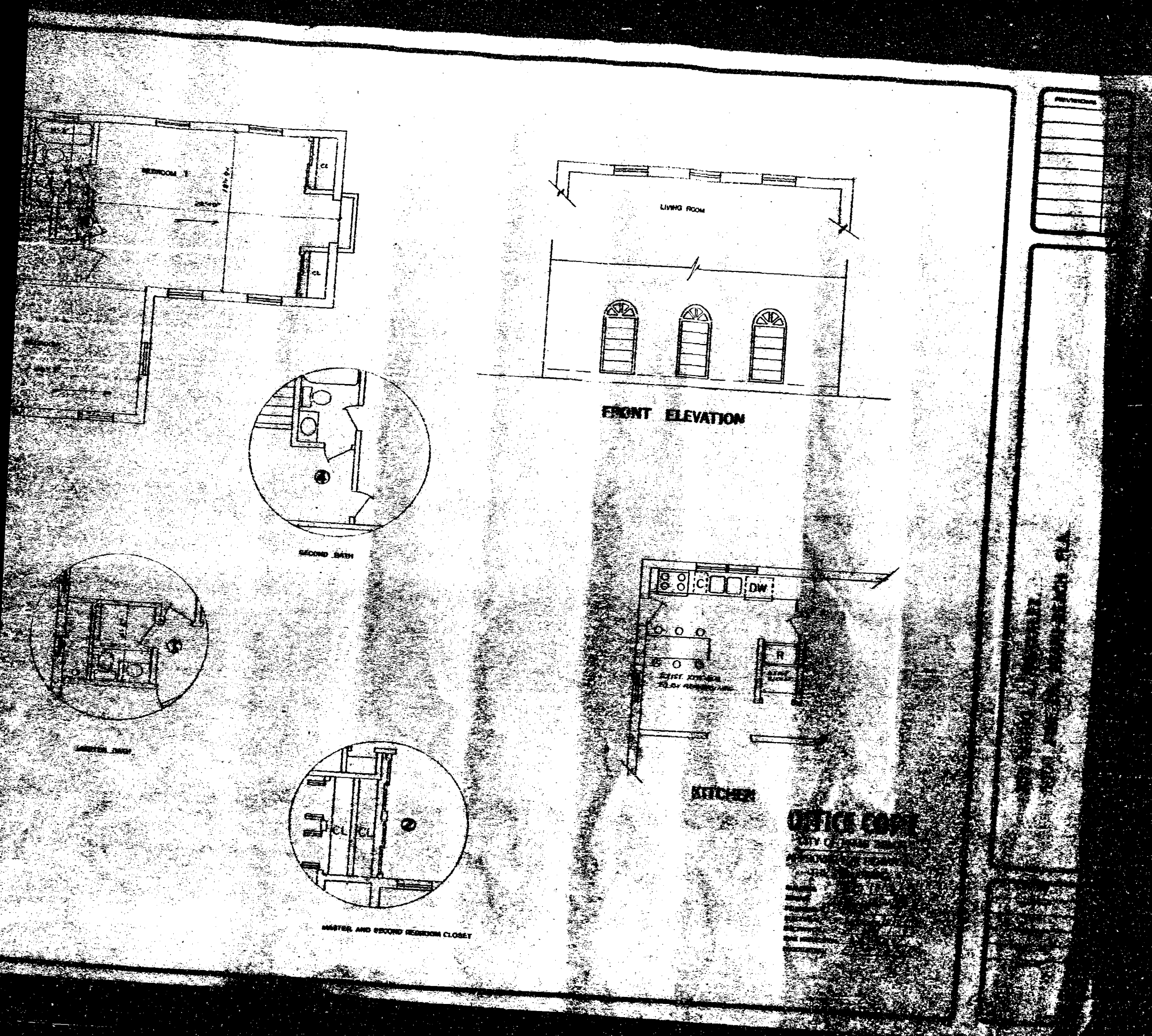
1-800-432-4770
305-673-7000

BO402804
5800 PINETREE DR
OFFICE COPY



10459335





B
9
2
0
0
0
4
3

11/11/11

REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATION

Review Type: Roofing
Initials: [Signature]
Zoning: [Signature]

Date

11/22/17

It is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this form. The owner's initials in the designated space indicates that the item has been explained.



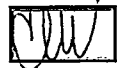
1. Aesthetics-workmanship: The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.



2. Renailing wood decks: When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code. (The roof deck is usually concealed prior to removing the existing roof system).



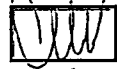
3. Common roofs: Common roofs are those which have no visible delineation between neighboring units (i.e. townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.



4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.



5. Ponding water: The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.



6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a build up of water. Perimeter edges, walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: Chapter 15 and 16 herein and the **Florida Building Code, Plumbing**.



7. Ventilation: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced.

Owner's/Agent's Signature:

[Signature]

Date:

01 / 06 / 17

Contractor's Signature:

[Signature]

Permit Number:

[Blank]

Property Address:

5800 Pinetree Dr.

MIAMI BEACH

OWNER'S AFFIDAVIT OF EXEMPTION

ROOF TO WALL CONNECTION HURRICANE MITIGATION RETROFIT FOR EXISTING SITE-BUILT SINGLE FAMILY RESIDENTIAL STRUCTURES PURSUANT TO SECTION 553.844 F.S.

Date: _____

To: City of Miami Beach Building Department
1700 Convention Center Dr
Miami Beach, FL 33139

Re: Owner's Name Corina Keller

Property Address 5800 Pine tree Dr.

Roofing Permit Number _____

Dear Building Official:

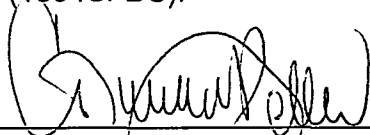
I, Corina Keller, certify that I am not required to retrofit the roof to wall connections of my building because:



The just valuation for the structure for purposes of ad valorem taxation in less than \$300,000.00.



The building was constructed in compliance with the provisions of the Florida Building Code (FBC) or with the provisions of the 1994 edition of the South Florida Building Code (1994SFBC).

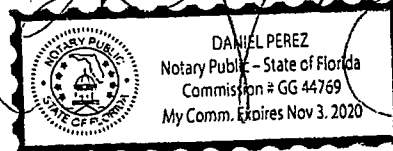


Signature of Property Owner

Corinna Keller

Print Name

STATE OF FLORIDA COUNTY OF MIAMI-DADE
Sworn to and subscribed before me this 27
day of Oct, 2017
(SEAL)



____ Personally known ____ or Produced Identification

When the just valuation of the structure for purposes of ad valorem taxation is equal to or more than \$300,000.00, and the building was not constructed in compliance with the FBC nor with 1994 SFBC, and affidavit of Roof to Wall Connection Hurricane Mitigation Retrofit must be provided.



OFFICE OF THE PROPERTY APPRAISER

Summary Report

Generated On : 9/22/2017

Property Information	
Folio:	02-3211-014-0870
Property Address:	5800 PINE TREE DR Miami Beach, FL 33140-2123
Owner	CORINNA U KELLER
Mailing Address	5800 PINETREE DR MIAMI BEACH, FL 33140-2123
PA Primary Zone	0100 SINGLE FAMILY - GENERAL
Primary Land Use	0101 RESIDENTIAL - SINGLE FAMILY : 1 UNIT
Beds / Baths / Half	4 / 3 / 0
Floors	2
Living Units	1
Actual Area	Sq.Ft
Living Area	Sq.Ft
Adjusted Area	4,284 Sq.Ft
Lot Size	8,625 Sq.Ft
Year Built	1928



Assessment Information			
Year	2017	2016	2015
Land Value	\$892,860	\$923,220	\$923,220
Building Value	\$461,099	\$467,312	\$473,523
XF Value	\$13,228	\$13,376	\$10,385
Market Value	\$1,367,187	\$1,403,908	\$1,407,128
Assessed Value	\$688,215	\$674,060	\$669,375

Benefits Information				
Benefit	Type	2017	2016	2015
Save Our Homes Cap	Assessment Reduction	\$678,972	\$729,848	\$737,753
Homestead	Exemption	\$25,000	\$25,000	\$25,000
Second Homestead	Exemption	\$25,000	\$25,000	\$25,000
Note: Not all benefits are applicable to all Taxable Values (i.e. County, School Board, City, Regional).				

Short Legal Description	
BEACH VIEW ADDN PB 16-10 LOT 8 BLK 8 LOT SIZE 69.000 X 125 OR 20930-2909 01 2003 4	

Taxable Value Information			
	2017	2016	2015
County			
Exemption Value	\$50,000	\$50,000	\$50,000
Taxable Value	\$638,215	\$624,060	\$619,375
School Board			
Exemption Value	\$25,000	\$25,000	\$25,000
Taxable Value	\$663,215	\$649,060	\$644,375
City			
Exemption Value	\$50,000	\$50,000	\$50,000
Taxable Value	\$638,215	\$624,060	\$619,375
Regional			
Exemption Value	\$50,000	\$50,000	\$50,000
Taxable Value	\$638,215	\$624,060	\$619,375

Sales Information			
Previous Sale	Price	OR Book-Page	Qualification Description
01/01/2003	\$0	20930-2909	Sales which are disqualified as a result of examination of the deed
06/01/2000	\$515,000	19172-0964	Sales which are qualified
03/01/1999	\$460,000	18555-2927	Sales which are qualified
10/01/1992	\$400,000	15704-0723	Sales which are qualified

The Office of the Property Appraiser is continually editing and updating the tax roll. This website may not reflect the most current information on record. The Property Appraiser and Miami-Dade County assumes no liability, see full disclaimer and User Agreement at <http://www.miamidade.gov/info/disclaimer.asp>



Miami-Dade County HVHZ Electronic Roof Permit Form

"Delivering Excellence Every Day"

Section A (General Information)

Master Permit No:

Process No:

Contractor's Name:

Job Address:

Roof Category

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Low Slope | <input type="checkbox"/> Mechanically Fastened Tile | <input checked="" type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphaltic Shingles | <input type="checkbox"/> Metal Panel/Shingles | <input type="checkbox"/> Wood Shingles/Shakes |
| <input type="checkbox"/> Sprayed Polyurethane Foam | <input type="checkbox"/> Other: <input type="text"/> | |

Roof Type

- ☐ New Roof
 ☒ Re-Roofing
 ☐ Recovering
 ☐ Repair
 ☐ Maintenance

Are there Gas Vent Stacks located on the roof? ☐ Yes ☒ No If yes, what type? ☐ Natural ☐ LPGX

Roof System Information

Low slope roof area (ft.²) Steep Sloped area (ft.²) Total (ft.²)

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

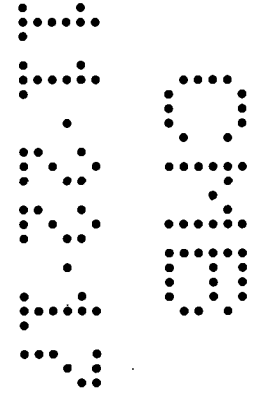
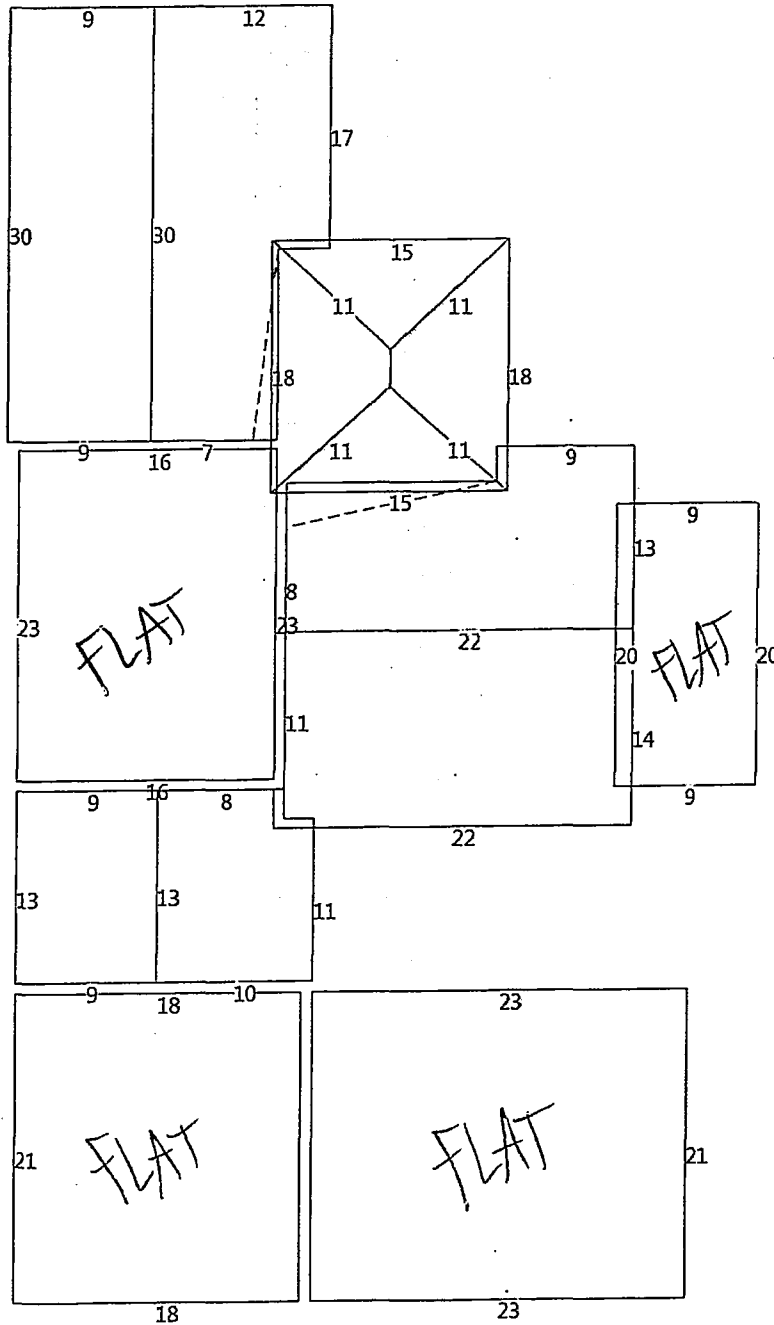
Perimeter Width (a'): Corner Size (a' x a'):

*See
Attached*

Length Diagram

Ridge Length = 111 ft [Red Lines]

Valley Length = 27 ft [Blue Lines]



© 2017 Eagle View Technologies, Inc., All Rights Reserved.

This diagram contains values derived from roof pitches that were not determined or verified by EagleView Technologies. Note: In some cases, segment lengths under 5 feet have been removed for readability.

Miami-Dade County MHVZ Electronic Roof Permit Form
Section C Page (Low Slope BUR Roof Systems)

Fill in the specific roof assembly components. If a component is not required, insert not applicable (N/A) in the box.

Roof System Manufacturer:		GAF	
Product Approval (NOA):		14-1070-0	
NOA System Type:		TE	
Wind Uplift Pressures, From RAS 128 or Sealed Calculations:			
(P1) Field:	51.9	psf	(P2) Perimeters:
			46.2
			psf
(P3) Corners:	79.7	psf	
Maximum Design Pressure From NOA:			
		psf	
(P2) Perimeter (a') Size:		ft.	(P3) Corner Size: a'
			(x) a'
Roof Slope:	5		Roof Mean Height:
			12
			ft.
Parapet Walls:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Parapet wall Height:
			N/A
			ft.
-- 5/8" Plywood Deck --			
LWIC Manufacturer:			
Compressive Strength:		psi	Support Spacing:
			ft. o/c
Existing Roof (For Recovers Only):			
Fire Barrier:			
Vapor Barrier:			
Anchor Sheet:			
Anchor Sheet Fastener / Bonding Material:			
Insulation Base Layer Size & Thickness:			
Insulation Base Layer Fastener / Bonding Material:			
Insulation Top Layer Size & Thickness:			
Insulation Top Layer Fastener / Bonding Material:			
Number of Fasteners per Insulation Board:			
Field:		Perimeter:	
Corner:			

Base Sheet(s):
#75 BASE SHEET
Base Sheet Fastener / Bonding Material:
1 1/4 RS NAILS
Ply Sheet(s):
PLY IV (2)
Ply Sheet Fastener / Bonding Material:
ASPHALT TYPE IV
Top Ply Sheet:
MINERAL SURFACE CAPSHEET
Top Ply Sheet Fastener / Bonding Material:
ASPHALT TYPE IV
Optional Surfacing:

Fastener Spacing for Base Sheet Attachment:			
Lap Spacing			
(P1)Field:	6	in. o/c	4
			Row
			6
			in. o/c
(P2) Perimeter:	6	in. o/c	4
			Row(s)
			6
			in. o/c
(P3) Corner:	4	in. o/c	6
			Row(s)
			4
			in. o/c

Wood Nailer Type and Size:
Wood Nailer Fastener Type and Spacing:
-- Galvanized Edge Metal --
-- 3" Face 26 Gauge --
-- SELECT EDGE METAL HOOK STRIP SIZE --
Edge Metal Attachment:
1 1/4 RS NAILS
-- SELECT PARAPET WALL COPING MATERIAL --
-- SELECT COPING METAL SIZE OR THICKNESS --
-- SELECT COPING METAL HOOK STRIP SIZE --
Parapet Coping Metal Attachment:

Reset Form

Print Form

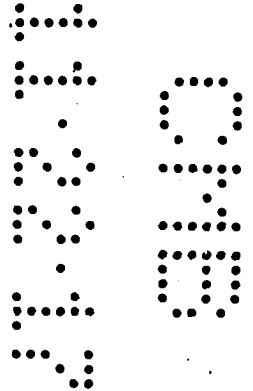
Roof Nail the Deck



"Delivering Excellence Every Day"

Miami-Dade County HVHZ Electronic Roof Permit Form

Illustrate Components Noted and Details as Applicable:



<p>Top Ply</p> <p>Interplies</p> <p>Base Sheet</p> <p>Roof Deck</p> <p>Drip Metal</p>	<p>Roof Mean Height: <input type="text" value="12"/> ft.</p> <p>Drip Metal:</p> <p><input type="text" value="3X3 GALV 26 GA"/></p> <p>Surfacing:</p> <p><input type="text"/></p> <p>Top Ply:</p> <p><input type="text" value="MINERAL SURFACE CAPSHEET"/></p> <p>Interplies:</p> <p><input type="text" value="PLY IV (2)"/></p> <p>Base Sheet:</p> <p><input type="text" value="#75 BASESHEET"/></p> <p>Deck Type:</p> <p><input type="text" value="5/8 CDX PLYWOOD"/></p>
---	--

RFR17 00436

MIAMI-DADE

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

GAF

1 Campus Drive
Parsippany, NJ 07054

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

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 of the Florida Building Code.

DESCRIPTION: GAF Conventional Built-Up Roof Systems for Wood Decks.

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 No. 13-1022.15 and consists of pages 1 through 31.
The submitted documentation was reviewed by Jorge L. Acebo.

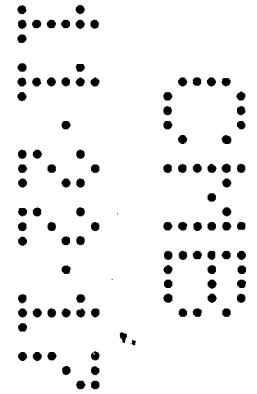


[Handwritten signature]

NOA No.: 14-1030.01
Expiration Date: 11/04/18
Approval Date: 05/04/17

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: BUR
Material: Fiberglass
Deck Type: Wood
Maximum Design Pressure: -97.5 psf.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
GAFLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFLAS® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
Tri-Ply® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFLAS® #80 Ultima™ Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFLAS® Stratavent® Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Smooth surfaced asphaltic perforated venting base sheet reinforced with fiberglass mat.
GAFLAS® Stratavent® Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Smooth surfaced asphaltic nailable venting base sheet reinforced with fiberglass mat. Bottom side surfaced with granules.
Ruberoid® 20 Smooth	39.37" (1 meter) Wide	ASTM D6163	SBS polymer-modified asphalt base or anchor sheet reinforced with a fiberglass mat.
Ruberoid® Mop Smooth	39.37" (1 meter) wide	ASTM D6164	Smooth surfaced mop applied SBS base or anchor sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth 1.5	39.37" (1 meter) wide	ASTM D6164	Smooth surfaced mop applied SBS base or anchor sheet reinforced with a polyester mat.
Ruberoid® Mop Plus Smooth	39.37" (1 meter) wide	ASTM D6164	Smooth surfaced mop applied SBS base or anchor sheet reinforced with a polyester mat.
Ruberoid® HW 25 Smooth	39.37" (1 meter) wide	ASTM D6163	Smooth surfaced torch applied SBS base or anchor sheet reinforced with a fiberglass mat.

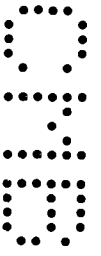


NOA No.: 14-1030.01
 Expiration Date: 11/04/18
 Approval Date: 05/04/17

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

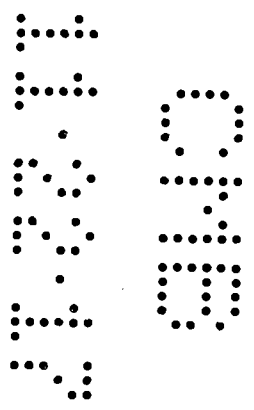
TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	
Ruberoïd® HW Smooth	39.37" (1 meter) wide	ASTM D6164	Smooth surfaced torch applied SBS base or anchor sheet reinforced with a polyester mat.	.....
GAFLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with fiberglass mat.	.....
Tri-Ply® BUR Granule Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with fiberglass mat.	.....
GAFLAS® EnergyCap™ Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with TOPCOAT® EnergyCote™ Elastomeric Coating.	.....
Topcoat® Surface Seal SB	5 or 55 gallons	ASTM D6083	Solvent-based thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.	.....
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Water-based elastomeric coating	.....
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer designed to block asphalt bleed-through.	.....
Topcoat® FireOut™ Fire Barrier Coating	5 or 55 gallons	Proprietary	Low VOC, water based fire barrier coating.	.....
VersaShield® Fire-Resistant Roof Deck Protection	12" x 100' rolls	ASTM D226	Non-asphaltic, fiberglass reinforced underlayment and/or fire barrier	.....
VersaShield® Solo™ Fire-Resistant Slip Sheet	42" roll wide, 100 ft.	ASTM D146, D828, D4869, D6757	Non-asphaltic, fire resistant fiberglass underlayment	.....
Topcoat® FlexSeal™	1, 5 gallons or 1 qt. tube	TAS 139	Solvent-based elastomeric sealant.	.....



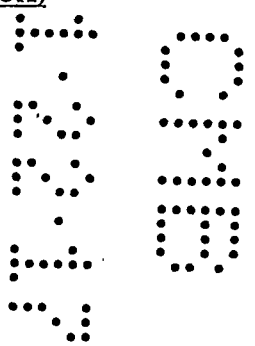
APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer</u> <u>(With Current NOA)</u>	
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ Ultra Polyiso Insulation	Glass-faced polyisocyanurate foam insulation	GAF	
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or perlite	GAF	
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF	
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board	GAF	
EnergyGuard™ Perlite Recover Board	Perlite recover board	GAF	
Securock® Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corp.	
Securock® Glass-Mat Roof Board	Glass faced gypsum board	United States Gypsum Corp.	
Structodek® High Density Fiber Board Roof Insulation	High density fiberboard	Blue Ridge Fiberboard, Inc.	
DensDeck® Prime Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC	
DensDeck® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC	

APPROVED FASTENERS:

TABLE 3

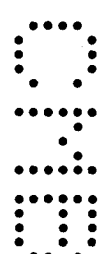
<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>	
1.	Drill-Tec™ #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 x 8" max. length, #3 Phillips head.	GAF	
2.	Drill-Tec™ #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 x 16" max. length, #3 Phillips head.	GAF	
3.	Drill-Tec™ ASAP 3S	Drill-Tec™ #12 Fastener with Drill-Tec™ 3" Standard Steel Plate.	See components	GAF	
4.	Drill-Tec™ 3" Steel Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with Drill-Tec™ fasteners.	3" Round	GAF	
5.	Drill-Tec™ 3" Standard Steel Plate	Galvalume® coated steel stress plate for use with approved Drill-Tec™ fasteners.	3" Round	GAF	
6.	Drill-Tec™ AccuTrac® Flat Plate	A2-SS aluminized steel plate for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF	
7.	Drill-Tec™ AccuTrac® Recessed Plate	Galvalume® steel plate with recess for use with Drill- Tec™ fasteners.	3" square; .017" thick	GAF	
8.	Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners.	3" Round	GAF	

EVIDENCE SUBMITTED:

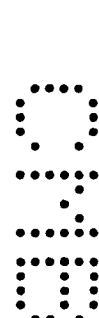
<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research Corp.	3014547	4470	05/22/02
	3029832	4470	05/11/07
	3033135	4470	11/24/08
	3034312	4470	04/09/09
	3036980	4470	08/14/09
	3038278	4470	11/18/11
	3040738	4470	11/16/10
	3041769	4470	05/26/11
	3042887	4470	11/14/11
	3042905	4470	01/10/12
	3046081	4470	02/13/13
	3047636	4470	08/08/13
	0D0A8.AM	4470	07/09/99
	0D1A8.AM	4470	07/29/94
	0Y9Q5.AM	4470	04/01/98
	1B9A8.AM	4470	09/04/97
	2B8A4.AM	4470	07/02/97
	3B9Q1.AM	4470	01/08/98
	3D4Q2.AM	4470	05/30/97
	797-03221-267	4470	09/27/07
	797-03825-267	4470	07/21/08
	797-10228-267	4470	01/23/15
UL LLC	R1306	UL 790	04/04/17
PRI Construction Materials Technologies, LLC	GAF-012-02-02	ASTM D4977	11/06/01
	GAF-020-02-01	ASTM D4977	02/01/02
	GAF-082-02-01	ASTM D6083	05/07/06
	GAF-084-02-01	ASTM D6083	05/09/06
	GAF-122-02-01	TAS 139	05/07/06
	GAF-270-02-02	ASTM D226	11/15/10
	GAF-276-02-01Rev	ASTM D6083	12/16/10
	GAF-276-02-02	ASTM D226	11/15/10
	GAF-306-02-01	ASTM E96	07/07/11
	GAF-314-02-01	ASTM D2178	08/23/11
	GAF-315-02-01	ASTM D2178	08/23/11
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-417-02-01	ASTM C1289	05/28/13
	GAF-464-02-01	ASTM C1289	10/22/12
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-499-02-01	ASTM D6083	03/12/14
	GAF-500-02-01	ASTM D6083	03/12/14
	GAF-549-02-01	TAS 114	08/08/14
	GAF-549-02-02	TAS 114	08/08/14
	GAF-559-02-01	TAS 117(B)	09/30/14

