

Design No. U419 Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 3 & 4)

 Floor and Ceiling Runners — (Not shown) — For use with Item 2 -Channel shaped, fabricated from min 25 MSG corrosion-protected stee. min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Floor and Ceiling Runners\* — Not shown – In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. wide with 1 in. long legs, fabricated from min. 0.0150 in. (0.0146 in., min bare metal thickness) galvanized steel, attached to floor and ceiling with fas-

teners 24 in. OC max.
DIETRICH INDUSTRIES INC —UltraSTEEL®. 1B. Floor and Ceiling Runners — (Not shown – In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-9/16 in. wide with 1-3/16 in. wide flanges, fabricated from min. 0.0150 in. galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max.
DIETRICH INDUSTRIES INC —UltraSTEEL®. Steel Studs — Channel shaped, fabricated from min 25 MSG

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.

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A. Steel Studs\* - In lieu of Item 2 - Proprietary channel shaped studs, min. width as indicated under Item 4, min. 1-1/4 in. long legs and 1/4 in, long folded back return flange legs, tabricated from min. 0.0155 in. (0.0149 in., min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attach-

ment of gypsum board only. DIETRICH INDUSTRIES INC -UltraSTEEL®. 3. Batts and Blankets\* — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

A. 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 BZJZ) Categories for names of Classified com-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 need not be staggered. 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: Wallboard Protection on Each Side of Wall

Min	Min	No. of	Min
Stud	Stud	Layers	Thkns of
Depth,	Depth,	& Thkns	Insulation
Item 2	Item 2A	of Panel	(Item 3)
3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
1-5/8	2-1/2	2 layers, 1/2 in, thick	Optional
1-5/8	2-1/2	2 layers, 5/8 in, thick	Optional
3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
1-5/8	2-1/2	2 layers, 3/4 in, thick	Optional
1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 5/8 in, thick	Optional
1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
2-1/2	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, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE 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,

C-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or When Item 6B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of sulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as escribed in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 n. thick) attached to opposite side of stud without furring channels as 4A. Gypsum Board\* — (As an alternate to Item 4) — 5/8 in. thick, 24 to

54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. CANADIAN GYPSUM COMPANY - Type SHX. UNITED STATES GYPSUM CO-Type FRX-G, SHX. USG MEXICO S A DE C V —Type SHX.

5. Fasteners — (Not shown) — For use with Item 2 - 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

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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 5/8 in. thick panels, spaced 12 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, space 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 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 eners — (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2). 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. hick panels, spaced 8-1/2 in. OC with additional screws 1 in. and /2 in. from edges of the board when panels are 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 applied vertically**: First layer- T 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. Two layer systems applied horizontally: 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 starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. 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 starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board 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 12 in. OC. Screws offset min 6

in, from layer below. For all layers, an additional screw shall be placed 1-1/4 in, from each edge of the board. Four-layer systems: First layerin. 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. Second layer-2-1/4 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 or 2-5/8 in. long for 5/8 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. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. 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.

6A. Steel Framing Members (Not Shown)\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate

 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 b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Aa) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channel

to Item 6, furring channels and Steel Framing Members as described

are friction fitted into clips.

PAC INTERNATIONAL INC —Type RSIC-1.

6B. Steel Framing Members (Optional, Not Shown)\* — As an alternate to Item 6, 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 b. Batts and Blankets placed in stud cavity as described in Item 4. Two layers of gypsum board attached to fur ring channels as described in Item 4. Not for use with Item 4A. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

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KINETICS NOISE CONTROL INC — Type Isomax 7. Joint Tape and Compound - Vinyl or casein, 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. . Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel 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 acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS \*Bearing the UL Classification Mark

WALL TYPES

EXISTING WALL

**INTERIOR PARTITION** 

5/8" CEMENTITIOUS BACKER

20 GA. MTL. STUD ANGLE BRACING

STUDS AND SHEATHING TO DECK

ON EXPOSED SIDE(S) OF WALL

- 5/8" PLYWOOD TO 41 1/2" AFF

BACKER BD. TO 1'-4" AFF

- 5/8" GYP. BD.

