I	1 2 3	4	5 6
	System No. BW–S–0001		Design No. U419
NI	June 12, 2003		May 20, 2010 Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Ite
IN	Assembly Ratings — 1 and 2 Hr (See Item 2) L Rating at Ambient — Less than 1 CFM/Lin Ft		
	L Rating at 400° F — Less than 1 CFM/Lin Ft Joint Width — 3/4 In. Max	(4) $(4A)$	
	(2B)		
Μ			
		8	5
	3		1. Elsen and Cailing Dunnang (Matakaum)
L			Item 2 – Channel shaped, fabricated from min 25 corrosion-protected steel, min depth to accommo
			with min $1-1/4$ in. long legs, attached to floor and fasteners 24 in. OC max.
			1A. Framing Members* - Floor and Ceiling Run shown - In lieu of Item 1 - For use with Item 2A,
			channel shaped, min. $3-5/8$ in. deep, fabricated fr in. (min bare metal thickness) galvanized steel, att
	1. Floor Assembly — Min 4–1/2 in. thick reinforced lightweight		and ceiling with fasteners 24 in. OC max. Effective 0.034 in.
K	or normal weight (100-150 pcf) structural concrete. Floor may also be constructed of any 6 in. thick UL Classified hollow-core		CLARKWESTERN BUILDING SYSTEMS INC — Ultra
	See Precast Concrete Units category in the Fire		1B. Framing Members* – Floor and Ceiling Runr
	Resistance Directory for names of manufactures.		shown – In lieu of Item 1) — For use with Item 2A, channel shaped, min. $2-1/2$ in. deep, fabricated fr
	board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or		in. (min bare metal thickness) galvanized steel, att and ceiling fasteners 24 in. OC. max. Effective thic in.
J	V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall		CLARKWESTERN BUILDING SYSTEMS INC — Ultra
	Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:		DIETRICH INDUSTRIES INC — UltraSTEEL®.
	A. Steel Floor Runner — Floor runners of wall assembly		1C. Framing Members* – Floor and Ceiling Run shown – In lieu of Item 1 – For use with Item 2C,
	accommodate steel studs (Item 2B). Floor runners to be provided with min $1-1/4$ in. flanges. Runners secured with steel fasteners		ceiling with fasteners 24 in. OC max.
н	spaced 12 in. OC.		
••	cut 1/2 to 3/4 in. less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with		MARINO\WARE A DIV OF WARE INDUSTRIES
	sheet metal screws. Stud spacing not to exceed 24 in. OC.		INC — Viper25™ Track
	total thickness of $5/8$ or $1-1/4$ in. on each side of wall for a 1 or 2 hr rated wall, respectively. Wall to be constructed as specified in		1D. Framing Members* - Floor and Ceiling Run shown - In lieu of Item 1 — For use with Item 2D,
	the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. gap shall be		channel shaped runners, $1-1/4$ in. wide by $3-5/8$ fabricated from min 0.020 in. thick galv steel, atta
G	concrete floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.		MARINO\WARE A DIV OF WARE INDUSTRIES
	3. Fill, Void or Cavity Material* Sealant — Max separation		INC — Viper20S™ Track, Viper20D™ Track
	and 2 hr rated wall assemblies, min $5/8$ in. or $1-1/4$ in. thickness of fill material, respectively, installed on each side of the wall		1E. Framing Members*— Floor and Ceiling Run shown) — In lieu of Item 1 - Channel shaped, attac
	between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall.		and ceiling with fasteners 24 in. OC. max.
F	HILTI CONSTRUCTION CHEMICALS, DIV OF		System
	HILTI INC — CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant or FS-ONE Sealant		CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Frar
			QUAIL RUN BUILDING MATERIALS INC — Type SI
			SCAFCO STEEL STUD MANUFACTURING CO — T
F			Framing System
-			System
			UNITED METAL PRODUCTS INC — Type SUPREM System
			1F. Floor and Ceiling Runners — (Not shown)—I Item 2B- Channel shaped, fabricated from min 20
			stud size, with min 1 in. long legs, attached to flow with fasteners spaced max 24 in. OC.
D			1G. Framing Members*— Floor and Ceiling Run
			shown, As an alternate to Item 1) — For use with f or 5G only, channel shaped, fabricated from min. (bare metal thickness) galvanized steel, attached to
			CLARKWESTERN RUU DING SYSTEMS INC.
			DIETRICH INDUSTRIES INC - DIETRICH ProTRAK
С			DMFCWBS L L C — ProTRAK
			TELLING INDUSTRIES L L C — TRUE-TRACK™
			1H. Framing Members* – Floor and Ceiling Run shown – In lieu of Item 1 — For use with Item 2G, channel shaped runners, minimum width to accom
			size, with $1 - 1/8$ in. long legs fabricated from min bare metal thickness) galv steel, attached to floor
В			Tasteners spaced 24 in. OC max.
-			
Α			
	AI SISIEIVI INU. DVV-S-UUUI	A4	DESIGIN INC. 419
ļ	1 2 3	<u> </u>	5 6

