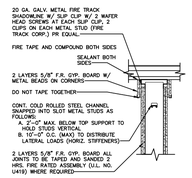
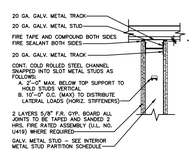
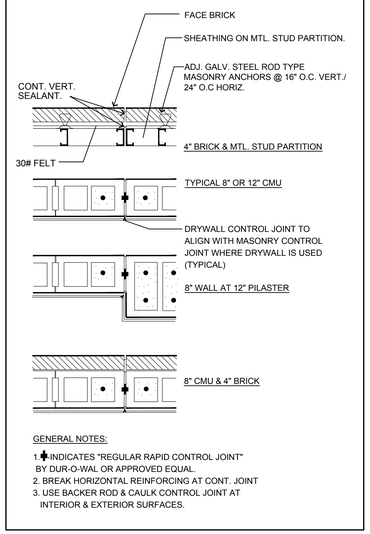


UL HEAD DETAILS



REQUIRED DRAFT STOPPING @ 2-HR. WALLS

MASONRY CONTROL JOINTS

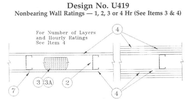


GENERAL NOTES:

1. ✚ INDICATES "REGULAR RAPID CONTROL JOINT" BY DUR-O-WAL OR APPROVED EQUAL.
2. BREAK HORIZONTAL REINFORCING AT CONT. JOINT
3. USE BACKER ROD & CAULK CONTROL JOINT AT INTERIOR & EXTERIOR SURFACES.

Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Min-eral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or RZJZ) Categories** for names of Classified companies.

3A. **Batts and Blankets*** — (Optional) — 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 or RZJZ) Categories** for names of Classified companies.

4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered over 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 need not be staggered. Horizontal butt joints staggered a min of 12 in. 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:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
1	1-5/8	2 layers, 1/2 in. thick	Optional
1	1-5/8	2 layers, 5/8 in. thick	Optional
1	3-1/2	1 layer, 3/4 in. thick	3 in.
1	1-5/8	3 layers, 1/2 in. thick	Optional
1	1-5/8	2 layers, 3/4 in. thick	Optional
1	1-5/8	3 layers, 5/8 in. thick	Optional
1	1-5/8	4 layers, 5/8 in. thick	Optional
1	1-5/8	4 layers, 1/2 in. thick	Optional
1	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHS, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCS, SHS, WRX, IP-X2, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

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, SCS, SHS, WRX, WRC or 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of screws as described in Item 5.
CANADIAN GYPSUM COMPANY — Type FRX.
UNITED STATES GYPSUM CO —Type FRX.

4B. **Gypsum Board*** — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **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 horizon-tally, 6 in. OC. Screws offset min 6 in. from joint between panels on each side of a stud. 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 5/8 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., 5/8 in. thick panels or 2-5/8 in. long for 5/8 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 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

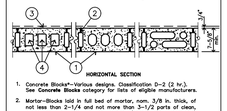
6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer lay-ers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer. Paper tape and joint compound may be omitted when gypsum panels are screw attached. Minimum edge

8. **Siding, Brick Veneer or Stucco** — (Optional, not shown) — Aluminum, vinyl or wood siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. 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.
9. **Caulking and Sealants*** — (Optional, not shown) — A bead of acous-tical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

U. L. Design No. U905

Bearing Wall Rating—2 Hr.
Nonbearing Wall Rating—2 Hr.



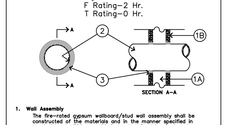
HORIZONTAL SECTION

1. Concrete Blocks*—Various designs. Classification D–2 (2 hr.). See Concrete Blocks category for lists of eligible manufacturers.
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 of clean, sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Stucco or Gypsum Plaster—Add 1/2 hr. to Classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1–1/2 hr. Attached to concrete blocks (Item 1).
4. Loose Masonry Fill—If all core spaces are filled with loose dry expanded slag, burned clay or shale (rotary kiln process), water repellent vermiculite masonry fill insulation, or siliconе treated perlite loose fill insulation, add 2 hr. to Classification.
5. Foamed Plastic*—(Optional—Not Shown)— 1–1/2 in. thick max., 4 ft. wide sheathing attached to concrete blocks (Item 1).
   DOW Chemical—Type Thermax
   SPB Celotex—Type Thermax

*Bearing the UL Classification Marking.