PUBLIC SIDE

5/8" PLYWOOD

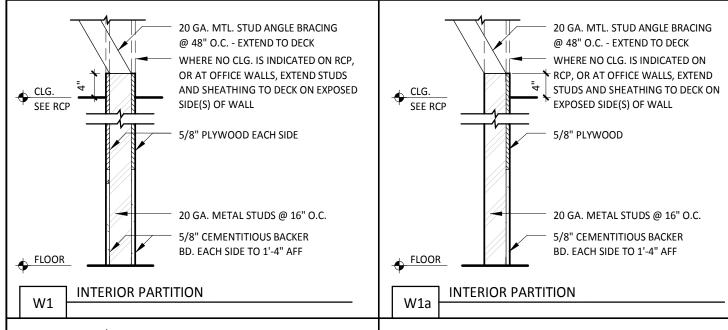
5/8" CEMENTITIOUS

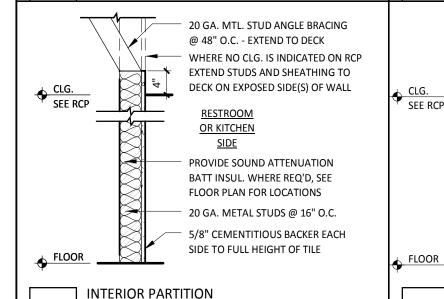
@ 48" O.C. - EXTEND TO DECK

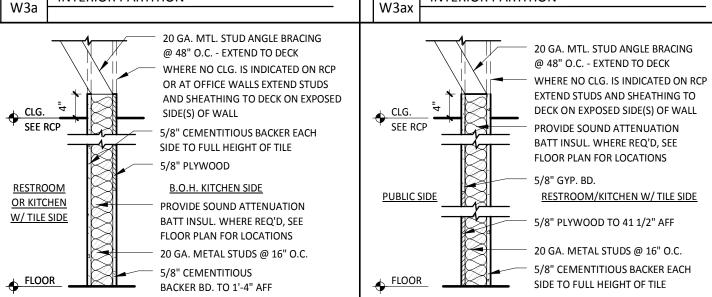
TO FULL HEIGHT OF TILE

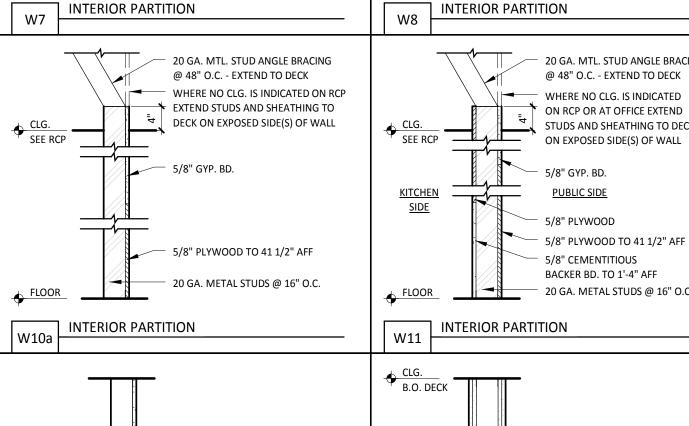
. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES

3. REFER TO A120 FOR ALL WALL FINISHES









EXISTING GYP. BD.

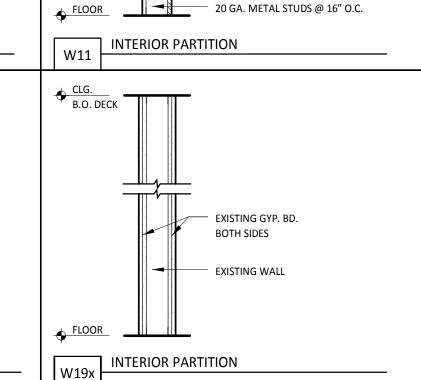
EXISTING WALL

INTERIOR PARTITION

FLOOR

24 GAUGE GALVANIZED

METAL TO 41 1/2" AFF



GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A115 FOR METAL STUD SIZE.

## STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

- 1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
- 2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
- BOTTOM TRACK TO BE SAME GAUGE AS STUD.
- TOP TRACK TO BE ONE GAUGE HIGHER.

## PARTITION NOTES

- 1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
- ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE
- ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
- FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE
- ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS
- WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
- THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
- A. STEEL STUDS TO STEEL STUDS OR TRACKS:

TYPICAL FASTENER:

- 20 GAUGE #8 18 X 1/2" TEKS WITH PHILIPS PAN HEAD MIN. 2 PER CONNECTION 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION
- B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS: • #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END
- C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.O.N.

## D. PLYWOOD TO STEEL STUDS:

- #10 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD 24" O.C. FILED, 12" O.C. PERIMETER
- E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYPSUM BOARD TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.
- F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER. 1" MIN. LENGTH. 2 ROWS AT 16" O.0

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Architectural Wall Types

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