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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL
 Continue of the particular requirements covering the installation and use of UL
- Certified products, equipment, system, devices, and materials.

 Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product
- manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate
- methods of construction.Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

re Resistance Ratings - CAN/ULC-S101 Certi

July 14, 2016

Design No. U311

Bearing Wall Rating — 1 HR.

Finish Rating — 23 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used —

See Guide <u>BXUV7</u> or <u>BXUV7</u>

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such

Horizontal Section

2. Resilient Channel - 25 MSG galv steel. Resilient channels spaced vertically 24 in. OC, flange portion screw attached

a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8

Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of

may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1).

Clips spaced 48 in. OC. and secured to studs with No. $8 \times 2-1/2$ in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-

9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends.

of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in.

long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced

48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to

studs. Channels secured to studs as described in Item b, Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in.

and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4.

Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips — Type A237R located approximately 2 in, from each end of length of channel, Both Gypsum

Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in.

2C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described

No. 18 SWG galy steel wire near each end of overlap. As an alternate, ends of adjoining channels

in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in

2A. Steel Framing Members* — (Optional, Not Shown) — As an alternate to Item 2, furring channels and Steel

1. Wood Studs — Nom 2 by 4 in., spaced 16 or 24. OC. Effectively cross braced.

Framing Members as described below:

to one side of studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws.

PAC INTERNATIONAL L C - Types RSIC-1, RSIC-1 (2.75).

attached to furring channels as described in Item 3.

center hole. Furring channels are friction fitted into clips.

PLITEO INC - Type Genie Clip

2B. Steel Framing Members* — Furring channels and Steel Framing Members as described below:

b. Steel Framing Members* - Used to attach furring channels (Item 2Ca) to studs. Clips spaced 16 or 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips — Type A237R 3. Gypsum Board* - 5/8 in, thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in, long, self-drilling, self-tapping steel screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 12 in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced 12 in. OC. Vertical joints shall be located over study on this side of the wall. CERTAINTEED GYPSUM INC - Type FRPC, Type C CGC INC - Types C, IP-X2, IPC-AR CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Type LGFC-C/A GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C NATIONAL GYPSUM CO - Types -eXP-C, FSK-C, FSW-C, FSW-G PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C or PG-C SAINT-GOBAIN GYPROC MIDDLE EAST FZE - Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine THAI GYPSUM PRODUCTS PCL - Type C UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR USG BORAL ZAWAWI DRYWALL L L C SFZ - Type C USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR 4. Batts and Blankets* - 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4-in. face of the studs with staples placed 24 in. OC JOHNS MANVILLE ROCK WOOL MANUFACTURING CO - Delta Board. ROXUL INC — Acoustical Fire Batts THERMAFIBER INC - Type SAFB. 4A. Glass Fiber Insulation — (As an alternate to Item 4) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and

4B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. **U S GREENFIBER L L C** — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD and INS770LD are to be used for dry application only

4C. **Fiber, Sprayed*** — As an alternate to Items 4, 4A, and 4B — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft³.

NU-WOOL CO INC — Cellulose Insulation

Blankets (BKNV or BZJZ) Categories for names of Classified companies.

from joint edge

4D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. **INTERNATIONAL CELLULOSE CORP** — Celbar-RL

5. **Joints and Screw Heads** — Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

6. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

7. **Mineral and Fiber Board** — (Optional, Not Shown) — 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on the side of the wood framing without the resilient channels, in between the wood framing and the UL Classified gypsum board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed horizontally or vertically and fastened through the fiber boards to wood framing with 2 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Gypsum board joints staggered from fiber board joints. Fiber boards not evaluated or intended as a substitute for the required layer of UL Classified Gypsum Board.

BLUE RIDGE FIBERBOARD INC — SoundStop

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-07-14

Questions?

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Design No. U329 BXUV.U329 Fire Resistance Ratings - ANSI/UL 263

The Resistanc

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 Contified products, equipment, system, devices, and materials.
- Certified products, equipment, system, devices, and materials.