	7 8	9	10	11	12
	2. Steel Studs — Channel shaped, fabricated fro corrosion-protected steel, min depth as indicated	om min 25 MSG under Item 5.	Gypsum Board Protection of	on Each Side of Wall	5F. Gypsum Board* – with Items 1G and 2F ar
ems 4 & 5)	spaced a max of 24 in. OC. Studs to be cut 3/8 to than assembly height.	3/4 in. less			panels with beveled, squ
	2A. Framing Members* – Steel Studs — In lieu	of Item 2 –	Rating, Hr Min Stud		spaced 8 in. OC along vertical joints
	Proprietary channel shaped studs, min. depth as i	ndicated under	Depth, in. Items 2, 2D, 2E, and 2C.	Min	stud cavity on opposite
	galvanized steel, spaced a max of 24 in. OC. Stud	s to be cut 3/4	Stud		LINITED STATES CYPS
na (kalender for an de la calender de la calender for anti- na julio de la calender (la calender de la calender for anti- na (kalender for al calender de la calender for anti-	the table below. For direct attachment of gypsum	board only.	Item 2A No. of		5C Cynsum Board* -
ł			& Thkns		with Items 1G and 2F or
			Thkns of		the table below and fast
	DIETRICH INDUSTRIES INC — UITASTEEL*.	r	(Item 4)		cavity on opposite sides
5	5B & 5E) Channel shaped, fabricated from min 20	MSG	$1 \ 3-1/2 \ 3-5/8$ $1 \ 2-1/2 \ 3-5/8$	1 layer, $\frac{5}{8}$ in. thick Optional 1 layer, $\frac{1}{2}$ in. thick $\frac{1-1}{2}$ in.	(multilayer systems) stag
	max of 16 in. OC. Studs friction-fit into floor and	ceiling runners.	2 1-5/8 3-5/8 2 1-5/8 2-1/2	2 layers, 1/2 in. thick Optional	staggered. Horizontal ed
For uso with	C. Framing Members* Steel Stude (As an	neigni.	2 1-5/8 2-1/2 2 3-1/2 3-5/8	1 layer, 3/4 in. thick 3 in.	adjacent layers (multilay thickness and number o
MSG	2, For use with Item 5C) – Proprietary channel sha	ped studs,	3 1-5/8 2-1/2 3 1-5/8 2-1/2	2 layers, 3/4 in. thick Optional	are as follows: Gypsum Board Protec
d ceiling with	less than the assembly height and installed with a	½ in. gap	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 layers, 5/8 in. thick Optional	Rating,
nors Not	For direct attachment of gypsum board only.	on of the wan.	4 1-5/8 2-1/2 4 2-1/2 2-1/2	2 layers, 3/4 in. thick 2 in.	Hr Min Stud Depth, in.
proprietary	CALIFORNIA EXPANDED METAL PRODUCTS CO	— ViperStud ™	CANADIAN GYPSUM COMP	ANY $- 1/2$ in. thick Type C, IP-X2	& Thickness
ached to floor	CRACO MFG INC — SmartStud™		IPC-AR, SCX, SHX, WRX or WR	C; 3/4 in. thick Types IP-X3 or	of Panel Min Thkns o Insulation
	MARINO\WARE A DIV OF WARE INDUSTRIES			0 = 1/2 in thick Type C ID V2	(Item 4) 2 1–5/8 2 laye
STEEL®	INC — Viper25™		IPC-AR or WRC; 5/8 in. thick	Type SCX, SHX, WRX, IP-X1, AR, C, AR = 2/4 in thick Type SCX, SHX, WRX, IP-X1, AR, C,	2 1-5/8 2 layer 3 1-5/8 3 layer
	2D. Framing Members* - Metal Studs — Not sh Item 2 — For use with Item 1D, proprietany chann	own – In lieu of	WRC, FRX-G, IP-AR, IP-X2, IP ULTRACODE	C-AR ; 3/4 In. thick Types IP-X3 or	3 1–5/8 3 layer 4 1–5/8 4 laye
iers — (Not	studs, min depth as indicated under Item 5, space	ed a max if 24	USG MEXICO S A DE C V —	1/2 in. thick Type C, IP-X2, IPC-AR	4 1–5/8 4 laye
