UL Product iQ™



BXUVV499

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

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

<u>See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States</u>
<u>Design Criteria and Allowable Variances</u>

<u>See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances</u>

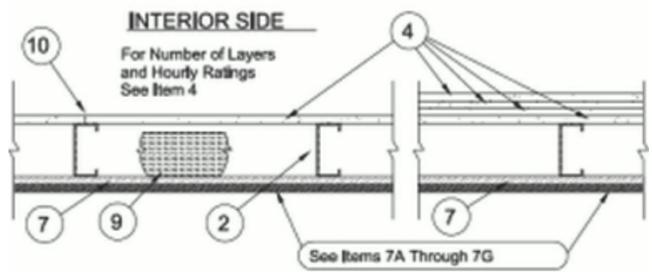
Design No. V499

November 23, 2020

(Exposed to Fire on Interior Face Only)

Bearing and Non-Bearing Wall Ratings — 3/4, 1, 1-1/2 or 2 Hr (See Item 4and 9B)

* 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) Channel shaped, fabricated from min 0.0329 in. thick, bare metal thickness (No. 20 MSG) corrosion-protected steel, that provide a sound structural connection between steel studs and adjacent assemblies such as floors, ceilings and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC.
- 2. **Steel Studs** Min 0.0329 in. thick, bare metal thickness (No. 20 MSG) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. (16 in. OC when Item 7B is used). Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications.
- 2A. **Steel Studs** (For Use With Items 4A, 4B, 4C, and 4D) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners.
- 3. **Lateral Support Members** (Not shown) Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.
- 4. **Gypsum Board*** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. When used in widths other than 48 in., gypsum panels to be installed horizontally. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr, and 2 hr ratings are as follows:

Wallboard Protection on Interior Side of Wall

No. of Layers		
Rating	& Thkns of Panel	% of Design Load
45 Min	1 layer, 5/8 in. thick	100
1 hr	2 layers, 1/2 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
2 hr	2 layers, 3/4 in. thick	100

CGC INC — 1/2 in. thick Type C, IP-X2, IPC-AR, or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX (Joint tape and compound, Item 10, optional for use with Type USGX), WRX or WRC; 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR, or WRC; 5/8 in. thick Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX (Joint tape and compound, Item 10, optional for use with Type USGX), WRX, WRC; 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, ULTRACODE, USGX (Joint tape and compound, Item 10, optional for use with Type USGX)

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR, or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX (Joint tape and compound, Item 10, optional for use with Type USGX), WRX or WRC; 3/4 in. thick AR, IP-AR, IP-X3, ULTRACODE

4A. **Gypsum Board*** — (As an alternate to Item 4 when used as the base layer, For direct attachment only) - Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 2A, 8. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 12) or Lead Discs or Tabs (see Item 13).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board*** — (As an alternate to Item 4 when used as the base layer, For direct attachment only). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

4C. **Gypsum Board*** — (As an alternate to Item 4 when used as the base layer, For direct attachment only). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4D. **Gypsum Board*** — (As an alternate to Item 4 when used as the base layer on one or both sides of wall, For direct attachment only) Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Fasteners for face layer gypsum panels (Items 4) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 5.

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4E. **Gypsum Board*** — (As an alternate to Item 4) — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. **Batts and Blankets*** (Item 9C) required for single layer (45 min) system. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints (when applied horizontally) and horizontal butt joints (when applied vertically) on opposite sides of studs need not be staggered or backed. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. When used in widths other than 48 in., gypsum panels to be installed horizontally. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Wallboard Protection on Interior Side of Wall

Rating	No. of Layers & Thkns of Panel	% of Design Load
45 Min	1 layer, 5/8 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	100
2 hr	3 layers, 5/8 in. thick	100

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX.

4F. **Gypsum Board*** — (As an alternate to Item 4 - For use with Item 9D) — Gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. **Single layer systems:** Type S-12 steel screws 1 in. long for 5/8 in. thick panels, spaced 7 in. OC. **Two layer systems:** First layer - Type S-12 steel screws 1 in. long for 5/8 in. thick panels, spaced 12 in. OC. Second layer - Type S-12 steel screws 1-7/8 in. long for 5/8 in. thick panels, spaced 12 in. OC with screws offset 6 in. from first layer. The thickness and number of layers and percent of design load for the 45 min and 1-1/2 hr are as follows:

Wallboard Protection on Interior Side of Wall

No. of Layers		
	& Thkns	% of
Rating	of Panel	Design Load
45 min	1 layer, 5/8 in. thick	100
1-1/2 hr	2 layers, 5/8 in	100

CGC INC — Type SCX

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

- 4G. **Gypsum Board*** (As an alternate to Item 4. For use with Item 9E) Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. **Single layer systems:** attached to studs with 1-5/8 in. long Type S-12 coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. **Two layer systems:** Inner layer attached to studs with 1-5/8 in. long Type S-12 coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type S-12 coarse thread gypsum panel steel screws spaced 8 in. OC.
- 5. **Fasteners** (Not shown) Type S-12 steel screws used to attach panels to runners (Item 1) and studs (Item 2) or furring channels (Item 8). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

- 6. **Building Paper** (Not shown) No. 15 asphalt felt or equivalent as required.
- 7. **Gypsum Sheathing** For exterior walls, 1/2 or 5/8 in. thick exterior regular gypsum sheathing applied vertically or horizontally, attached to studs and runners with 1 in. long Type S12 steel screws spaced 12 in. OC along studs and runners. One or more of the following exterior facings shall be applied over the gypsum sheathing.