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 methods of construction.
- methods of construction.Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U329

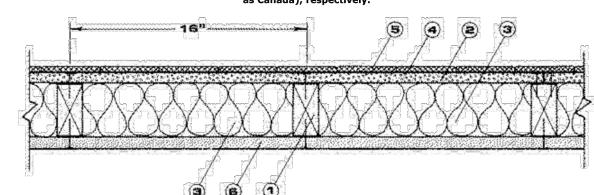
October 16, 2015

Bearing Wall Rating — 1 HR.

Finish Rating — (See Items 2, 6 and 6A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such



2. Cementitious Backer Units* - 1/2 or 5/8 in. thick, installed vertically or horizontally with vertical joints centered over studs. Fastened to studs and plates with corrosion resistant 1-5/8 in. long chamfered, ribbed wafer head screws with a minimum head diameter of .400 inch or 1-3/4 in. long hot-dipped galvanized roofing nails spaced 8 in. OC. Joints covered with glass fiber mesh tape and latex modified portland cement mortar or basecoat, or Type I organic adhesive. Finish rating 19 minutes for cement board with 1/4 in. thick tile set in latex modified portland cement mortar. UNITED STATES GYPSUM CO - Type DCB. USG MEXICO S A DE C V - Type DCB. 3. Batts and Blankets* - Min 3-1/2 in. thick mineral wool batts, friction fit between studs to fill interior stud cavity. INDUSTRIAL INSULATION GROUP L L C - Type SAFB JOHNS MANVILLE - Type SAFB ROXUL INC — Type AFB THERMAFIBER INC — Type SAFB 4. Bond Coat for Setting Tile - Latex modified portland cement mortar or Type I organic adhesive applied with a 5. Ceramic Tile - 1/4 in. thick, joints filled with grout. 6. Gypsum Board* — 5/8 in. thick, with square or tapered edges, applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and plates 7 in. OC with 1-7/8 in. long 6d cement coated nails or 1-7/8 in. long Type W or S screws. When used in widths other than 48 in., gypsum board to be installed horizontally. ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing AMERICAN GYPSUM CO - Types AGX-1, M-Glass, AG-C BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO - Type DBX-1 CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, or Type C CGC INC — Type AR (Finish rating 26 min), Type C (Finish rating 26 min), Type IP-X1 (Finish rating 26 min), Type IP-X2 (Finish rating 26 min), Type SCX (Finish rating 26 min), Type WRC (Finish rating 26 min), Type IP-AR (finish rating 26 min), Type IPC-AR (finish rating 26 min), Type ULX (finish rating 22 min).

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC6A (finish rating 34 min), LGFC2A,

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DA, DAP, DAPC, DGG, DS, GPFS6, Type X, Veneer Plaster Base Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W. NATIONAL GYPSUM CO - Types FSK, FSMR-C, FSW, FSW-3, FSW-6, FSW-8, FSL. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-9, PG-11, PG-C, PGS-WRS. SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min) THAI GYPSUM PRODUCTS PCL - Type C UNITED STATES GYPSUM CO — Type AR (Finish rating 26 min), Type C (Finish rating 26 min), Type FRX-G (Finish rating 29 min), Type IP-AR (finish rating 26 min), Type IP-X1 (Finish rating 26 min), Type IP-X2 (Finish rating 26 min), ype IPC-AR (finish rating 26 min), Type SCX (Finish rating 26 min), Type ULIX (finish rating 20 min), Type ULX (finish rating 22 min), Type WRC (Finish rating 26 min). USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX USG MEXICO S A DE C V - Type AR (finish rating 26 min), Type SCX (finish rating 26 min), Type C (finish rating 26 min), Type WRC (finish rating 26 min), Type IP-X1 (finish rating 26 min), Type IP-X2 (finish rating 26 min), Type IP-AR (finish rating 26 min), Type IPC-AR (finish rating 26 min), Type ULX (finish rating 22 min). 6A. Gypsum Board* - As an alternate to Item 6 - (not shown) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. ACADIA DRYWALL SUPPLIES LTD - Type X AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C (Finished Rating is 25 minutes). CERTAINTEED GYPSUM INC — Type C or Type X (Finished Rating is 23 minutes). CGC INC — Type AR, Type C, Type IP-X1, Type IP-X2, Type SCX , Type WRC, Type IP-AR, Type IPC-AR, Type ULX. (Finished Rating is 24 minutes). THAI GYPSUM PRODUCTS PCL — Type C or Type X UNITED STATES GYPSUM CO - Type AR, Type C, Type FRX-G, Type IP-AR, Type IPC-AR, Type IP-X1, Type IP-X2, Type USG BORAL ZAWAWI DRYWALL L L C SFZ - Types C, SCX