rom min. 0.015	3/8 in. to 3/4 in. less in lengths than assembly he	eights.	SCX, SHX, WRX, WRC or; 3/4	in. thick Types IP-X3 or ULTRACODE	CANADIAN GYPSUM C or IPC-AR;, 5/8 in. thick
ckness is 0.034	MARINO\WARE A DIV OF WARE INDUSTRIES		When Item 7B, Steel Framin	ng Members*, is used, Nonbearing	SCX, SHX, or; 3/4 in. thi
.стгг ®	INC — Viper20S™, Viper20D™		thickness of insulation (Item	4) is 3 in., and two layers of gypsum	UNITED STATES GYPS IPC-AR or; 5/8 in. thick
ISTEEL"	2E. Framing Members*— Steel Studs — In lieu (of Item 2 – For	channels as described in Item	n. thick) shall be attached to furring n 6. One layer of gypsum board	IP-AR, IP-X2, IPC-AR ; 3
nor Not	under Item 5, spaced a max of 24 in. OC. Studs to	be cut 3/4 in.	panels (1/2 in. or 5/8 in. thic without furring channels as d	k) attached to opposite side of stud lescribed in Item 6.	USG MEXICO S A DE C or; 5/8 in. thick Type AF
proprietary	ALLISTEEL & CYPSIIM PRODUCTS INC - Type SI	IPREME Framing	5A. Gypsum Board* — (As	an alternate to Item 5) — 5/8 in.	SHX, or; 3/4 in. thick Ty
to noor and	System		thick, 24 to 54 in. wide, appl one side of the assembly. Sec	ied horizontally as the outer layer to cured as described in Item 6.	6. Fasteners — (Not s Type S or S–12 steel scr
– ViperTrack™	CONSOLIDATED FABRICATORS CORP,		CANADIAN GYPSUM COMP	ANY — Type SHX.	2) or furring channels (I for 1/2 and 5/8 in. thicl
	BUILDING PRODUCTS DIV — Type SUPREME Fra	ming System	UNITED STATES GYPSUM C	O — Type FRX-G, SHX.	thick panels, spaced 8 i horizontally, or 8 in. OC
	QUAIL RUN BUILDING MATERIALS INC — Type S Framing System	UPREME	USG MEXICO S A DE C V —	Type SHX.	in. OC in the field when systems: First layer- 1 in
	SCAFCO STEEL STUD MANUFACTURING CO — T	vpe SUPREME	5B. Gypsum Board* — (Not when used as the base laver o	: Shown) – As an alternate to Item 5 on one or both sides of wall when	1–1/4 in. long for 3/4 in layer– 1–5/8 in. long fo
ner — Not	Framing System	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5/8 in or ¾ in. thick products only to steel study Item 2B. (r	are specified. For direct attachment	long for 3/4 in. thick pa 8 in. from first layer.Thr
in. deep	STEEL CONSTRUCTION SYSTEMS INC — Type SU System	IPREME Framing	5/8 in. or ¾ in. may be used a shown in Item 5. Wallboard P	as alternate to all $5/8$ in. or $\frac{3}{4}$ in.	for 1/2 in., 5/8 in. thick 1–5/8 in. long for 1/2 in
	UNITED METAL PRODUCTS INC — Type SUPREM	E Framing	Nom 5/8 in. or ¾ in. thick lea	d backed gypsum panels with lges, applied vertically. Vertical	Third layer- 2-1/4 in. lo 2-5/8 in. long for 5/8 i
	System		joints centered over studs an opposite sides of studs. Gyps	d staggered min 1 stud cavity on um board secured to 20 MSG steel	offset min 6 in. from lay 1 in. long for 1/2 in., 5/
	2F. Framing Members*— Steel Studs — (Not sh alternate to Item 2) —For use with Item 1G and 5F	own, As an ^F or 5G only,	studs Item 2B with $1-1/4$ in. 8 in. OC at perimeter and 12	long Type S–12 steel screws spaced in. OC in the field. To be used with	Second layer- 1-5/8 in. spaced 24 in. OC. Third
