

	12/1/2016		BXUV.U41	9 - Fire Resistance Ratings - ANSI/UI	L 263		12/1/2016		BXUV.U419 - Fire Resista	ance Ratings - ANSI/UL 263		
									shaped, fabricated from min 25 N in. OC. Studs to be cut 3/8 to 3			under
		UNITED METAL PRODUCTS	INC - Type SUPR	REME Framing System					alternate to Item 2, For use with corrosion-protected or galy stee			ituds
				n) — For use with Item 2A — Char				fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.				
		MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.					2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment					
	1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized							of gypsum board only.	gap between the end of the stud	and track at the bottom of th	e wall. For direct attachn	iment
		steel, attached to floor and c	-					CALIFORNIA EXPANDED N	METAL PRODUCTS CO — Viper2	5™		
		CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK DMFCWBS L L C — ProTRAK MBA METAL FRAMING — ProTRAK						CRACO MFG INC — SmartS	Stud25™			
							MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25 TM					
							2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs,					
	RAM SALES L L C — Ram ProTRAK STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK					min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20 [™]						
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	1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS — The Edge 1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.							MARINO/ WARE, DIV OF V	VARE INDUSTRIES INC — Vipe	r20***		
								Item 5, spaced a max of 24	Steel Studs — In lieu of Item 2 in. OC. Studs to be cut 3/4 in. I	ess than assembly height.	n depth as indicated und	der
								ALLSTEEL & GYPSUM PRO	DUCTS INC — Type SUPREME Fr	aming System		
								CONSOLIDATED FABRICA	TORS CORP, BUILDING PROD	JCTS DIV — Type SUPREME F	raming System	
	STUDCO BUILDING SYSTEMS — CROCSTUD Track						QUAIL RUN BUILDING MA	TERIALS INC — Type SUPREME	Framing System			
	1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20 [™] Track VT100 1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min 0.015 in (min hare metal thickners) galvapized steel, attached to floor and started from min 0.015 in (min hare metal thickners).							SCAFCO STEEL STUD MAN	UFACTURING CO — Type SUPR	EME Framing System		
								STEEL CONSTRUCTION SY	STEMS INC - Type SUPREME Fi	aming System		
								UNITED METAL PRODUCTS	S INC — Type SUPREME Framing	System		
		Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C — TRUE-TRACK™							• • • • • • • • • • • • • • • • • • •			
		1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. TELLING INDUSTRIES LLC — Viper25™ Track						5I or 5K only, channel shape	Steel Studs — (Not Shown, As ed studs, min depth as indicated	under Item 5F, 5G or 5I, fabri	cated from min. 0.015 in	in.
								height.	galvanized steel, spaced a max o	of 24 In. OC. Studs to be cut .	5/4 In. less than assembly	лу
								CLARKDIETRICH BUILDIN	G STSTEMS - CD PROSTOD			
	1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, $1-1/4$ in. wide by $3-5/8$ in. deep fabricated from min 0.020 in. thick galv steel,							DMFCWBS L L C — ProSTUE)			
	attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — Viper20 [™] Track						MBA METAL FRAMING — F	ProSTUD				
	1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 20, proprietary channel shared guiners, min width to accommodate stud size, galy steel, attached to floor and							RAM SALES L L C — Ram P	roSTUD			
	Item 20, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track							STEEL STRUCTURAL PROD	DUCTS L L C - Tri-S ProSTUD			
	http://database.ul.cor	m/cgi-bin/XYV/template/LISEXT/	1FRAME/showpage.	html?name=BXUV.U419&ccnshorttitle	e=Fire+Resistance+Ratings+	-+ANSI/UL+263 3/11	http://database.ul.c	com/cgi-bin/XYV/template/LISEXT	/1FRAME/showpage.html?name=B>	KUV.U419&ccnshorttitle=Fire+Re	sistance+Ratings+-+ANSI/	I/UL+263.
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		staggered. Horizontal edge	BXUV.U4 joints and horizont		UL 263 nultilayer systems) stagge			5K. Gypsum Board* — (1		tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi	ck gypsum panels with be	peveled,
		staggered. Horizontal edge	BXUV.U4 joints and horizont mber of layers for	119 - Fire Resistance Ratings - ANSI/ al butt joints in adjacent layers (r	UL 263 nultilayer systems) stagge e as follows:			5K. Gypsum Board* — (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally, studs. Vertical joints in adjacent be backed by steel framing. Hori	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon	ck gypsum panels with be ruds and staggered one si staggered one stud cavity tal butt joints on opposit	peveled, stud zy. ite sides
		staggered. Horizontal edge	BXUV.U4 joints and horizont mber of layers for	119 - Fire Resistance Ratings - ANSI// al butt joints in adjacent layers (n the 2 hr, 3 hr and 4 hr ratings are	UL 263 nultilayer systems) stagge e as follows:			5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t Ipplied vertically or horizontally. ' studs. Vertical joints in adjacent	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s layers (multilayer systems) ; zontal edge joints and horizon horizontal butt joints in adjace	ck gypsum panels with be tuds and staggered one st taggered one stud cavity tal butt joints on oppositu nt layers (multilayer sys	peveled, stud zy. ite sides
		staggered. Horizontal edge	BXUV.U4 joints and horizont mber of layers for Gypsum B	19 - Fire Resistance Ratings - ANSI/ al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side o	UL 263 nultilayer systems) stagge e as follows: of Wall			5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t pplied vertically or horizontally. studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s layers (multilayer systems) ; zontal edge joints and horizon horizontal butt joints in adjace	ck gypsum panels with be tuds and staggered one st taggered one stud cavity tal butt joints on oppositu nt layers (multilayer sys	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating,	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in.	119 - Fire Resistance Ratings - ANSI/ al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness	UL 263 nultilayer systems) stagge a as follows: of Wall Min Thkns of Insulation			5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of	ck gypsum panels with be tuds and staggered one sit taggered one stud cavity tal butt joints on opposit ent layers (multilayer sys as follows: Min	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating,	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E	119 - Fire Resistance Ratings - ANSI/ tal butt joints in adjacent layers (n the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4)			5K. Gypsum Board* – (1 square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in.	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjaca hr, 3 hr and 4 hr ratings are tion on Each Side of Wall	the gypsum panels with be tuds and staggered one sl taggered one stud cavity tal butt joints on opposit ant layers (multilayer sys as follows: Min Thkns of Insulation	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick	UL 263 multilayer systems) stagge a s follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional			5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in.	