16th St.

15th Terrace of Alton Ave

SIGNATURE / DATE / SEAL

Víctor H. Rodríguez,

Registered Architect

State of Florida # AR0094965

Issue Issue Date / For

DDCI Project #: 1615.00

Drawn by: **URB**

SHEET INDEX

SHEET NO.

Approved by: VHR

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PERMIT SET

330

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STRUCTURAL ENGINEER:

AA26002510

CONSULTANT:

KEY PLAN

NOTUS LLC

UNITED STATES GYPSUM CO — Type USGX

USG MEXICO S A DE C V − Type USGX

Type IPC-AR. (Finished Rating is 24 minutes)

horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX

6C. **Gypsum Board*** — (As an alternate to Items 6 through 6B) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 6. **GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min).

USG MEXICO S A DE C V — Type AR, Type SCX, Type ULX, Type C, Type WRC, Type IP-X1, Type IP-X2, Type IP-AR,

6B. Gypsum Board* — (As an alternate to Items 6 and 6A) - 5/8 in. glass-mat faced with square edges, applied either

horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from

6D. **Gypsum Board*** — (As an alternate to Items 6 through 6C) — Nominal 5/8 in. thick, 4 ft wide panels, applied

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

6E. **Gypsum Board*** — (As an alternate to Items 6 through 6D) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 6. **CERTAINTEED GYPSUM INC** — Type SilentFX

6F. **Gypsum Board*** — (As an alternate to Item 6) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 6. **CERTAINTEED GYPSUM INC** — 5/8" Easi-Lite Type X

THAI GYPSUM PRODUCTS PCL - Type X

6G. Wall and Partition Facings and Accessories* — (As an alternate to Item 6) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 6.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

6H. **Gypsum Board*** — (As an alternate to 5/8 in. Type FSW in Item 6) - 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 6, spaced 24 in. OC. Outer layer attached per Item 6. **NATIONAL GYPSUM CO** — Type FSW

6I. **Gypsum Board*** — (As an alternate to Items 6 through 6H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

6J. **Gypsum Board*** — (As an alternate to Item 6) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. **CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C** — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

7. **Joints** — (Not Shown) — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

8. **Vapor Retarder, Water Barrier or Weather Resistive Barrier** — (Optional, not shown) — As required.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-10-16

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- manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate Only products which bear UL's Mark are considered Certified.

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

BXUV - Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. L535 October 07, 2016

Unrestrained Assembly Rating - 1 Hr Finish Rating - 26 Min

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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System No. 1

Subflooring - Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels,

joints staggered. Vapor Barrier - Nom 0.010 in. thick commercial rosin-sized building paper. Finish Flooring - Min 1 by 3 in. T & G and end matched lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the

System No. 2

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum

compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix

min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with

1. Flooring Systems — The flooring system shall consist of one of the following:

strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.010 in. thick.

instructions regarding the minimum thickness of floor topping over each floor mat material.