EVIDENCE SUBMITTED: (CONTINUED)

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
PRI Construction Materials Technologies, LLC	GAF-559-02-04	ASTM D 1876	10/01/14
	GAF-559-02-05	ASTM D 1876	10/15/14
	GAF-559-02-06	TAS 114(H)	10/02/14
	GAF-559-02-07	ASTM D 903	10/02/14
	GAF-559-02-08	ASTM D 903	10/02/14
	GAF-559-02-09	ASTM D 903	10/02/14
	GAF-559-02-11	TAS 114	10/14/14
	GAF-559-02-12	TAS 114	10/14/14
	GAF-559-02-13	TAS 114	10/15/14
	GAF-559-02-14	TAS 114	10/15/14
	GAF-559-02-15	TAS 114	10/15/14
	GAF-559-02-16	TAS 114	10/15/14
	GAF-559-02-18	TAS 114	10/15/14
	GAF-559-02-19	TAS 114	04/16/15
IRT of S. Fl.	02-005	TAS 114	01/18/02
	02-014	TAS 114	03/22/02
Trinity | ERD	C8500SC.11.07	TAS 117	11/30/07
	G30250.02.10-3-R2	ASTM D3909	06/03/15
	G31360.03.10	ASTM D6164	03/31/10
	G33470.01.11	ASTM D6164	11/16/11
	G34140.04.11-2	ASTM D6163	04/25/11
	G34140.04.11-4-R2	ASTM D6401	06/04/15
	G34140.04.11-5-R3	ASTM D4897	06/04/15
	G36780.07.11-R1	4470-TAS 114	07/18/11
	G40630.01.14-1	ASTM D6163	01/06/14
	G40630.01.14-2A	ASTM D6164	01/07/14
	G40630.01.14-2A-1-R1	ASTM D6164	04/10/14
	G43610.01.14	ASTM D3909	01/22/14
	G6850.08.07-1	ASTM D3909	08/13/07
	SC6870.08.14-R1	ASTM D3909	09/04/14
Atlantic & Caribbean Roof Consultants, LLC	11-053	TAS 114	08/12/11



Membrane Type:	BUR
Deck Type 1I:	Wood, Non Insulated
Deck Description:	Min. 15/32" thick or greater plywood or wood plank secured 6 in. o.c. at panel end and intermediate supports with 8d ring shank nails to supports spaced 24 in. o.c. at max.
System Type E(3):	Anchor sheet mechanically attached to roof deck.
All General and System Limitations shall apply.	
Fire Barrier: (optional)	TOPCOAT FireOut™ Fire Barrier Coating, VersaShield® Fire-Resistant Slip Sheet or VersaShield® Solo™ Fire-Resistant Slip Sheet installed per manufacturer's installation instructions.
Anchor sheet:	GAFGlas® #75 Base Sheet, Tri-Ply® #75 Base Sheet, Ruberoid® 20 Smooth or GAFGLAS® Stratavent® Venting Nailable Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure: -45 psf. See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure: -52.5 psf. See General Limitation #7)
Fastening Option #3:	Drill-Tec™ #14 Fasteners and Drill-Tec™ 3 in. Standard Steel Plates, Drill-Tec™ AccuTrac® Flat Plates or Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure: -52.5 psf. See General Limitation #7)
Fastening Option #4:	Drill-Tec™ #14 Fasteners and Drill-Tec™ 3 in. Standard Steel Plates, Drill-Tec™ AccuTrac® Flat Plates or Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure: -60 psf. See General Limitation #7)
Fastening Option #5:	Drill-Tec™ #14 Fasteners and Drill-Tec™ 3 in. Standard Steel Plates, Drill-Tec™ AccuTrac® Flat Plates or Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. (Maximum Design Pressure: -97.5 psf. See General Limitation #7)
Ply Sheet:	When optional cap sheet is present: Two or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® Flex Ply 6 adhered in a full mopping of hot asphalt applied at 20-40 lbs./sq. installed per manufacturer's installation instructions. When optional cap sheet is not present: Three or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® Flex Ply 6 adhered in a full mopping of hot asphalt applied at 20-40 lbs./sq. installed per manufacturer's installation instructions.



Cap Sheet:

(Optional) GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS EnergyCap™ Mineral Surfaced Cap Sheet adhered in a full mopping of hot asphalt applied at 20 – 40 lbs./sq. installed per manufacturer's installation instructions.

Surfacing:

Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. Topcoat® Membrane or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
OR
Topcoat® MB Plus applied at 0.5 to 0.75 gal./sq.(to be used as a primer) followed by Topcoat® Membrane applied at 0.5 to 0.75 gal./sq.
3. Fiber Aluminum Roof Coating.

**Maximum Design
Pressure:**

See Fastening Above.

WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with GAFGLAS® Ply 4 and GAFGLAS® Flex Ply™ 6 when used as a mechanically fastened base or anchor sheet.
2. Minimum ¼" DensDeck™ Roof Board or ½" Type X gypsum board is acceptable to be installed directly over the wood deck.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



TGFU.R1306 Roofing Systems

[Page Bottom](#)

Roofing Systems

[See General Information for Roofing Systems](#)

GAF

1 CAMPUS DR
PARSIPPANY, NJ 07054 USA

R1306

"RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" may be utilized as an alternate to Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" base sheets in any of the following Classifications.

1/2-in. thick (minimum) gypsum board or 1/4-in. thick (minimum) Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or 1/4-in. thick (minimum) United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) may be used in any existing noncombustible deck Classification. When this is done, the resulting roofing system is acceptable for use over combustible (15/32-in. thick minimum) roof decks. However, the butt joints in the gypsum board and Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" are to offset a minimum of 6-in. with the butt joints in the roof deck. If polystyrene is part of the roof system, it must be placed below the overlayment board. 1/4-in. thick (minimum) "SECUROCK® Roof Board" (Type FRX-G) and "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) are limited to a maximum 3:12 slope when used over a combustible deck in a system with any UL Classified insulation except polystyrene.

Multiple plies of Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" may be adhered to Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" in hot roofing asphalt.

"GAFLAS® FlexPly™ 6 5L" and "GAFLAS® FlexPly™ 6" may be used interchangeably in any roof covering system listed below.

"EnergyGuard™ Ultra" is an acceptable alternate to "EnergyGuard™" in any applicable Classification.

"GAFLAS® StrataVent® Nailable Venting Base Sheet" may be mechanically fastened or fully adhered with hot roofing asphalt over noncombustible decks and as a recover over existing roof systems.

"EnergyGuard™ Perlite Insulation" may be utilized as a cover board over "EnergyGuard™" in any of the following systems.

Unless otherwise indicated, the roof insulation is mechanically fastened, fully adhered with hot roofing asphalt or UL Classified urethane insulation adhesive. Polystyrene referenced in any of the following Classifications include insulation.

Unless otherwise indicated, all insulations may be adhered with any UL Classified Insulation Adhesive per the manufacturer's installation instructions (excluding "LRF Adhesive O") in any applicable Non-Combustible Roof Deck Classifications.

"EnergyGuard™ Tapered" is an acceptable alternate to "EnergyGuard™" in any applicable Classification.

"EnergyGuard™ Ultra Tapered" is an acceptable alternate to "EnergyGuard™ Ultra" in any applicable Classification.

"EnergyGuard™ NH Tapered" is an acceptable alternate to "EnergyGuard™ NH" in any applicable Classification.

"EnergyGuard™ NH Ultra Tapered" is an acceptable alternate to "EnergyGuard™ NH Ultra" in any applicable Classification.

"EnergyGuard™ Barrier Tapered" is an acceptable alternate to "EnergyGuard™ Barrier".

"EnergyGuard™ NH Barrier Tapered" is an acceptable alternate to "EnergyGuard™ NH Barrier".

Minimum 1-in. thick "EnergyGuard™ Barrier" is an acceptable alternate to "EnergyGuard™ Ultra" in any applicable Classification.

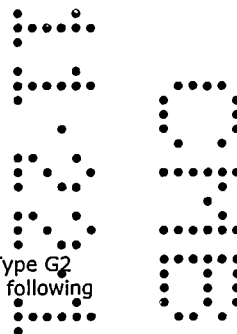
Minimum 1-in. thick "EnergyGuard™ NH Barrier" is an acceptable alternate to "EnergyGuard™ NH Ultra" in any applicable Classification.

ASPHALT FELT SYSTEMS WITH HOT ROOFING ASPHALT

Type G2 asphalt glass mat base sheet ("GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet") is a suitable alternate for Type G1 asphalt glass fiber ply sheet ("GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6") in the Class A, B or C roof systems indicated below.

The roof deck may first be covered with one ply Type G2 asphalt saturated glass mat base sheet "GAFLAS® StrataVent® Nailable Venting Base Sheet" or "GAFLAS® StrataVent® Perforated Venting Base Sheet". Perforated base sheets to be loose laid or fully adhered with hot roofing asphalt and nailable base sheets are to be mechanically fastened granule side down.

As an option Type G2 asphalt glass mat base sheet ("GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® StrataVent® Nailable Venting Base Sheet") may be substituted for Type G1 asphalt glass fiber ply sheet



("GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6") as the nailed base ply in the following systems.

Bottom ply or base sheet may be fully adhered with hot roofing asphalt or mechanically fastened.

Unless otherwise indicated, all insulations may be fully adhered with hot roofing asphalt or mechanically fastened.

"GAFLAS® Flashing" or "RUBEROID®" may be used for flashing in any of the Class A, B or C systems listed below.

When "perlite" is referenced, this includes any UL Classified perlite insulation.

Crushed stones or slag are suitable alternates for gravel in any of the Class A, B or C systems listed.

Structural cement fiber building units are considered suitable to be included as a deck in the following Class A, B or C systems listed over C-15/32 or NC.

The use of gypsum board under any of the following Class A, B or C systems does not adversely affect the rating. The use of 1/2-in. minimum thick gypsum board is an acceptable alternate for minimum insulation over C-15/32 thick roof decks.

The use of polystyrene insulation board between minimum 3/4-in. thick perlite board and deck with rosin paper (perlite/rosin paper/polystyrene/perlite) is a suitable alternate for polyisocyanurate board in the following Class A, B or C systems.

Trumbull "Perma Mop" may be utilized with any of the following "Asphalt Felt Systems with Hot Roofing Asphalt".

"GAFLAS® #80 Ultima™ Base Sheet" may be used in any of the following systems.

"GAFTMP Perlite Recover Board" may be used in lieu of any perlite insulation in any of the following NC Classifications.

Unless otherwise indicated, any of the "Asphalt Felt Systems with Hot Roofing Asphalt" may be surfaced with "United Coatings™ FireShield MB Roof Coating" applied at a rate of 2-1/2 to 3-gal/100-ft².

Class A, B and C

Hot roofing asphalt, for use with glass felts or modified bitumen membranes.

"RUBEROID® Heat Weld" SBS roofing membranes may be used in lieu of "RUBEROID® Mop" SBS roofing membranes in any applicable Classification.

Class A

1. Deck: C-15/32

Incline: 3

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).

Vapor Barrier: — one or more plies "GAF® SA Vapor Retarder" self-adhered

Insulation: — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Ply Sheet: — Three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Surfacing: — Gravel.

2. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).

Insulation: — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Ply Sheet: — Three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

3. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, 2-in. maximum.

Ply Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

4. Deck: C-15/32

Incline: 1

Slip Sheet (Optional): — Red rosin paper, nailed to deck.

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.
Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.
Coating (Optional): — "United Coatings™ TOPCOAT® EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate MB Plus Coating" applied at a rate of 2-gal./100-ft.².

5. Deck: NC**Incline: 3**

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.
Ply Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.
Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

6. Deck: C-15/32**Incline: 2**

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).
Insulation: — One or more layers perlite or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or phenolic, 1-in. minimum (offset a minimum of 6-in. from plywood deck joints).
Base Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.
Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.
Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

7. Deck: C-15/32**Incline: 2**

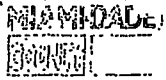
Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).
Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.
Base Sheet: — Two or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.
Ply Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.
Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.
Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

8. Deck: NC**Incline: 2**

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).
Insulation (Optional): — Perlite or glass fiber or polyisocyanurate or wood fiber or mechanically fastened, any thickness.
Base Sheet: — One or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.
Ply Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.
Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.
Coating: — "United Coatings™ FireShield MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

9. Deck: C-15/32**Incline: 1**

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX).
Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.



Miami-Dade County HVHZ Electronic Roof Permit Form
Section D Tile Roof System

"Delivering Excellence Every Day"

Roof System Manufacturer: SANTA FE TILE CORP

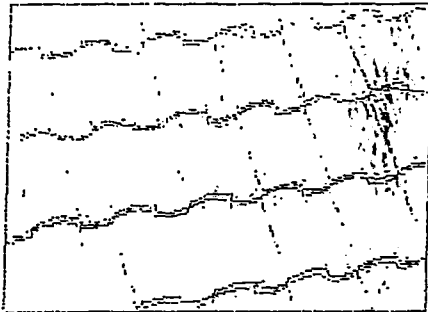
Notice of Acceptance Number (NOA): 15-0915.09

Minimum Design Wind Pressures, If Applicable (from RAS 127 or Calculations):

P 1: 39.1 P 2: 68.1 P 3: 100.7

Maximum Design Wind Pressures, (From the NOA Specific system): 61.9 psf

Fill in the specific roof assembly components. If a component is not required, insert not applicable (n/a) in the text box.



Roof Slope: 3 "/12"

Roof Mean Height: 15 ft.

Method of Tile Attachment:

--Adhesive, Medium Paddy Polyfoam Polypro--

Alternate Method of Tile Attachment per NOA:

Drip Edge Size & Gauge: --3" face 26 ga.--

Drip Edge Material Type: --Galvanized Metal--

Drip Edge Fastener Type: 1 1/4 RS NAILS

Hook Strip/Cleat gauge or weight: -- Select Hook Strip --

Deck Type: --5/8" Plywood--

Optional Insulation:

Optional Nailable Substrate:

Optional Nailable Substrate Attachment:

Basesheet Type:

#30 ASTM TYPE II

Fastener Type for Basesheet Attachment:

1 1/4 RS NAILS 6" OC AND 12" FIELD

Tile Underlayment (Cap Sheet) Type:

BORAL TILE SEAL

Tile Underlayment Attachment Method:

SELF ADHERED

Tile Profile:

SPANISH "S"



Miami-Dade County HVHZ Electronic Permit Form

"Delivering Excellence Every Day"

Section E (Tile Calculations)

Method 1 "Moment Based Tile Calculations Per RAS 127"

For Moment based tile systems, use Method 1. Compare the values for M_r with the values from M_f . If the M_f values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

$$\begin{aligned}
 P1: & 39.1 \times \lambda 297 = 11.61 - Mg: 5.82 = Mr1: 5.79 \leq 61.9 \text{ NOA } M_f \\
 P2: & 68.1 \times \lambda 297 = 20.22 - Mg: 5.82 = Mr2: 14.40 \leq 61.9 \text{ NOA } M_f \\
 P3: & 100.7 \times \lambda 297 = 29.90 - Mg: 5.82 = Mr3: 24.08 \leq 61.9 \text{ NOA } M_f
 \end{aligned}$$

Method 3 "Uplift Based Tile Calculations Per RAS 127"

For Uplift based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

$$\begin{aligned}
 P1: & \boxed{} \times l: \boxed{} = \boxed{} \times w: \boxed{} = \boxed{} - W: \boxed{} = \boxed{} \times \cos \theta: \boxed{} = Fr1: \boxed{} \leq \boxed{} \text{ NOA } F' \\
 P2: & \boxed{} \times l: \boxed{} = \boxed{} \times w: \boxed{} = \boxed{} - W: \boxed{} = \boxed{} \times \cos \theta: \boxed{} = Fr2: \boxed{} \leq \boxed{} \text{ NOA } F' \\
 P3: & \boxed{} \times l: \boxed{} = \boxed{} \times w: \boxed{} = \boxed{} - W: \boxed{} = \boxed{} \times \cos \theta: \boxed{} = Fr3: \boxed{} \leq \boxed{} \text{ NOA } F'
 \end{aligned}$$

Where to Obtain Information to complete tile calculations

Description	Symbol	Where to Find
Design Pressure	P1 or P2 or P3	Table 1 RAS 127, or by an engineer analysis prepared, signed and sealed by a professional engineer based on ASCE 7.
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval (NOA)
Restoring Moment due to Gravity	Mg	Product Approval (NOA)
Attachment Resistance	M_f	Product Approval (NOA)
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval (NOA)
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	Product Approval (NOA)
Tile Dimensions	l = length w = width	Product Approval (NOA)

REFR17 00432

MIAMI-DADE
COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Santafe Tile Corporation
8825 NW 95th Street
Medley, FL 33178

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 of the Florida Building Code.

DESCRIPTION: Santafe Spanish 'S' Clay Roof Tile

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 No. 12-0210.01 and consists of pages 1 through 5.
The submitted documentation was reviewed by Gaspar J Rodriguez.



[Handwritten signature]

NOA No.: 15-0915.09
Expiration Date: 02/01/21
Approval Date: 01/21/16
Page 1 of 5

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roofing Tiles
Material: Clay
Deck Type: Wood

1. SCOPE

This approves a roofing system using Santa Fe "Santafe 'S'" Clay Roof Tile, as manufactured by Ladrillera Santafe S.A. in Bogota, Colombia and distributed by Santafe Tile Corporation as described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code, do not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by</u> <u>Applicant</u>	<u>Dimensions</u>	<u>Test</u> <u>Specifications</u>	<u>Product</u> <u>Description</u>
Santafé 'S' Clay Roof Tile	L = 18" W = 11.1" Thickness = 0.39"	TAS 112 Type I Grade 1	One piece high profile clay roof tile equipped with two nail holes. For nail-on, mortar set and adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	TAS 112	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 MANUFACTURING LOCATION

1. Bogota, Colombia

2.2 SUBMITTED EVIDENCE

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
The Center for Applied Engineering, Inc.	94-156-8 94-156-9	TAS 101 TAS 102	Aug. 1994
The Center for Applied Engineering, Inc.	25-7205-1	TAS 101	March 1995
The Center for Applied Engineering, Inc.	Project: 07-07-00-91 (307023)	TAS 100	Sept. 1994
Redland Technologies	7161-03 Appendix II	TAS 108 (Nail-On)	Dec. 1991
Redland Technologies	7161-03 Appendix III	Static Uplift Testing TAS 102 & TAS 102(A)	Dec. 1991
Redland Technologies	P 0402	Withdrawal Resistance Testing of Screw vs smooth shank nails	Sept. 1993
Redland Technologies	P 0647-01	TAS 108 (Mortar Set)	Aug. 1994

MIAMI-DADE COUNTY
APPROVED

NOA No.: 15-0915.09
Expiration Date: 02/01/21
Approval Date: 01/21/16
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2.2 SUBMITTED EVIDENCE

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Redland Technologies	P 0631-01	PA 108 (Mortar Set)	July, 1994
Celotex Corporation Testing Services	520305-01 thru 05	PA 102	June 1999
IBA Consultants, Inc.	2353-4	Restoring Moment	Aug. 1999
PRI Asphalt Technologies, Inc.	SFTC-003-02-01	TAS 101	12/06/02
IBA Consultants, Inc.	2353-70	TAS 101	09/22/03
IBA Consultants, Inc.	2353-71	TAS 101	09/22/03
IBA Consultants, Inc.	2353-93	ASTM C 1167	07/18/05
American Test Lab of South Florida	RT0624.01-15	ASTM C1167-03	07/01/15

3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Miami-Dade County Product Control Section for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 May be installed on slopes 7:12 and greater.

4. INSTALLATION

- 4.1 Santafe 'S' and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119 and RAS 120.
- 4.2 Data For Attachment Calculations



NOA No.: 15-0915.09
Expiration Date: 02/01/21
Approval Date: 01/21/16

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Santafe 'S'	6.7	1.5	0.958

Table 2: Aerodynamic Multipliers- λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck
Santafe 'S'	0.274	0.297

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)												
Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Santafe 'S'	5.93	5.90	5.85	5.82	5.73	5.69	5.56	5.53	5.32	5.29	5.03	5.00

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Nail-On Systems			
Tile Profile	Fastener Type	Direct Deck	Battens
Santafe 'S'	2-10d Ring Shank Nails	21.8	N/A
	One #8 Screw	29.16 ^{1,2}	N/A
	Two #8 Screws	38.28 ¹	N/A
	One #8 Screw w/ Clip	57.31 ^{1,2}	N/A
	Two #8 Screws w/ Clip	57.60 ¹	61.77 ¹
1. Approved screws as noted 'Product manufactured by others'. 2. When using one screw it must be installed in the inside hole located nearest to the hump of the tile.			

Table 5: Attachment Resistance Expressed as a Moment M_f (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Santafe 'S'	Tile Bond	38.9 ³
	Polyfoam Polypro AH 160™	28.5 ⁴
2. See manufactures component approval for installation requirements.		
3. Flexible Product, Inc. Average weight per patty 10.4 grams.		
4. Polyfoam Product, Inc. Average weight per patty 9.4 grams.		

Table 5A: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Santafe 'S'	Polyfoam Polypro AH 160™	63.8 ⁵
	Polyfoam Polypro AH 160™	61.9 ⁶
5. Patty placement of 63 grams of Polypro AH 160™.		
6. Patty placement of 24 grams of Polypro AH 160™.		

Table 6: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Santafe 'S'	Mortar Set	23.6



NOA No.: 15-0915.09
 Expiration Date: 02/01/21
 Approval Date: 01/21/16

5. LABELING

- 5.1 All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as shown below, or following statement: "Miami-Dade County Product Control Approved".

SANTA FE TM MADE IN COLOMBIA

LABEL FOR SANTA FE SPANISH "S" CLAY ROOF TILE

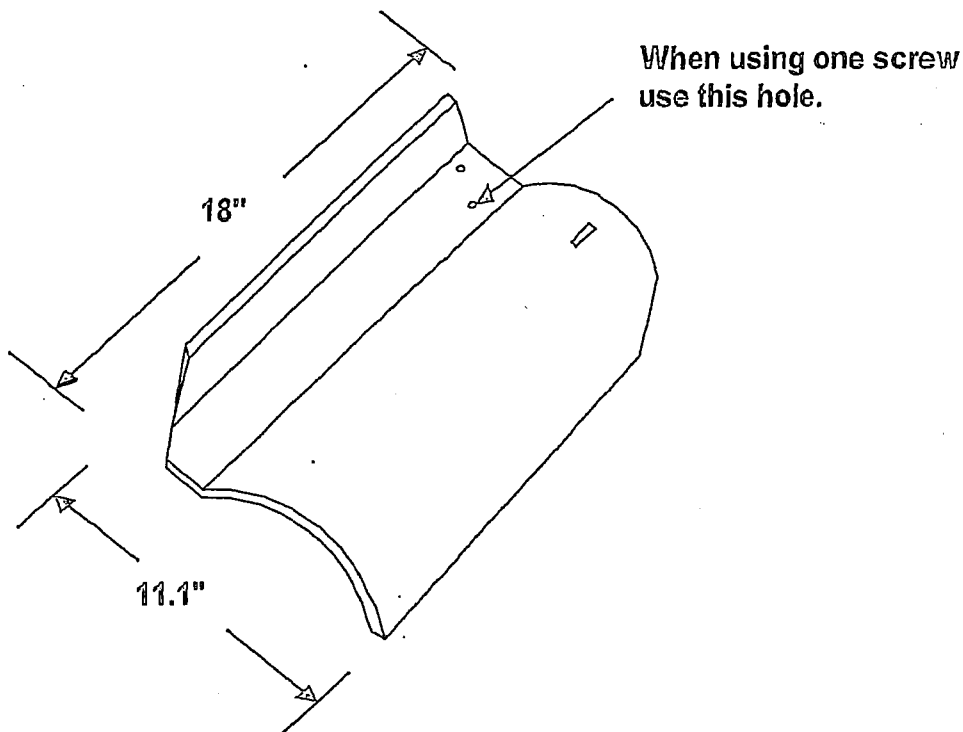
6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

PROFILE DRAWING



"SANTAFÉ S" CLAY ROOF TILE

END OF THIS ACCEPTANCE



NOA No.: 15-0915.09
Expiration Date: 02/01/21
Approval Date: 01/21/16

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17-0530.10



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Boral Roofing LLC.
7575 Irvine Center Drive, Suite 100
Irvine, CA 92618

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 of the Florida Building Code.

DESCRIPTION: BORAL TileSeal

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 renews NOA#13-1113.05 and consists of pages 1 through 4.

The submitted documentation was reviewed by Freddy Semino



NOA No.: 17-0530.10
Expiration Date: 07/31/18
Approval Date: 07/27/17
Page 1 of 4

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
BORAL TileSeal	36" x 36' rolls 36" x 72' rolls	TAS 103 ASTM D 1970	SBS self-adhering asphalt sheet material with a white glass re-enforced polyester surfacing fabric; for use as an underlayment in sloped roof assemblies.

MANUFACTURING LOCATION:

1. Brentwood, NH

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Underwriters Laboratories, Inc.	R14610	Follow up Service	03/28/02
IRT-Arcon, Inc.	02-012	TAS 103	02/28/02
PRI Asphalt Technologies, Inc.	NEI-006-02-01	TAS 103	04/01/02
PRI Asphalt Technologies, Inc.	NEI-008-02-01	TAS 114 (H)	07/30/02
PRI Construction Materials Technologies, LLC.	NEI-045-02-01	ASTM D 4798 & ASTM G 155	08/08/07
	NEI-053-02-01	ASTM D 4798 & ASTM G 155	05/01/08
	NEI-076-02-01	TAS 103 / ASTM D4798	02/14/11
	NEI-034-02-02	ASTM D 1970	01/29/13



APPROVED ASSEMBLIES:

Deck Type 1: Wood, non-insulated

Deck Description: $1\frac{5}{32}$ " or greater plywood or wood plank

System E(1): Anchor sheet mechanically fastened deck, membrane adhered.

Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" head lap and a 6" end lap mechanically fastened to deck with approved nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.

Membrane: One or more plies of BORAL TileSeal Underlayment with a minimum 3" head lap and minimum 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release membrane as the membrane is applied. Vertical strapping of the roof with BORAL TileSeal Underlayment is acceptable. All end laps and laps without black selvage area shall be sealed under lap using an SBS modified mastic.

Note: When used in Tile roof systems BORAL TileSeal Underlayment shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 6" o.c. at the side laps. No nails or tin caps shall be exposed.

Surfacing: Approved for Approved Adhesive Set Roof Tile Systems, Mechanically Fastened Roof Tile, Metal Roofing, Wood Shake & Shingles, and Asphaltic Shingle assemblies.



LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code. BORAL TileSeal underlayment shall be installed in strict compliance with applicable Building Code.
3. BORAL TileSeal underlayment shall be applied to a smooth, clean and dry surface with deck free of irregularities.
4. BORAL TileSeal underlayment shall not be applied over an existing roof membrane as a recover, but may be applied over a roofing Base/Anchor sheet underlayment.
5. BORAL TileSeal underlayment shall not be left exposed as a temporary roof for longer than 180 days of application.
6. The standard maximum roof pitch for BORAL TileSeal underlayment shall be 6:12 when tiles are loaded directly to the BORAL TileSeal underlayment; loading boards or battens are required on roof pitches greater than 6:12.
7. Refer to Prepared Roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products.
8. Tiles shall be stored on battens on roof pitches greater than 6:12".
9. BORAL TileSeal underlayment may be used with any approved roof covering Notice of Acceptance listing BORAL TileSeal underlayment as a component part of an assembly in the Notice of Acceptance. If BORAL TileSeal underlayment is not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
10. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels. Sweep the deck thoroughly to remove any dust and debris prior to application.
11. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions. For ridge applications, center the membrane and roll from the center outward in both directions.
12. Roll or broom the entire membrane surface so as to have 100% contact with the surface, giving special attention to overlap areas.
13. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
14. All protrusions or drains shall be initially taped with a 6" piece of underlayment. This target piece shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of BORAL TileSeal underlayment shall be applied over the underlayment, and sealed using an SBS modified mastic.
15. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
16. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility, and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE



NOA No.: 17-0530.10
Expiration Date: 07/31/18
Approval Date: 07/27/17

Page 4 of 4

RER 1700436

MIAMI-DADE

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

ICP Adhesives and Sealants, Inc.
12505 NW 44th Street
Coral Springs, FL. 33065

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 of the Florida Building Code.

DESCRIPTION: ICP Adhesives Polyset® AH-160

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 16-0315.01 and consists of pages 1 through 11.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 17-0322.03
Expiration Date: 05/10/22
Approval Date: 04/27/17
Page 1 of 11

ROOFING COMPONENT APPROVAL:

Category: Roofing
Sub Category: Roof tile adhesive
Materials: Polyurethane

SCOPE:

This approves ICP Adhesives Polyset® AH-160 as manufactured by ICP Adhesives and Sealants, Inc. as described in this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, do not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127. For use with approved flat, low, and high profile roof tile systems using ICP Adhesives Polyset® AH-160.

PRODUCTS MANUFACTURED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
ICP Adhesives Polyset® AH-160	N/A	TAS 101	Two component polyurethane foam adhesive
ICP Adhesives Foam Dispenser RTF1000	N/A		Dispensing Equipment
ICP Adhesives ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list attachment resistance values with the use of ICP Adhesives Polyset® AH-160 roof tile adhesive.

MANUFACTURING LOCATION:

1. Tomball, TX.

PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Results</u>
Density	ASTM D 1622	1.6 lbs./ft. ³
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft ²
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.



NOA No.: 17-0322.03
Expiration Date: 05/10/22
Approval Date: 04/27/17
Page 2 of 11

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
	P36700.04.12	ASTM D 1623	04/18/12
	P39740.02.12	TAS 101	02/21/12
		TAS 123	
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. ICP Adhesives Polyset® AH-160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of ICP Adhesives Polyset® AH-160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



INSTALLATION:

1. ICP Adhesives Polyset® AH-160 may be used with any roof tile assembly having a current NOA that lists attachment resistance values with the use of ICP Adhesives Polyset® AH-160.
2. ICP Adhesives Polyset® AH-160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of ICP Adhesives Polyset® AH-160 shall provide sufficient attachment resistance to meet or exceed the resistance value determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA.
3. ICP Adhesives Polyset® AH-160 and its components shall be installed in accordance with Roofing Application Standard RAS 120, and ICP Adhesives and Sealants, Inc.'s Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by ICP Adhesives and Sealants, Inc. ICP Adhesives and Sealants, Inc. shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the ICP Adhesives Foam Dispenser RTF1000 dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B).
6. ICP Adhesives Polyset® AH-160 shall be applied with ICP Adhesives Foam Dispenser RTF1000 or ICP Adhesives ProPack® 30 & 100 dispensing equipment only.
7. ICP Adhesives Polyset® AH-160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 1 to 2 minutes after ICP Adhesives Polyset® AH-160 has been dispensed.
9. ICP Adhesives Polyset® AH-160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.



Table 1: Adhesive Placement For Each Generic Tile Profile			
Tile Profile	Placement Detail	Minimum Paddy Contact Area	Minimum Paddy Contact Weight
Eave Course - Flat, Low, High Profiles	All Eave Course	17-23 sq. inches	45-65
Flat, Low, High Profiles	#1	17-23 sq. inches	45-65
Flat Profile	#2	10-12 sq. inches	30
Low Profile	#2	12-14 sq. inches	30
High Profile	#2	17-19 sq. inches	30
Flat, Low, High Profiles	#3	Two Paddys: 8-9 sq. inches at head of tile 9-11 sq. inches at overlap	12 grams per paddy
Two-Piece Barrel (Cap Tile)	Two Piece	2 Beads (1 each longitudinal edge) 20-25 sq. inches each bead	17 grams per bead
Two Piece Barrel (Pan Tile)	Two Piece	65-70 sq. inches	34 grams under pan

LABELING:

All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

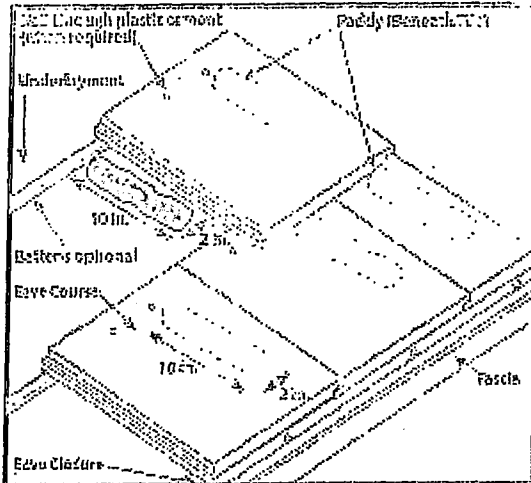


BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

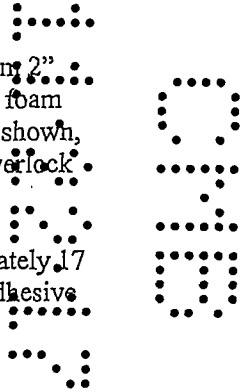


ADHESIVE PLACEMENT DETAIL # 1



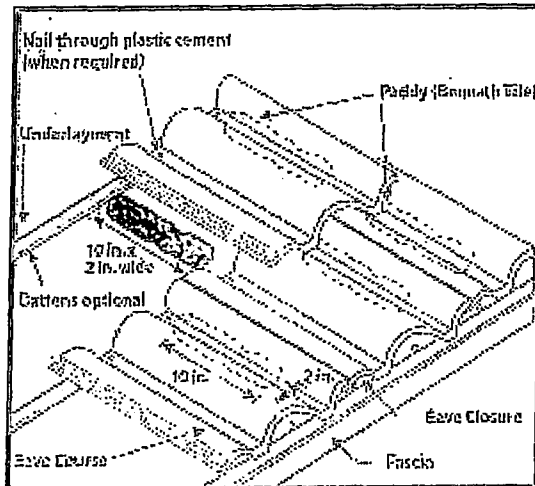
Flat/Low Profile Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown, under the strengthening rib closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.



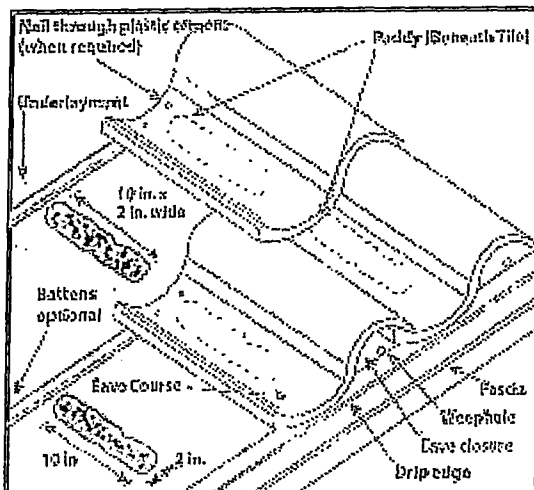
Medium Profile / Double Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.

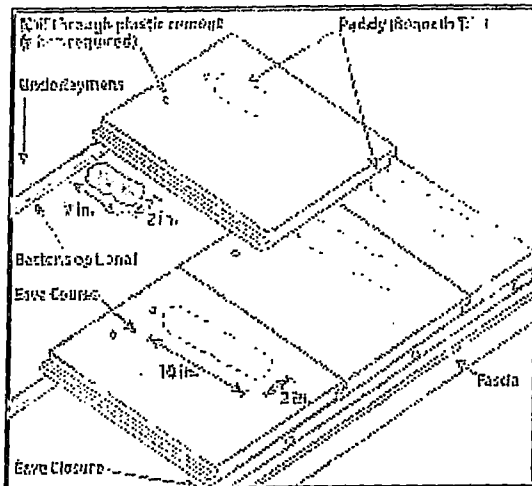


High Profile / Single Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.

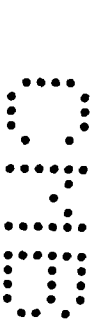


ADHESIVE PLACEMENT DETAIL # 2



Flat/Low Profile Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the strengthening rib of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the strengthening rib closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 10" (64.5 cm²) - 12 (77.4 cm²) square inch adhesive contact with the underside of the tile.



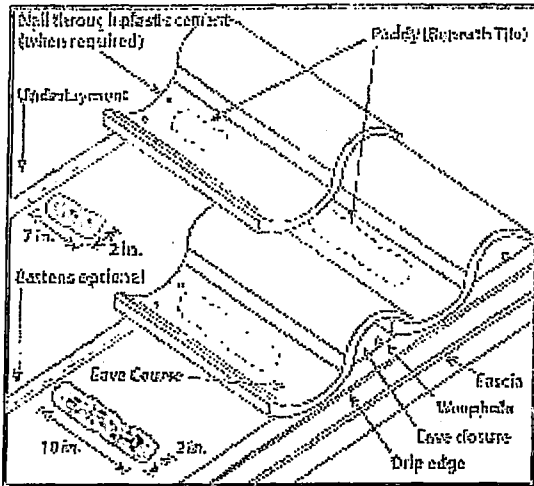
Medium Profile / Double Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 12" (77.4 cm²) - 14 (90.3 cm²) square inch adhesive contact with the underside of the tile.

(Instructions continued on next page)



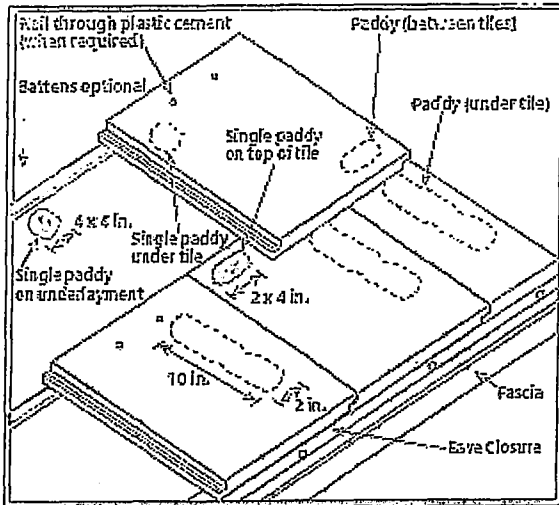
ADHESIVE PLACEMENT DETAIL # 2 (CONTINUED)



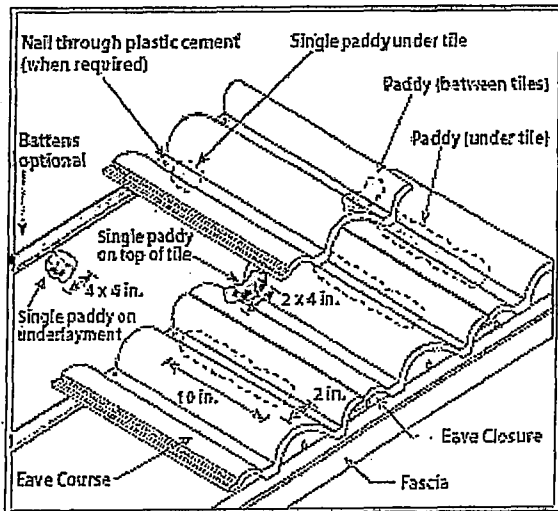
High Profile / Single Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 17" (109.7 cm²) - 19 (122.6 cm²) square inch adhesive contact with the underside of the tile.

ADHESIVE PLACEMENT DETAIL #3



Flat/Low Profile Tile

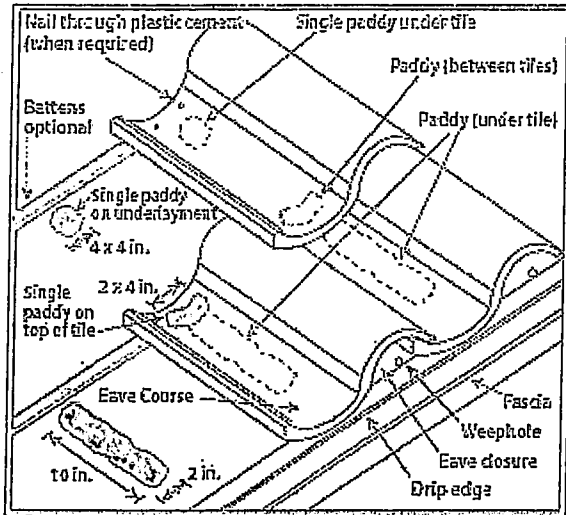


Medium Profile Tile

1. On the eave course only, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown, under the strengthening rib for flat tile or under the pan portion of the tile for low or high profile tile closest to the overlock of the tile being set. Leave approximately 4" (101.6 mm) up from the eave edge free of foam to prevent the expanded adhesive from blocking the weep holes. Insure approximately 17-23 in² (109.7-148.4 cm²) of adhesive contact with the underside of the tile.
2. Apply a 4" (101.6 mm) x 4" (101.6 mm) x 1" (25.4 mm) foam paddy onto the underlayment just below the second course line positioned foam paddy under the strengthening rib for flat tile, or under the pan portion of the tile, closest to the underlock for the second course tile to be installed. Insure approximately 8-9 in² (51.6-58.1 cm²) of adhesive contact with the underside of the tile.

(Instructions continued on next page)

ADHESIVE PLACEMENT DETAIL # 3 (CONTINUED)



High-Profile Tile

- Also apply a 2" (50.8 mm) x 4" (101.6 mm) x 3/4" (19 mm) paddy on top of the eave course tile surface as shown, on top of the strengthening rib for flat tile or on top of the pan portion of the tile, closest to the underlock of the first course of tile. Install second course of tile. Insure approximately 9 (58.1 cm²) - 11 (71 cm²) square inch adhesive contact with the underside of the tile at the overlap and 7 (45.2 cm²) - 9 (58.1 cm²) square inch adhesive contact with the underside of the tile at the head of the tile. Continue in same manner.

ACB2 ENGINEERING INC
Testing and Engineering Services
Certificate of Authorization - C.A. # 8131
16821 SW 1 Street, Pembroke Pines, FL 33027
Antonio Acevedo, P.E/ 786-286-7574

Engineering Calculations

FLORIDA BUILDING CODE 2014

CALCULATIONS FOR ANCHOR OR BASE SHEET ATTACHMENT
BASED ON ROOFING APPLICATION STANDARD (RAS) No. 117
(New Construction/Reroof Applications)

PROJECT NAME: T&S Roofing

This calculations is for a Flat Section of a property located at:
5800 Pine Tree Drive, Miami Beach

Given by : T&S Roofing

Flat Roof Section Area is : Squares
Building with a roof mean height less than 12 feet
Base Sheet Lap 4 Inches **SLOPE (Equal or Lower)**
Wind Uplift Pressures from Permit Application: 1/2" in 12"
Field Area -52.5 psf
Perimeter Area -52.5 psf
Corner Area -52.5 psf

Wind Uplift Pressures from RAS No. 128 (See FBC) EXPOSURE D:
Field Area -51.4 psf **Wind Speed 175 mph**
Perimeter Area -86.2 psf
Corner Area -129.7 psf

FASTENERS BY NOA - NOA # 14-1030.01 Page 27 OF 31
Fasteners as per NOA spacing of
6" o.c. at the 4" lap staggered and 6" o.c. in 2 rows in the center of sheet(field).
Maximum Design Pressure by NOA: -52.5 psf

Antonio Acevedo P.E.
Fla. Reg. No: 36466
Page 1 of 3

11/01/2017

0.444444 **Square Feet per Fastener**

ACB2 ENGINEERING INC
Testing and Engineering Services

DETERMINE THE FASTENER VALUE

Given:

Calculated Square Feet per Fastener = 0.44 ft²/Fastener
Maximum Design Pressure From NOA 52.5 psf

GENERAL EQUATION

Fy = Fastener Value

Fy = (max design pressure) x (square feet per fasteners)

Fy = 23.1 lbf

**DETERMINE ANCHOR/BASE SHEET SPACING
TO MEET PRESSURE**

GENERAL EQUATION

FS = (Fy x 144) / (P x RS)

FS = fastener spacing (inches)

Fy = fastener value (lbf)

P = max design pressure (psf)

RS = row spacing (inches)

Note:

Row spacing (RS) is the Net Width of Sheet divided by number of rows

The Net Width is the width of base sheet less the side lap distance

Total Number of rows from NOA = 3 Fastener Rows

From Previous Calculations:

The net width is 32 inches

Therefore Row Spacing = 10.66667 inches

Wind Uplift Pressures from RAS 128: Exposure D

Field Area 51.4 psf Wind Speed 175 mph

Perimeter Area 86.2 psf

Corner Area 129.7 psf

CONCLUSIONS/RECOMMENDATIONS

A. FASTENER SPACING FOR PERIMETER AREA

FS = 3.617749 inches

USE MAXIMUM 4 INCHES SPACING (Fractions are rounded down per 2014 FBC)

Minimum 4 Feet Wide Perimeter Width - Use 4" o.c. with 3 rows in Center of Sheet and 1 row in Lap

B. FASTENER SPACING FOR CORNER AREA

FS = 2.404395 inches

USE MAXIMUM 4 INCHES SPACING (Fractions are rounded down per 2014 FBC)

Minimum 4 Feet by 4 Feet Area for Corner - Use 4" o.c. with 4 rows in Center of Sheet and 1 row in Lap

C. FASTENER SPACING FOR FIELD AREA

FS = 6.067121

USE MAXIMUM 6" LAP AND 6" FIELD SPACING (Based on Product Approval)

Use 6" o.c. with 2 rows in center of sheet and 1 row Side Lap

RFRI700436

5800 Pinetree Dr

0
8
0

4
3
6

H.V.A.C. GENERAL NOTES:

ALL WORK SHALL CONFORM WITH THE FLORIDA BUILDING 2014, NFPA, NEC, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.

CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS, PERFORMANCE BONDS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS, AND SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN PERMIT.

CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. ALSO VERIFY EXISTING CONDITIONS BEFORE START THE JOB.

SUBMIT SHOP DRAWING OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION.

MECHANICAL PLANS ARE DIAGRAMATIC, AND MAY CHANGE DUE TO FIELD CONDITIONS.

VENTILATION DUCTWORK MATERIAL ARE SPECIFY ON MECHANICAL PLANS, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. STANDARDS. DUCT SIZES SHOWN ARE "INSIDE" DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE BEFORE FABRICATION.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.

SUBMIT SHOP DRAWING OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION.

GENERAL/MECHANICAL CONTRACTOR SHALL BE VERIFY ALL INSULATION VALUE USED FOR CALCULATIONS IN ENERGY AND/OR HEAT LOAD PROVIDED BY MECHANICAL ENGINEER.

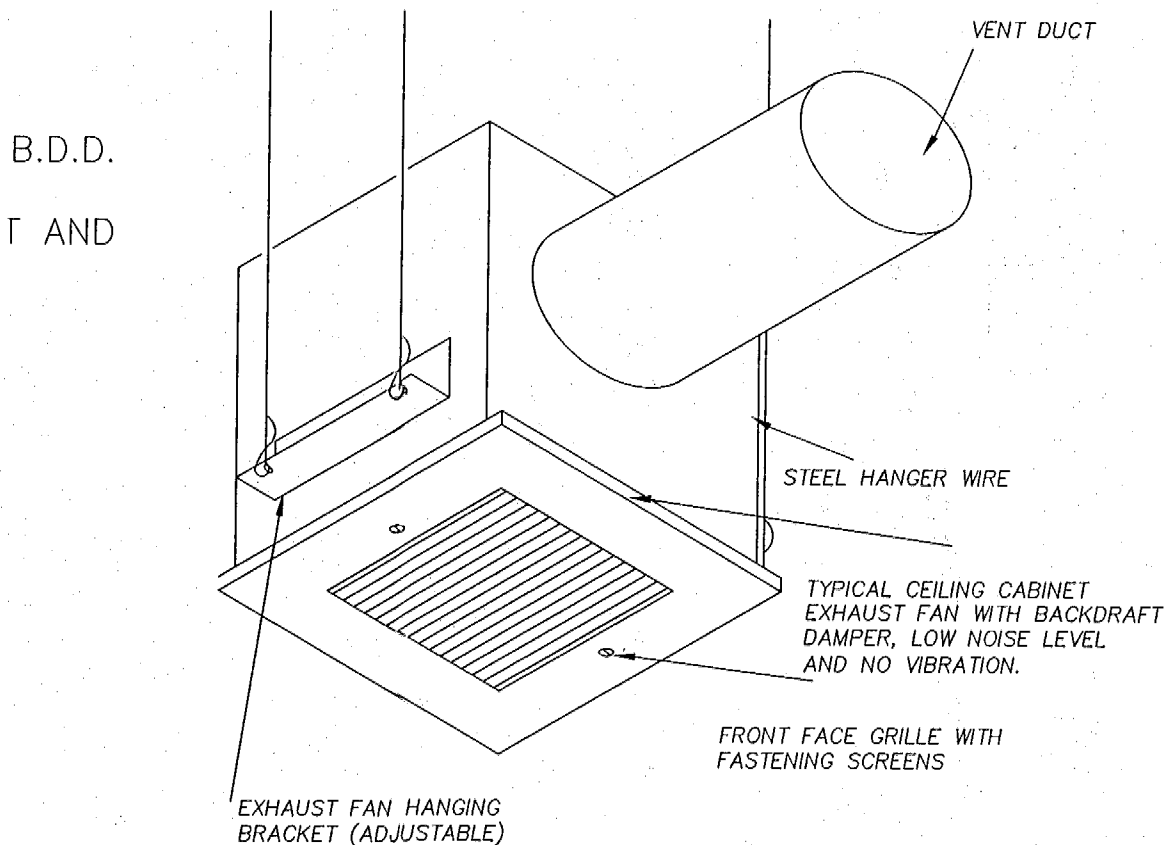
CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.

ALL DUCTWORK SHALL CONFORM TO SMACNA STANDARDS. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS. ALL VENTILATION DUCTWORK SHALL BE GALVANIZED SHEETMETAL OR THERMOFAN. ALL AIR CONDITIONING DUCTWORK SHALL BE FIBERGLASS BOARD OR FLEX MIN R-6 INSULATION, MUST CONFORM WITH ALL LOCAL CODES, UNLESS OTHERWISE NOTED. ALL ELBOW SHALL BE PROVIDED WITH TURNING VENTS.

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AIR BALANCE ACCORDING WITH PLAN.

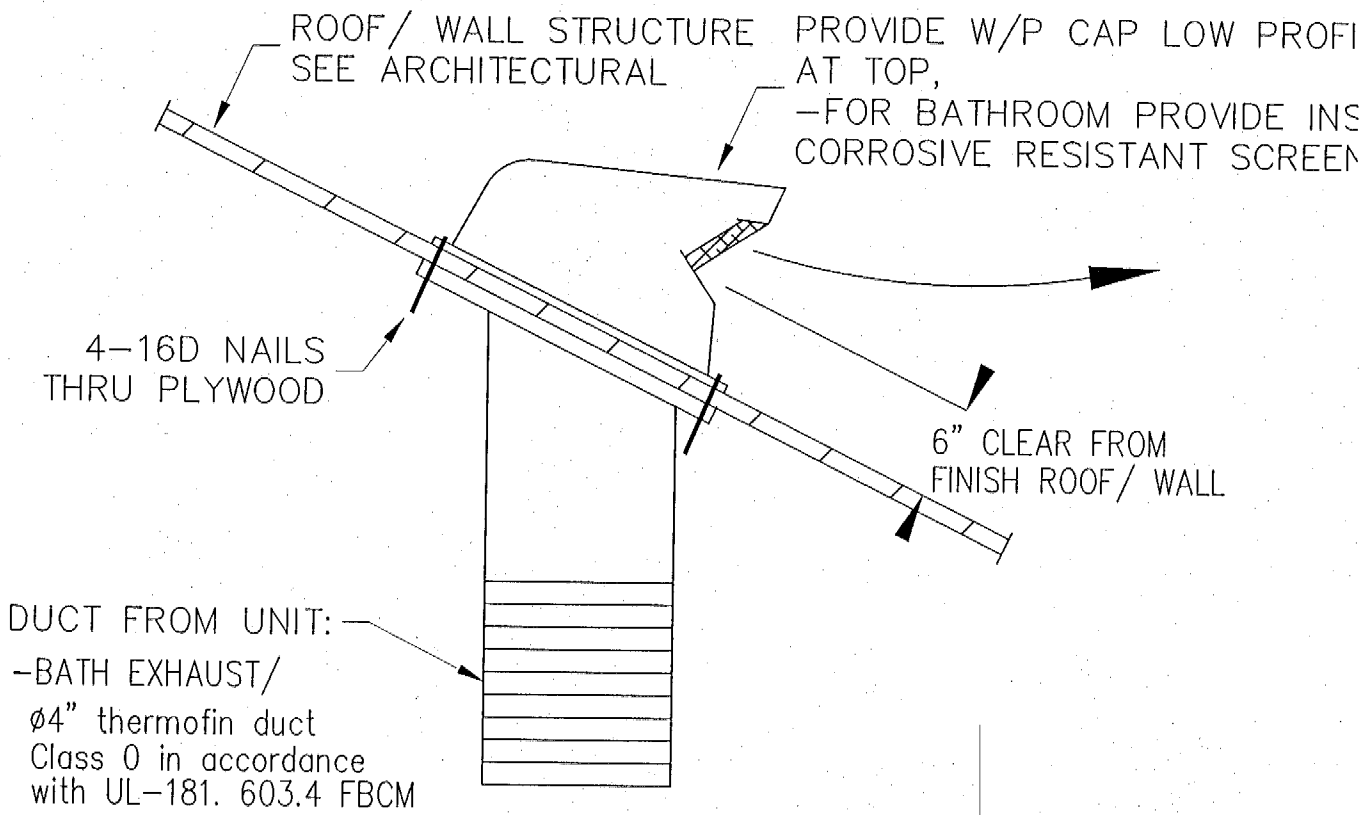
ALL DUCTWORK RUNNING IN CONDITIONED SPACE COULD BE R-4 AND DUCTWORK RUNNING IN UNCONDITIONED SPACE SHALL BE R-6 MIN INSULATION.