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thii /ertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjac P. hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns	ck gypsum panels with be tuds and staggered one si taggered one stud cavity tal butt joints on opposit ab utt joints on opposit ab tudy joints on opposit as follows:	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are soard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional			5K. Gypsum Board* – (1 square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t pplied vertically or horizontally, ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel	ck gypsum panels with be tuds and staggered one sit staggered one stud cavity tal butt joints on opposit ant layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B)	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coord Protection on Each Side of No. of Layers No. of Layers Thickness of Panel 2 layers, 1/2 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional			5K. Gypsum Board* – (1 square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally, studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si layers (multilayer systems) si zontal edge joints and horizon horizontal butt joints in adjace ? hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick	ck gypsum panels with be tuds and staggered one st taggered one stud cavity tal butt joints on opposite ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in.	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI/l tal butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional	red a min of		5K. Gypsum Board* – (1 square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si layers (multilayer systems) si zontal edge joints and horizon horizontal butt joints in adjack hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick	A gypsum panels with be truds and staggered one situd cavity tal butt joints on oppositent layers (multilayer system control of the truth of truth of the truth of the truth of tr	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coord Protection on Each Side of No. of Layers No. of Layers Thickness of Panel 2 layers, 1/2 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional	red a min of		5K. Gypsum Board* – (f square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjact P. hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick	k gypsum panels with be tuds and staggered one st taggered one stud cavity tal butt joints on opposit ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional	peveled, stud zy. ite sides
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 200 – 1/2 in. thid	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are toard Protection on Each Side of No. of Layers Thickness of Panel 2 layers, 1/2 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S	red a min of		5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not be staggneed not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shown 1990)	BXUV.U419 - Fire Resist Not Shown) — (As an alternate t ipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 100 — 5/8 in. thick Type ULIX	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace P. hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick	ck gypsum panels with be tuds and staggered one sl taggered one stud cavity tal but joints on opposit mi layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional	beveled, stud ry. (te sides (stems)
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 200 – 1/2 in. thid	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of State State Coard Protection on Each Side of State State State State 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 2 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S	red a min of		5K. Gypsum Board* – (() square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pe bottom edges and 12 in. O	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thik /ertical joints centered over s' layers (multilayer systems) s' zontal edge joints and horizon horizontal butt joints in adjace P. hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2F - Type S or S-12 steel scru systems: 1 in. long for 1/2 and layer applied horizontally, or plied vertically. Two layer s	k gypsum panels with be tuds and staggered one si taggered one stud cavity tal butt joints on opposit min layers (multilayer sys as follows: <u>Min</u> Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optional optio	ls to proveled, stud ry. (te sides rstems)
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC – 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-1	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 CO - 1/2 in. thick X2, IPC-AR ; 3/4 in	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are toard Protection on Each Side of No. of Layers Thickness of Panel 2 layers, 1/2 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in	UL 263 nultilayer systems) stagge a s follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, SDE	red a min of		5K. Gypsum Board* – (f square or tapered edges, a cavity on opposite sides of Horizontal joints need not to of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shot studs (Item 2) or furring c1 in. long for 3/4 in. thick pp bottom edges and 12 in. O for 1/2 and 5/8 in. thick pp long for 1/2 in., 5/8 in. thick pp	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si layers (multilayer systems) si zontal edge joints and horizon horizontal butt joints in adjact : hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2F - Type S or S-12 steel scree systems: 1 in. long for 1/2 an es are applied horizontally, or opplied vertically. Two layer s thick panels, spaced 16	All stages of and staggered one stud cavity tal butt joints on opposite ant layers (multilayer system) target of an angle system of the sys	ls to pr 1-1/4 and in. long et 8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-3 USG BORAL ZAWAWI DR	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1000000000000000000000000000000000000	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (n the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers X Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 2 layers, 1/2 in. thick 5/8 in. thick 4 layers, 1/2 in. thick 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. htick Types IP-X3 or ULTRACOD — 1/2 in. Type C; 5/8 in. Types C	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S SE	red a min of		5K. Gypsum Board* – (() square or tapered edges, a cavity on opposite sides of Horizontal joints need not bo of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pe long for 1/2 and 5/8 in. thick pe long for 1/2 in., 5/8 in. thi from first layer. Three-lay layer- 1-5/8 in. long for 1/1 thick panels or 2-5/8 in. lon	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thik /ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace P. hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 sea applied horizontally, or piled vertically. Two layer s thick panels, spaced 16 in. Of 4 in. thick panels, spaced 16 in. Of of 24 in. OC. Third layer - 2-1/ d 12 in. OC. Screws offset m	the gypsum panels with be tuds and staggered one si taggered one stud cavity tal butt joints on opposite int layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional optional optional optional c. Second layer-1 in S. Second layer-1 s/8 i in. OC with screws offset in. OC with screws offset in. OC with screws offset in. OC score 24 in. OC. 3 4 in. long for 1/2 in, 5/8 i of a fin. for m layer below	Is to be to to to to to to to to to to to to to t