Alternate Floor Mat Material* — (Optional) - Floor mat material nominal 3/8 in, thick loose laid over the subfloor. Floor topping shall be a min 3/4 in, thick,

Subflooring - Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials - (Optional) - Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials - (Optional) - Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC - FIRM-FILL SCM 125

Alternate Floor Mat Materials - (Optional) - Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025 Alternate Floor Mat Materials - (Optional) - Floor mat material nom 3/8 in. (10 mm) thick loose laid over the

subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm) HACKER INDUSTRIES INC - FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm) HACKER INDUSTRIES INC - Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in, over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in, thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand. HACKER INDUSTRIES INC - Firm-Fill Gypsum Concrete, Firm- Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High

System No. 4

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA - Type FF

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* - Min 1 in, thickness of floor topping mixture having a min compressive

strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 62.5 lbs of Pea Gravel, 312.5 lbs of sand with 5-1/2 gal of water. LITE-CRETE INC - Type I

System No. 6

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing", Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Finish Flooring - Floor Topping Mixture* - Min 3/4 in, thickness of floor topping mixture having a minimum

compressive strength of 1500 psi. Mixture shall consist of 3 to 7 gal of water to 80 lbs of floor topping mixture to 1.0 to

MAXXON CORP - Type D-C, GC, GC2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS - Type RF, RFP, RFU, RFR, Ortecrete

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor, Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material. MAXXON CORP - Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material, primers, and use of crack suppression reinforcement.

MAXXON CORP — Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath — (For use with or as an alternate to Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 8

System No. 7

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Floor - Mineral and Fiber Board* - Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in, with adjacent sub-floor joints. HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 9

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AERIX INDUSTRIES — Floor Topping Mixture

System No. 10

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM — Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30.

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in, or 1 in, thickness of floor topping for 19/32 or 15/32 in, thick wood structural panels respectively.

ALLIED CUSTOM GYPSUM — Type AccuQuiet P80, Type AccuQuiet C40, AccuQuiet D13, and Type AccuQuiet D-18.

Subflooring - 23/32 in. thick wood structural panels, min. grade "Underlayment". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in, thick,

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or

strength axis of panels to be perpendicular to the joists with joints staggered. Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor.

Floor topping thickness shall be a minimum of 3/4 in. KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

Subflooring - Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having

equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Gypsum Board* - One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in, long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches

GEORGIA-PACIFIC GYPSUM L L C - Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat LP-R.

Gypsum Board* — (For use when floor mat is used) — Two layers of nom 5/8 in, thick, 4 ft wide gypsum board. installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the

GEORGIA-PACIFIC GYPSUM L L C - Type DS

System No. 14

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing", Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture* - Min 3/4 or 1 in. thickness of floor topping for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC - GSL M3.4, GSL K2.6 or GSL RH

Floor topping thickness shall be a minimum of 3/4 in.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with

Finish Flooring* - Floor Topping Materials - Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearingthe UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.

Acousti-flor (1/8 in, thick) - Floor topping thickness shall be a minimum of 3/4 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material. Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat

3. Cross Bridging — Min 1 by 4 in. or min 2 by 10 solid blocking.

5. **Gypsum Board*** — Nom 1/2 or 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels and side edges of the board located between joists. Gypsum board fastened to resilient channels with 1 in. long Type S-12 bugle head steel screws spaced 12 in. OC. End joints of gypsum board similarly fastened to

CERTAINTEED GYPSUM INC — Type FRPC or Type C

6. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively

Last Updated on 2016-10-07

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Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels,

See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.

WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

2. **Wood Joists** — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.

4. **Resilient Channels** — Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 24 in. OC perpendicular to joists. Channels overlapped 4 in. at splices and secured to each joist with one 1-1/4 in. long Type S steel screw. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 5). Additional channels shall extend min 3 in. beyond each side edge of board.

additional pieces of resilient channel positioned at end joint locations. Screws located 3/4 in. and 1/2 in. from the side and end joints of gypsum board sheets, respectively.

THAI GYPSUM PRODUCTS PCL - Type C

in. thick veneer plaster may be applied to the entire surface of gypsum board.

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STRUCTURAL ENGINEER:

AA26002510

CONSULTANT:

KEY PLAN

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ssue Issue Date / For <u>(1)</u> 08.28.2016 / Design Review Board

DDCI Project #: 1615.00

Drawn by: **URB** Approved by: VHR

SHEET INDEX

UNITED STATES GYPSUM CO - Types LRK, HSLRK, CSD USG MEXICO S A DE C V — Types LRK, HSLRK, CSD Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor

joists with joints staggered

Alternate Floor Mat Materials* - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. GRASSWORX L L C - Type SC50

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Design No. U914 **BXUV.U914** Fire Resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate

• Only products which bear UL's Mark are considered Certified.