PROVIDE 1" UNDERCUT AT ALL INTERIOR DOORS.



CEILING MOUNTED CABINET EXHAUST FAN DETAIL

EF#1&2
EXH FAN#1&2 PANASONIC, MODEL FV-03VQ5, 50 CFM & B.D.D. Ø4" THERMOFAN
WIRE CONNECTED TO INDEPENDENT SWITCH.



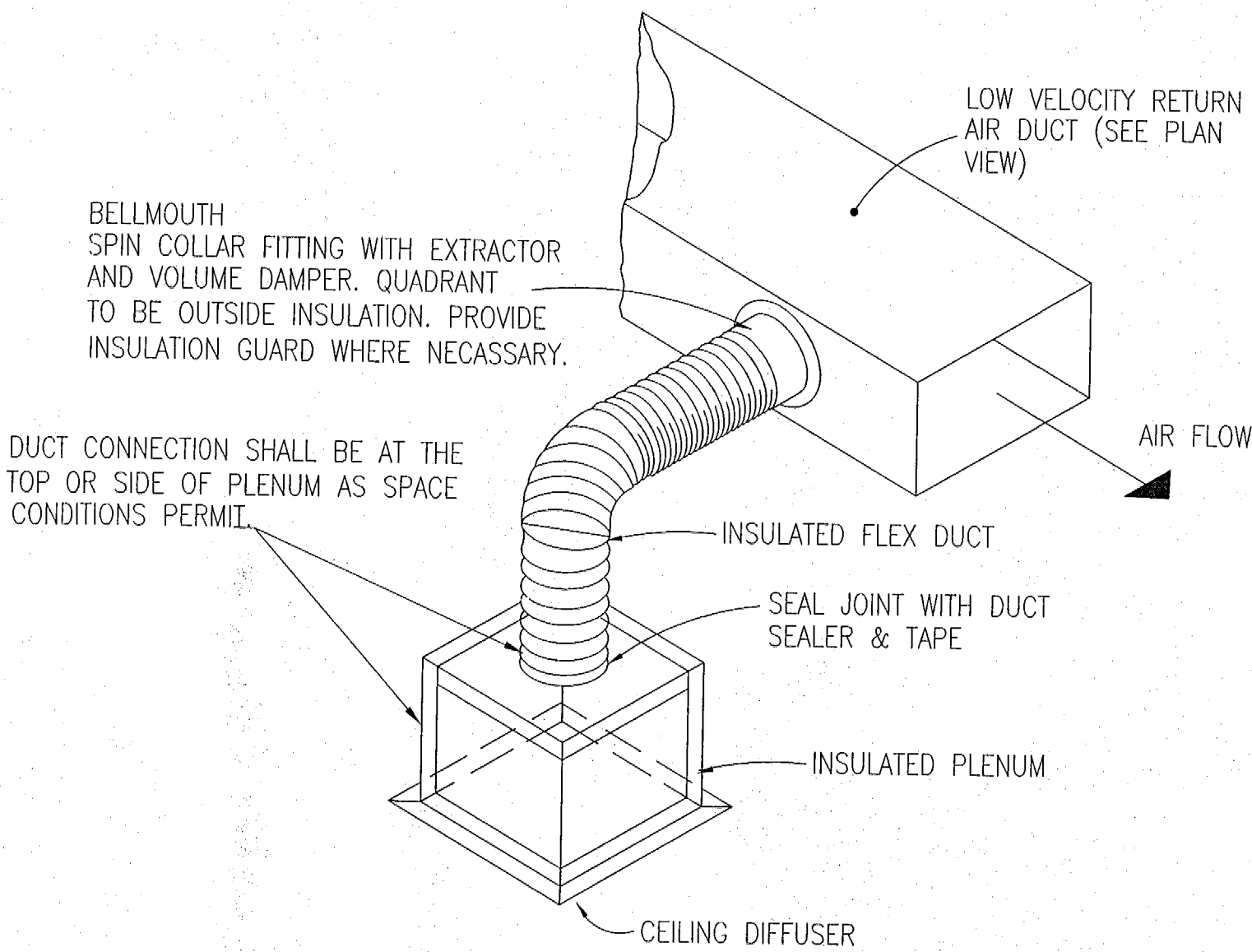
TYPICAL ROOF/ WALL CAP DETAIL @ TOILET EXH.

NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable in this property that may be found in the Public Records of the 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.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

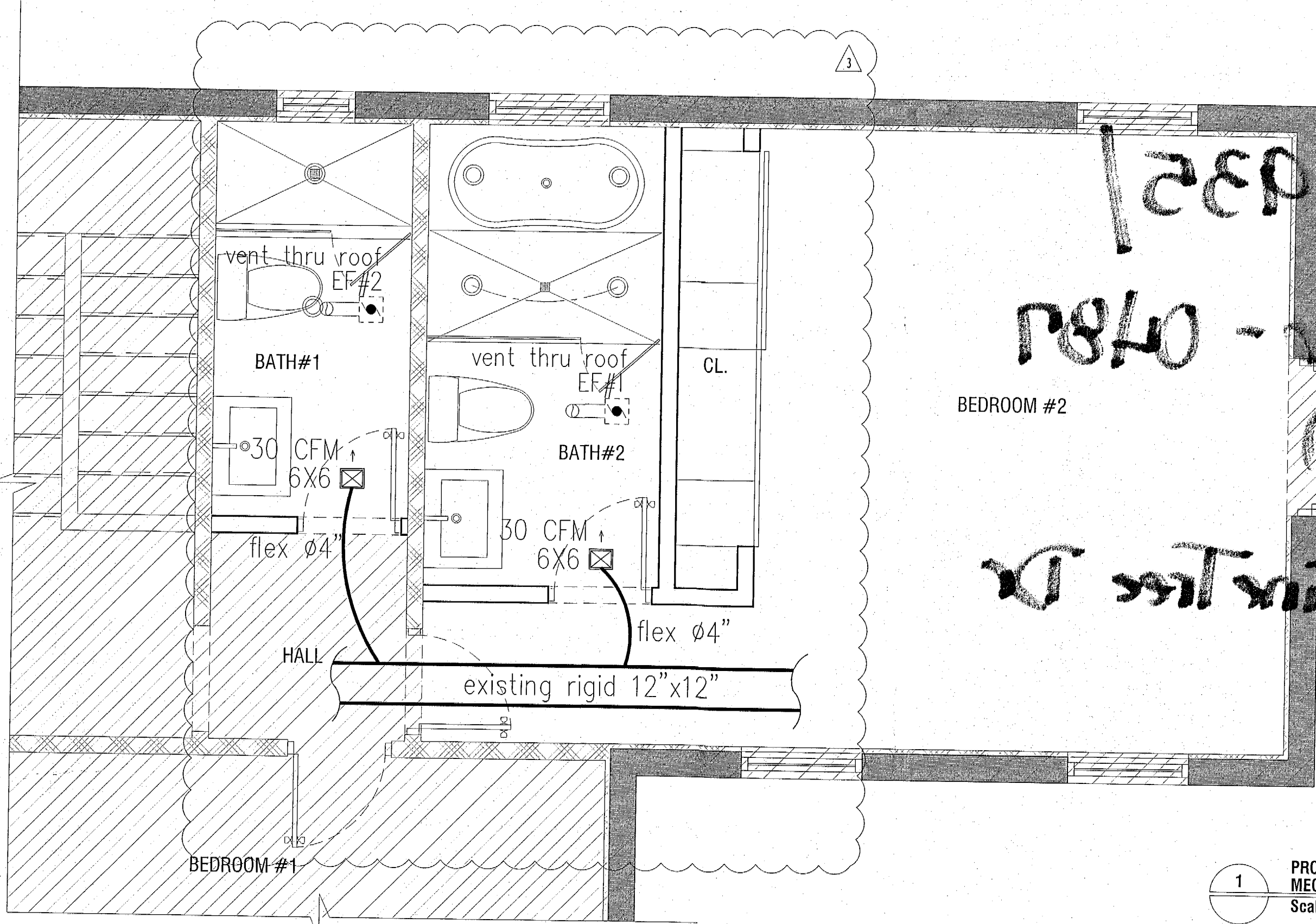
BUILDING:	
ZONING:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	
ELEVATOR:	
ROOFING:	

- NOTE:
FLEXIBLE DUCT INSTALLATION AND SUPPORT:
FLEXIBLE DUCTS SHALL BE CONFIGURED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PREVENT DUCT DISLOCATION OR DAMAGE, AND PREVENT CONSTRICTION OF THE DUCT BELOW THE RATED DUCT DIAMETER IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
- DUCTS SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5 PERCENT OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN.
 - BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER.
 - TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
 - HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1.5 FEET OF INTERMEDIATE FITTINGS AND BETWEEN IMMEDIATE FITTINGS AND BENDS. CEILING JOISTS AND RIGID DUCTS OR EQUIPMENT SHALL BE CONSIDERED TO BE SUPPORTS.
 - VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT INTERVALS NOT GREATER THAN 6 FEET.
 - HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING FLEXIBLE DUCT THAT IN DIRECT CONTACT WITH IT BE LESS THAN 1/2 INCHES WIDE.



FLEXIBLE DUCT CONNECTIONS DETAIL (TYPICAL) NTS

A/C GRILLE SPECS.	
SUPPLY GRILLE	TITUS MODEL: 250-AA W/O.B.D. or similar
RETURN GRILLE	TITUS MODEL: 350FL or similar



- MECHANICAL SCOPE OF WORK:
- IS TO INSTALL ADDITIONAL SUPPLY DUCT TO NEW BATH #2.
 - IS TO INSTALL NEW EXHAUST FAN IN NEW BATH #2.

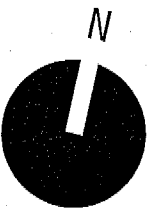
STANDARD 3" WIDE HANGERS
Hanger extension to be the sum of the distances between the hanging wires and the duct size, ID (Smacna)

Duct size, Inches	Maximum Hanger Spacing
48: Wide or grater	4 ft
Less tha 48" wide and less than 48" deep	6ft
Width between 28" & 48" and greater than 16" deep	6ft
Less than 29" wide and 16" depth or less	8ft

CHANNEL SECTION

If Total Extension is not greater than:	Minimum Channel Gauge	Minimum Channel Profile
6"	24	3" X 1.5"
18"	22	3" X 2"
30"	18	3" X 2"

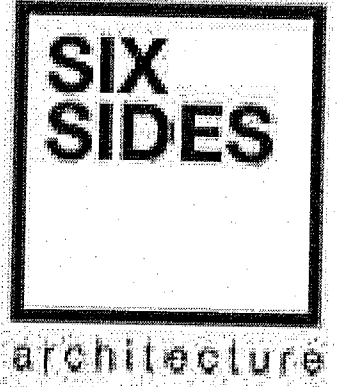
USE OF 2" WIDE 22 gauge 2'x 1.5" hangers may be substituted for 3" hangers for ducts with widths not over 48" and depths not over 24" provided that not more than one joint occurs between hangers and the maximum hanger spacing 4ft. Exception: When duct perimeter is 80" or less and does not require reinforcement two joints are permitted between hangers



PERMIT SET

RENOVATIONS FOR:
JOAQUIN HERAS RESIDENCE
5800 PINE TREE DRIVE
MIAMI BEACH, FL 33140

SIXSIDES ARCHITECTURE, INC.
AA26002922
Daniel Gomez, R.A.
FL. Reg. AR96826
1108 KANE CONCOURSE, SUITE 220
BAY HARBOR ISLANDS, FL 33154
AL 305.610.1333
dgomez@sixsidesinc.com



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ALL RIGHTS RESERVED. THESE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED IN ANY OTHER MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION. REPRODUCTION OF SPECIFICATIONS WITHOUT WRITTEN CONSENT IS PROHIBITED.
REVISED:
1 BDC COMMENTS - 07/2016
2 BDC COMMENTS - 08/2016
3 BDC COMMENTS - 12/2016

22P10GIVЯ

RV1701935/

BRO916-0487
(mst)

5800 Pine Tree Dr

RV 1806346

ACB2 Engineering Inc.
Engineering and Laboratory Services
P.O. Box 823612
Pembroke Pines, Florida 33082
Phone: (786) 286-7574 Fax: (954) 450-3219

WINDLOAD PRESSURE CALCULATIONS

(Skylight on Flat Roof)

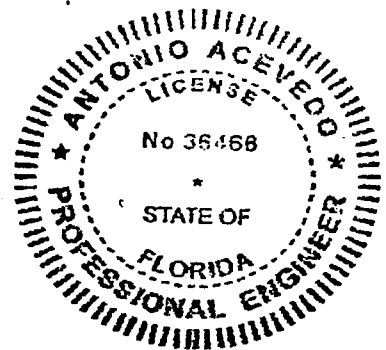
FOR

PROPERTY LOCATED AT

5800 Pines Tree Drive, Miami, Florida

NOTICE: If this permit there may be additional requirements found in the City of Miami Beach, Florida, and the State of Florida, and the results of these calculations are subject to all Federal, State, and Local Laws, Rules, and Regulations.

Presented
To
T&S Roofing Company



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: _____
ZONING: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
FLOOD: _____
PUBLIC WORKS: _____
STRUCTURAL: _____
ELEVATOR: _____
ROOFING: _____

P.E. #36466

4/21/2018

04/21/2018

Prepared By:

Antonio Acevedo, P.E.

P.E. #36466

04/23/2018

VF 6.26.18

AP 25 6/26/18

ACB2 Engineering Inc.

Engineering and Laboratory Services

P.O. Box 823612

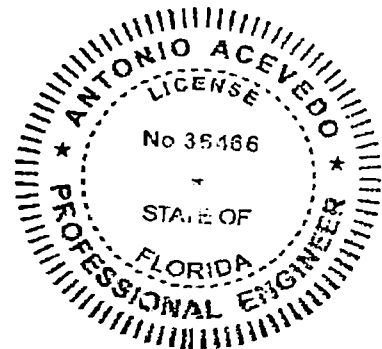
Pembroke Pines, Florida 33082

Phone: (786) 286-7574 Fax: (954) 450-3219

SUMMARY RESULTS OF WINDLOAD PRESSURE CALCULATIONS (for complete details see attached calculations):

<u>Description</u>	Max Positive Pressures	Max Negative Pressures
Corner_Zone 3	+20.88	-129.72
Perimeter Zone 2	+20.88	-86.19
Field Zone 1	+20.88	-51.38

Note: If Skylight location is less than 3.00 feet from any corner, the Max Negative pressure of -129.72 should be lower than the negative pressure shown in the NOA (Product Approval) for the Skylight. But if the Skylight is more than 3.00 feet from any roof corner, but it is less than 3.00 feet from the edge of any roof perimeter then the Max Negative Pressure of -86.19 should be lower than the negative pressure shown in the NOA (Product Approval) for the Skylight.



[Signature]
P.E. #36466
4/20/2018

MecaWind Std v2.2.7.5 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright www.mecaenterprises.com

Date : 4/21/2018 Project No. : JobNo
 Company Name : True Designed By : Engineer
 Address : Address Description : Description
 City : City Customer Name : Customer
 State : State Proj Location : Location
 File Location: C:\Program Files (x86)\MECAWind\5800 PINES TREE DRIVE-MIAMI-SKYLIGHT-FLAT ROOF-T&S
 ROOFING.wnd

Input Parameters: Directional Procedure All Heights Building (Ch 27 Part 1)

Basic Wind Speed(V)	=	175.00 mph	Exposure Category	=	D
Structural Category	=	II	Flexible Structure	=	No
Natural Frequency	=	N/A	Kd Directional Factor	=	0.85
Importance Factor	=	1.00	Zg	=	700.00 ft
Alpha	=	11.50	Bt	=	1.07
At	=	0.09	Bm	=	0.80
Am	=	0.11	l	=	650.00 ft
Cc	=	0.15	Zmin	=	7.00 ft
Epsilon	=	0.13	Slope of Roof(Theta)	=	.00 Deg
Pitch of Roof	=	0 : 12	Type of Roof	=	FLAT
h: Mean Roof Ht	=	20.00 ft	Eht: Eave Height	=	20.00 ft
RHt: Ridge Ht	=	20.00 ft	Overhead Type	=	No Overhang
OH: Roof Overhang at Eave	=	.00 ft	Bldg Width Across Ridge	=	16.00 ft
Bldg Length Along Ridge	=	23.00 ft			

Gust Factor Calculations

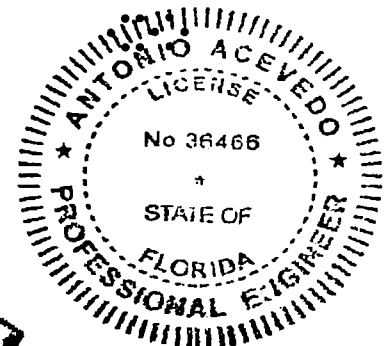
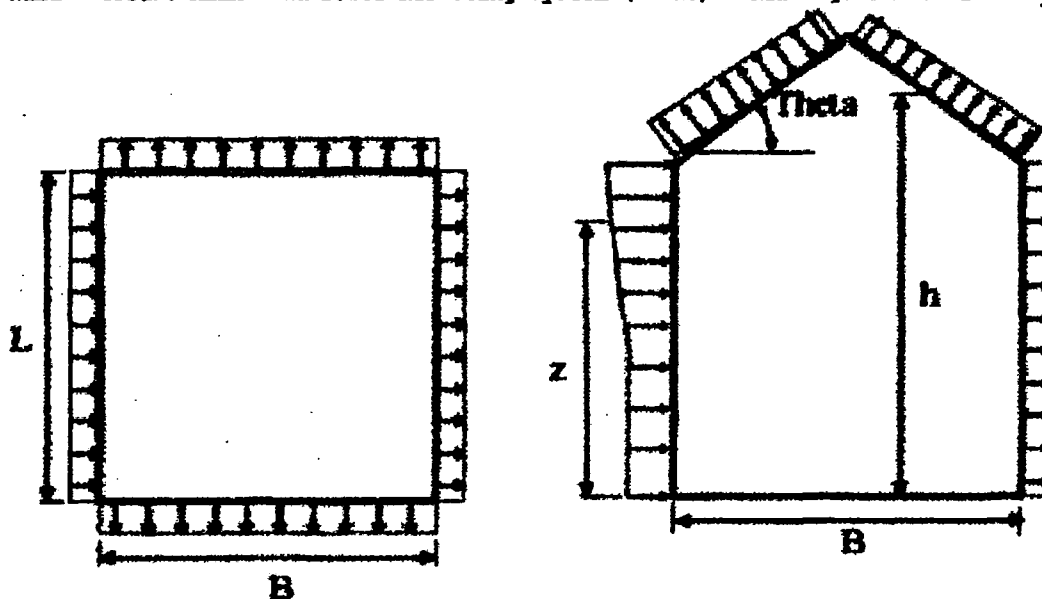
Gust Factor Category I Rigid Structures - Simplified Method
 Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis
 Zm: $0.6 \cdot H_t$ = 12.00 ft
 Lzm: $C_c \cdot (33/Z_m)^{0.167}$ = 0.18
 Lzm: $1 \cdot (Z_m/33)^{Epsilon}$ = 572.79 ft
 Q: $(1/(1+0.63 \cdot ((B+H_t)/L_zm)^{0.63}))^{0.5}$ = 0.95
 Gust2: $0.925 \cdot ((1+1.7 \cdot L_zm \cdot 3.4 \cdot Q)/(1+1.7 \cdot 3.4 \cdot L_zm))$ = 0.90

Gust Factor Summary
 Not a Flexible Structure use the Lesser of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi
 GCpi : Internal Pressure Coefficient = +/-0.18

Wind Pressure Main Wind Force Resisting System (MWFRS) - Ref Figure 27.4-1



Signature
 PE #36466
 4/21/2018

Kh: $2.01 \cdot (Ht/Zg)^{(2/\alpha)}$ = 1.08
 Kht: Topographic Factor (Figure 6-4) = 1.00
 Qh: $.00256 \cdot (V)^2 \cdot I \cdot K_h \cdot K_{ht} \cdot K_d$ = 43.31 psf
 Cpww: Windward Wall Cp (Ref Fig 6-6) = 0.80
 Roof Area = 368.00 ft²
 Reduction Factor based on Roof Area = 0.88

MWFRS-Wall Pressures for Wind Normal to 23 ft Wall (Normal to Ridge)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Leeward Wall	-0.50	-26.20	-10.61
Side Walls	-0.70	-33.56	-17.97

Wall	Elev ft	Kz	Kzt	Cp	qx psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	20.00	1.08	1.00	0.80	43.31	21.65	37.24	47.85
Windward	10.00	1.03	1.00	0.80	41.19	20.22	35.81	46.42

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 10.0 ft	-1.15	-50.11	-34.52
Roof: 10.0 ft to 16.0 ft	-0.70	-33.56	-17.97

Notes - Normal to Ridge

- Note (1) Per Fig 27.4-1 Note 7, Since Theta <= 10 Deg base calcs on Eave Ht
 Note (2) Wall & Roof Pressures = $Q_h \cdot (G \cdot C_p - GC_{pi})$
 Note (3) +GCpi = Positive Internal Bldg Press, -GCpi = Negative Internal Bldg Press
 Note (4) Total Pressure = Leeward Press + Windward Press (For + or - GCpi)
 Note (5) Ref Fig 27.4-1, Normal to Ridge (Theta < 10), Theta = .0 Deg, h/l = 1.25

MWFRS-Wall Pressures for Wind Normal to 16 ft wall (Along Ridge)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Leeward Wall	-0.41	-22.98	-7.39
Side Walls	-0.70	-33.56	-17.97

Wall	Elev ft	Kz	Kzt	Cp	qx psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	20.00	1.08	1.00	0.80	43.31	21.65	37.24	44.63
Windward	10.00	1.03	1.00	0.80	41.19	20.22	35.81	43.20

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 10.0 ft	-1.08	-47.71	-32.12
Roof: 10.0 ft to 20.0 ft	-0.75	-35.48	-19.89
Roof: 20.0 ft to 23.0 ft	-0.65	-31.64	-16.05

Notes - Along Ridge

- Note (1) Ref Fig 27.4-1, Parallel to Ridge (All), h/l = 0.87

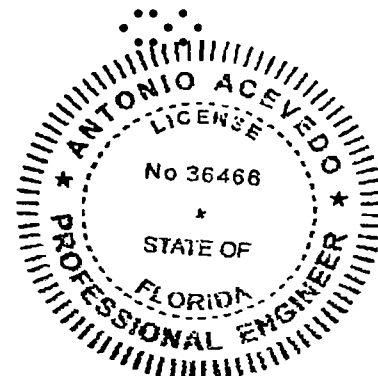
Parapet MWFRS Pressures (Ref Para 27.4.5):

Qp: Pressure at Top of Parapet = 44.37 psf
 Type of Parapet = Solid Top Elev. of Parapet = 3.00 ft
 Press-Windward Parapet = 66.56 psf Press-Leeward Parapet = -44.37 psf

Wind Pressure on Components and Cladding (Ch 30 Part 2)

All pressures shown are based upon ASD Design, with a Load Factor of .6

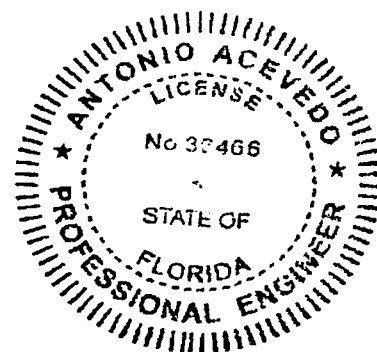
Description	Width ft	Span ft	Area ft ²	Zone	Max P psf	Min P psf
Field	8.00	1.00	10.0	1	20.88	-51.38
Perimeter	8.00	1.00	10.0	2	20.88	-86.19
Corner	8.00	1.00	10.0	3	20.88	-129.72



PE #36466
 4/21/2018

Note (1) If Zone = "2H" or "3H" then MaxP will be zero per Figure 6-3.
 Note (2) Max P & Min P = pnet30(from Fig.30.5-1) * Lambda * Importance Factor * Kzt.
 Note (3) If Area<10 then Area=10 or Area>100 then Area=100 for Zones 1, 2, 3, 2H & 3H.
 Note (4) If Area<10 then Area=10 or Area>500 then Area=500 for Zones 4 & 5.

3030



[Signature]
 P.E. #36466
 4/21/2018

5800 Pine Tree Dr, Miami, FL
T&S Roofing Systems Inc

Length Diagram

Ridge Length = 111 ft (Red Lines)

Valley Length = 27 ft (Blue Lines)



This diagram contains values derived from roof pitches that were not determined or verified by Edge Tech. Technicians. Make it your own. All other lengths under 5 feet have been rounded for simplicity.