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-3 USG BORAL ZAWAWI DR	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers SThickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. n. thick Types IP-X3 or ULTRACOE - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S SE	red a min of		5K. Gypsum Board* – (I square or tapered edges, a cavity on opposite sides of Horizontal joints need not 1 of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Short studs (Item 2) or furring tong for 3/4 in. thick pa bottom edges and 12 in. 0 for 1/2 and 5/8 in. thick pa long for 1/2 in., 5/8 in. thi from first layer. Three-lay layer. 1-5/8 in. long for 1 thick panels or 2-5/8 in. lon Four-layer systems: Firs long for 1/2 in., 5/8 in. thi	BXUV.U419 - Fire Resis Not Shown) — (As an alternate tipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 h; 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si zontal edge joints and horizon horizontal butt joints in adjact : hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 s are applied horizontally, or pplied vertically. Two layer s thick panels, spaced 16 ing for 1/2 in., 5/8 in. thick panels, spaced 16 ing for 1/2 in., 5/8 in. thick 0 24 in. OC. Third layer - 2-1/ ed 12 in. OC. Screws offset m 8 in. thick panels, spaced 24 in dayer - 21/4 in. long for 1/4 in. thick panels, spaced 24 in OC. Screws offset m 8 in. thick panels, spaced 24 in Screws offset m 8 in. thick panels, spaced 16 in Screws offset m 8 in. thick pane	All stages and staggered one studies and staggered stag	Is to pr 1-1/4 and in. long in. second /8 in. w. -5/8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-10 1-5/8 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10	119 - Fire Resistance Ratings - ANSI// ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are toard Protection on Each Side of No. of Layers toard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 2-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. m. thick Types IP-X3 or ULTRACODE - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thic	UL 263 nultilayer systems) stagge a s follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Solutional Optional Control (Item 4) Optional Optional Optional Optional Control (Item 4) Optional Optional Optional Control (Item 4) Optional Optional Control (Item 4) Optional Optional Optional Optional Control (Item 4) Optional Optional Optional Optional Control (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Control (Item 4) Optional Optional Optional Control (Item 4) Optional Optional Optional Control (Item 4) Optional Control (Item 4) Control (It	red a min of s, SCX, SHX, HX, IP-X1, (1, IP-X2,		5K. Gypsum Board* – ((square or tapered edges, a cavity on opposite sides of Horizontal joints need not be staggneed not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shot studs (Item 2) or furring cl in. long for 3/4 in. thick pz long for 1/2 in., 5/8 in. thick pz long for 1/2 in., 5/8 in. thick proma for 1/2 in., 5/8 in. thick from first layer. Three-lay layer- 1-5/8 in. long for 1/2 thick panels or 2-5/8 in. long for 1/2 and 5/8 in., first in.	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 thick panels, spaced 16 in. C 4 in. thick panels, spaced 24 in 16 layer - 2-1/4 in. long for 1/2 in. thick 8 in. thick panels, spaced 24 if d layer - 2-1/4 in. long for 1/2 in. thick 8 in. thick panels, spaced 24 if d layer - 2-1/4 in. long for 1/2 in. thick 9 layer - 2-1/4 in. long for 1/2 in. thick 9 layer - 2-1/4 in. long for 1/2 in. thick 9 layer - 2-1/4 in. long for 1/2 in. thick 9 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 16 layer - 2-1/4 in. long for 1/2 in. thick 9 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-1/4 in. long for 1/2 in. thick panels, spaced 24 layer - 2-5/8 layer	All stages and staggered one studies and staggered stag	Is to pr 1-1/4 and in. long in. second /8 in. w. -5/8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC – 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP- USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 5H. Gypsum Board* – (N	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-10 1 1 1 1 1 1 1	119 - Fire Resistance Ratings - ANSI/l ral butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers SThickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. n. thick Types IP-X3 or ULTRACOE - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S E ;, SCX, ULTRACODE ck Type AR, C, IP-AR, IP-3 as the base layer on one nly to steel studs Item 2A,	red a min of R, SCX, SHX, HX, IP-X1, (1, IP-X2, pr both sides (not to be		5K. Gypsum Board* – ((I square or tapered edges, a cavity on opposite sides of Horizontal joints need not l of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pa bottom edges and 12 in. O for 1/2 and 5/8 in. thick prom first layer. Three-lay lay clarger 5/8 in. thick prom first layer. Firree-lay layer. F/8 in. thick panels, spaced long for 1/2 in., 5/8 in. thi from first layer. Systems: First long for 1/2 in., 5/8 in. thi long for 5/8 in. thick panels, spaced in. thick panels, spaced in. thick panels (Item 7).	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 h; 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si zontal edge joints and horizon horizontal butt joints in adjact : hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 r - Type S or S-12 steel scrut sis are applied horizontally, or polied vertically. Two layer s thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. thick panels, spaced 24 in d layer - 21/4 in. long for 1/2 in. thi from layer below. rpe S or S-12 steel screws uss screws, spaced 8 in. OC wher	All stagered one stud cavity tal butt joints on opposit tal butt joints on opposit tal butt joints on opposit ent layers (multilayer system cavity tal stagered one stud cavity tal butt joints on opposite tal tayers (multilayer system cavity cav	Is to rstems) ls to rstems) ls to r 1-1/4 and in. long in. long in. Second /8 in. 5/8 in. for 5/8 studs or