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

BXUV - Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

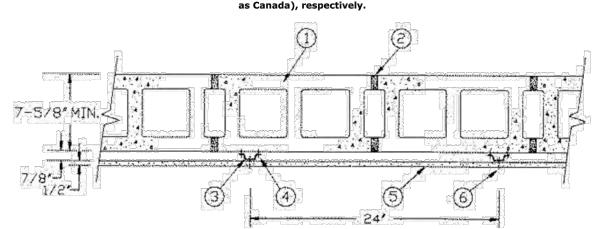
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U914 August 31, 2015

Bearing Wall Rating — 3 HR.

Nonbearing Wall Rating — 3 HR. This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used —

See Guide BXUV or BXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible

2. Mortar — Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by

3. Furring Channels - Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-9/16 in. or 2-3/4 in. or 2-

23/32 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approximately 3 in, above floor and 3 in, below ceiling. Clearance between vertical and horizontal channels 1/2 in, 4. Channel Fasteners — 1-1/4 in. long masonry screws with 3/16 in. body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with the fasteners staggered on each long leg of the furring channel. 4A. Steel Framing Members* - Alternate method used to attach furring channels (Item 3) to concrete blocks (Item through the center grommet. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L C — Types RSIC-1, RSIC-1 (2.75). 4B. Concrete Expansion Anchor — (Not Shown) — 1/4 in. dia. by 3 in. long carbon steel, pre-assembled, nail drive expansion anchor with mushroom head driven into the web of the concrete block. Min. embedment in concrete block of 1-3/8 in. and evaluated in accordance with ASTM E 488 to have ultimate load capacities of 980 lbs (tension) and 1400 lbs (shear) when used in 2000 psi concrete. 4C. Steel Framing Members* - (Not Shown) - Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 24 in. OC., and secured to blocks with 1/4 in. dia. by 3 in. long concrete expansion anchor (Item 4B) through the center hole. Ends of adjoining channels are overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Furring channels are friction fitted into clips. Side joint furring channels shall be attached to concrete block with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in, from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R 5. Gypsum Board* - 1/2 in. thick, 4 ft wide, secured to furring channels with wallboard fasteners (Item 6), Gypsum plaster not more than 1/16 in. thick may be applied to wallboard in addition to joint treatment. ACADIA DRYWALL SUPPLIES LTD - Type C. AMERICAN GYPSUM CO - Types AG-C. CERTAINTEED GYPSUM INC - Type C. CGC INC - Types C, IP-X2, IPC-AR. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A. GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C. NATIONAL GYPSUM CO - Types eXP-C, FSK-C, FSW-C, FSMR-C. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type PG-C.

PANEL REY S A - Type PRC

THAI GYPSUM PRODUCTS PCL - Type C.

UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR.

USG BORAL ZAWAWI DRYWALL L L C SFZ - Type C

USG MEXICO S A DE C V − Types C, IP-X2, IPC-AR.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick. Installed as described in Item 5. **NATIONAL GYPSUM CO** — Type FSMR-C.

6. Wallboard Fasteners -1 in. long, self-drilling, self-tapping steel screws with bugle heads. Fasteners attached to each furring channel and spaced 8 in. OC at butt joints and 12 in. OC in the field of the board parallel with furring channels. Clearance between fasteners and edges of wallboard 3/4 in.

7. Joint System — (Not shown) — Paper tape embedded in cementitious compound over joints. Paper tape and exposed screw heads covered with two layers of compound. Edges of compound feathered out.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-08-31

Questions?

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Product Information

British Standard

CP 606

Flexible Firestop Sealant Product description

 An acrylic based firestop sealant that provides movement capability in fire rated joint applications

Areas of application · Sealing construction/expansion joints Top-of-wall joints

 Metal pipes Cable bundles HVAC penetrations*

For use with · Various base materials such as masonry, concrete, metal, etc.