RV1806346

5800 Pine Tree Dr.

(RFR 1700436)

0808

RV1806346

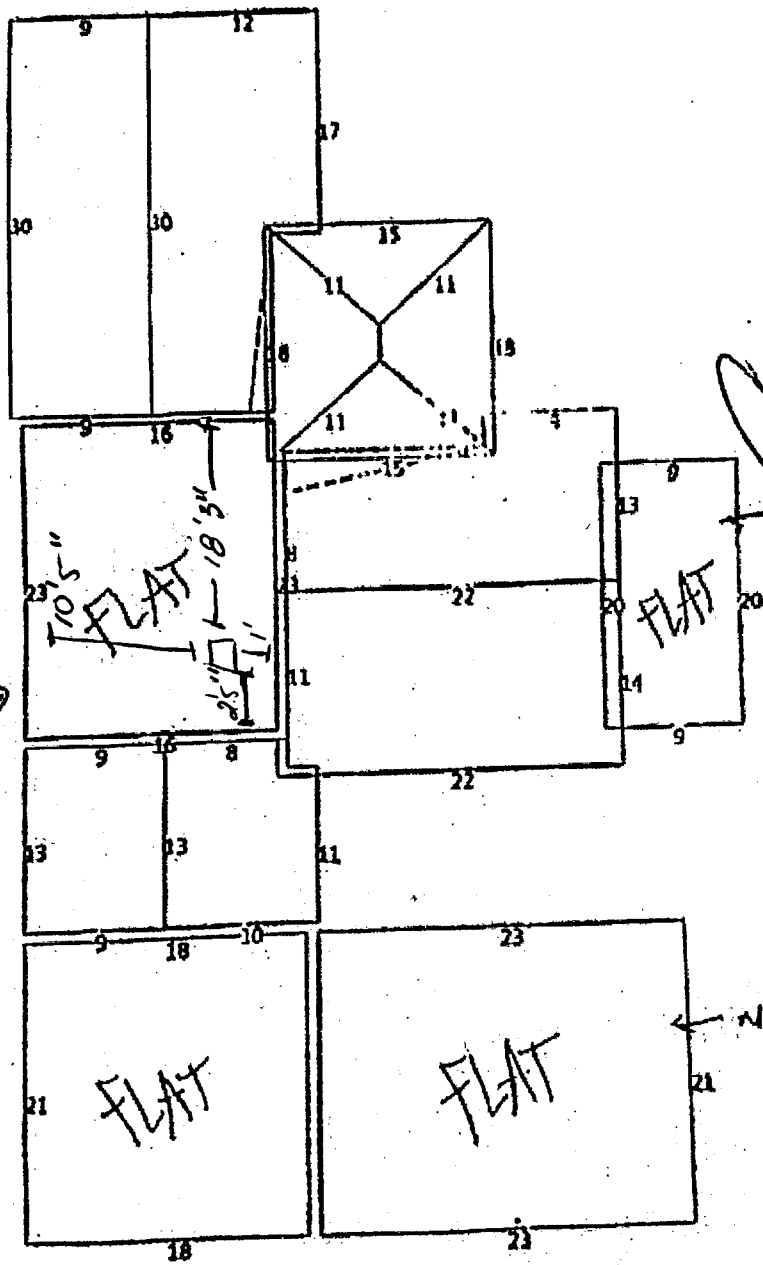
5800 Pine Tree Dr, Miami, FL

T&S Roofing Systems Inc

Length Diagram

Ridge Length = 111 ft (Red Lines)

Valley Length = 27 ft (Blue Lines)



This diagram contains values derived from roof pitches that were not determined or verified by EagleView Technologies. Note: In some cases, segment lengths under 5 feet have been removed for readability.

201806346



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD
201 Longhorn Road
Fort Worth, TX 76179

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Framed Polycarbonate Domed Skylight.

APPROVAL DOCUMENT: Drawing No. DADÉ617.1, model "6SF-DADE", sheet 1 of 1, prepared by Birdview Skylights dated 08/22/17, signed and sealed by Vipin N. Tolat, P.E., on 10/06/17, and Drawing # BVS-X10947-A, sheet 1 of 1, signed & sealed by Vipin N. Tolat, P.E., on 03/28/15, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large & Small Missile Impact Resistant

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", unless otherwise noted herein and the dome shall be properly marked by GE Plastics.

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 & renews NOA #15-0413.06 and it consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
02/08/2018

NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018
Page 1

2P82081/14

02081/14

Birdview Skylights
d.b.a. Guv E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0303.11

A. DRAWINGS

1. *Drawing No. EB696, sheets 1 & 1, model "6SFD-DADE", prepared by Birdview Skylights, dated 07/26/00, with no revisions, signed and sealed by V. N. Tolat, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test per PA 201, Cyclic Load Test per PA 203 and Uniform Static air Pressure Test per PA 202, on "Series 6SFD-DADE Self Flashing Aluminum/Polycarbonate Skylight", prepared by Miami Testing Laboratory, report No. K-49362 issued on 09/10/96, signed and sealed by D. G. Ober, P.E.*

C. CALCULATIONS

1. *Anchor Calculation, sheets 2 through 5, dated 08/21/96 and signed by D. A. Terwilleger, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Notice of Acceptance No. 00-0718.02 issued to General Electric Company on 09/08/2000, expiring on 07/02/2003.*
2. *Extrusion drawings No. BVS-X10947-A & BVS 8554 by Tel Tower Extrusions, LTD for Birdview Skylights.*

E. STATEMENTS

1. *No change letter issued by Birdview Skylights, on 08/10/2000 and signed by E. Bird.*
2. *No change letter issued by Birdview Skylights on 02/11/03 and signed by G. E. Bird.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0611.09

A. DRAWINGS

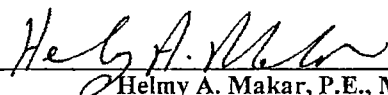
1. *Drawing No. DADE608.1, model "6SF-DADE ", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, signed and sealed by Vipin N. Tolat, P.E., on July 08, 2008.*

B. TESTS

1. *Test report on Large Missile Impact Test per TAS 201, Cyclic Load Test per TAS 203 and Uniform Static air Pressure Test per TAS 202, on "Series 6SF-DADE Self Flashing Aluminum/Polycarbonate Skylight", prepared by American Test Lab of South Florida, report No. 0331.01-08, dated 05/23/2008, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E.*

C. CALCULATIONS

1. *Anchor Calculation, sheets 1 through 3 of 3, dated 06/09/2008, signed and sealed by Vipin N. Tolat, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0811.08

A. DRAWINGS

1. *Drawing No. DADE608.1, model "6SF-DADE ", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, revised on February 22, 2012, signed and sealed by Vipin N. Tolat, P.E., on February 22, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 13-0311.10

A. DRAWINGS

1. *Drawing No. DADE608.1, model "6SF-DADE", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, revised on February 22, 2012, signed and sealed by Vipin N. Tolat, P.E., on February 22, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS


1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0413.06

A. DRAWINGS

1. *Drawing No. 6DADE14, model "6SF-DADE", sheets 1 & 2 of 2, prepared by Birdview Skylights dated March 19, 2015, signed and sealed by Vipin N. Tolat, P.E., on March 28, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. DADE617.1, model "6SF-DADE", sheet 1 of 1, prepared by Birdview Skylights dated 08/22/17, signed and sealed by Vipin N. Tolat, P.E., on 10/06/17, and Drawing # BVS-X10947-A, sheet 1 of 1, signed & sealed by Vipin N. Tolat, P.E., on 03/28/15.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

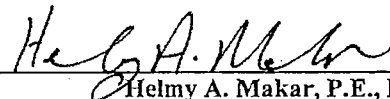
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

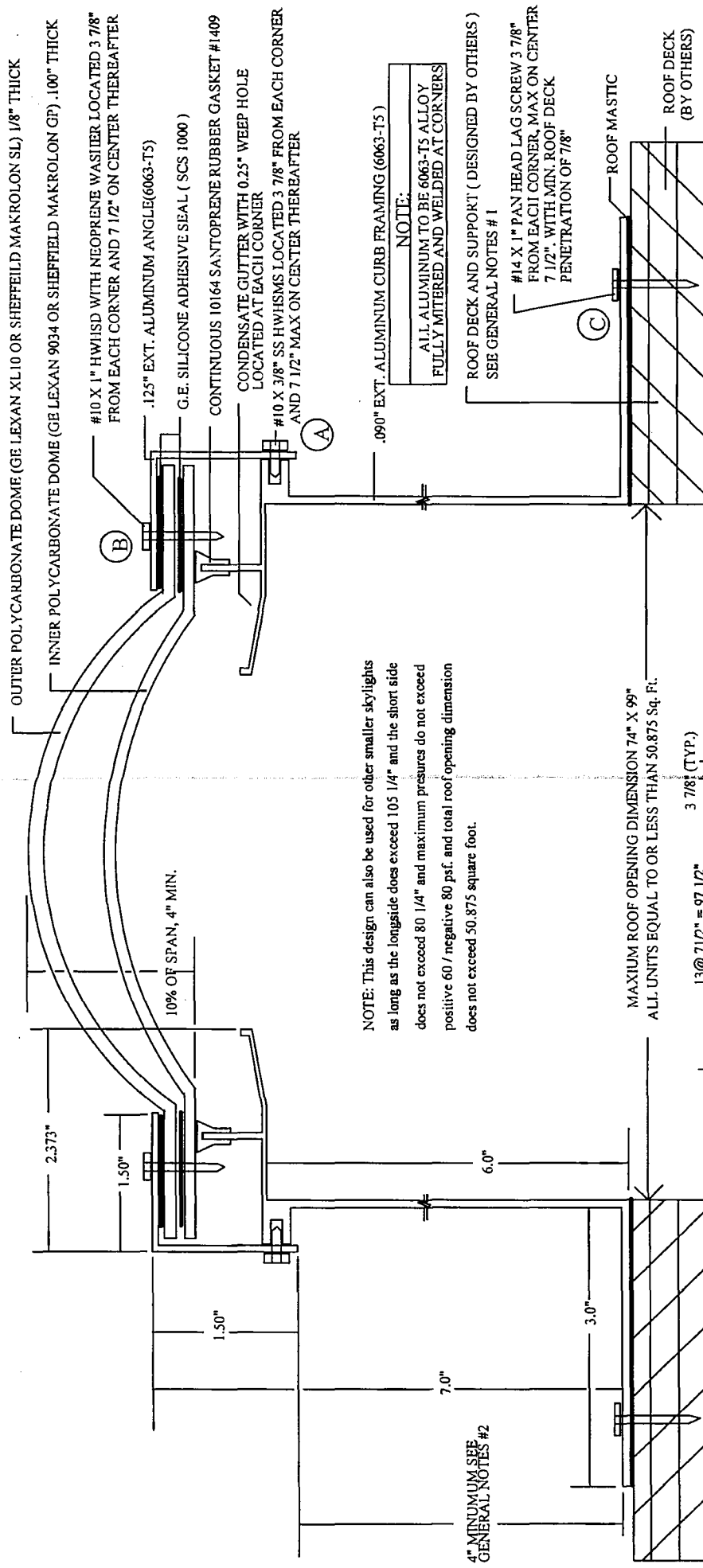
1. *None.*

F. STATEMENTS

1. *FBC, 2017 Edition compliance letter prepared by Vipin N. Tolat, P.E., dated 10/06/17, signed and sealed by Vipin N. Tolat, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018



NOTE: This design can also be used for other smaller skylights as long as the long side does not exceed 105 1/4" and the short side does not exceed 80 1/4" and maximum pressures do not exceed positive 60 / negative 80 psf. and total roof opening dimension does not exceed 50.875 square foot.

DESIGN PRESSURE RATING
POSITIVE + 60psf NEGATIVE -80psf
LARGE MISSILE IMPACT RESISTANT

BIRDVIEW SKYLIGHTS
 THE CLEAR CHOICE
 201 LONGHORN RD. FT. WORTH TX. 76179
 TEL: 817-439-9266 FAX: 817-232-8468
 DATE: 8-22-2017 MODEL: 6SF - DADE
 DRAWING # DADE617.1 DRAWN BY: J.F. BIRD
 SCALE: NTS

- GENERAL NOTES
- THIS DESIGN COMPLIES WITH IBC 6th EDITION (2017)
 - 4" MINIMUM DISTANCE FROM ANGLE LIP TO ROOF SURFACE FOR SHINGLE OR BUR WITHOUT INSULATION FOR INSULATION AND ROOF TILES, ADD THE TILE HEIGHT AND THE INSULATION THICKNESS TO THE 4" MINIMUM HEIGHT.

TOTAL 50 SCREWS AT LOCATIONS
 A, B & C FOR THIS SKYLIGHT.
 FOR OTHER SMALLER SIZES
 PROVIDE FASTENERS @ 7 1/2" ON CENTER EACH SIDE

PRODUCT REVISED
 in compliance with the Florida
 Building Code
 Acceptance No. 17-1031-02
 Expiration Date 07/03/2023
 By: [Signature]
 Miami Design District Council

VIPIN N. TOLAT
 FL. REG. # 12847
 15123 LANTERN CREEK LANE
 HOUSTON, TX 77068

[Signature]
 10/6/17

340

RV1806346
(RFR1700436)
5800 Pine
Tree Dr

0208
8888

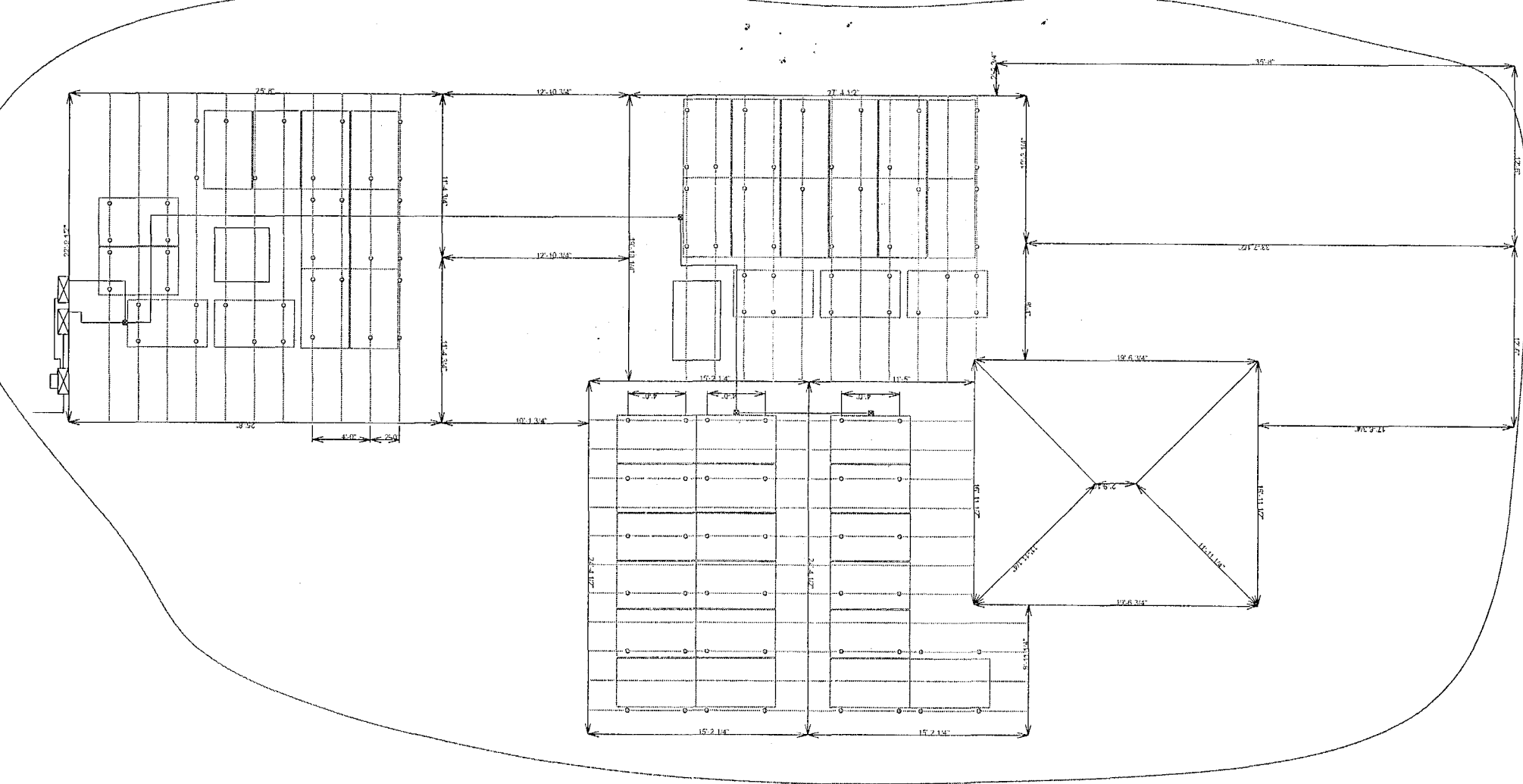
Location Map:



Aerial View:



Plan View:



RV1806721
BPHR1700007

Index:

C-1: COVER

E-1: ELECTRICAL DIAGRAM & CALCULATIONS

S-1: STRUCTURAL DIAGRAMS

S-2: STRUCTURAL CALCULATIONS

Permitting/Planning Notes:

SCOPE OF WORK:
INSTALLATION OF GRID-TIED PHOTOVOLTAIC SYSTEM

EXISTING SINGLE FAMILY RESIDENCE ALTERATION LEVEL 2

NOTICE: This document is the property of the City of Miami Beach. It is to be used for the purpose for which it was issued and is not to be reproduced or distributed without the written consent of the City of Miami Beach. The City of Miami Beach is not responsible for any errors or omissions in this document.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	SP 2020-0000
ZONING:	08/25/18
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	VE 02.14
ELEVATOR:	
ROOFING:	

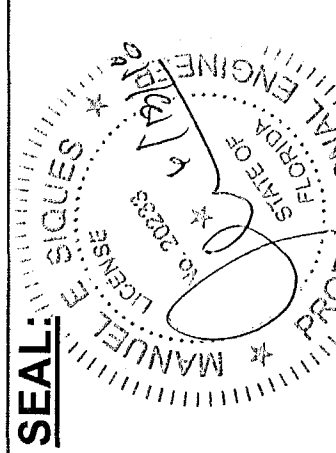
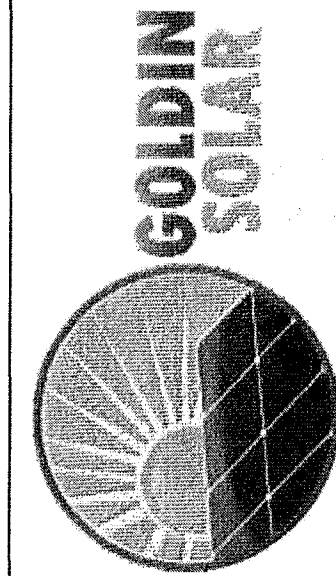
CODE SUMMARY		
STATE	BUILDING	ELECTRICAL
FLORIDA	2017 FBC, 6TH	2014 NEC

REVISIONS:

Project: Keller
5800 Pine Tree Dr.
Miami Beach, FL 33140

COVER

Goldin Solar, LLC
3447 Percival Ave.
Miami, FL 33133
License CVC 56965
www.goldinsolar.com



MANUEL E. SIQUES, P.E.
FLORIDA ENGINEER LICENSE # 20233
8331 SW 12TH TERRACE,
MIAMI, FL 33144-A, 33144
TEL (305) 586-4776
I CERTIFY THAT THIS PV SYSTEM
FULLY COMPLIES WITH THE
REQUIREMENTS OF NEC 690.

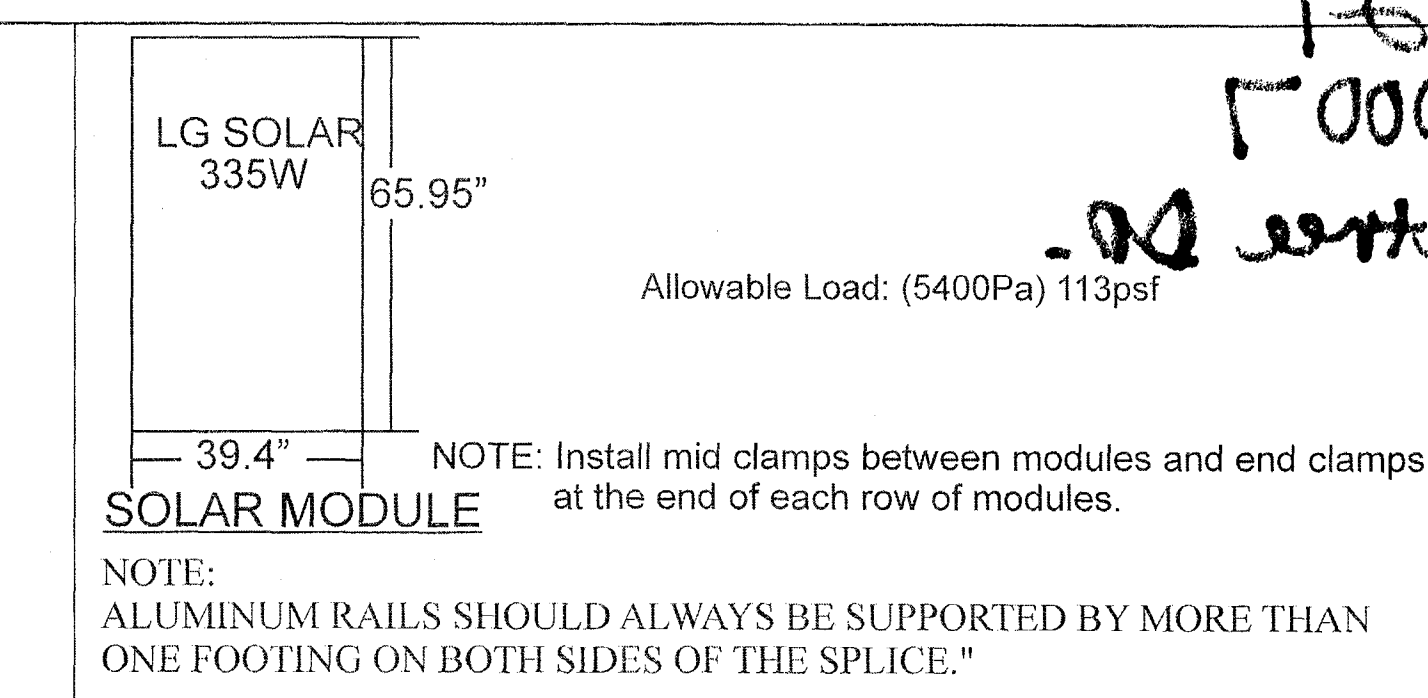
DATE: 6/12/2018

SCALE: NTS

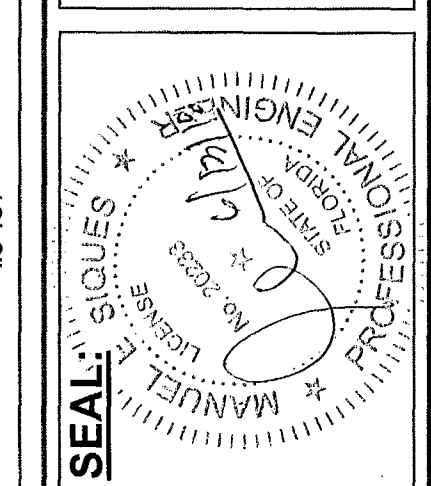
DRAWN BY: J.B

PAGE:

C-1



REVISIONS:	
Project: Keller	
5800 Pine Tree Dr, Miami Beach, FL 33140	
SYSTEM LAYOUT	



MANUEL E. SIQUES, P.E.
FLORIDA ENGINEER LICENSE # 20233
8331 SW 12TH TERRACE,
MIAMI, FL 33144-A, 33144
TEL (305) 588-4776

DATE: 6/12/2018
SCALE: NTS
DRAWN BY: J.B

PAGE:
S-1

RV1806721
BPHR1700007
5800 Pinetree Dr.

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Santafe 'S'	6.7	1.5	0.958

Table 2: Aerodynamic Multipliers- λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck
Santafe 'S'	0.274	0.297

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)												
Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Santafe 'S'	5.93	5.90	5.85	5.82	5.73	5.69	5.56	5.53	5.32	5.29	5.03	5.00

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Nail-On Systems			
Tile Profile	Fastener Type	Direct Deck	Battens
Santafe 'S'	2-10d Ring Shank Nails	21.8	N/A
	One #8 Screw	29.16 ^{1,2}	N/A
	Two #8 Screws	38.28 ¹	N/A
	One #8 Screw w/ Clip	57.31 ^{1,2}	N/A
	Two #8 Screws w/ Clip	57.60 ¹	61.77 ¹
1. Approved screws as noted 'Product manufactured by others'. 2. When using one screw it must be installed in the inside hole located nearest to the hump of the tile.			

Table 5: Attachment Resistance Expressed as a Moment M_f (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Santafe 'S'	Tile Bond	38.9 ³
	Polyfoam Polypro AH 160™	28.5 ⁴
2. See manufactures component approval for installation requirements.		
3. Flexible Product, Inc. Average weight per patty 10.4 grams.		
4. Polyfoam Product, Inc. Average weight per patty 9.4 grams.		

Table 5A: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Santafe 'S'	Polyfoam Polypro AH 160™	63.8 ⁵
	Polyfoam Polypro AH 160™	61.9 ⁶
5. Patty placement of 63 grams of Polypro AH 160™.		
6. Patty placement of 24 grams of Polypro AH 160™.		

Table 6: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Santafe 'S'	Mortar Set	23.6



NOA No.: 15-0915.09
 Expiration Date: 02/01/21
 Approval Date: 01/21/16

5. LABELING

- 5.1 All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as shown below, or following statement: "Miami-Dade County Product Control Approved".

SANTA FE TM MADE IN COLOMBIA

LABEL FOR SANTA FE SPANISH "S" CLAY ROOF TILE

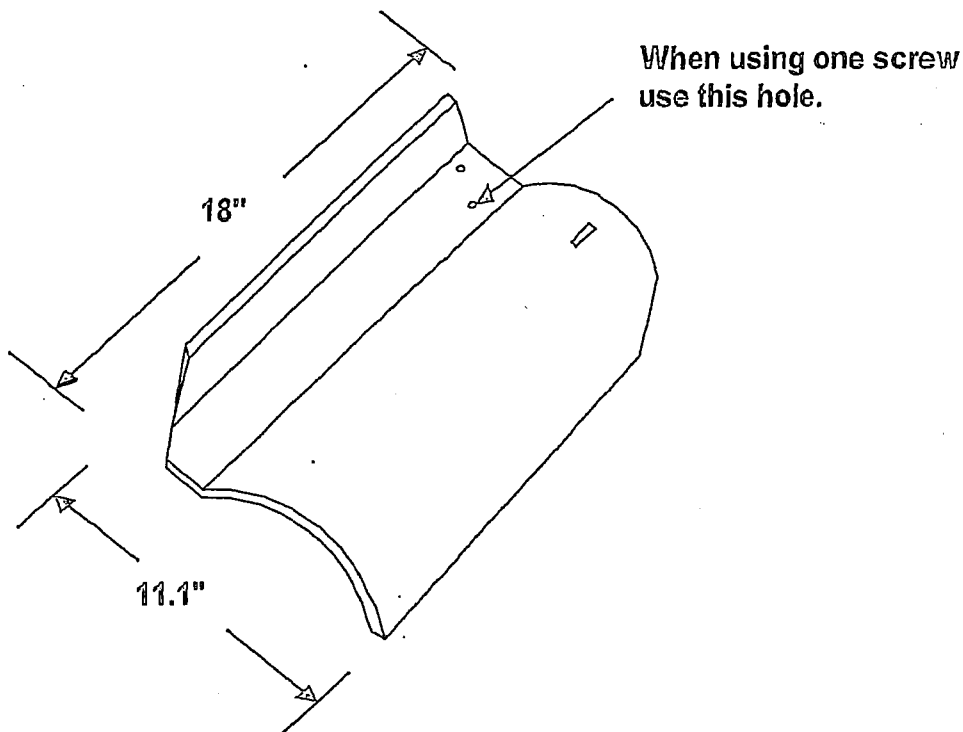
6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

PROFILE DRAWING



"SANTAFÉ S" CLAY ROOF TILE

END OF THIS ACCEPTANCE



NOA No.: 15-0915.09
Expiration Date: 02/01/21
Approval Date: 01/21/16
Page 5 of 5

17-0530.10



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Boral Roofing LLC.
7575 Irvine Center Drive, Suite 100
Irvine, CA 92618

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 of the Florida Building Code.