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5, Protection on Each Side of tapered edges, applied vert	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 100 101 102 103 104 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 106 107 108 108 109 1010 1010 1020 10	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers X Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. n. thick Types IP-X3 or ULTRACODE - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thic x3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment oo be used as alternate to all 5/8 or 1/8 or 3/4 in. thick lead backed gypts	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Coptional Optional Coptional Coptional Optional Coptional Optional Coptional Optional Coptional C	red a min of		 5K. Gypsum Board* - ((I square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The staggered not be staggered. The staggered not be staggered in the staggered staggered is study in the staggered is staggered. 6. Fasteners - (Not Shoot studs (Item 2) or furring chanles and 12 in. O for 1/2 and 5/8 in. thick pare bottom edges and 12 in. O for 1/2 and 5/8 in. thick pare long for 1/2 in., 5/8 in. thi from first layer. Three-lay layer 1-5/8 in. Ing for 1/2 in., 5/8 in. thi long for 5/8 in. thick panels, spaced 12 6A. Fasteners - (Not Shofturring channels (Item 7). horizontally, or 8 in. OC shofturring channels (Item 7). horizontally, or 8 in. OC shofturring channels (Item 7). horizontally, or 8 in. OC shofturring channels (Item 7). 	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally. 's studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thio /ertical joints centered over si zontal edge joints and horizon horizontal butt joints in adjact is n; 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 sare applied horizontally, or pplied vertically. Two layer s thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. long for 1/2 in. 25/8 in. long for 1/2 in. thick paced 8 in. OC in the field when in thick panels spaced 8 in. OC wher id 12 in. OC in the field when is in. C C. Steond layer 1-5/8	K gypsum panels with be tuds and staggered one stu tasgered one stud cavity tal butt joints on opposite ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional layer- 1-5/8 i in. OC along vertical a ystems: First layer - 1 in Oc. Second layer- 1-5/8 i in. form layer below 4 in. long for 1/2 in., 5/8 in oC. cascond layer- 1-5/8 in. form layer below n, OC. Second layer- 1-5/8 in. long for some some some some some some some some	ls to y, te sides (stems) stems) stems) ls to or 1-1/4 and in. long in. second (% in. % second (% in. 5/8
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC - 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP- USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* - (M of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5 Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (not the 2 hr, 3 hr and 4 hr ratings are soard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are soard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are soard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are soard Protection on Each Side of Panel 2 layers, 1/2 in. thick 2 layers, 1/2 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick cAR;, 5/8 in. thick Type AR, C, IF h. thick Types IP-X3 or ULTRACOD — 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thi: x3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or if so 3/4 in. thick lad backed gypts centered over 20 MSG steel stusts with 1-1/4 in. long Type S-1	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Coptional Optional Coptional Optional Coptional Optional Optional Coptional Optional Coptional Optional Coptional C	red a min of R, SCX, SHX, HX, IP-X1, (1, IP-X2, br both sides (not to be /allboard square or ud cavity on . OC at long Type S-		 5K. Gypsum Board* – ((I square or tapered edge, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The gradient of study sneed not be staggered. The gradient of the set of the stage of the sta	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi //ertical joints centered over s' layers (multilayer systems) s' zontal edge joints and horizon horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. Oc. Screws offset m 8 in. thick panels, spaced 24 if dayer - 2-1/4 in. long for 1/2 in. th from layer below. The Sor S-12 steel screws uses screws, spaced 8 in. OC where 15/8 is: First layer - 1 in. long screws, space 2-5/8 in. long screws, space	A gypsum panels with be tuds and staggered one stud cavity tal butt joints on opposite int layers (multilayer sys- as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional C. Second layer- 1 in Second layer- 1-5/8 i in. OC along vertical a ystems: First layer- 1 in OC. Second layer- 1-5/8 i in 6 in. from layer below n. OC. Second layer- 2-5/8 in 6 in 6 in. from layer below n. OC. Second layer- 2-5/8 in 6 in. in for 1/2 in. 5/6 in 6 in. from layer below n. OC. Second layer- 2-5/8 in 6 in in from layer below n. OC. Second layer- 2-5/8 in 6 in in for layer below n. OC. Second layer- 2-5/8 in 6 in in for 1/2 in. 5/6 in 6 in in for 1/2 in. 5/6 in 6 in coc. Second layer- 2-5/8 in 6 in in coc. Second layer- 2-5/8 in 1 in OC. Second layer- 2-5/8 in 6 in Second layer- 2-5/8 in 8 in Second	Is to ry. Its sides rstems) Is to or 1-1/4 and in. long in. long in
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5, Protection on Each Side of 34 in 1 used with Item 3) - Nom 5, Protection on Each Side of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 CO - 1/2 in. thick Type C, IP-X2 or IPC 3 or ULTRACODE CO - 1/2 in. thick X2, IPC-AR ; 3/4 ir WWALL LL C SFZ - 1/2 in. thick Types IP- i	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. thick - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick an alternate to Item 5 when used specified. For direct attachment on be used as alternate to all 5/8 or 78 or 3/4 in. thick lead backed gypt sc centered over 20 MSG steel st ustuds with 1-1/4 in. long Type S-50 board secured to 20 MSG steel st and 12 in. OC in the field. For Joi ad Discs (see Item 12A).	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Coptional Optional Coptional Optional Coptional Optional Optional Coptional Optional Coptional Optional Coptional C	red a min of R, SCX, SHX, HX, IP-X1, (1, IP-X2, br both sides (not to be /allboard square or ud cavity on . OC at long Type S-		5K. Gypsum Board* – ((f square or tapered edges, a cavity on opposite sides of Horizontal joints need not be staggened not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pa bottom edges and 12 in. O for 1/2 and 5/8 in. thick prom first layer. Three-layy layer. 1-5/8 in. long for 1/ thick panels or 2-5/8 in. to Four-layer systems: First long for 1/2 in., 5/8 in. thi furnig channels (Item 7). horizontally, or 8 in. OC al Two layer systems: First lay with screws offset 8 in. fro layer. 1-5/8 in. long screw in. from layer below. Four-	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over si zontal edge joints and horizon horizontal butt joints in adjact in, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 r - Type S or S-12 steel scra (yetems: 1 in. long for 1/2 an lis are applied horizontally, or pplied vertically. Two layer s thick panels, spaced 16 in. C 4 in. thick panels, spaced 14 in d layer - 2-1/4 in. long for 1/2 r - 2-5/8 in. long for 1/2 in. thi from layer below. "pe S or S-12 steel screws us screws, spaced 8 in. OC wher d 12 in. OC in the field when 5 in. C in the field when 5 in c in C c for the field when 5 in C in C in the field when 5 in C in the field wh	All stages and staggered one studies and staggered staggered one studies and staggered staggere	ls to y, te sides (stems) ite sides (stems) its to or 1-1/4 and in. long in. for 5/8 in. for 5/8 cuds or ically. OC econd tt min 6 in. long