ners — (Not ched to floor	channel shaped studs, min depth as indicated und fabricated from min. 0.015 in. (min bare metal th	der Item 5F, ckness)	Lead Batten Strips (see Item 1 12).	1) or Lead Discs or Tabs (see Item	panels or 2–5/8 in. long OC. Fourth laver- 2–5/8
	galvanized steel, spaced a max of 24 in. OC. Stud in. less than assembly height.	s to be cut 3/4	RAY-BAR ENGINEERING CO	RP — Type RB-LBG	long for 5/8 in. thick pa 6 in. from layer below.
PREME Framing	CLARKWESTERN BUILDING SYSTEMS INC — CW	ProSTUD	5C. Gypsum Board* — (For	Use With Item 2C) Rating Limited to	6A. Fasteners — (Not
	DIETRICH INDUSTRIES INC — DIETRICH ProSTUI)	1 Hour. 5/8 in. thick, 48 in. w square or tapered edges, app	ride, Gypsum panels with beveled, lied vertically or horizontally.	or S–12 steel screws use Single laver systems: 1 i
ning System	DMFCWBS L L C — ProSTUD		(Vertical Application) – The gy each side of the studs with 1	ypsum board is to be installed on in. long Type S coated steel screws	or 1-1/4 in. long for 3/ with additional screws 1
UPREME	TELLING INDUSTRIES L L C — TRUE-STUD		spaced 8 in. OC starting 4 in. vertical edges and 12 in. OC s	from the edge of the board at the starting 6 in, from the edge of the	board when panels are I bottom edges and 12 in
	2G. Framing Members* - Metal Studs — Not shov	vn – In lieu of	board at the center of each bo	pard. Gypsum boards are to be n track with screws spaced 8 in. OC	vertically. Two layer sys
ype SUPREME	Item 2 — For use with Item 1H, proprietary chann studs, minimum width indicated under Item 5, 1-	el shaped steel 1/4 in. deep	starting 4 in. from the board	edge. Fasteners shall not penetrate e track at the same time. Vertical	thick panels, spaced 16
PREME Framing	fabricated from min 0.015 in. (min bare metal thi galvanized steel. Studs 3/8 in. to 3/4 in. less in le	ckness) engths than	joints are to be centered over cavity on opposite sides of st	studs and staggered one stud	panels, spaced 16 in. Of Two layer systems appli
	assembly heights.		gypsum board is to be installed	ed on each side of the studs with 1 crews spaced 8 in, OC starting 4 in.	1/2 and 5/8 in. thick pa
E Framing	SUPER STUD BUILDING PRODUCTS — The Edge		from the edge of the board at starting 6 in from the edge of	t the vertical edges and 12 in. OC	board with an additiona
For use with	3. Wood Structural Panel Sheathing — (Optional, I 5 Only.)– (Not Shown) – 4 ft wide, 7/16 in. thick o	For use with Item priented strand	board. Gypsum boards are to	be secured to the top and bottom	thick panels or $2-1/4$ in
MSG commodate	board (OSB) or 15/32 in. thick structural 1 sheath complying with DOC PS1 or PS2, or APA Standard	ing (plywood) PRP-108,	edge. Fasteners shall not pen the track at the same time. Al	etrate through both the stud and	additional screw placed
or and ceiling	manufactured with exterior glue, applied horizon to the steel studs. Vertical joints centered on stud	tally or vertically ls, and	as outlined under section VI o	of Volume 1 in the Fire Resistive	layer – 1 in. long for 1/2