DESCRIPTION: BORAL TileSeal

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 renews NOA#13-1113.05 and consists of pages 1 through 4.

The submitted documentation was reviewed by Freddy Semino



NOA No.: 17-0530.10
Expiration Date: 07/31/18
Approval Date: 07/27/17
Page 1 of 4

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
BORAL TileSeal	36" x 36' rolls 36" x 72' rolls	TAS 103 ASTM D 1970	SBS self-adhering asphalt sheet material with a white glass re-enforced polyester surfacing fabric; for use as an underlayment in sloped roof assemblies.

MANUFACTURING LOCATION:

1. Brentwood, NH

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Underwriters Laboratories, Inc.	R14610	Follow up Service	03/28/02
IRT-Arcon, Inc.	02-012	TAS 103	02/28/02
PRI Asphalt Technologies, Inc.	NEI-006-02-01	TAS 103	04/01/02
PRI Asphalt Technologies, Inc.	NEI-008-02-01	TAS 114 (H)	07/30/02
PRI Construction Materials Technologies, LLC.	NEI-045-02-01	ASTM D 4798 & ASTM G 155	08/08/07
	NEI-053-02-01	ASTM D 4798 & ASTM G 155	05/01/08
	NEI-076-02-01	TAS 103 / ASTM D4798	02/14/11
	NEI-034-02-02	ASTM D 1970	01/29/13



APPROVED ASSEMBLIES:

Deck Type 1: Wood, non-insulated

Deck Description: $1\frac{5}{32}$ " or greater plywood or wood plank

System E(1): Anchor sheet mechanically fastened deck, membrane adhered.

Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" head lap and a 6" end lap mechanically fastened to deck with approved nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.

Membrane: One or more plies of BORAL TileSeal Underlayment with a minimum 3" head lap and minimum 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release membrane as the membrane is applied. Vertical strapping of the roof with BORAL TileSeal Underlayment is acceptable. All end laps and laps without black selvage area shall be sealed under lap using an SBS modified mastic.

Note: When used in Tile roof systems BORAL TileSeal Underlayment shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 6" o.c. at the side laps. No nails or tin caps shall be exposed.

Surfacing: Approved for Approved Adhesive Set Roof Tile Systems, Mechanically Fastened Roof Tile, Metal Roofing, Wood Shake & Shingles, and Asphaltic Shingle assemblies.



LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code. BORAL TileSeal underlayment shall be installed in strict compliance with applicable Building Code.
3. BORAL TileSeal underlayment shall be applied to a smooth, clean and dry surface with deck free of irregularities.
4. BORAL TileSeal underlayment shall not be applied over an existing roof membrane as a recover, but may be applied over a roofing Base/Anchor sheet underlayment.
5. BORAL TileSeal underlayment shall not be left exposed as a temporary roof for longer than 180 days of application.
6. The standard maximum roof pitch for BORAL TileSeal underlayment shall be 6:12 when tiles are loaded directly to the BORAL TileSeal underlayment; loading boards or battens are required on roof pitches greater than 6:12.
7. Refer to Prepared Roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products.
8. Tiles shall be stored on battens on roof pitches greater than 6:12".
9. BORAL TileSeal underlayment may be used with any approved roof covering Notice of Acceptance listing BORAL TileSeal underlayment as a component part of an assembly in the Notice of Acceptance. If BORAL TileSeal underlayment is not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
10. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels. Sweep the deck thoroughly to remove any dust and debris prior to application.
11. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions. For ridge applications, center the membrane and roll from the center outward in both directions.
12. Roll or broom the entire membrane surface so as to have 100% contact with the surface, giving special attention to overlap areas.
13. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
14. All protrusions or drains shall be initially taped with a 6" piece of underlayment. This target piece shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of BORAL TileSeal underlayment shall be applied over the underlayment, and sealed using an SBS modified mastic.
15. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
16. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility, and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE



NOA No.: 17-0530.10
Expiration Date: 07/31/18
Approval Date: 07/27/17

Page 4 of 4

RER 1700436

MIAMI-DADE

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

ICP Adhesives and Sealants, Inc.
12505 NW 44th Street
Coral Springs, FL. 33065

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 of the Florida Building Code.

DESCRIPTION: ICP Adhesives Polyset® AH-160

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 16-0315.01 and consists of pages 1 through 11.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 17-0322.03
Expiration Date: 05/10/22
Approval Date: 04/27/17
Page 1 of 11

ROOFING COMPONENT APPROVAL:

Category: Roofing
Sub Category: Roof tile adhesive
Materials: Polyurethane

SCOPE:

This approves ICP Adhesives Polyset® AH-160 as manufactured by ICP Adhesives and Sealants, Inc. as described in this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, do not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127. For use with approved flat, low, and high profile roof tile systems using ICP Adhesives Polyset® AH-160.

PRODUCTS MANUFACTURED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
ICP Adhesives Polyset® AH-160	N/A	TAS 101	Two component polyurethane foam adhesive
ICP Adhesives Foam Dispenser RTF1000	N/A		Dispensing Equipment
ICP Adhesives ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list attachment resistance values with the use of ICP Adhesives Polyset® AH-160 roof tile adhesive.

MANUFACTURING LOCATION:

1. Tomball, TX.

PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Results</u>
Density	ASTM D 1622	1.6 lbs./ft. ³
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft ²
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.



NOA No.: 17-0322.03
Expiration Date: 05/10/22
Approval Date: 04/27/17
Page 2 of 11

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
	P36700.04.12	ASTM D 1623	04/18/12
	P39740.02.12	TAS 101	02/21/12
		TAS 123	
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. ICP Adhesives Polyset® AH-160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of ICP Adhesives Polyset® AH-160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



INSTALLATION:

1. ICP Adhesives Polyset® AH-160 may be used with any roof tile assembly having a current NOA that lists attachment resistance values with the use of ICP Adhesives Polyset® AH-160.
2. ICP Adhesives Polyset® AH-160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of ICP Adhesives Polyset® AH-160 shall provide sufficient attachment resistance to meet or exceed the resistance value determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA.
3. ICP Adhesives Polyset® AH-160 and its components shall be installed in accordance with Roofing Application Standard RAS 120, and ICP Adhesives and Sealants, Inc.'s Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by ICP Adhesives and Sealants, Inc. ICP Adhesives and Sealants, Inc. shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the ICP Adhesives Foam Dispenser RTF1000 dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B).
6. ICP Adhesives Polyset® AH-160 shall be applied with ICP Adhesives Foam Dispenser RTF1000 or ICP Adhesives ProPack® 30 & 100 dispensing equipment only.
7. ICP Adhesives Polyset® AH-160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 1 to 2 minutes after ICP Adhesives Polyset® AH-160 has been dispensed.
9. ICP Adhesives Polyset® AH-160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.



Table 1: Adhesive Placement For Each Generic Tile Profile			
Tile Profile	Placement Detail	Minimum Paddy Contact Area	Minimum Paddy Contact Weight
Eave Course - Flat, Low, High Profiles	All Eave Course	17-23 sq. inches	45-65
Flat, Low, High Profiles	#1	17-23 sq. inches	45-65
Flat Profile	#2	10-12 sq. inches	30
Low Profile	#2	12-14 sq. inches	30
High Profile	#2	17-19 sq. inches	30
Flat, Low, High Profiles	#3	Two Paddys: 8-9 sq. inches at head of tile 9-11 sq. inches at overlap	12 grams per paddy
Two-Piece Barrel (Cap Tile)	Two Piece	2 Beads (1 each longitudinal edge) 20-25 sq. inches each bead	17 grams per bead
Two Piece Barrel (Pan Tile)	Two Piece	65-70 sq. inches	34 grams under pan

LABELING:

All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

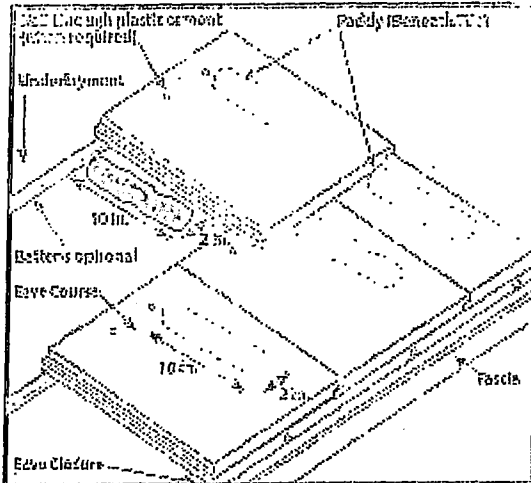


BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

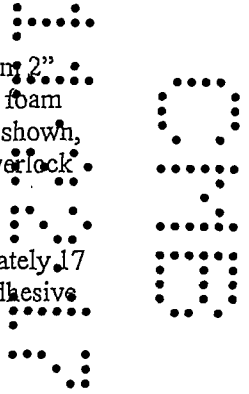


ADHESIVE PLACEMENT DETAIL # 1



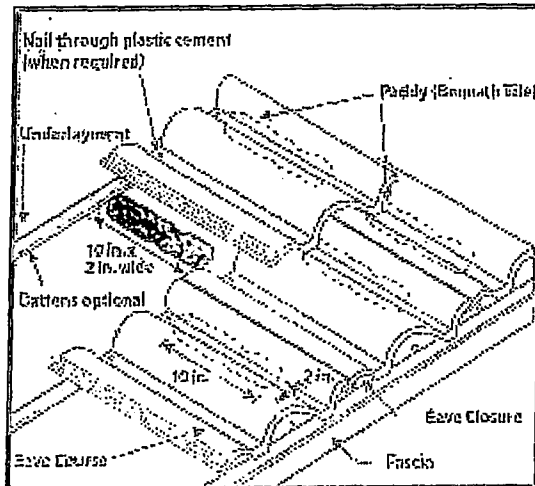
Flat/Low Profile Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown, under the strengthening rib closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.



Medium Profile / Double Pan Tile

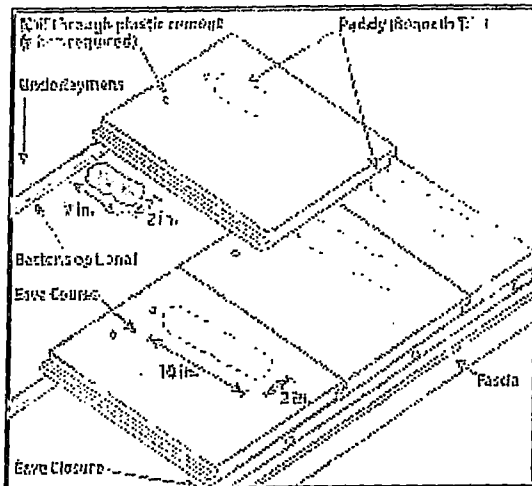
1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.



High Profile / Single Pan Tile

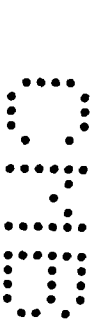
1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
2. Continue in same manner. Insure approximately 17 (109.7 cm²) – 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.

ADHESIVE PLACEMENT DETAIL # 2



Flat/Low Profile Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the strengthening rib of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the strengthening rib closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 10" (64.5 cm²) - 12 (77.4 cm²) square inch adhesive contact with the underside of the tile.



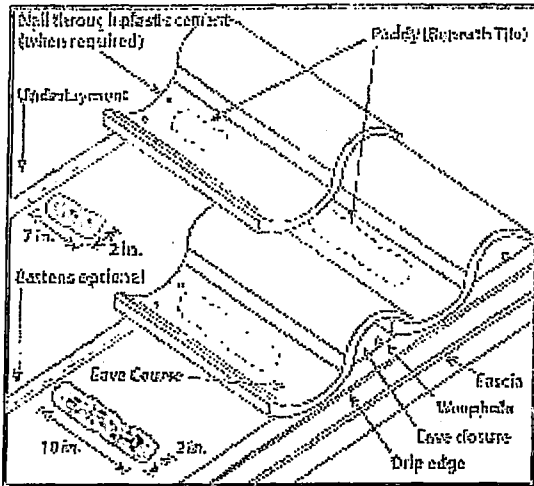
Medium Profile / Double Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 12" (77.4 cm²) - 14 (90.3 cm²) square inch adhesive contact with the underside of the tile.

(Instructions continued on next page)



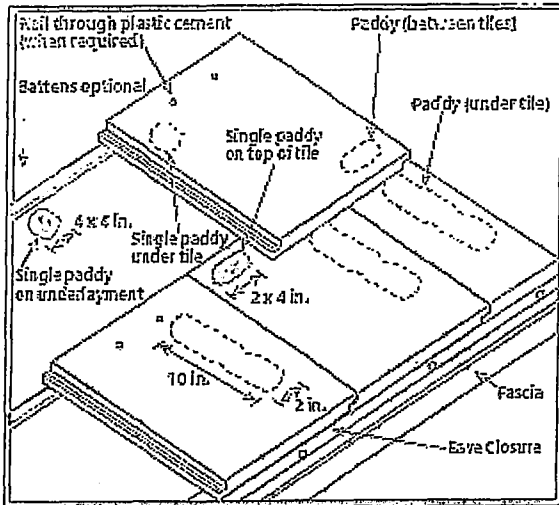
ADHESIVE PLACEMENT DETAIL # 2 (CONTINUED)



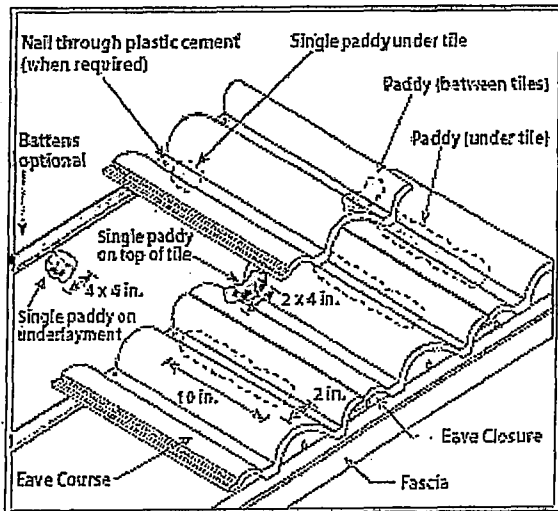
High Profile / Single Pan Tile

1. Starting at the eave course, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set. Insure approximately 17 (109.7 cm²) - 23 (148.4 cm²) square inch adhesive contact with the underside of the tile.
2. At the second course, apply a minimum 2" (50.8 mm) x 7" (177.8 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown under the pan portion of the tile closest to the overlock of the tile being set.
3. Continue in same manner. Insure approximately 17" (109.7 cm²) - 19 (122.6 cm²) square inch adhesive contact with the underside of the tile.

ADHESIVE PLACEMENT DETAIL #3



Flat/Low Profile Tile

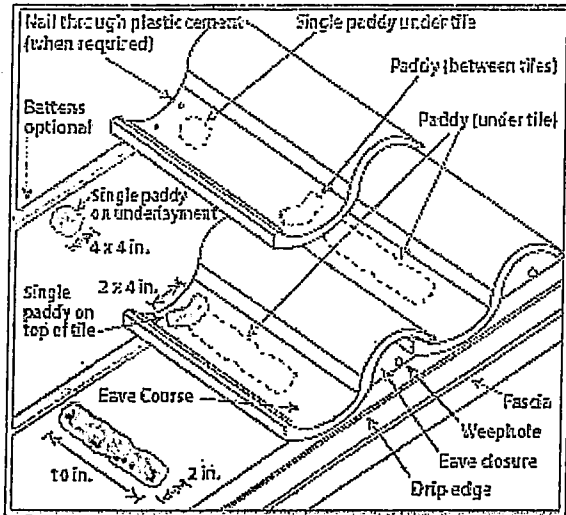


Medium Profile Tile

1. On the eave course only, apply a minimum 2" (50.8 mm) x 10" (254 mm) x 1" (25.4 mm) foam paddy onto the underlayment positioned as shown, under the strengthening rib for flat tile or under the pan portion of the tile for low or high profile tile closest to the overlock of the tile being set. Leave approximately 4" (101.6 mm) up from the eave edge free of foam to prevent the expanded adhesive from blocking the weep holes. Insure approximately 17-23 in² (109.7-148.4 cm²) of adhesive contact with the underside of the tile.
2. Apply a 4" (101.6 mm) x 4" (101.6 mm) x 1" (25.4 mm) foam paddy onto the underlayment just below the second course line positioned foam paddy under the strengthening rib for flat tile, or under the pan portion of the tile, closest to the underlock for the second course tile to be installed. Insure approximately 8-9 in² (51.6-58.1 cm²) of adhesive contact with the underside of the tile.

(Instructions continued on next page)

ADHESIVE PLACEMENT DETAIL # 3 (CONTINUED)



High-Profile Tile

3. Also apply a 2" (50.8 mm) x 4" (101.6 mm) x 3/4" (19 mm) paddy on top of the eave course tile surface as shown, on top of the strengthening rib for flat tile or on top of the pan portion of the tile, closest to the underlock of the first course of tile. Install second course of tile. Insure approximately 9 (58.1 cm²) - 11 (71 cm²) square inch adhesive contact with the underside of the tile at the overlap and 7 (45.2 cm²) - 9 (58.1 cm²) square inch adhesive contact with the underside of the tile at the head of the tile. Continue in same manner.

ACB2 ENGINEERING INC
Testing and Engineering Services
Certificate of Authorization - C.A. # 8131
16821 SW 1 Street, Pembroke Pines, FL 33027
Antonio Acevedo, P.E/ 786-286-7574

Engineering Calculations

FLORIDA BUILDING CODE 2014

CALCULATIONS FOR ANCHOR OR BASE SHEET ATTACHMENT
BASED ON ROOFING APPLICATION STANDARD (RAS) No. 117
(New Construction/Reroof Applications)

PROJECT NAME: T&S Roofing

This calculations is for a Flat Section of a property located at:
5800 Pine Tree Drive, Miami Beach

Given by : T&S Roofing

Flat Roof Section Area is : Squares
Building with a roof mean height less than 12 feet
Base Sheet Lap 4 Inches **SLOPE (Equal or Lower)**
Wind Uplift Pressures from Permit Application: 1/2" in 12"
Field Area -52.5 psf
Perimeter Area -52.5 psf
Corner Area -52.5 psf

Wind Uplift Pressures from RAS No. 128 (See FBC) EXPOSURE D:
Field Area -51.4 psf **Wind Speed 175 mph**
Perimeter Area -86.2 psf
Corner Area -129.7 psf

FASTENERS BY NOA - NOA # 14-1030.01 Page 27 OF 31
Fasteners as per NOA spacing of
6" o.c. at the 4" lap staggered and 6" o.c. in 2 rows in the center of sheet(field).
Maximum Design Pressure by NOA: -52.5 psf

Antonio Acevedo P.E.
Fla. Reg. No: 36466
Page 1 of 3

11/01/2017

0.444444 **Square Feet per Fastener**

ACB2 ENGINEERING INC
Testing and Engineering Services

DETERMINE THE FASTENER VALUE

Given:

Calculated Square Feet per Fastener = 0.44 ft²/Fastener
Maximum Design Pressure From NOA 52.5 psf

GENERAL EQUATION

Fy = Fastener Value

Fy = (max design pressure) x (square feet per fasteners)

Fy = 23.1 lbf

**DETERMINE ANCHOR/BASE SHEET SPACING
TO MEET PRESSURE**

GENERAL EQUATION

FS = (Fy x 144) / (P x RS)

FS = fastener spacing (inches)

Fy = fastener value (lbf)

P = max design pressure (psf)

RS = row spacing (inches)

Note:

Row spacing (RS) is the Net Width of Sheet divided by number of rows

The Net Width is the width of base sheet less the side lap distance

Total Number of rows from NOA = 3 Fastener Rows

From Previous Calculations:

The net width is 32 inches

Therefore Row Spacing = 10.66667 inches

Wind Uplift Pressures from RAS 128: Exposure D

Field Area 51.4 psf Wind Speed 175 mph

Perimeter Area 86.2 psf

Corner Area 129.7 psf

CONCLUSIONS/RECOMMENDATIONS

A. FASTENER SPACING FOR PERIMETER AREA

FS = 3.617749 inches

USE MAXIMUM 4 INCHES SPACING (Fractions are rounded down per 2014 FBC)

Minimum 4 Feet Wide Perimeter Width - Use 4" o.c. with 3 rows in Center of Sheet and 1 row in Lap

B. FASTENER SPACING FOR CORNER AREA

FS = 2.404395 inches

USE MAXIMUM 4 INCHES SPACING (Fractions are rounded down per 2014 FBC)

Minimum 4 Feet by 4 Feet Area for Corner - Use 4" o.c. with 4 rows in Center of Sheet and 1 row in Lap

C. FASTENER SPACING FOR FIELD AREA

FS = 6.067121

USE MAXIMUM 6" LAP AND 6" FIELD SPACING (Based on Product Approval)

Use 6" o.c. with 2 rows in center of sheet and 1 row Side Lap

RFRI700436

5800 Pinetree Dr

0
8
0

4
3
6

H.V.A.C. GENERAL NOTES:

ALL WORK SHALL CONFORM WITH THE FLORIDA BUILDING 2014, NFPA, NEC, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.

CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS, PERFORMANCE BONDS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS, AND SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN PERMIT.

CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. ALSO VERIFY EXISTING CONDITIONS BEFORE START THE JOB.

SUBMIT SHOP DRAWING OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION.

MECHANICAL PLANS ARE DIAGRAMATIC, AND MAY CHANGE DUE TO FIELD CONDITIONS.

VENTILATION DUCTWORK MATERIAL ARE SPECIFY ON MECHANICAL PLANS, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. STANDARDS. DUCT SIZES SHOWN ARE "INSIDE" DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE BEFORE FABRICATION.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.

SUBMIT SHOP DRAWING OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION.

GENERAL/MECHANICAL CONTRACTOR SHALL BE VERIFY ALL INSULATION VALUE USED FOR CALCULATIONS IN ENERGY AND/OR HEAT LOAD PROVIDED BY MECHANICAL ENGINEER.

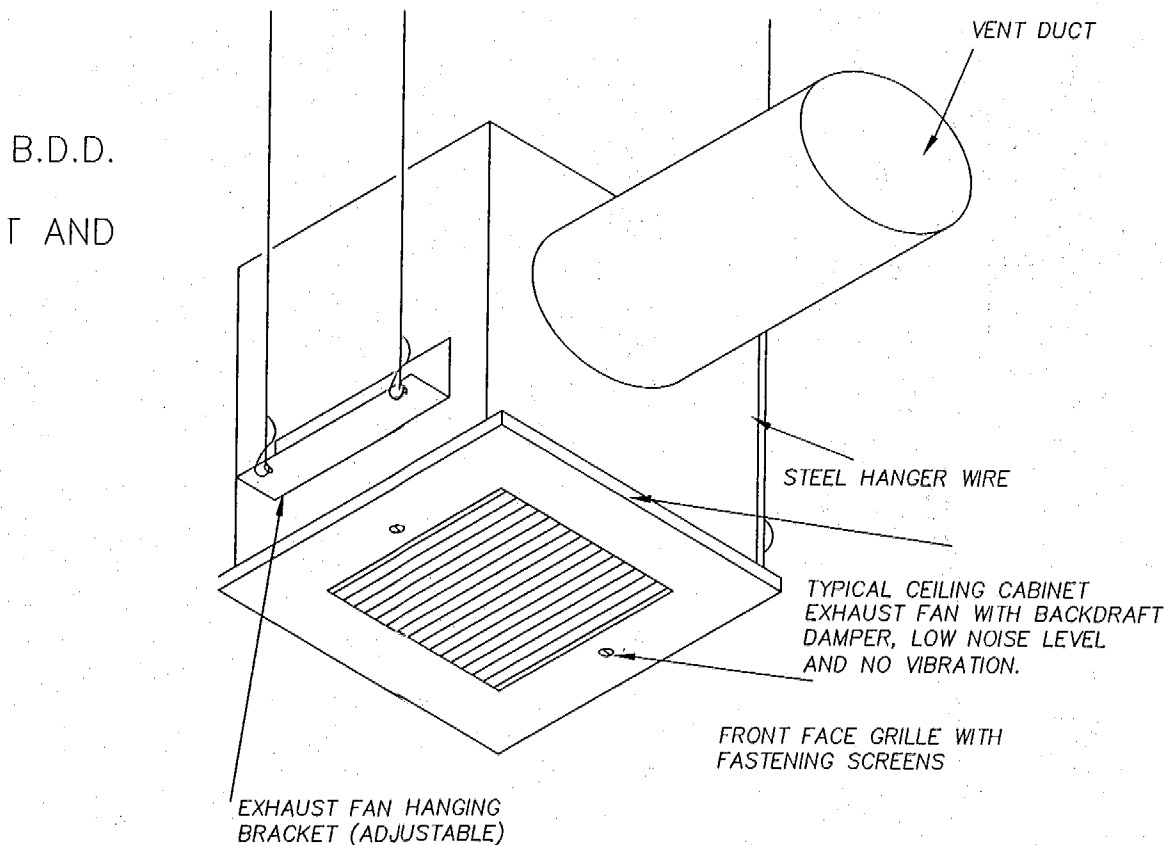
CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.

ALL DUCTWORK SHALL CONFORM TO SMACNA STANDARDS. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS. ALL VENTILATION DUCTWORK SHALL BE GALVANIZED SHEETMETAL OR THERMOFAN. ALL AIR CONDITIONING DUCTWORK SHALL BE FIBERGLASS BOARD OR FLEX MIN R-6 INSULATION, MUST CONFORM WITH ALL LOCAL CODES, UNLESS OTHERWISE NOTED. ALL ELBOW SHALL BE PROVIDED WITH TURNING VENTS.