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in used with Item 3) - Nom 5, Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 CO - 1/2 in. thick Type C, IP-X2 or IPC 3 or ULTRACODE CO - 1/2 in. thick X2, IPC-AR ; 3/4 ir WWALL LL C SFZ - 1/2 in. thick Types IP- i	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. thick - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick an alternate to Item 5 when used specified. For direct attachment on be used as alternate to all 5/8 or 78 or 3/4 in. thick lead backed gypt sc centered over 20 MSG steel st ustuds with 1-1/4 in. long Type S-50 board secured to 20 MSG steel st and 12 in. OC in the field. For Joi ad Discs (see Item 12A).	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional Coptional Optional Coptional Optional Coptional Optional Optional Coptional Optional Coptional Optional Coptional C	red a min of R, SCX, SHX, HX, IP-X1, (1, IP-X2, br both sides (not to be /allboard square or ud cavity on . OC at long Type S-		5K. Gypsum Board* – ((f square or tapered edges, a cavity on opposite sides of Horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pa bottom edges and 12 in. O for 1/2 and 5/8 in. thick prom first layer. Three-lay long for 1/2 in., 5/8 in. thi from first layer. Three-lay layer 1-5/8 in. long for 1/ thick panels or 2-5/8 in. lon Four-layer systems: First long for 5/8 in. thick panels in. thick panels (Item 7). horizontally, or 8 in. OC al two layer systems: First layer - 1-5/8 in. long screw in. from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset 8 in. fro 7. Furring Channels – (C fabricated from min 25 MS	BXUV.U419 - Fire Resis Not Shown) — (As an alternate tipplied vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. this /vertical joints centered over s' zontal edge joints and horizon horizontal butt joints in adjace tr, 3 hr and 4 hr ratings are the non Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 are applied horizontally, or pplied vertically. Two layer s thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. Loc. Screws offset m 8 in. thick panels, spaced 24 in. OC. Third layer - 2-1/4 in. long for 1/2 in., the field when 5 in. OC. Screws lass screws, spaced 8 in. OC wher 4 12 in. OC in the field when 5 in. OC in the field when 5 in. C C scond layer - 1-5/8 is: First layer - 1 in. long screw 2-5/8 in. long screws, space 2-5/8 in. long screws, space 2-5/8 in. long screws, space 2-5/8 in. long screws, space 2-5/8 in. Oc Screws offset m 5, spaced 24 in. OC. Fourth la r double layer systems) — Re the vertically a max of 24 in.	K gypsum panels with be tuds and staggered one stu tasggered one stud cavity tal butt joints on opposite ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Oc along vertical a ystems: First layer - 1 in NC. Second layer- 1-5/8 i in. from layer below inels, spaced 24 in. Oc. 2 in. thick panels or 2-5/ lick panels or 3 in. long for the panels are applied panels are applied panels are applied vertic in. screws, spaced 8 in. ws, spaced 24 in. Oc. Second layer- 1-5/8 in yer- 3 in. long screws, sp silient furring channels Oc. Flange portion attacl	Is to ry. It sides rstems) Is to or 1-1/4 and in. long in. long in. long is. for 5/8 in. for 5/8 in. for 5/8 in. in. long in. long spaced
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in used with Item 3) - Nom 5, Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. thick - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick an alternate to Item 5 when used specified. For direct attachment on be used as alternate to all 5/8 or 78 or 3/4 in. thick lead backed gypt sc centered over 20 MSG steel st ustuds with 1-1/4 in. long Type S-50 board secured to 20 MSG steel st and 12 in. OC in the field. For Joi ad Discs (see Item 12A).	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Coptional Optional Optional Coptional Optional Optional Coptional Optional Optional Optional Optional Coptional Optional Internation Optional Optiona	red a min of		 5K. Gypsum Board* - (1 square or tapered edges, a cavity on opposite sides of Horizontal joints need not 1 of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUP 6. Fasteners - (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pa long for 1/2 in. 5/8 in. thi from first layer. Three-lay long for 1/2 in. 5/8 in. thick pare long for 1/2 in. 5/8 in. thi from first layer. Three-lay long for 1/2 in. 5/8 in. thick pare long for 1/2 in. 5/8 in. thi from first layer. Three-lay long for 1/2 in. 5/8 in. thi from first layer. Three-lay layer- 1-5/8 in. long for 1/2 thick panels or 2-5/8 in. lon Four-layer systems: First long for 5/8 in. thick panel in. thick panels (Item 7). horizontally, or 8 in. OC al Two layer systems: First la, from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset mi 7. Furring Channels - (Of fabricated from min 25 MS each intersecting stud with 7A. Framing Members* 	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thik /ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace ? hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 layers, 5/8 in. thick 7 layers, 5/8 in. thick 9 layer 2-1/2 in. Join for 1/2 a 15 are applied horizontally, or 9 lied vertically. Two Jayer 9 thick panels, spaced 16 in. Gor 50 fister 8 in. thick panels, spaced 24 in. long for 1/2 in. the from layer below. 7 pc S or S-12 steel screws us screws, spaced 8 in. OC where 1d 12 in. OC. Screws 10 fister 1 in. long screw 2-5/8 in. long screws, space 10 gscrews, spaced 24 in. OC. Fourth la r double layer systems) — Re r double layer systems) — Re	A gypsum panels with be tuds and staggered one stud cavity tal butt joints on opposite ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Starses: First layer - 1 in Sc. Second layer- 1-5/8 i in. OC along vertical a ystems: First layer - 1 in o. C. Second layer- 1-5/8 in n. OC. Second layer- 1-5/2 in. fin. from layer below no, C. Second layer- 1-5/2 in. link panels or 2-5/ ick panels or 3 in. long for apanels are applied panels are applied vertic in. screws, spaced 8 in. ws, spaced 24 in. OC. Second File C. Second layer- 1-5/8 in yer- 3 in. long screws, sp silient furring channels OC. Flange portion attact and 5E.	ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in used with Item 3) - Nom 5, Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers No. of Layers X Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR; 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. m. thick Types IP-X3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; x canterate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; 8 or 3/4 in. thick lead backed gypts to centered over 20 MSG steel study with 1-1/4 in. long Type S-; board secured to 20 MSG steel study and 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Coptional Optional Optional Coptional Optional Optional Coptional Optional Optional Optional Optional Coptional Optional Internation Optional Optiona	red a min of		SK. Gypsum Board - ((square or tapered edges of borizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUH CONTENTION OF SET OF STATES UNITED STATES GYPSUH CONTENTION OF STATES CONTENTION OF STATE	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi //ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizor horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 savers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 thick panels, spaced 16 in. 0 4 in. thick panels, spaced 24 if d layer- 2-1/4 in. long for 1/2 in. thick parels, spaced 24 in. 0C. Screws us screws, spaced 8 in. 0C where 5 in. 0C. Second layer- 1-5/8 is: First layer- 1 in. long scree 2-5/8 in. long screws, spaced 24 in. 0C. s, spaced 24 in. 0C. Fourth la r double layer systems) — Re red vertically a max of 24 in. ws. Not for use with Item 5A , not shown, for single or dou mbers as described below: MSG galv steel. 