ONLINE CERTIFICATIONS DIRECTORY

Design No. U465
BXUV.U465
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

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. Unless otherwise noted in the individual assembly, compliance is limited to the construction features investigated. Any modification may affect the continued validity of the listing. Listed fillers, voids or cavities may not be filled with any material that may affect the fire resistance performance of the assembly. Consult the individual manufacturer listed 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.

Design/System/Construction/Assembly Usage Disclaimer

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- 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

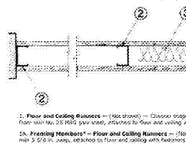
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U465

May 28, 2002

Nonbearing Wall Rating — 1 HR.

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



1. **Floor and Ceiling Runners** — (Not Shown) — Classic shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

2A. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 2 - Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners spaced 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2B. **Framing Members* - Floor and Ceiling Runners** — Not shown - In lieu of Item 2 - For use with Item 2B, proprietary channel shaped runners, 1-3/4 in. deep by min 3-5/8 in. deep fabricated from min 0.027 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Type SUPREME Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

PHILLIPS MFG CO L L C — Viper25™ Track

2C. **Floor and Ceiling Runners** — (Not Shown) - For use with Item 2C, Channel shaped, fabricated from min 25 MSG corrosion-protected or galv steel, 1-3/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced max 24 in. OC.

2D. **Framing Members* — Floor and Ceiling Runners** — Not shown - In lieu of Items 2 through 2C - For use with Item 2D and 4G only, channel shaped, min 3-5/8 in. deep, fabricated from min 0.027 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD-Partition

DMFCWMS L L C — PARTI25

MBA METAL FRAMING — PARTI25

RAM SALES L L C — Ram PARTI25

STEEL STRUCTURAL SYSTEMS L L C — TN-S PARTI25

3A. **Framing Members* — Floor and Ceiling Runners** — Not shown - In lieu of Items 3 through 3B — For use with Item 2B and 4F only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Viper TRACK™

3B. **Framing Members* — Floor and Ceiling Runners** — Not shown - In lieu of Items 3 through 3A, channel shaped runners, 1-3/4 in. deep by min 3-5/8 in. wide, fabricated from min 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

KINGI (HONG KONG) LTD — Type KSI07

3C. **Framing Members* — Steel Studs** — Not shown - In lieu of Items 3 through 3B — For use with Item 2C, channel shaped studs, fabricated from min 25 MSG galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC.

STUDCO BUILDING SYSTEMS — CPACSTUD

3H. **Framing Members* - Steel Studs** — Not shown - In lieu of Item 3, proprietary shaped steel studs, 3-3/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — Viper-H™

3I. **Framing Members* — Steel Studs** — Not shown - In lieu of Item 3 - For use with Item 3, channel shaped studs, fabricated from min 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STUDCO BUILDING SYSTEMS — CPACSTUD

3J. **Framing Members* — Steel Studs** — Not shown - In lieu of Item 3 - For use with Item 3, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PARMSTUD

3L. **Batts and Blankets*** — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

See **Batts and Blankets** (BZJZ) category for names of Classified companies.

3N. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3L — (1)(2)In Batch Formulation) — 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 3.7 lb/ft³. Alternate Application Method: The fiber is applied without water or additives at a nominal dry density of 3.5 lb/ft³, in accordance the application instructions supplied with the product.

U S GREENFIBER L L C — THERMIS & THERMIS for use with wet or dry application. THERMIS and THERMIS and are to be used for dry application only.

3O. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3L and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3L and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Cellar-It!