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AIR BALANCE ACCORDING WITH PLAN.

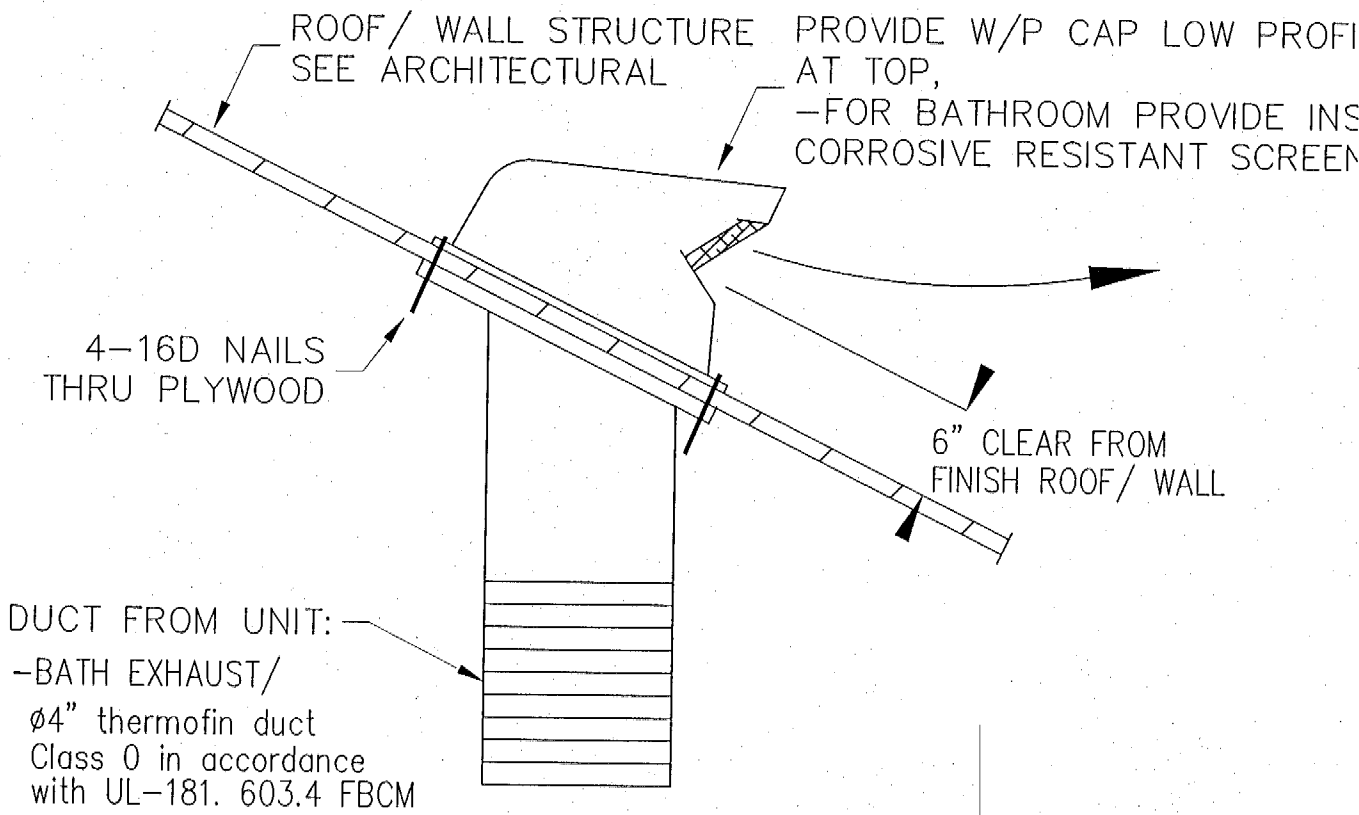
ALL DUCTWORK RUNNING IN CONDITIONED SPACE COULD BE R-4 AND DUCTWORK RUNNING IN UNCONDITIONED SPACE SHALL BE R-6 MIN INSULATION.

PROVIDE 1" UNDERCUT AT ALL INTERIOR DOORS.



CEILING MOUNTED CABINET EXHAUST FAN DETAIL

EF#1&2
EXH FAN#1&2 PANASONIC, MODEL FV-03VQ5, 50 CFM & B.D.D. Ø4" THERMOFAN
WIRE CONNECTED TO INDEPENDENT SWITCH.



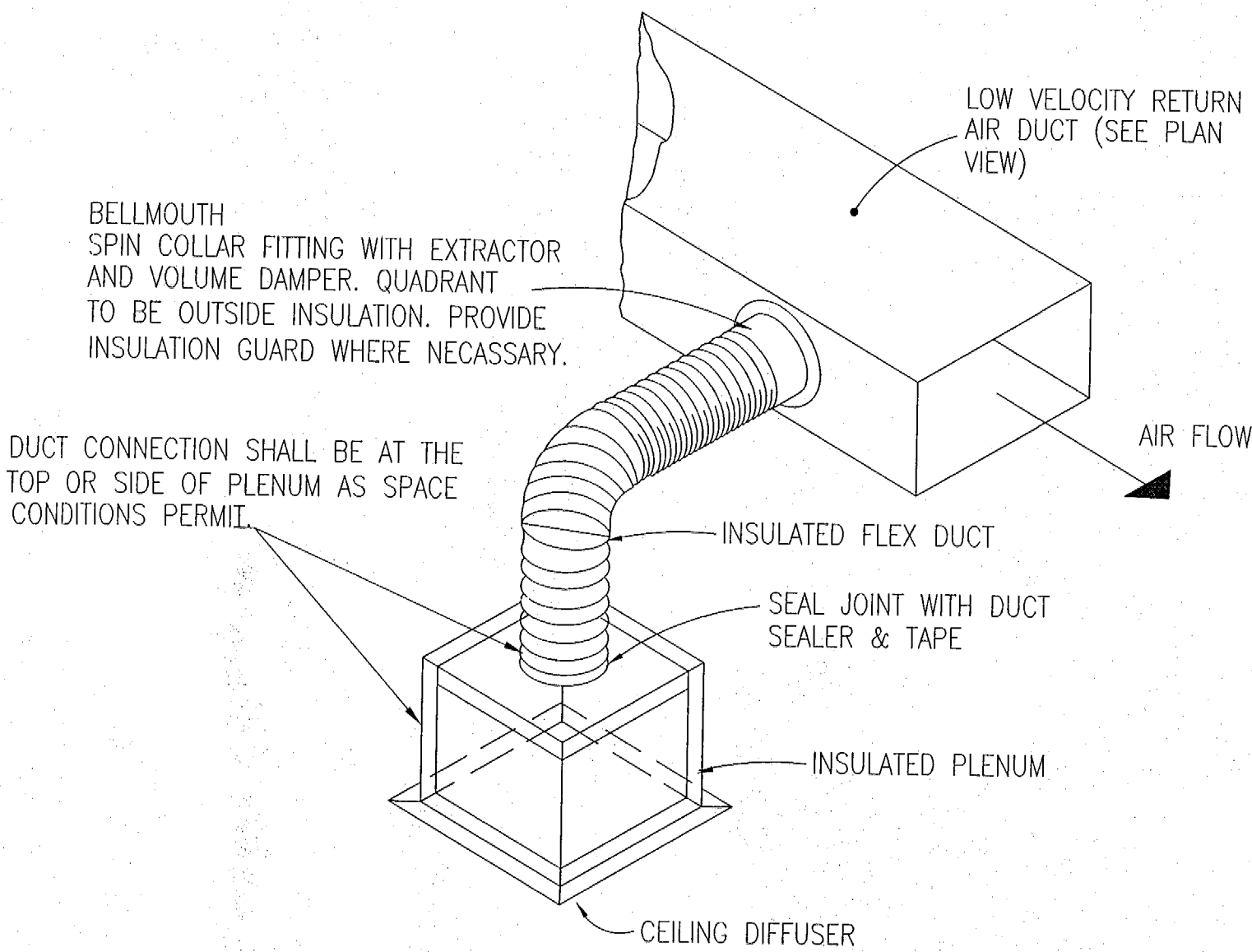
TYPICAL ROOF/ WALL CAP DETAIL @ TOILET EXH.

NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable in this property that may be found in the Public Records of the 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.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

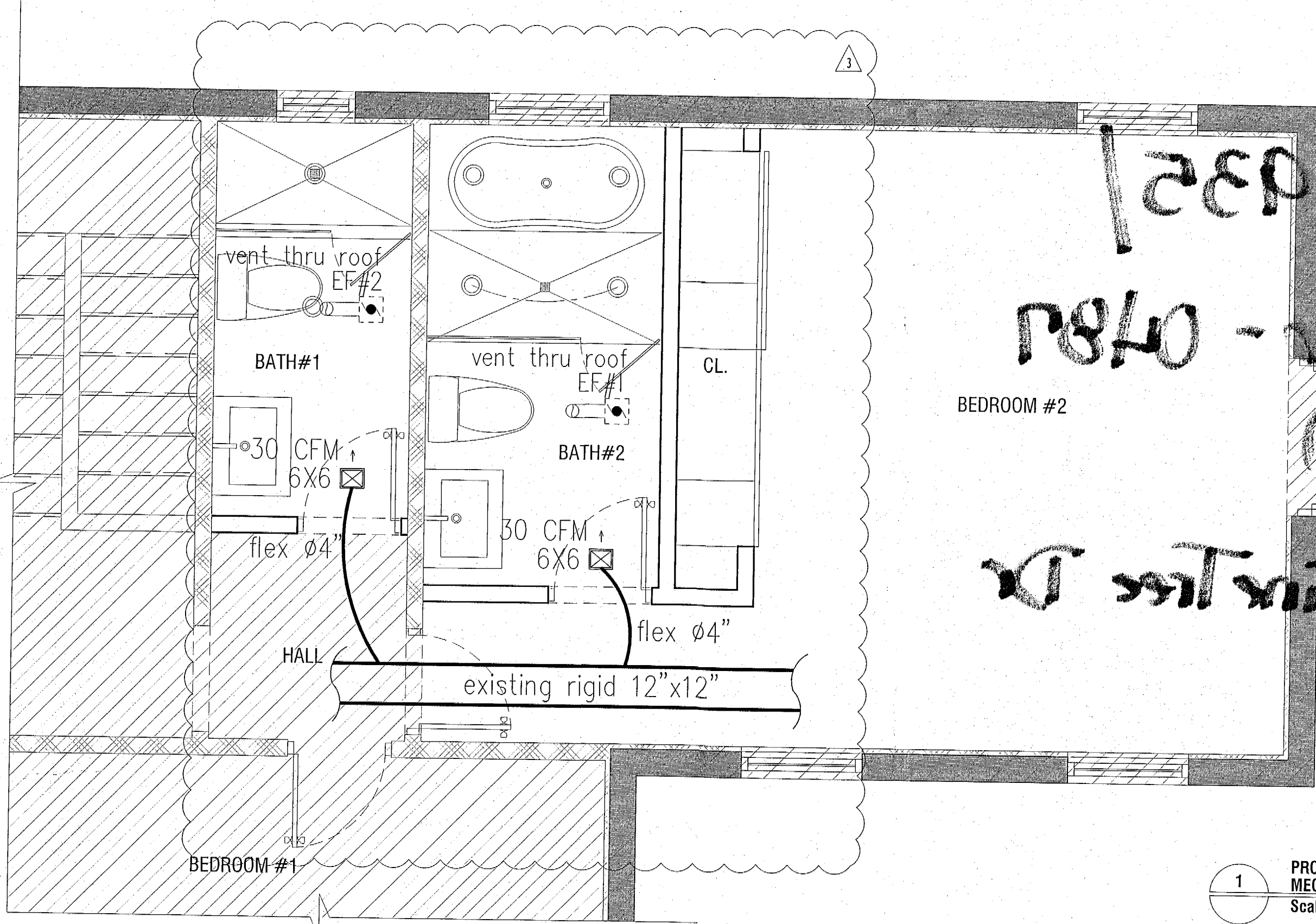
BUILDING:	
ZONING:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	
ELEVATOR:	
ROOFING:	

- NOTE:
FLEXIBLE DUCT INSTALLATION AND SUPPORT:
FLEXIBLE DUCTS SHALL BE CONFIGURED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PREVENT DUCT DISLOCATION OR DAMAGE, AND PREVENT CONSTRICTION OF THE DUCT BELOW THE RATED DUCT DIAMETER IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
- DUCTS SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5 PERCENT OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN.
 - BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER.
 - TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
 - HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1.5 FEET OF INTERMEDIATE FITTINGS AND BETWEEN IMMEDIATE FITTINGS AND BENDS. CEILING JOISTS AND RIGID DUCTS OR EQUIPMENT SHALL BE CONSIDERED TO BE SUPPORTS.
 - VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT INTERVALS NOT GREATER THAN 6 FEET.
 - HANGERS, SADDLES AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING FLEXIBLE DUCT THAT IN DIRECT CONTACT WITH IT BE LESS THAN 1/2 INCHES WIDE.



FLEXIBLE DUCT CONNECTIONS DETAIL (TYPICAL) NTS

A/C GRILLE SPECS.	
SUPPLY GRILLE	TITUS MODEL: 250-AA W/O.B.D. or similar
RETURN GRILLE	TITUS MODEL: 350FL or similar



- MECHANICAL SCOPE OF WORK:
- IS TO INSTALL ADDITIONAL SUPPLY DUCT TO NEW BATH #2.
 - IS TO INSTALL NEW EXHAUST FAN IN NEW BATH #2.

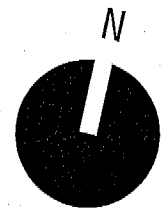
STANDARD 3" WIDE HANGERS
Hanger extension to be the sum of the distances between the hanging wires and the duct size, ID (Smacna)

Duct size, Inches	Maximum Hanger Spacing
48: Wide or grater	4 ft
Less tha 48" wide and less than 48" deep	6ft
Width between 28" & 48" and greater than 16" deep	6ft
Less than 29" wide and 16" depth or less	8ft

CHANNEL SECTION

If Total Extension is not greater than:	Minimum Channel Gauge	Minimum Channel Profile
6"	24	3" X 1.5"
18"	22	3" X 2"
30"	18	3" X 2"

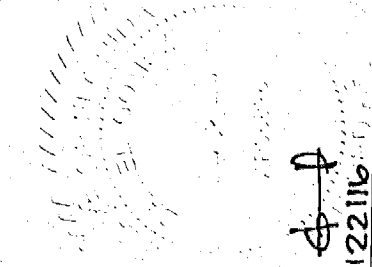
USE OF 2" WIDE 22 gauge 2'x 1.5" hangers may be substituted for 3" hangers for ducts with widths not over 48" and depths not over 24" provided that not more than one joint occurs between hangers and the maximum hanger spacing 4ft. Exception: When duct perimeter is 80" or less and does not require reinforcement two joints are permitted between hangers



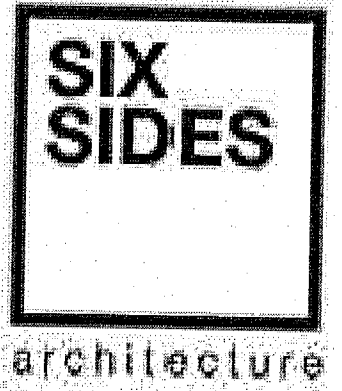
RENOVATIONS FOR:
JOAQUIN HERAS RESIDENCE
5800 PINE TREE DRIVE
MIAMI BEACH, FL 33140

PERMIT SET

SEAL:



SIXSIDES ARCHITECTURE, INC.
AA26002922
Daniel Gomez, R.A.
FL. Reg. AR96826
1108 KANE CONCOURSE, SUITE 220
BAY HARBOR ISLANDS, FL 33154
AL 305.610.1333
dgomez@sixsidesinc.com



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REVISED:

1	BDC COMMENTS - 07/2016
2	BDC COMMENTS - 08/2016
3	BDC COMMENTS - 12/2016

MECHANICAL PLANS

160610SSJH

07/08/2016

M.01

2EP10G1VЯ

RV1701935/

BRO916-0487

(MST)

5800 Pine Tree Dr

RV 1806346

ACB2 Engineering Inc.
Engineering and Laboratory Services
P.O. Box 823612
Pembroke Pines, Florida 33082
Phone: (786) 286-7574 Fax: (954) 450-3219

WINDLOAD PRESSURE CALCULATIONS

(Skylight on Flat Roof)

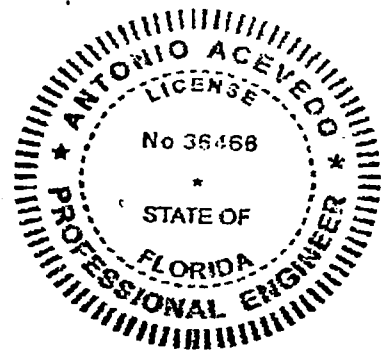
FOR

PROPERTY LOCATED AT

5800 Pines Tree Drive, Miami, Florida

NOTICE: If this permit there may be additional requirements found in the City of Miami Beach, Florida, which may be found in the Public Works Department, Engineering Division, for the purpose of the request. The City of Miami Beach, Florida, is not responsible for the results of these calculations, which are subject to the City of Miami Beach, Florida, and all Federal, State, and Local Laws, Rules, and Regulations.

Presented
To
T&S Roofing Company



OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: _____
ZONING: 01/26/18
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
FLOOD: _____
PUBLIC WORKS: _____
STRUCTURAL: VF 6.26.18
ELEVATOR: _____
ROOFING: AP 25 6/26/18

Prepared By:
Antonio Acevedo, P.E.
P.E. # 36468

04/23/2018

P.E. #36468

4/21/2018

04/21/2018

ACB2 Engineering Inc.

Engineering and Laboratory Services

P.O. Box 823612

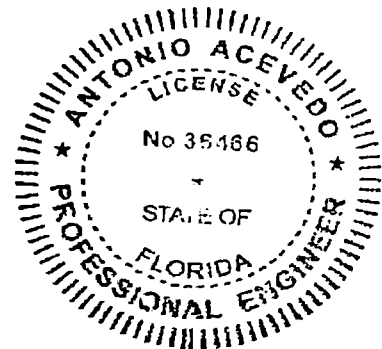
Pembroke Pines, Florida 33082

Phone: (786) 286-7574 Fax: (954) 450-3219

SUMMARY RESULTS OF WINDLOAD PRESSURE CALCULATIONS (for complete details see attached calculations):

<u>Description</u>	Max Positive Pressures	Max Negative Pressures
Corner_Zone 3	+20.88	-129.72
Perimeter Zone 2	+20.88	-86.19
Field Zone 1	+20.88	-51.38

Note: If Skylight location is less than 3.00 feet from any corner, the Max Negative pressure of -129.72 should be lower than the negative pressure shown in the NOA (Product Approval) for the Skylight. But if the Skylight is more than 3.00 feet from any roof corner, but it is less than 3.00 feet from the edge of any roof perimeter then the Max Negative Pressure of -86.19 should be lower than the negative pressure shown in the NOA (Product Approval) for the Skylight.



[Signature]
P.E. #36466
4/20/2018

MecaWind Std v2.2.7.5 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright www.mecaenterprises.com

Date : 4/21/2018 Project No. : JobNo
 Company Name : True Designed By : Engineer
 Address : Address Description : Description
 City : City Customer Name : Customer
 State : State Proj Location : Location
 File Location: C:\Program Files (x86)\MECAWind\5800 PINES TREE DRIVE-MIAMI-SKYLIGHT-FLAT ROOF-T&S
 ROOFING.wnd

Input Parameters: Directional Procedure All Heights Building (Ch 27 Part 1)

Basic Wind Speed(V)	=	175.00 mph	Exposure Category	=	D
Structural Category	=	II	Flexible Structure	=	No
Natural Frequency	=	N/A	Kd Directional Factor	=	0.85
Importance Factor	=	1.00	Zg	=	700.00 ft
Alpha	=	11.50	Bt	=	1.07
At	=	0.09	Bm	=	0.80
Am	=	0.11	l	=	650.00 ft
Cc	=	0.15	Zmin	=	7.00 ft
Epsilon	=	0.13	Slope of Roof(Theta)	=	.00 Deg
Pitch of Roof	=	0 : 12	Type of Roof	=	FLAT
h: Mean Roof Ht	=	20.00 ft	Eht: Eave Height	=	20.00 ft
RHt: Ridge Ht	=	20.00 ft	Overhead Type	=	No Overhang
OH: Roof Overhang at Eave	=	.00 ft	Bldg Width Across Ridge	=	16.00 ft
Bldg Length Along Ridge	=	23.00 ft			

Gust Factor Calculations

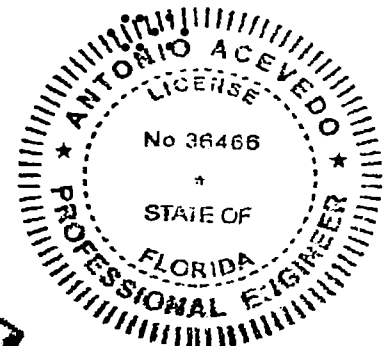
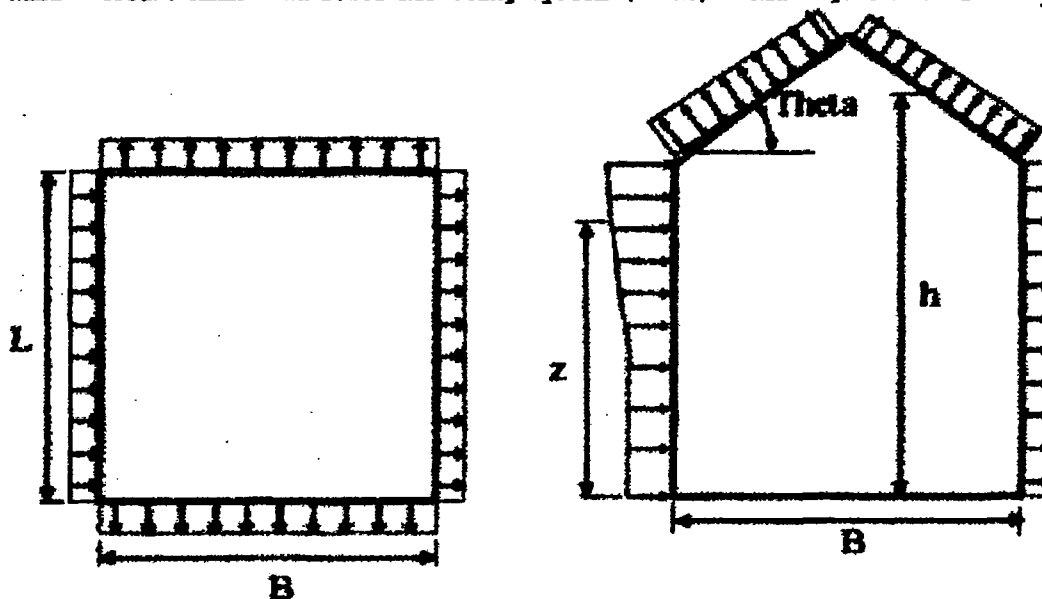
Gust Factor Category I Rigid Structures - Simplified Method
 Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis
 Zm: $0.6 \cdot H_t$ = 12.00 ft
 Lzm: $C_c \cdot (33/Z_m)^{0.167}$ = 0.18
 Lzm: $1 \cdot (Z_m/33)^{Epsilon}$ = 572.79 ft
 Q: $(1/(1+0.63 \cdot ((B+H_t)/L_z)^{0.63}))^{0.5}$ = 0.95
 Gust2: $0.925 \cdot ((1+1.7 \cdot L_z \cdot 3.4 \cdot Q)/(1+1.7 \cdot 3.4 \cdot L_z))$ = 0.90

Gust Factor Summary
 Not a Flexible Structure use the Lesser of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi
 GCpi : Internal Pressure Coefficient = +/-0.18

Wind Pressure Main Wind Force Resisting System (MWFRS) - Ref Figure 27.4-1



Signature
 PE #36466
 4/21/2018

Kh: $2.01 \cdot (Ht/Zg)^{(2/\alpha)}$ = 1.08
 Kht: Topographic Factor (Figure 6-4) = 1.00
 Qh: $.00256 \cdot (V)^2 \cdot I \cdot K_h \cdot K_{ht} \cdot K_d$ = 43.31 psf
 Cpww: Windward Wall Cp (Ref Fig 6-6) = 0.80
 Roof Area = 368.00 ft²
 Reduction Factor based on Roof Area = 0.88

MWFRS-Wall Pressures for Wind Normal to 23 ft Wall (Normal to Ridge)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Leeward Wall	-0.50	-26.20	-10.61
Side Walls	-0.70	-33.56	-17.97

Wall	Elev ft	Kz	Kzt	Cp	qx psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	20.00	1.08	1.00	0.80	43.31	21.65	37.24	47.85
Windward	10.00	1.03	1.00	0.80	41.19	20.22	35.81	46.42

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 10.0 ft	-1.15	-50.11	-34.52
Roof: 10.0 ft to 16.0 ft	-0.70	-33.56	-17.97

Notes - Normal to Ridge

- Note (1) Per Fig 27.4-1 Note 7, Since Theta <= 10 Deg base calcs on Eave Ht
 Note (2) Wall & Roof Pressures = $Q_h \cdot (G \cdot C_p - GC_{pi})$
 Note (3) +GCpi = Positive Internal Bldg Press, -GCpi = Negative Internal Bldg Press
 Note (4) Total Pressure = Leeward Press + Windward Press (For + or - GCpi)
 Note (5) Ref Fig 27.4-1, Normal to Ridge (Theta < 10), Theta = .0 Deg, h/l = 1.25

MWFRS-Wall Pressures for Wind Normal to 16 ft wall (Along Ridge)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Leeward Wall	-0.41	-22.98	-7.39
Side Walls	-0.70	-33.56	-17.97

Wall	Elev ft	Kz	Kzt	Cp	qx psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	20.00	1.08	1.00	0.80	43.31	21.65	37.24	44.63
Windward	10.00	1.03	1.00	0.80	41.19	20.22	35.81	43.20

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 10.0 ft	-1.08	-47.71	-32.12
Roof: 10.0 ft to 20.0 ft	-0.75	-35.48	-19.89
Roof: 20.0 ft to 23.0 ft	-0.65	-31.64	-16.05

Notes - Along Ridge

- Note (1) Ref Fig 27.4-1, Parallel to Ridge (All), h/l = 0.87

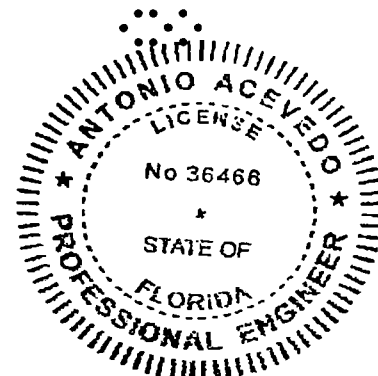
Parapet MWFRS Pressures (Ref Para 27.4.5):

Qp: Pressure at Top of Parapet = 44.37 psf
 Type of Parapet = Solid Top Elev. of Parapet = 3.00 ft
 Press-Windward Parapet = 66.56 psf Press-Leeward Parapet = -44.37 psf

Wind Pressure on Components and Cladding (Ch 30 Part 2)

All pressures shown are based upon ASD Design, with a Load Factor of .6

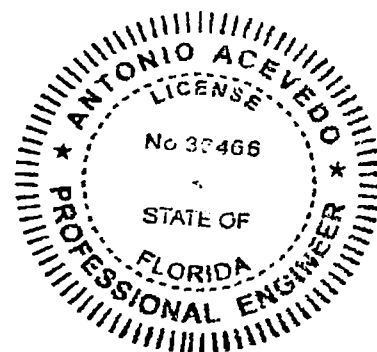
Description	Width ft	Span ft	Area ft ²	Zone	Max P psf	Min P psf
Field	8.00	1.00	10.0	1	20.88	-51.38
Perimeter	8.00	1.00	10.0	2	20.88	-86.19
Corner	8.00	1.00	10.0	3	20.88	-129.72



PE #36466
 4/21/2018

Note (1) If Zone = "2H" or "3H" then MaxP will be zero per Figure 6-3.
 Note (2) Max P & Min P = pnet30(from Fig.30.5-1) * Lambda * Importance Factor * Kzt.
 Note (3) If Area<10 then Area=10 or Area>100 then Area=100 for Zones 1, 2, 3, 2H & 3H.
 Note (4) If Area<10 then Area=10 or Area>500 then Area=500 for Zones 4 & 5.