2-9/16 in. or	kgypsum panels with be tuds and staggered one stud cavity tal butt joints on opposite int layers (multilayer sys- as follows:	ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (No f wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5, Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 51. Gypsum Board* — (At tapered edges installed as of	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers No. of Layers X Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR; 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. m. thick Types IP-X3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; x canterate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; 8 or 3/4 in. thick lead backed gypts to centered over 20 MSG steel study with 1-1/4 in. long Type S-; board secured to 20 MSG steel study and 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Coptional Optional Optional Coptional Optional Optional Coptional Optional Optional Optional Optional Coptional Optional Internation Optional Optiona	red a min of		 Sk. Gypsum Board* - () square or tapered edges, a cavity on opposite sides of horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUH Shatements - (Not Shot studs (Item 2) or furring cl in long for 3/4 in. thick pare bottom for 3/4 in. thick pare in long for 1/2 in. 5/8 in. thi form first layer. Three-lay thick panels or 2-5/8 in. lon Group for 1/2 in. 5/8 in. thick pare 1-5/8 in. long for 1/2 in. thick panels or 2-5/8 in. lon Group for 1/2 in. 5/8 in. thick pare 1-5/8 in. long for 1/2 in. thick panels or 2-5/8 in. lon Group for 1/2 in. 5/8 in. thick pare 1-5/8 in. long screw screws offset B in. Goral two layer systems: First la two layer systems: First la two layer systems: First in. from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset mi String Channels (100 m) for 1/2 in. 200 m min 25 m for a directed from min 25 m for directe	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally. ' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, ' Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. this //ertical joints centered over sontal edge joints and horizon horizontal butt joints in adjack 2: hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2: thick panels, spaced 16 in. C 4: in. thick panels, spaced 16 in. C 4: join OC. Third layer- 2-1/ do 12 in. OC. Third layer- 2-1/ do 12 in. OC. Third layer- 2-1/ do 12 in. OC. Third layer- 2-1/ form layer below. Type S or S-12 steel screws uss screws, spaced 8 in. OC where in thick panels, spaced 16 in. C 4: in. thick panels, spaced 17 in. 5: First layer- 1 in. long for 1/ cr 2-5/8 in. long for 1/2 in. thick pare below. Type S or S-12 steel screws uss screws, spaced 8 in. OC where do 12 in. OC. Fourth layer- 1-5/8 is: First layer- 1 in. long screw 2-5/8 in. long screws, spaced long screws, spaced 24 in. OC s, spaced 24 in. OC. Fourth layer cr double layer systems) — Re the devertically a max of 24 in. the screws of screws of 24 in. the screws of 24 in. 2000 mbers as described below: MSG galv steel. 2-9/16 in. or dicular to studs. Channels see	A gypsum panels with be tuds and staggered one stud taggered one stud cavity tal butt joints on opposite ent layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional C. Second layer- 1-5/8 i in. OC ailong vertical a ystems: First layer- 1 in OC with screws offset in. OC with screws offset 2 in. thick panels or 2-5// ick panels or 3 in. long for and to attach panels to stud panels are applied vertic in. screws, spaced 8 in. ws, spaced 24 in. OC. Second layer- 1-5/8 in yer- 3 in. long screws, sp silient furring channels OC. Flange portion attacl and 5E. ble layer systems) — As 2-23/32 in. wide by zured to studs as	ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-1 USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (M of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5 Protection on Each Side of taperad edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 51. Gypsum Board* — (At tapered edges installed as of CGC INC — Type ULX	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers No. of Layers X Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick 5-AR; 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. m. thick Types IP-X3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; x canterate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or; 8 or 3/4 in. thick lead backed gypts to centered over 20 MSG steel study with 1-1/4 in. long Type S-; board secured to 20 MSG steel study and 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum	UL 263 nultilayer systems) stagge as follows: of Wall Min Thkns of Insulation (Item 4) Optional Coptional Optional Optional Coptional Optional Optional Coptional Optional Optional Optional Optional Coptional Optional Internation Optional Optiona	red a min of		 SK. Gypsum Board* – (() square or tapered edges, a cavity on opposite sides of Horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUP 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in, long for 3/4 in. thick pa long for 1/2 in. 5/8 in. thi from first layer. Three-lay layer 1-5/8 in. long for 1/2 in. 5/8 in. thick parel in. thick panels or 2-5/8 in. lo Four-layer systems: First long for 1/2 in., 5/8 in. thi from first layer. Three-lay layer 1-5/8 in. long for 1/2 in., 5/8 in. thick panel in. thick panels, spaced 12 6A. Fasteners – (Not Sho four-layer systems: First long for 5/8 in. thick panel in. thick panels (Item 7). horizontally, or 8 in. OC al two layer systems: First la in. GC. Screws offset mi 7. Furring Channels (Item 7). horizontally, or 8 in. OC al two layer systems: First la in. from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset mi 7. Furring Channels – (C fabricated from min 25 MS ach intersecting stud with 7. Furring Channels – (C fabricated from min 25 MS acc intersecting stud with 7. Furring Channels – (C fabricated from min 25 MS acc intersecting stud with 8. Furring 7/8 in. dee described i use with Ite 	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizor horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layer, 2 layer, 1 in. long for 1/2 in. 9 for 1/2 lin. 5/8 in. thick pales, spaced 16 in. 9 for 1/2 lin. 5/8 in. thick pales, spaced 16 in. 9 for 1/2 lin. 5/8 in. thick pale 12 in. OC. Screws offset m 8 in. thick panels, spaced 24 in. OC. Screws offset 9 layer - 2-1/4 