3D. **Batts and Blankets*** — For use with Item 9, Item X in Wall, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3C. **Batts and Blankets*** — For use with Item 4F, Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BZJW or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board*** — 50% by Thickness Applied to Wood Studs and 100% by Thickness Applied to Steel Studs — Gypsum board panels applied vertically or horizontally. Where applied to steel studs, screws spaced 12 in. OC along edges and intermediate studs. Where applied to wood studs, nails spaced 7 in. OC along edges and 12 in. OC in the field of the board. Joints reinforced and treated in accordance with the applicable manufacturer's instructions. Where applied to wood studs, nails spaced 7 in. OC along edges and 12 in. OC in the field of the board. Joints reinforced and treated in accordance with the applicable manufacturer's instructions.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, AI Glaze

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type GRM-1

CGC INC — Types AR, C, DP-AR, DP-XP, DP-X1, DP-X2, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX).

CERTAINTEED GYPSUM INC — Type E, ExpertRock, Type M, Type X-1, Type C, Sheetrock 509 Base-Line Type X.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC5A, LGFC5AR, LGFC5X, LGFC5XR, LGFC-WD, LGFCX.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 5-R, 5-C, DAP, DS, DSA, DSAFC, DSCS, DSI, DSMIC, DSCS, DSI, GM5SR, GS, , Type X Veneer Plaster Base - Type X, Water Resistant - Type X, Sheathing - Type X, 5/8" - Type X, 5/8-C, Greenglass Type X, Type X Contributed Board Insulating System Board, Type UWX, Veneer Plaster Base Type UWX, Water Resist Type UWX, Sheathing Type-UWX, 5/8"-Type UWX, Type DGS-R, Water Resist-Type DGS-R, Sheathing Type- DGS-R, 5/8"-Type DGS-R, Type UWZX, Veneer Plaster Base - Type UWZX, Water Resist - Type UWZX, Sheathing - Type UWZX, 5/8"C - Type UWZX, Type DGS-ZW, Water Resist - Type DGS-ZW, Sheathing - Type DGS-ZW.

NATIONAL GYPSUM CO — Types 450-C, FSK, FSK-C, FSK-G, FSKM-G, FSKP-C, FSKS-G, FSW, FSW-G, FSW-S, FSW-T, FSW-X, FSW-X, REL.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-S, PG-X5, PG-X8-15, PGS-WR3.

PANEL REY S A — Types GREY, PRO, REY, REX, REY, EEC.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type RX-1

THAI GYPSUM PRODUCTS PCL — Type X, Type C.

UNITED STATES GYPSUM CO — Type AR, C, FRX-C, DP-AR, DP-X1, DP-X2, DP-XP, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, DP-AR, DP-X1, DP-X2, DP-XP, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX).

4A. **Gypsum Board*** — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally or vertically as described in Item 4.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FSKC, Type C

CGC INC — Types C, DP-X2, SHC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-5/8

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, DSC, DS.

THAI GYPSUM PRODUCTS PCL — Type X, Type C.

UNITED STATES GYPSUM CO — Type AR, C, FRX-C, DP-AR, DP-X1, DP-X2, DP-XP, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, DP-AR, DP-X1, DP-X2, DP-XP, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX).

4C. **Gypsum Board*** — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally or vertically as described in Item 4. Panels attached to steel studs and runners spaced a max 6 in. OC, with both joints backed by steel framing. Where applied to wood studs, panels need not be backed by steel framing. Horizontal application with transverse butt joints on opposite sides of studs on interior walls need not be staggered as backed by steel framing.

GEORGIA-PACIFIC GYPSUM L L C — DensGlass Type X

4D. **Gypsum Board*** — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and butt joints on opposite sides of studs need not be staggered or backed by steel framing. Supported by framing spaced 24 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board (item 4B) is to be installed over the Minerals and Fiber Boards. Batts and Blankets, Item 3D, are optional.

HOMASOTE CO — Homasote Type 440-SF

5. **Lead Batten Strips** — (Not Shown, For Use With Item 4D) - Lead batten strips, min 1-1/2 in. clear, max 2-1/2 in. long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S bugle head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.94% meeting the federal specification QQ-L-201f, Grades "A, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4D) and optional at remaining stud locations.

