

50. Gypsum Board* - (As an alternate to Item 5) - For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 4 columns: Rating, Hr, Min Stud Depth, in. Item 2E, No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4)

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR1, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCV, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, FRX-G, IP-AR, IP-X2, IPC-AR, ULX1, 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C, 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V - 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCV, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

SH Gypsum Board* - (Not Shown) - (As an alternate to Item 5) when used as the base layer on one or both sides of wall with 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A. (Not to be used with Item 3) - 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. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC - Type X-Ray Shielded Gypsum

SI Gypsum Board* - (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC - Type ULX

UNITED STATES GYPSUM CO - Type ULX

USG MEXICO S A DE C V - Type ULX

53. Gypsum Board* - (Not Shown) - (As an alternate to Item 5) when used as the base layer on one or both sides of wall with 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A. (Not to be used with Item 3) - 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 5-12 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.

stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 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

51. Gypsum Board* - (Not Shown) - (As an alternate to Item 5) - Nom. 5/8 in. thick 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 edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 4 columns: Rating, Hr, Min Stud Depth, in. Items 2 through 2D, No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4B)

UNITED STATES GYPSUM CO - 5/8 in. thick Type ULX1

6. Fasteners - (Not Shown) - For use with Items 2 and 2F - Type 5 or 5-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). 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 8 in. OC along vertical and bottom edges and 12 in. OC in the field 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., 5/8 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., 5/8 in. thick panels, spaced 24 in. OC. Second layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer - 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 3/4 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer - 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer - 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer - 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 3/4 in. thick panels, spaced 24 in. OC. Fourth layer - 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 3/4 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. 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 5-12 steel screws. Not for use with Item 5A.

7A. Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* - Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

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

7B. Framing Members* - (Optional, Not Shown) - As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

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. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

8. Steel Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below:

KINETICS NOISE CONTROL INC - Type Isomax

7C. Framing Members* - (Not Shown) - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* - Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENECUTPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITIQ INC - Type GENECUTPS

7D. Steel Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - Furring channels and Steel Framing Members as described below:

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 tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* - Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDDO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - Furring channels and Steel Framing Members as described below:

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 7Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5B.

b. Steel Framing Members* - Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPO AMERICA - Type SonoClip

8. Joint Tape and Compound - Vinyl or caulk, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer-layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Sliding, Brick or Stucco - (Optional, Not Shown) - Aluminum, vinyl or steel sliding, brick veneer or stucco meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrosion resistant metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* - (Optional, Not Shown) - A bead of acoustical sealant applied around partition perimeter for sound control. UNITED STATES GYPSUM CO - Type AS

11. Lead Batten Strips - (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 8 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached to the studs with two 1 in. long Type 5-12 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" or "D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

11A. Lead Batten Strips - (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the studs with two min. 1 in. long min. Type 5-8 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 "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. Lead Discs or Tabs - (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) 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. diam by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) 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".

12A. Lead Discs - (Not Shown, For Use With Item 5B) - Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grade "B, C or D".

13. Lead Batten Strips - (Not Shown, For Use With Item 5E) - 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 5-8 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 5-8 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 5E) and optional at remaining stud locations.

14. Lead Tabs - (Not Shown, For Use With Item 5E) - 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 board, Item 5G) will penetrate the 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 2018-03-06

Questions? Print this page Terms of Use Privacy Policy

© 2018 UL LLC

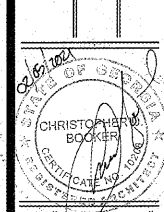
The appearance of a company's name or product in this database does not in any way indicate that the product so identified has been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and Certifications may not be presented in their entirety and in a non-misleading manner, without any manipulation of the content or design. 2. The information reprinted from the Online Certification Directory with permission from UL must appear adjacent to the UL Mark and logo. In addition, the reprinted material must include a copyright notice in the following format: "© 2018 UL LLC."

Order Plans @ WWW.ONLINE.COM

ARCHITECTS
Christopher Booker & Associates, PC
670 BROAD STREET, AUGUSTA, GA 30901 | P: (706) 798-6792 | WWW.CBARCHITECTPC.COM

PROPOSED BUILDING SHELL & DUNKIN' OMNI PC# 362912
APS INVESTMENT, INC.
5303 WRIGHTSBORO ROAD
GROVETOWN, GEORGIA 30813



UL DESIGN (U419) CONTINUED
DRAWN BY: CLB
CHECKED BY:
DATE: FEBRUARY 3, 2021
REVISIONS:
JOB NO.: 2052-A
SHEET NO.: A0.1