in. long for 1/2 in. th 16 layer - 2 layer - 1 in. long screws, space 9 long screws, spaced 8 in. OC. wher 16 layer - 10 nog screws, spaced 24 in. OC. Fourth la 9 r double layer systems) — Re 17 louble layer systems) — Re 18 r double layer systems) — Re 19 r double layer systems) — Re 19 r double layer systems) — Re 10 r double layer systems) = Re 10 r double layer systems = Re 10 r double layer system = Re 10 r double	A gypsum panels with be tuds and staggered one stud cavity tal butt joints on opposite int layers (multilayer sys- as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Oc with screws offset in. OC with screws offset in 6 in. from layer below n. OC. Second layer- 1-5/8 in in 6 in. from layer below n. OC. Second layer- 1-5/8 in yanels are applied vertici in screws, spaced 24 in. OC. Set 4 in. long for 1/2 in. 5/6 in yen-3 in. long screws, sp silient furring channels OC. Flange portion attact .and 5E. ble layer systems) — As 2-23/32 in. wide by sured to studs as bed in Item 6. Not for Yaho studs (Item 2). studs with No. 8 x 1- tt. RSIC-V and RSIC-	ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Type 12 in. The thick Type 12 in. The thick Type 12 in. thick Type 12 in. thick Type 12 in. thick Type 13 in. thick Type 13 in. thick Type 13 in. thick Type 14 in. thick Type 15 in. Cypsum Board* — (No of wall when 5/8 or 3/4 in 10 in 2 in 2 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 51. Gypsum Board* — (No tapered edges installed as of CGC INC — Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 51. Gypsum Board* — (No USG MEXICO S A DE C V - 53. Gypsum Board* — (No	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 2 layers, 1/2 in. thick 5/8 in. thick 4 layers, 1/2 in. thick c-AR;, 5/8 in. thick 4 layers, 1/2 in. thick c-AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. Types C - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick 3 or J4/in. thick lead backed gypts centered over 20 MSG steel stud studs with 1-1/4 in. long Type S-33 board secured to 20 MSG steel stud studs with 1-1/4 in. long Type S-33 board secured to 20 MSG steel stud studs with 1-1/4 in. long Type S-33 board secured to 20 MSG steel stud stand 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum <t< td=""><td>UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional P-AR, IP-X1, IP-X2, IPC-AF n, thick Type SCX, SGX, S E S, SCX, ULTRACODE ck Type AR, C, IP-AR, IP-3 as the base layer on one nly to steel studs Item 2A, 3/4 in. shown in Item 5, um panels with beveled, s I be as indicated in Item 5 um panels with beveled, s</td><td>red a min of red a min of re</td><td></td><td> 5K. Gypsum Board* – ((l square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The gradient of studies need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be stage need not need need need need need need need nee</td><td>BXUV.U419 - Fire Resis Not Shown) — (As an alternate t pplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-000 graph 1-2 in.long screws, spaced steel, sparei 1-2 in.long Screws n 6 in. from layer below. Dptional, Not Shown, for single of Channels - Formed of No. 25 lp, spaced max. 24 in. OC. Folf-1 and Rimmum self-drilling, 5-12 steel scr - (Optional on one or both sidege gips and Steel Framing Me</td><td>tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace ? hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layers, 5/8 in. thick 1 layer, 5/8 in. thick 9 layers, 5/8 in. thick 9 layer, 5/8 in. thick 9 layer 2-11/1 in. long for 1/2 an 10 layer 2-11/4 in. long for 1/2 an. 9 layer 2-11/4 in. long for 1/2 in. thick 9 layer 2-11/4 in. long for 1/2 in. 9 S or S-12 steel screws us screws, spaced 8 in. OC wher ad 12 in. OC. Screws offset m 8 in. thick panels, spaced 24 in. OC is. First layer - 1 in. long scre 2-5/8 in. long screws, space 10 layer - 2-1/4 in. long scre 2-5/8 in. long screws, space 10 spaced 24 in. OC. Fourth la 5 in. OC. Scoul ayer - 15/7 8 in. long screws, space 10 spaced 24 in. OC. Fourth la 5 in. ot shown, for single or dou mbers as described below: 14 double layer systems) — Re r double layer systems) — Re r double layer systems) and the set of 15 layer 10 layer</td><td>A staggered one stud cavity tal but joints on opposit int layers (multilayer sys as follows: Min Thkns of Insulation (Item 4B) 3-1/2 in. Optional Optional</td><td>ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to</td></t<>	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional P-AR, IP-X1, IP-X2, IPC-AF n, thick Type SCX, SGX, S E S, SCX, ULTRACODE ck Type AR, C, IP-AR, IP-3 as the base layer on one nly to steel studs Item 2A, 3/4 in. shown in Item 5, um panels with beveled, s I be as indicated in Item 5 um panels with beveled, s	red a min of red a min of re		 5K. Gypsum Board* – ((l square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The gradient of studies need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be staggered. The gradient of the stage need not be stage need not need need need need need need need nee	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t pplied vertically or horizontally.' studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. 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Dptional, Not Shown, for single of Channels - Formed of No. 25 lp, spaced max. 24 in. OC. Folf-1 and Rimmum self-drilling, 5-12 steel scr - (Optional on one or both sidege gips and Steel Framing Me	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace ? hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layers, 5/8 in. thick 1 layer, 5/8 in. thick 9 layers, 5/8 in. thick 9 layer, 5/8 in. thick 9 layer 2-11/1 in. long for 1/2 an 10 layer 2-11/4 in. long for 1/2 an. 9 layer 2-11/4 in. long for 1/2 in. thick 9 layer 2-11/4 in. long for 1/2 in. 9 S or S-12 steel screws us screws, spaced 8 in. OC wher ad 12 in. OC. 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		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP- USG BORAL ZAWAWI DR' USG BORAL ZAWAWI DR' USG BORAL ZAWAWI DR' USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5/4 perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 5I. Gypsum Board* — (At tapered edges installed as of CGC INC — Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 5J. Gypsum Board* — (N wall when 1/2 in. or 5/8 in used with Item 3). Nom 5/ vertically. Vertical joints cel	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (not the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 2 layers, 1/2 in. thick 3 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 4 layers, 1/2 in. thick c.AR;, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. thick - 1/2 in. Type C; 5/8 in. Types C - 1/2 in. Type C; 5/8 in. Types C a alternate to Item 5 when used specified. For direct attachment on be used as alternate to all 5/8 or 1/8 or 3/4 or 1/4 in. long Type S-3 board secured to 20 MSG steel stuat and 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum erem 5) — Nom. 5/8 in. thick gyps 5. Steel stud minimum depth shall an alternate to Item 5 when used specified, For direct attachment of coard gypsum panels with beveled, and staggered min 1 stud cavity or 10 and staggered	UL 