3030



[Signature]
 P.E. #36466
 4/21/2018

5800 Pine Tree Dr, Miami, FL
T&S Roofing Systems Inc

Length Diagram

Ridge Length = 111 ft (Red Lines)

Valley Length = 27 ft (Blue Lines)



This is a tiled patio!

[Signature]

NOT DOING

NOT DOING

This is a tiled patio!

[Signature]

This diagram contains values derived from roof pitches that were not determined or verified by Edge Tech. Technicians. Make it your own. All other lengths under 5 feet have been rounded for readability.

RV1806346

5800 Pine Tree Dr.

(RFR 1700436)

0808

RV1806346

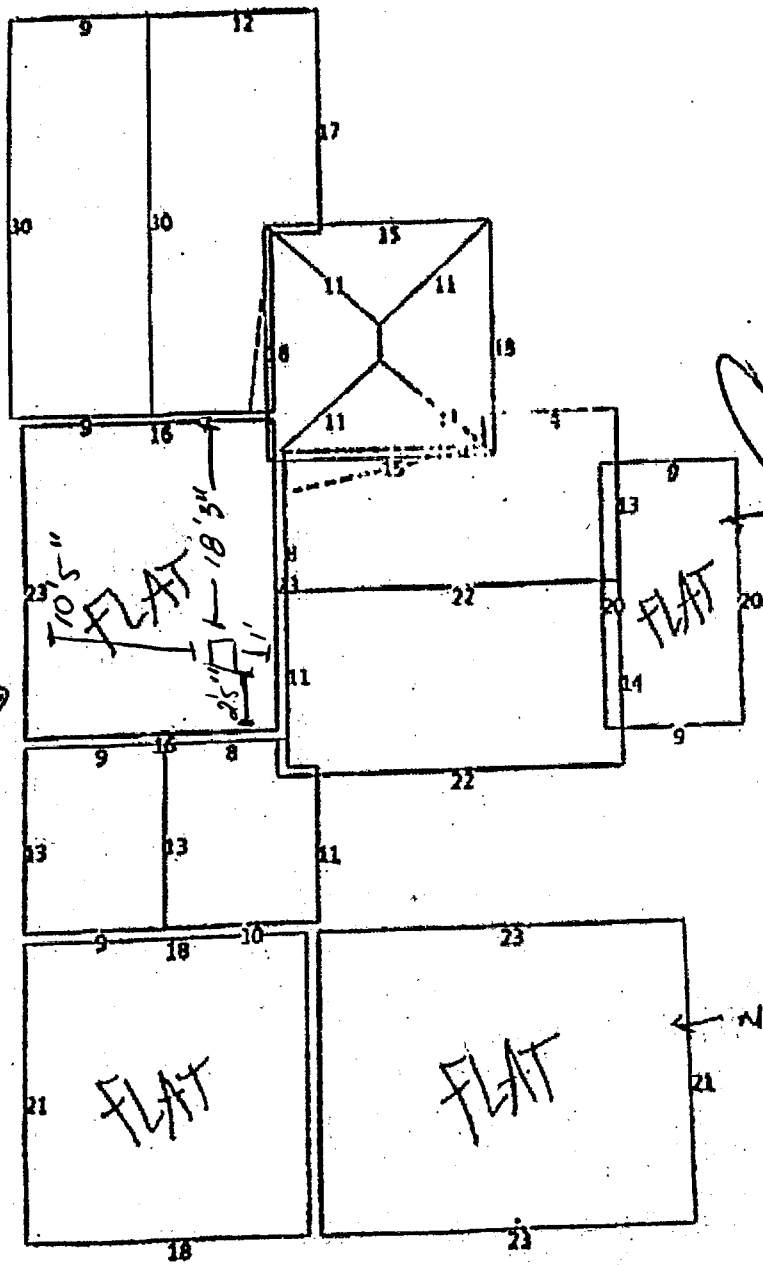
5800 Pine Tree Dr, Miami, FL

T&S Roofing Systems Inc

Length Diagram

Ridge Length = 111 ft (Red Lines)

Valley Length = 27 ft (Blue Lines)



This is a tiled patio!

Chris Kelly

NOT DOING

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Chris Kelly
This is a tiled patio!

This diagram contains values derived from roof pitches that were not determined or verified by Eagle View Technologies. Note: In some cases, segment lengths under 5 feet have been removed for readability.

201806346



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD
201 Longhorn Road
Fort Worth, TX 76179

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Framed Polycarbonate Domed Skylight.

APPROVAL DOCUMENT: Drawing No. DADÉ617.1, model "6SF-DADE", sheet 1 of 1, prepared by Birdview Skylights dated 08/22/17, signed and sealed by Vipin N. Tolat, P.E., on 10/06/17, and Drawing # BVS-X10947-A, sheet 1 of 1, signed & sealed by Vipin N. Tolat, P.E., on 03/28/15, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large & Small Missile Impact Resistant

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", unless otherwise noted herein and the dome shall be properly marked by GE Plastics.

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 & renews NOA #15-0413.06 and it consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
02/08/2018

NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018
Page 1

2P82081/14

02081/14

Birdview Skylights
d.b.a. Guv E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0303.11

A. DRAWINGS

1. *Drawing No. EB696, sheets 1 & 1, model "6SFD-DADE", prepared by Birdview Skylights, dated 07/26/00, with no revisions, signed and sealed by V. N. Tolat, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test per PA 201, Cyclic Load Test per PA 203 and Uniform Static air Pressure Test per PA 202, on "Series 6SFD-DADE Self Flashing Aluminum/Polycarbonate Skylight", prepared by Miami Testing Laboratory, report No. K-49362 issued on 09/10/96, signed and sealed by D. G. Ober, P.E.*

C. CALCULATIONS

1. *Anchor Calculation, sheets 2 through 5, dated 08/21/96 and signed by D. A. Terwilleger, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Notice of Acceptance No. 00-0718.02 issued to General Electric Company on 09/08/2000, expiring on 07/02/2003.*
2. *Extrusion drawings No. BVS-X10947-A & BVS 8554 by Tel Tower Extrusions, LTD for Birdview Skylights.*

E. STATEMENTS

1. *No change letter issued by Birdview Skylights, on 08/10/2000 and signed by E. Bird.*
2. *No change letter issued by Birdview Skylights on 02/11/03 and signed by G. E. Bird.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0611.09

A. DRAWINGS

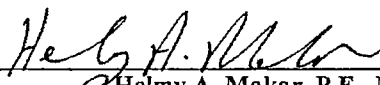
1. *Drawing No. DADE608.1, model "6SF-DADE ", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, signed and sealed by Vipin N. Tolat, P.E., on July 08, 2008.*

B. TESTS

1. *Test report on Large Missile Impact Test per TAS 201, Cyclic Load Test per TAS 203 and Uniform Static air Pressure Test per TAS 202, on "Series 6SF-DADE Self Flashing Aluminum/Polycarbonate Skylight", prepared by American Test Lab of South Florida, report No. 0331.01-08, dated 05/23/2008, signed and sealed by William R. Mehner, P.E. and Henry Hattem, P.E.*

C. CALCULATIONS

1. *Anchor Calculation, sheets 1 through 3 of 3, dated 06/09/2008, signed and sealed by Vipin N. Tolat, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0811.08

A. DRAWINGS

1. *Drawing No. DADE608.1, model "6SF-DADE ", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, revised on February 22, 2012, signed and sealed by Vipin N. Tolat, P.E., on February 22, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Permitting, Environment and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 13-0311.10

A. DRAWINGS

1. *Drawing No. DADE608.1, model "6SF-DADE", sheets 1 & 2 of 2, prepared by Birdview Skylights dated February 05, 2008, revised on February 22, 2012, signed and sealed by Vipin N. Tolat, P.E., on February 22, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS


1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018

Birdview Skylights
d.b.a. Guy E. Bird Enterprises LTD

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0413.06

A. DRAWINGS

1. *Drawing No. 6DADE14, model "6SF-DADE", sheets 1 & 2 of 2, prepared by Birdview Skylights dated March 19, 2015, signed and sealed by Vipin N. Tolat, P.E., on March 28, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. DADE617.1, model "6SF-DADE", sheet 1 of 1, prepared by Birdview Skylights dated 08/22/17, signed and sealed by Vipin N. Tolat, P.E., on 10/06/17, and Drawing # BVS-X10947-A, sheet 1 of 1, signed & sealed by Vipin N. Tolat, P.E., on 03/28/15.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

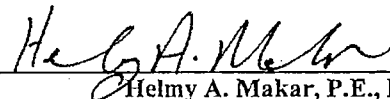
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

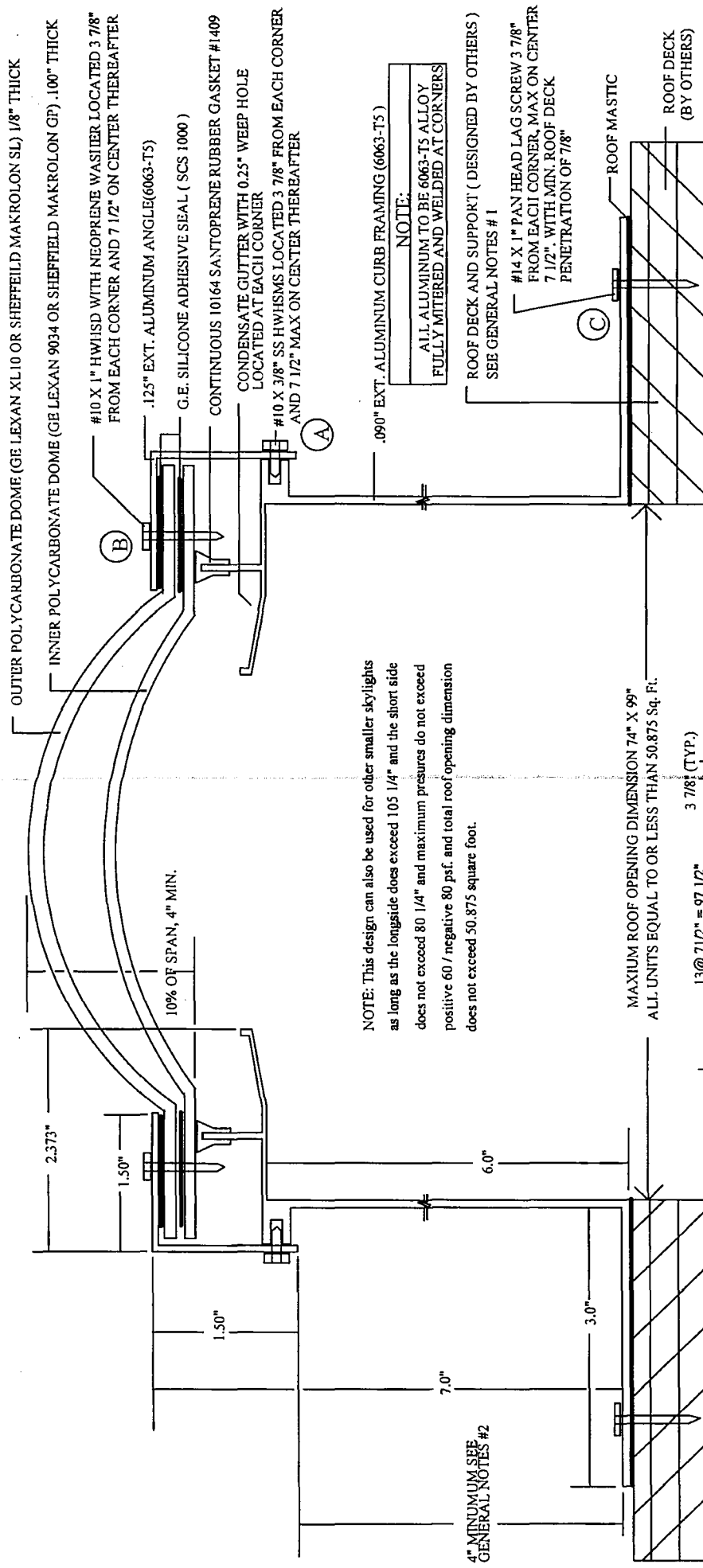
1. *None.*

F. STATEMENTS

1. *FBC, 2017 Edition compliance letter prepared by Vipin N. Tolat, P.E., dated 10/06/17, signed and sealed by Vipin N. Tolat, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1031.02
Expiration Date: 07/02/2023
Approval Date: 02/08/2018



NOTE: This design can also be used for other smaller skylights as long as the long side does not exceed 105 1/4" and the short side does not exceed 80 1/4" and maximum pressures do not exceed positive 60 / negative 80 psf. and total roof opening dimension does not exceed 50.875 square foot.

DESIGN PRESSURE RATING
POSITIVE + 60psf NEGATIVE -80psf
LARGE MISSILE IMPACT RESISTANT

BIRDVIEW SKYLIGHTS
 THE CLEAR CHOICE
 201 LONGHORN RD. FT. WORTH TX. 76179
 TEL: 817-439-9266 FAX: 817-232-8468
 DATE: 8-22-2017 MODEL: 6SF - DADE
 DRAWING # DADE617.1 DRAWN BY: J.F. BIRD
 SCALE: NTS

- GENERAL NOTES
- THIS DESIGN COMPLIES WITH IBC 6th EDITION (2017)
 - 4" MINIMUM DISTANCE FROM ANGLE LIP TO ROOF SURFACE FOR SHINGLE OR BUR WITHOUT INSULATION FOR INSULATION AND ROOF TILES, ADD THE TILE HEIGHT AND THE INSULATION THICKNESS TO THE 4" MINIMUM HEIGHT.

TOTAL 50 SCREWS AT LOCATIONS
 A, B & C FOR THIS SKYLIGHT.
 FOR OTHER SMALLER SIZES
 PROVIDE FASTENERS @ 7 1/2" ON CENTER EACH SIDE

PRODUCT REVISED
 in compliance with the Florida
 Building Code
 Acceptance No. 17-1031-02
 Expiration Date 07/03/2023
 By: [Signature]
 Miami Design District Council

VIPIN N. TOLAT
 FL. REG. # 12847
 15123 LANTERN CREEK LANE
 HOUSTON, TX 77068

[Signature]
 10/6/17

340

RV1806346
(RFR1700436)
5800 Pine
Tree Dr

0208
8888

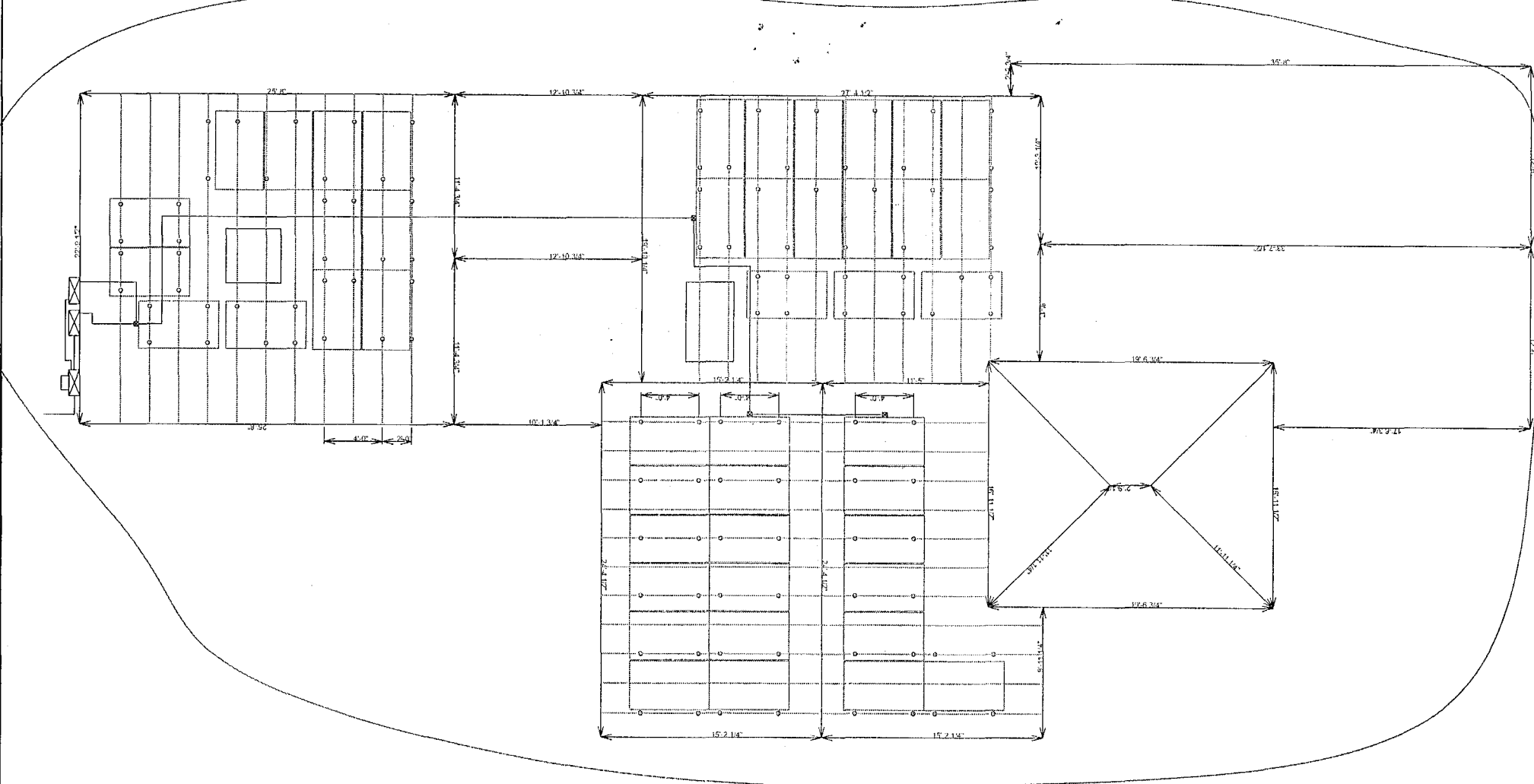
Location Map:



Aerial View:



Plan View:



RN1806721
BPHR1700007

Index:

C-1: COVER

E-1: ELECTRICAL DIAGRAM & CALCULATIONS

S-1: STRUCTURAL DIAGRAMS

S-2: STRUCTURAL CALCULATIONS

Permitting/Planning Notes:

SCOPE OF WORK:
INSTALLATION OF GRID-TIED PHOTOVOLTAIC SYSTEM

EXISTING SINGLE FAMILY RESIDENCE ALTERATION LEVEL 2

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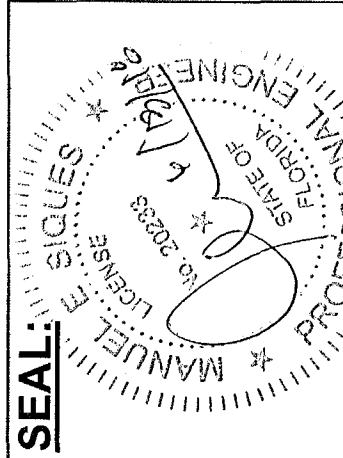
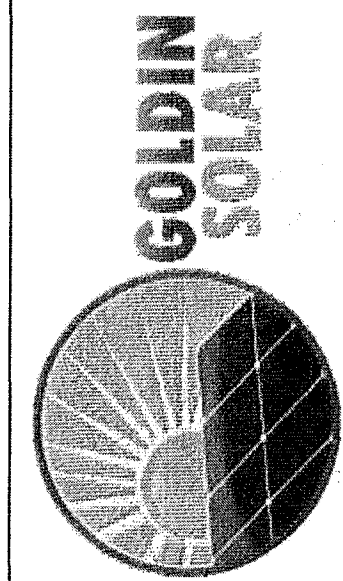
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ZONING:	08/25/18
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	VE 02.14
ELEVATOR:	
ROOFING:	

CODE SUMMARY		
STATE	BUILDING	ELECTRICAL
FLORIDA	2017 FBC, 6TH	2014 NEC

REVISIONS:

Project: Keller	5800 Pine Tree Dr. Miami Beach, FL 33140	COVER
-----------------	---	-------

Goldin Solar, LLC
3447 Percival Ave.
Miami, FL 33133
License CVC 56965
www.goldinsolar.com



MANUEL E. SIQUES, P.E.
FLORIDA ENGINEER LICENSE # 20233
8331 SW 12TH TERRACE,
MIAMI, FL 33144-A, 33144
TEL (305) 586-4776
I CERTIFY THAT THIS PV SYSTEM
FULLY COMPLIES WITH THE
REQUIREMENTS OF NEC 690.

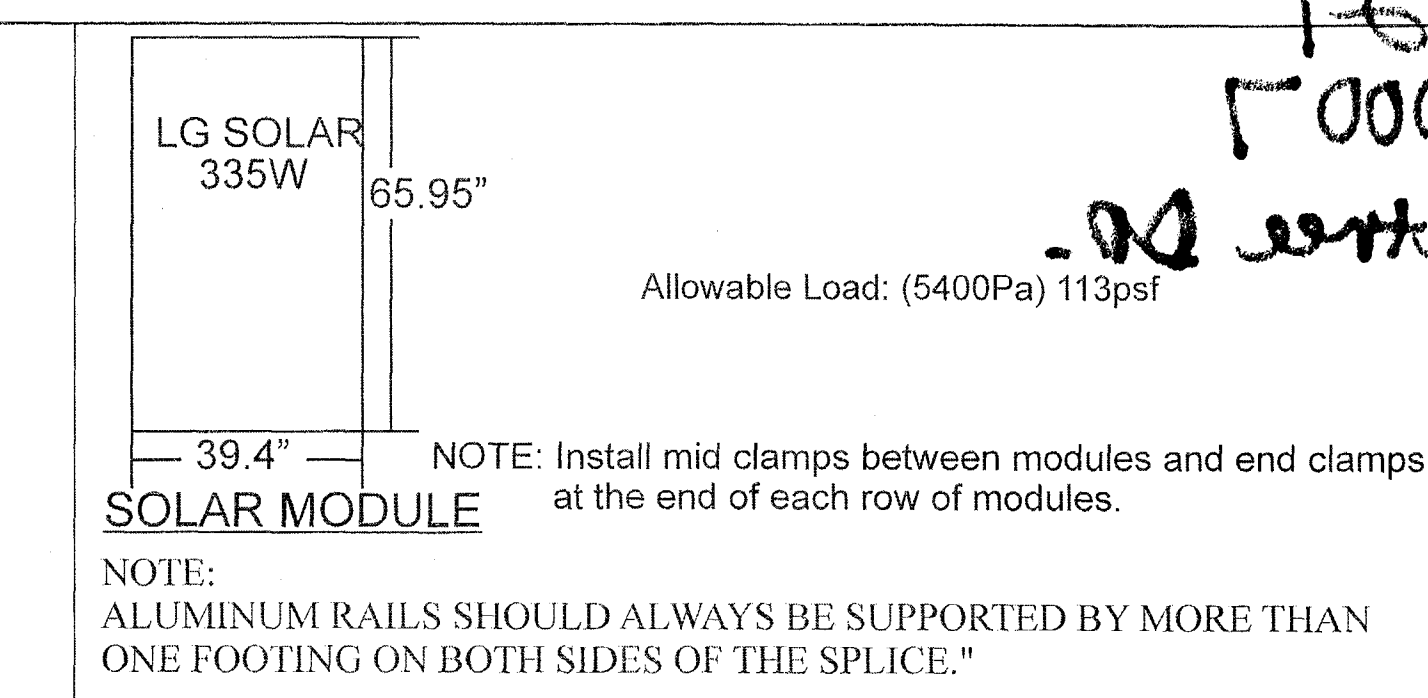
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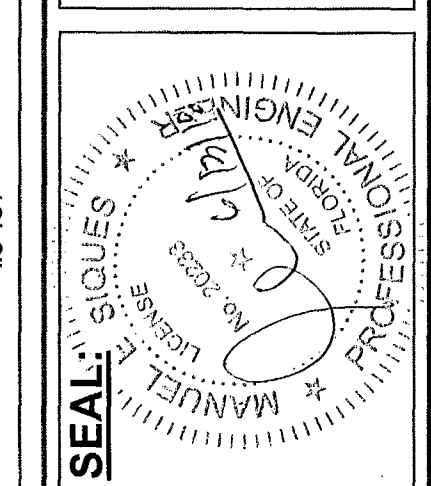
DRAWN BY: J.B

PAGE:

C-1



REVISIONS:	
Project: Keller	
5800 Pine Tree Dr, Miami Beach, FL 33140	
SYSTEM LAYOUT	



MANUEL E. SIQUES, P.E.
FLORIDA ENGINEER LICENSE # 20233
8331 SW 12TH TERRACE,
MIAMI, FL 33144-A, 33144
TEL (305) 588-4776

DATE: 6/12/2018

SCALE: NTS

DRAWN BY: J.B

PAGE:
S-1

RV1806721
BPHR1700007
5800 Pinetree Dr.