ners — (Not	staggered one stud space from wallboard joints. studs with flat-head self-drilling tapping screws	Attached to with a min. head	CANADIAN GYPSUM COMP	ANY — Type SCX.	spaced 24 in. OC. Third
tem 2F and 5F 0.015 in. (min	diam. of 0.292 in. at maximum 6 in. OC. in the p in. OC. in the field. When used, fastener lengths f	erimeter and 12 or gypsum	UNITED STATES GYPSUM C	0 — Type SCX.	in. OC. Screws offset mi
floor and	panels increased by min. 1/2 in.		USG MEXICO S A DE C V —	Type SCX.	board. Four-layer system
ProTRAK	4. Batts and Blankets* — (Required as indicate — Mineral wool batts, friction fitted between stud	d under Item 5) Is and runners.	5D. Gypsum Board* — (As	an alternate to Item 5) — 5/8 in.	for $1/2$ in., $5/8$ in. thick
< compared with the second sec	Min nom thickness as indicated under Item 5. See Blankets (BKNV or BZJZ) Categories for names of	e Batts and Classified	thick, 48 in. wide, applied ver described in Item 6. For use v	tically or horizontally. Secured as vith Items 1 and 2 only.	in. thick panels, spaced
	companies.		UNITED STATES GYPSUM C	О — Туре USGX.	spaced 12 in. OC. Screw
	4A. Batts and Blankets* — (Optional) — Placed any glass fiber or mineral wool insulation bearing	in stud cavities, 1 the UL	5E. Gypsum Board* — (Not	Shown) – (As an alternate to Item 5	edge of the board.
ner — Not	Classification Marking as to Surface Burning Char and/or Fire Resistance. See Batts and Blankets (Bl	acteristics (NV or BZJZ)	when used as the base layer of 1/2 in. or 5/8 in thick produc	on one or both sides of wall when ts are specified, For direct	7C. Framing Members* -
nmodate stud	Categories for names of Classified companies.	- ·	attachment only to steel stud 3). Nominal 5/8 in. thick lead	s Item 2B, not to be used with Item backed gypsum panels with	attached at each intersed stude (Item 2). Positiont
and ceiling with	5. Gypsum Board* — Gypsum panels with beve tapered edges, applied vertically or horizontally.	eled, square or Vertical joints	beveled, square or tapered ec joints centered over studs an	lges, applied vertically. Vertical d staggered min 1 stud cavity on	then clips are secured to S-12 steel scrows throws
	centered over studs and staggered one stud cavit sides of studs. Vertical joints in adiacent lavers (r	y on opposite nultilayer	opposite sides of studs. Wallt in. long Type S–12 (or No. 6 k	board secured to studs with 1-1/4 by 1-1/4 in. long bugle head fine	resilient channel flange.
	systems) staggered one stud cavity. Horizontal jo backed by steel framing, Horizontal edge joints a	ints need not be nd horizontal	driller) steel screws spaced 8 the field.	in. OC at perimeter and 12 in. OC in	KEENE BUILDING PRODUC
	butt joints on opposite sides of studs need not b Horizontal edge joints and horizontal butt joints	e staggered. in adjacent	NEW ENGLAND LEAD BURN	ING CO INC, DBA	
	lavers (multilaver systems) staggered a min of 12	in. The			