5A. **Lead Batten Strips** — (Not Shown) For use with Item 4D) Lead batten strips, 2 in. wide, max 10 ft long with a max end mass of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S 8 gun head steel screws, one at the top of the strip and one at the bottom of the strip at with one min. 1 in. long min. Type S 8 gun head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the federal specification QQ-L-201f, Grades "A, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4D) and optional at remaining stud locations.

6. **Resilient Channel** — (Optional) — 25 MSG galv steel resilient channels spaced with flanges attached to studs 24 in. OC. Flange portion attached to each stud with one 1-1/4 in. long Type S-12 pan head steel screw. Gypsum board attached to the resilient channels with Type S steel screws spaced 12 in. OC. Screws shall penetrate through the gypsum board to a depth of 3/4 in. min.

6A. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.018 in. thick galv steel. Runners formed from min 0.020 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

TELLING INDUSTRIES L L C — Viper-X™

6B. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.027 in. thick galv steel. Runners formed from min 0.020 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6C. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.033 in. thick galv steel. Runners formed from min 0.027 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6D. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.043 in. thick galv steel. Runners formed from min 0.033 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6E. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.054 in. thick galv steel. Runners formed from min 0.043 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6F. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.068 in. thick galv steel. Runners formed from min 0.054 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6G. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.097 in. thick galv steel. Runners formed from min 0.068 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6H. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.118 in. thick galv steel. Runners formed from min 0.097 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6I. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.138 in. thick galv steel. Runners formed from min 0.118 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6J. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.173 in. thick galv steel. Runners formed from min 0.138 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6K. **Steel Framing Members*** — (Optional, Not Shown) - Steel studs and runners (tracks) spaced 24 in. OC. Studs formed from min 0.230 in. thick galv steel. Runners formed from min 0.173 in. thick galv steel. Studs cut 1/2 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

6L. **Steel Framing Members** — (Optional, Not Shown)* - Framing channels and resilient sound isolation clip as described in Item 6.

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 6. Ends of adjoining channels overlapped 6 in. and secured together with five self-tapping No. 8x1/2 inch Building screws (2 per end, 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Joint tape forming channels shall be attached to studs with RSIC-1 Sound Isolation Clips - Type A339 fastened approximately 6.25 inches each end of channel. Steel flanges bonded to clips alone fastened into channel with screws supplied by the clip, approximately 1/2 in. from joint edge.

b. **Steel Framing Members*** — Resilient sound isolation clip used to attach furring channels (Item 6Da) to studs. Clips spaced 24 in. OC. Web allowed to shift with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels set friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILIENCHANNEL Sound Isolation Clips - Type A339R

7. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick panels for optional use as an additional layer on one or both sides of the assembly. Panels attached as described in and manufacturer's recommendations. Where the UL Classified gypsum board (Item 4B) is to be installed over the Mineral and Fiber Boards, the required UL Classified gypsum board (Item 4B) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, are optional.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type GlasRock GR-5/8

8. **Mineral and Fiber Board*** — (Optional, Not Shown) — For optional use as an additional layer on one side or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs with 1-1/2 in. long Type S steel screws, spaced 12 in. OC along all intermediate framing. The required UL Classified gypsum board (Item 4B) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, are optional.

HOMASOTE CO — Homasote Type 440-SF

9. **Lead Batten Strips** — (Not Shown, For Use With Item 4B) - Lead batten strips, min 1-1/2 in. clear, max 2-1/2 in. long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S bugle head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.94% meeting the federal specification QQ-L-201f, Grades "A, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations. Lead shall be laid in beds of oil or petroleum jelly.

9A. **Lead Batten Strips** — (Not Shown) For use with Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max end mass of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S 8 gun head steel screws, one at the top of the strip and one at the bottom of the strip at with one min. 1 in. long min. Type S 8 gun head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the federal specification QQ-L-201f, Grades "A, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

10. **Lead Discs or Tube** — (Not Shown, For Use With Item 4B) - Lead in the form of an in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or sheet over base layers located at max 1/2 in. for 1 1/4 in. by max 0.125 in. thick lead tube placed on gypsum boards (Item 4B) underneath some locations prior to the installation of the sleeve. Lead discs or tube to have a purity of 99.9% meeting the federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs** — (Not Shown, For Use with Item 4D) Max 3/16 in. discs by max 0.140 in. thick lead disk compression fitted or adhered over base layers. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive** — Not Shown - Min gap with Item 8 - Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of each vertical edge of Minerals and Fiber Board (Item 8).

12. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) - For use with Items 1 to 11, Items 2 to 2I, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour - On one side of the wall, over the first layer of Gypsum Board (Item 4 or Item 4I), metal reinforcing membrane with the weft wire facing outwards. Membrane installed with 750 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. Where particular membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fasteners shall be spaced 24 inches o.c. around the perimeter of the panel and 8 in. OC in the field of the panels. Over the remaining other side of the wall, prior to the installation of the Gypsum Board, metal Resilient Channels as per Item 6. Once the Resilient Channels install with a snug SCANTool press engaged to the Resilient Channels with ground screws and washers spaced at 24 in. OC on the perimeter of the panel and 8 in. OC in the field of the panels. Over the SCANScreen panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC5A, LGFC-C/A

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX

MSI — Reference for maintenance, SCANScreen panel.

*** 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 2019-05-30

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5G05555 R5612(1988)-Fire Resistance Ratings - ANSI/UL 263

Design No. U905
BXUV.U905
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

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 Listed or Classified products, equipment, systems, 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. Unless otherwise noted in the individual assembly, compliance is limited to the construction features investigated. Any modification may affect the continued validity of the listing. Listed fillers, voids or cavities may not be filled with any material that may affect the fire resistance performance of the assembly. Consult the individual manufacturer listed 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

Design No. U905

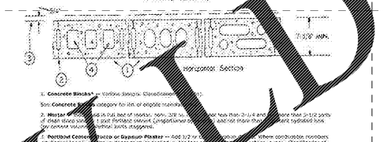
Nov 26, 2015

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load-design method other than the Limit States Design Method (e.g., Working Stress Method). For jurisdictions employing the Limit States Design Method (such as Canada), a load restriction may apply. See Guide S902 or S902.2

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



1. **Concrete Blocks*** — (Not Shown) - Hollow Concrete Blocks (Classification).

2. **Concrete** — Siliceous aggregate for use in all exposed surfaces.

3. **Mortar** — Applied to all bed of blocks, nom. 3/8 in. thick, but not less than 2-1/4 times the nominal face shell thickness of block. Applied to all vertical joints between blocks, nom. 3/8 in. thick, but not less than the nominal face shell thickness of block. Applied to all head joints between blocks. Construction of mortar is Type S or N. Attached to adjacent concrete blocks.

4. **Masonry Fill** — Fill cells and cores of CMU with loam dry pack, expanded clay or shale pebbles with sand and cement, or concrete. Fill cells and cores of CMU with loam dry pack, expanded clay or shale pebbles with sand and cement, or concrete. Fill cells and cores of CMU with concrete having a minimum density of 140 lb/ft³ and a minimum compressive strength of 2000 psi at 28 days.

5. **Reinforcing Steel** — Vertical reinforcing steel, nom. 1/2 in. diam, spaced max 48 in. OC, centered in the cells and cores of the CMU. Horizontal reinforcing steel, nom. 1/2 in. diam, spaced max 48 in. OC, centered in the cells and cores of the CMU.

6. **Roofing Covering** — Asphaltic and/or coal tar pitch built-up roofing, applied in accordance with the applicable manufacturer's instructions.

7. **Insulation** — Polyisocyanurate Foil Faced Insulation, nom. 2-3/8 in. to 2-23/32 in. wide by 276 in. long, friction fitted between the flanges of the steel deck. Insulation secured to steel deck as described in Item 5. Ends of adjoining insulation boards butted together. Insulation boards cut to fit around each column. Insulation boards cut to fit around each column. Insulation boards cut to fit around each column