U. L. System No. WL1054

F Rating—2 Hr.
T Rating—0 Hr.



1. **Wall Assembly**
   The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the following and in the manner specified in the individual U300 or U400 Series Wall Partition Designs in this Fire Resistance Directory and shall include the following construction features:
   A. **Studs**
      Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2x4 in. (38x89 mm) wood studs spaced 16 in. OC. Steel studs to be nom. 2-1/2 in. wide cold formed steel, 24 in. OC.
   B. **Wallboard, Gypsum***
      Two layers of 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max. diam. of opening is 12-1/2 in.
2. **Through Penetrants**
   One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. An annular space of min. 1/4 in. to max. 1-1/4 in. is required within the firestop system. The following types and sizes of metallic pipes, conduit or tubing may be used:
   A. **Steel Pipe**
      Nom. 10 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe
   B. **Conduit**
      Nom. 4 in. diam. (or smaller) steel electrical metallic tubing or steel conduit.
   C. **Copper Tubing**
      Nom. 4 in. diam. (or smaller) Type L (or heavier) copper tubing.
   D. **Copper Pipe**
      Nom. 4 in. diam. (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material*—Sealant**
   Min. 1–1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of the wall.
   Hilti Construction Chemicals, Inc.—FS601 Sealant

*Bearing the UL Classification Marking.

INTERIOR METAL STUD PARTITION SCHEDULE

HEIGHT	3 5/8" STUD GYP. BD. BOTH SIDES	6" STUD GYP. BD. BOTH SIDES	3 5/8" STUD CHASE WALL
0' to 10'	25 ga. 24" o.c.	25 ga. 24" o.c.	25 ga. 24" o.c.
10' to 15'	22 ga. 24" o.c.	22 ga. 24" o.c.	25 ga. 24" o.c.
15' TO 18'	20 ga. 16" o.c.	22 ga. 24" o.c.	25 ga. 24" o.c.
18' to 20'	N / A	22 ga. 24" o.c.	25 ga. 16" o.c.

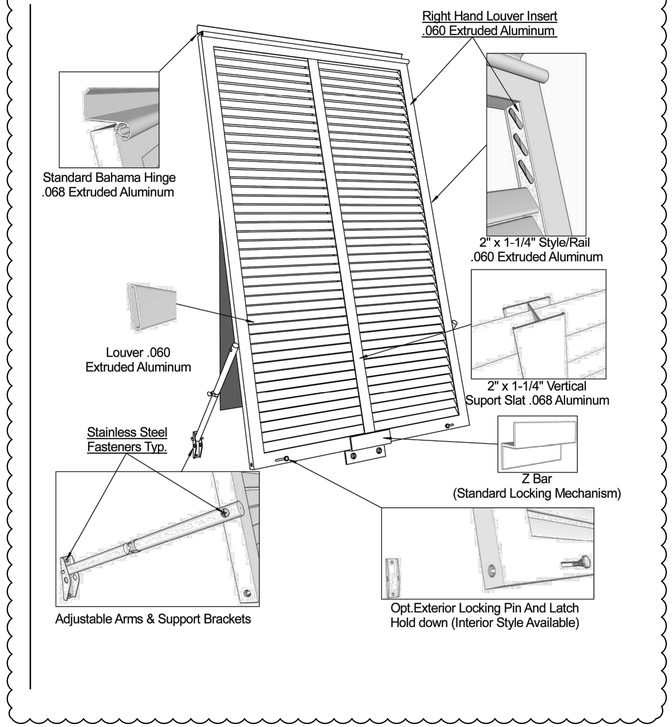
NOTES:
1. THESE GAUGES REPRESENT INTERIOR PARTITIONS ONLY, REFER TO DRAWINGS FOR ADDITIONAL STUD GAUGES.
2. CHASE WALL PARTITIONS SHALL HAVE VERTICAL CROSS BRACES AT 4'-0" O.C. MAX.