A. **Siding, Brick or Stucco** — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the rating is applicable for exposure on either side. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

B. **Cementitious Backer Units*** — 1/2 or 5/8 in. thick panels, attached to steel studs over gypsum sheathing with 1-5/8 in. long, Type S-12, corrosion resistant, wafer-head steel screws, spaced 8 in. OC. Studs spaced a max of 16 in. OC. Joints covered with glass fiber mesh tape.

UNITED STATES GYPSUM CO — Type DCB

C. **Foamed Plastic*** — Polyisocyanurate foamed plastic insulation boards, any thickness, Classified in accordance with BRYX and / or CCVW. **ATLAS ROOFING CORP** — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci NB", "Xci Ply, "Xci CG NH", "Xci Foil NH"

LAMINATORS INC — Type "Omega ci"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Durasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

D. **Foamed Plastic*** — Aged expanded polystyrene (EPS) board per ASTM C578, with a nom density not less than 1 pcf, R-value 3.8 min per in. with a flame spread of less than 25 and a smoke developed of less than 450, adhered to the gypsum sheathing or to the cementitious backer units with Insulation Board Adhesive. See **Foamed Plastic (BRYX and/or CCVW) Categories** for names of Classified companies or,

ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION — Type ThermalStar

E. **Foamed Plastic*** — Spray applied, foamed plastic insulation, at a minimum of 1 in. thick. **NCFI POLYURETHANES** — NCFI 11-017, NCFI 11-016, NCFI 11-015

- F. **Finishing System** Basecoat min 3/32 in. thick, applied over the gypsum sheathing, cementitious backer units or the insulation, to embed an open-weave fiberglass mesh (mesh weighing not less than 4.5 oz per sq yd, treated for alkaline resistance). Exterior finish min 1/16 in. thick, applied over basecoat Instructions provided with the products shall be consulted regarding limitations on the use of the product.
- G. Foamed Plastic* (As an alternate to Item 7A thru 7F) Spray applied, foamed plastic insulation, at a minimum of 1 in. thick.

 BASF CORP Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US and Walltite® US-N
- H. **Building Units*** Polyisocyanurate composite foamed plastic insulation boards, any thickness, Classified in accordance with BZXX. **HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC** Types "Xci NB" and "Xci Ply"

LAMINATORS INC — Type "Omega ci"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", ECOMAXci FR Ply, "ECOMAXci Ply" attached to studs with min. 2-1/2 in. long Type S screws.

- I. **Foamed Plastic* (CCVW)** Expanded polystyrene insulation installed to a maximum nominal density of 2.0 lb/ft². **BASF CORP STYRENIC FOAMS DIV** Type Neopor "F" Series
- 8. **Furring Channels** (Optional, not shown, for single or double layer systems) Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Type FRX-G gypsum panels and Item 4A or 4B.
- 9. **Foamed Plastic*** Optional- Finished spray polyurethane foam plastic formed from Voracor CE 3019 or Dow 3019 Isocyanate Component (Part A) and Voracor CY 3049 STYROFOAM™ RS 2060 Polyol, or STYROFOAM™ CM 2060 Polyol Resin Component (Part B) maximum thickness of 1-1/2 in., spray-applied in the interior of the steel stud cavities against the gypsum board on the exterior side of the wall.

THE DOW CHEMICAL CO — Types Voracor CE 3019 or Dow 3019 Isocyanate Component (Part A) and Voracor CY 3049 STYROFOAM™ RS 2060 Polyol, or STYROFOAM™ CM 2060 Polyol Resin Component (Part B).

- 9A. **Batts and Blankets*** (Optional) In lieu of Item 9- Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV and/or BZJZ) Categories** for names of Classified companies.
- 9B. Foamed Plastic* (Optional. As an alternate to Item 9) Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

 BASF CORP Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® US, Walltite® US-N, Spraytite® 158, Comfort Foam® 158, and Spraytite® 81205
 - a. For Use in Bearing Walls Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US and Walltite® US-N
 - b. For Use in Non-Bearing Walls Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Spraytite® 158, Comfort Foam® 158, and Spraytite® 81205
- 9C. **Batts and Blankets*** For use with Item 4E. 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 (BKNV or BZJZ) Categories** for names of Classified companies.
- 9D. **Foamed Plastic*** (Optional, As an alternate to Item 9 For use with Item 4F) Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

9E. **Foamed Plastic*** — (Optional, As an alternate to Item 9 - For use with Item 4G) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

CARLISLE SPRAY FOAM INSULATION — SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim, and SealTite Pro One Zero.

- 10. **Joint Tape and Compound** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of interior face layer. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of interior face layer. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.
- 11. **Caulking and Sealants*** (Optional, not shown) A bead of acoustical sealant applied around the partition perimeter on interior side for sound control. **UNITED STATES GYPSUM CO** Type AS
- 12. **Lead Batten Strips** (Not Shown, For use with Item 4A) Lead batten strips, min 1-1/2 in. wide, max 10 ft 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-12 pan 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 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

- 13. **Lead Discs or Tabs** (Not Shown, For use with Item 4A) Used in lieu of or in addition to the lead batten strips (Item 12) or optional at other locations Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
- 14. **Lead Batten Strips** (Not Shown, For Use With Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item or 4B) and optional at remaining stud locations.
- 15. **Lead Tabs** (Not Shown, For Use With Item 4B) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.
- * 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 2020-11-23

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