Wall and floor assemblies rated up to 3 hours

Examples Where a gypsum wall assembly meets the underside of

a metal or concrete deck Sealing expansion joints to impede the passage of fire,

smoke and toxic fumes Sealing around HVAC penetrations through fire-rated assemblies

System advantages/Customer benefits Meets 500 cycle requirements (ASTM E 1399 & UL 2079) Smoke, fume and water resistant · Easy clean up with water

CP 606 Flexible Fireston Sealant

| 600 ml Foil Dispenser | | | | | 00024669 |
|--------------------------------|-----|-------|--------------------------|--------------------|----------|
| CB 200 PI-300/310 ml Dispenser | | | | | 00055205 |
| CP 606, p | ail | red | 5 gallons (19 liter) | 1155 in³ | 00337193 |
| CP 606, fo | oil | red | (Qty 20) 20.2oz (600 ml) | 36 in ³ | 00337192 |
| CP 606 , fo | | | (Qty 20) 20.2oz (600 ml) | 36 in ³ | 00314272 |
| CP 606, to | ube | red | 10.5oz (310 ml) | 18 in ³ | 00337191 |
| Description | | Color | Contents | Volume | Item No. |

* For metal ducts with damper, consult damper manufacturer.



Internationally tested and approved

Saving Lives through innovation & education • Hilti Firestop Guide 2001 • Hilti U.S.: 1-800-879-8000 / www.us.hilti.com

CP 606 Flexible Firestop Sealant

Product description An acrylic based firestop sealant that provides movement

capability in fire rated joint applications **Product features**

 Halogen, asbestos and solvent free UV-resistant

Tested in accordance with

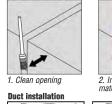
 UL 2079 ASTM E 1399

Silicone free

UL 1479

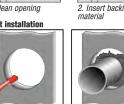
 ASTM E 814 ASTM E 84

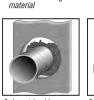
Installation instructions for CP 606



Application of firestop







Opening
1. Clean the opening. Joint sides and surfaces to which CP 606 will be applied must be sound, dry and free from dust, oil and grease.

2. Insert fill of mineral wool or backer (as required). 3. Apply firestop over backer. 4. Smooth firestop sealant with a trowel before the skin forms. Once cured, CP 606 can only be removed mechanically. 5. For maintenance reasons, a penetration seal could be permanently

marked with an identification plate. In such a case mark the

identification plate and fasten it in a visible position next to the seal. Notice about approvals When using Hilti CP 606 Flexible Firestop Sealant, check that the

joint or pipe application has been sealed according to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Manual.

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CP 606 Flexible Firestop Sealant

Sound transmission classification:

On areas immersed in water

Keep out of reach of children

Avoid contact with eyes/skin

Only use in well ventilated areas

Observe expiration date on package

Read the Material Safety Data Sheet

Eyes and hands must be suitably protected

Store only in the original packaging in a location

protected from moisture at a temperature of 40°F (5°C) to

Safety precautions

Technical Data

(ASTM E84-96)

Red and White Application temperature: 40°F (5°C) to 77°F (25°C) Skin-forming time: Approx. 15 min. Curing rate: Approx. 1/16" in 3 days Volume shrinkage: Less than 20% Movement capability: Approx. 10% -40°F (-40°C) to 176°F (80°C) Temperature resistance: Surface burning characteristics: Flame spread: 0

Installation Instructions

Smoke development: 5

(ASTM E 90-97) **Approvals** ICBO Evaluation Service, Inc. Report No. ER-5614

California State Fire Marshal Listing no. 1452-1200:112 City of New York MEA 100-99-M

PERMIT SET

Issue | Issue Date / For (1) 08.28.2016 / Design Review Board

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1330

Building

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STRUCTURAL ENGINEER:

AA26002510

CONSULTANT:

KEY PLAN

SIGNATURE / DATE / SEAL

Víctor H. Rodríguez,

Registered Architect

State of Florida # AR0094965

NOTUS LLC

DDCI Project #: 1615.00

Drawn by: **URB**

Approved by: VHR

SHEET INDEX

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