PARTITION TYPE SCHEDULE

TYPE	NAME	DESCRIPTION
1	TOILET WALL*	3-5/8" METAL STUDS (25 GA. MIN.) @ 24" O.C. WITH 5/8" GYP. BD. ON OUTSIDE FACE & 5/8" W.R. GYP. BD. ON WET SIDE. WALL SHALL EXTEND FROM FLOOR TO BOTTOM OF STRUCTURE. APPLY FIBERGLASS REINFORCED PANELS WITH APPROPRIATE CORNER, ENDCAP AND ABUTTING JOINT COMPONENTS TO 48" A.F.F. ON ALL INTERIOR FACES OF RESTROOM WALLS. PROVIDE SOUND BATT INSULATION, FULL HEIGHT IN ALL PARTITIONS. PAINT INTERIOR FACE OF ALL RESTROOMS. * NOTE: ALL PLUMBING WALLS SHALL HAVE 6" METAL STUDS.
2	EXTERIOR WALL FURRING	PROVIDE 7/8" "Z" MTL. STUDS @ 24" O.C. W/ 5/8" GYP. BD. ON INT. FACE OF MASONRY WALLS. WALL PREP SHOULD BE PAINT-READY (SANDED, TAPED, & PRIMED WITH A LEVEL 4 FINISH). HEIGHT TO BE 6" ABOVE CEILING.
3	2-HR. RATED WALL	8" MTL STUDS (20 ga.) @ 24" O.C. WITH BATT. INSULATION FILL AND W/ 2 LAYERS TYPE 5/8" "X" FIRECODE GYP. BD. EACH SIDE. WALL SHALL EXTEND FROM FLOOR TO UNDERSIDE OF DECK AND BE SEALED W/ UL-APPROVED CAULK. VERIFY W/ STRUCTURAL DRAWINGS ALL STUD GAGES AND SPACING. SEE REQUIRED DRAFT STOPPING DETAIL. UL DESIGN # U419.
4	1-HR. RATED WALL	6" MTL. STUDS (20 ga.) @ 24" O.C. WITH BATT. INSULATION FILL AND ONE LAYER TYPE 'X' 5/8" GYP. BD. ON EACH SIDE. WALLS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF DECK AND BE SEALED W/ UL-APPROVED CAULK. VERIFY W/ STRUCTURAL DRAWINGS ALL STUD GAGES AND SPACING. UL DESIGN # U419.
5	PARTITION WALL	6" METAL STUDS (25 GA. MIN.) @ 24" O.C. WITH BATT. INSULATION FILL AND WITH 5/8" GYP. BD. WALL SHALL EXTEND FROM FLOOR TO UNDERSIDE OF DECK.

NOTE: ALL GYP. BD. TO BE TAPED, SANDED & PRIMED WITH A LEVEL 4 FINISH.