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NELCO — Nelco

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thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr

ratings are as follows:

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. Gypsum Board* — (As an alternate to Item 5) — For use Items 1G and 2F and limited to 1 Hour Rating only, Gypsum els with beveled, square or tapered edges, applied vertically, fastened to the steel studs with 1 in. long Type S screws ced 8 in. OC along vertical and bottom edges and 12 in. OC in field. Vertical joints centered over studs and staggered one I cavity on opposite sides of studs. Steel stud depth shall be a mum 3–5/8 in.

NITED STATES GYPSUM CO - 5/8 in. thick Type SCX.

. Gypsum Board* — (As an alternate to Item 5) — For use Items 1G and 2F only, Gypsum panels with beveled, square pered edges, applied vertically or horizontally, as specified in able below and fastened to the steel studs as described in n 6. Vertical joints centered over studs and staggered one stud y on opposite sides of studs. Vertical joints in adjacent layers Itilayer systems) staggered one stud cavity. Horizontal joints I not be backed by steel framing. Horizontal edge joints and zontal butt joints on opposite sides of studs need not be gered. Horizontal edge joints and horizontal butt joints in cent layers (multilayer systems) staggered a min of 12 in. The kness and number of layers for the 2 hr, 3 hr and 4 hr ratings as follows:

ypsum Board Protection on Each Side of Wall

· Min Stud epth, in. em 2F No. of Layers Thickness

f Panel Min Thkns of

2 layers, 1/2 in. thick	Optional
2 layers, 5/8 in. thick	Optional
3 layers, 1/2 in. thick	Optional
3 layers, 5/8 in. thick	Optional
4 layers, 5/8 in. thick	Optional
4 layers, 1/2 in. thick	Optional

ANADIAN GYPSUM COMPANY - 1/2 in. thick Type C, IP-X2 C-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, , SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

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

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

. Fasteners — (Not shown) — For use with Items 2 and 2F e S or S-12 steel screws used to attach panels to studs (Item r furring channels (Item 7). Single layer systems: 1 in. long 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. panels, spaced 8 in. OC when panels are applied zontally, or 8 in. OC along vertical and bottom edges and 12 DC in the field when panels are applied vertically. Two layer ems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or /4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second r-1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. for 3/4 in. thick panels, spaced 16 in. OC with screws offset . from first layer.Three-layer systems: First layer- 1 in. long 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. l layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or /8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws et min 6 in. from layer below. Four-layer systems: First layerlong for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. ond layer-1-5/8 in. long for 1/2 in., 5/8 in. thick panels, ced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick els or 2–5/8 in. long for 5/8 in. thick panels, spaced 24 in. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. g for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min

A. Fasteners — (Not shown) —For use with Item 2A – Type S 5-12 steel screws used to attach panels to studs (Item 2A). gle layer systems: 1 in. long for 1/2 and 5/8 in. thick panels I-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC additional screws 1 in. and 2-1/2 in. from edges of the rd when panels are horizontally. or 8 in. OC along vertical and om edges and 12 in. OC in the field when panels are applied ically. Two layer systems applied vertically: First layer- 1 in. g for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick els, spaced 16 in. OC with screws offset 8 in. from first layer. a layer systems applied horizontally: First layer-1 in. long for and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick els, spaced 16 in. OC starting 8 in. from each edge of the and with an additional screw placed 1-1/4 in. from each edge he board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. x panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 OC starting 8 in. from each edge of the board with an tional screw placed 1–1/4 in. from each edge of the board n screws offset 8 in. from first layer. Three-layer systems: First r-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. Second layer -1-5/8 in. long for 1/2 in., 5/8 in. thick panels, ced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 DC. Screws offset min 6 in. from layer below. For all layers, an itional screw shall be placed 1-1/4 in. from each edge of the rd. Four-layer systems: First layer-1 in. long for 1/2 in., 5/8 hick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 hick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, ced 12 in. OC. Screws offset min 6 in. from layer below. For all ers, an additional screw shall be placed 1-1/4 in. from each e of the board.

raming Members* — Optional – Not Shown – Used as an nate method to attach resilient channels (Item 7). Clips ched at each intersection of the resilient channel and the steel (Item 2). Resilient channels are friction fitted into clips, and clips are secured to the steel stud with min. 1 in. long Type steel screws through the center hole of the clip and the ent channel flange.

E BUILDING PRODUCTS CO INC — Type RC Assurance.

7D. 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:

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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 6. Not for use with Item 5A and 5E.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to stude with No. 8 \times 1–1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

8. 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.

9. 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.

10. 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

11. 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 0.125 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 5B) and optional at remaining stud locations. Required behind vertical joints.

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. 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".

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 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 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 boards, Item 5E) 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.

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