1



FINISH SCHEDULE

TAG	NAME	MANUFACTURER	PRODUCT	COLOR	TEXTURE	FINISH	APPROXIMATE PMS COLOR	NOTES
A1	FABRIC AWNING	SUNBRELLA	---	BLACK	---	---	---	---
A2	FABRIC AWNING	---	---	BLACK	---	---	---	COORD, W/ TENANT
B1	BRICK	ACME BRICK	MODULAR BRICK	HAMPSTEAD	---	---	---	---
BK1	BRACKET	FYPON (OR EQ.)	BKT30X30 (OR EQ.)	#102 BRITE WHITE	---	---	---	MATCH DRYVIT #102 BRITE WHITE
BK2	BRACKET	---	---	BLACK	---	---	---	MATCH BERRIDGE MATTE BLACK
BM1	MORTAR	ACME BRICK	MASONRY CEMENT MORTAR	IRON BLACK	---	---	---	---
BS1	BAHAMA SHUTTER	---	---	GULL GRAY	---	---	---	MATCH DRYVIT #131 GULL GRAY
COP1	ALUMINUM COPING	---	PRE-FINISHED ALUM.	BRITE WHITE	---	---	---	MATCH DRYVIT #102 BRITE WHITE
COP2	ALUMINUM COPING	---	PRE-FINISHED ALUM.	IRON ORE	---	---	---	MATCH SHERWIN-WILLIAMS SW7069 IRON ORE
DS1	DOWNSPOUT	---	6" PLAIN RECTANGULAR	BRITE WHITE	---	---	---	MATCH DRYVIT #102 BRITE WHITE
DS4	DOWNSPOUT	---	6" PLAIN RECTANGULAR	GULL GRAY	---	---	---	MATCH SHERWIN-WILLIAMS SW 7019 GULL GRAY
DS6	DOWNSPOUT	---	4" Ø METAL DOWNSPOUT	IRON ORE	---	---	---	PRE-FINISHED; MATCH SHERWIN-WILLIAMS SW7069 IRON ORE
E1	EIFS	DRYVIT	---	#102 BRITE WHITE	FREESTYLE	---	---	---
E2	EIFS	DRYVIT	---	#131 GULL GRAY	FREESTYLE	---	---	---
E3	EIFS	DRYVIT	---	#715 LICORICE	FREESTYLE	---	---	18" O.C. VERT. SCORE LINES
E4	EIFS	DRYVIT	---	GULL GRAY	FREESTYLE	---	---	MATCH SHERWIN-WILLIAMS SW 7019 GULL GRAY
F6	METAL FENCE	---	---	IRON ORE	---	---	---	ELECTRO STATIC PAINT; MATCH SHERWIN-WILLIAMS SW7069 IRON ORE
G6	GUTTER	---	6" HALF-ROUND PRE-FIN. MTL. GUTTER	IRON ORE	---	---	---	PRE-FINISHED; MATCH SHERWIN-WILLIAMS SW7069 IRON ORE
P1	ELASTOMERIC PAINT	---	---	BRITE WHITE	---	---	---	MATCH DRYVIT #102 BRITE WHITE
P2	ELASTOMERIC PAINT	---	---	BOOTHBAY BLUE	---	---	---	MATCH HARDIE BOOTHBAY BLUE
P4	ELASTOMERIC PAINT	SHERWIN-WILLIAMS (OR EQ.)	---	SW 7019 GULL GRAY	---	---	---	MATCH SHERWIN-WILLIAMS SW 7019 GULL GRAY
P6	ELASTOMERIC PAINT	---	---	SW 7069 IRON ORE	---	---	---	MATCH SHERWIN-WILLIAMS SW7069 IRON ORE
R1	STANDING SEAM METAL ROOF	BERRIDGE	---	MATTE BLACK	---	---	---	---
SC2	CLAPBOARD SIDING	HARDIE (OR EQ.)	HARDIEPLANK LAP SIDING	BOOTHBAY BLUE	---	---	---	HARDIE FACTORY COLOR; 9-1/4" WIDE (8" EXPOSURE)
SC4	CLAPBOARD SIDING	HARDIE (OR EQ.)	HARDIEPLANK LAP SIDING	GULL GRAY	---	---	---	MATCH SHERWIN-WILLIAMS SW 7019 GAUNTLET GRAY; 9-1/4" WIDE (8" EXPOSURE)
SC5	CLAPBOARD SIDING	HARDIE (OR EQ.)	HARDIEPLANK LAP SIDING	SUNDANCE	---	---	---	MATCH SHERWIN-WILLIAMS SW 6897 SUNDANCE; 9-1/4" WIDE (8" EXPOSURE)
SF1	STOREFRONT FRAME	KAWNEER	---	CLEAR	---	ANODIZED	---	HURRICANE RATED, SEE SPECS.
SFG1	STOREFRONT GLASS	---	---	CLEAR	CLEAR	---	---	HURRICANE RATED, SEE SPECS.
TB1	TRIM BOARD	HARDIE (OR EQ.)	---	BRITE WHITE	---	---	---	MATCH DRYVIT #102 BRITE WHITE
TB3	TRIM BOARD	HARDIE (OR EQ.)	---	LICORICE	---	---	---	MATCH DRYVIT #715 LICORICE
TB6	TRIM BOARD	HARDIE (OR EQ.)	---	IRON ORE	---	---	---	MATCH SHERWIN-WILLIAMS SW7069 IRON ORE

CNNA ARCHITECTS

ARCHITECTS

CNNA ARCHITECTS, INC.

21 BLUFFTON ROAD

BLUFFTON, SC, 29910

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Checked By:

Scale: AS NOTED

Not Released for Construction ☐

Released for Construction ☒

Sheet Title:

FINISH & PARTITION SCHEDULE

Sheet No.

A7.1