263 multilayer systems) stagge e as follows:	red a min of red a min of re		 SK. Gypsum Board* – (() square or tapered edges, a cavity on opposite sides of Horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUP 6. Fasteners – (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pp long for 1/2 and 5/8 in. thick proof for 1/2 and 5/8 in. thick pp long for 1/2 in. 5/8 in. thi from first layer. Three-lay layer- 1-5/8 in. long for 1/1 thick panels or 2-5/8 in. lo Four-layer systems: Firs long for 5/8 in. thick panel in. thick panels, spaced 12 6A. Fasteners – (Not Sho furring channels (Item 7). horizontally, or 8 in. OC al two layer systems: First layer. Systems: Sins 10 and 67.8 in. long screw in. from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset mi 7. Furring Channels – (C) fabricated from min 25 MS ach intersecting stud with 7. Furring Channels – (C) fabricated from min 25 MS acet intersecting stud with 7. Furring Channels – (C) fabricated from min 25 MS actin intersecting stud with 7. Furring Channels – (C) fabricated from min 25 MS actin intersecting stud with 7. Furring Channels – (C) fabricated from min 25 MS actin intersecting stud with 7. Staring Members* - alternate to Item 7, furring 8. Steel Fi Clips space 9. Steel Fi 10 min 30 min 30	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.'s studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizor horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layer, 2 lin. Jong for 1/2 an 16 no. C. Screws offset m 8 in. thick panels, spaced 16 in. 9 layer 2 lin. Jong for 1/2 in. th 16 layer 2 lin. Jong for 1/2 in. th 16 layer 2 lin. Jong for 1/2 in. th 17 molayer below. 9 or S or S-12 steel screws us 18 is: First layer - 1 in. long for 1/2 in. 19 in. OC. Screws Jong Steet 9 in. OC. Second layer - 15/8 10 layer - 10 mol screws, space 10 layer layer - 10 mol screws, space 10 layer systems) — Re 10 layer systems) = 2.5/8 in. long screws, spaced 24 in. OC. 10 max of 24 in. or 10 clual ro studs. Channels se 10 do furring channels (Item 7 SIC-1 (2.75) clips secured to 10 for in minimum self-drillin 10 fritted into clips, RS; 10 s. RSIC-1 (2.75) and RSIC-V	A stand staggered one stud cavity tal butt joints on opposite int layers (multilayer sys as follows: Min ThKns of Insulation (Item 4B) 3-1/2 in. Optional O	ls to y, te sides (stems) its sides (stems) is to or 1-1/4 and in. long in. et 8 in. 5/8 in. 5/8 in. for 5/8 cuds or ically. 0 C econd et min 6 in. long spaced ched to
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-1 USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in used with Item 3) - Nom 5/4 in used with Item 3) - Nom 5/4 in used with Item 3) - Nom 5/4 in used with Item 3) - Nom 5/5 tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC SI. Gypsum Board* — (A tapered edges installed as of CGC INC — Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - SJ. Gypsum Board* — (N wall when 1/2 in. or 5/8 in used with Item 3). Nom 5/ vertically. Vertical joints ce secured to studs with 1-1/4 and 12 in. OC in the field. 1	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	119 - Fire Resistance Ratings - ANSI/A Ial butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of Image: Source Coard Protection on Each Side of Image: Image: Source Coard Protection on Each Side of Image: I	UL 263 multilayer systems) stagge e as follows: of Wall Min Thkns of Insulation (Item 4) Optional Optional Optional Optional Optional Optional Optional Optional Optional P-AR, IP-X1, IP-X2, IPC-AF n. thick Type SCX, SGX, S E S, SCX, ULTRACODE ck Type AR, C, IP-AR, IP-) as the base layer on one inly to steel studs Item 2A, 3/4 in. shown in Item 5, as the base layer on one of the system spaced 8 in use Item 5 um panels with beveled, s I be as indicated in Item 5 um panels with beveled, s I be as indicated in Item 5 as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in use Item 5. Um panels with beveled, s I be as indicated in Item 5 as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a as the base layer on one of the system spaced 8 in Oc a by the system spaced 8	red a min of red a min of re		 SK. Gypsum Board* - (1) square or tapered edge, a cavity on opposite sides of horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUM 6. Fasteners - (Not Shor studs (Item 2) or furring q bottom edges and 12 in. O for 1/2 and 5/8 in. thick part from first layer. Three-lay layer 1-5/8 in. long for 1/2 in. Systems: First bottom edges and 12 in. O for 5/8 in. thick part from first layer. Three-lay layer 1-5/8 in. long for 1/2 in. thick panels or 2-5/8 in. lo Four-layer systems: First bottom edges short 22. A. Fasteners - (Not Shor studs (Item 2). Four-layer systems: First long for 5/8 in. thick parel in. thick panels or 2-5/8 in. lo Four-layer systems: First long for 5/8 in. long screw softest B in. long screw softest B in. forg screws offset B in. forg screws offset B in. forg screws offset B in. forg screws in OC. Screws offset mi A. Farting Members - (beach intersecting stud with 7. Franing Members - alternate to Item 7, furring 7/8 in. deg scribed i use with It B. Steel Fi O's part of the space for an int comparison of the space for an int comparison for a space for a min comparison f	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.'s studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thik /ertical joints centered over s layers (multilayer systems) s zontal edge joints and horizon horizontal butt joints in adjace ? hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 5 layers, 5/8 in. thick 4 layers, 5/8 in. thick 7 layers, 5/8 in. thick 9 layer, 5/8 in. thick 9 layer 2 layer, 1 in. long for 1/2 an 8 in. thick panels, spaced 16 ing for 1/2 in., 5/8 in. thick pa 6 24 in. OC. Screws offset m 8 in. thick panels, spaced 24 in. OC wher hd 12 in. OC. Screws Jos forst 10 layer - 21/4 in. long for 1/2 in. th from layer below. 9 so rs -12 steel screws us screws, spaced 8 in. OC wher hd 12 in. OC in the field when 5 in. OC. Second layer - 1 is./10 scre 2-5/8 in. long screws, space 10 sg. spaced 24 in. OC. Fourth la 5 in. C. Fourth layer - 1 in. long scre 2-5/8 in. long screws, space 10 sg. spaced 24 in. OC. Fourth la sex. Not for use with Item 5A , not shown, for single or dou mbers as described below: MSG galv steel. 2-9/16 in. or edicular to studs. Channels as descri ttach furring channels as descri ttach furrin	A staggered one studies and staggered one staggered one studies and studies and staggered one studies and studies and staggered one studies and studies and studies and studies and staggered one studies and	Is to proveled, stud ry. Ite sides rstems) Is to or 1-1/4 and or 1-1/4 and in. long in. long in. second (8 in. Second (8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC - 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP- USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 5H. Gypsum Board* - (M of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5/ Protection on Each Side of taperad edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 5I. Gypsum Board* - (At tapered edges installed as of CGC INC - Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 5J. Gypsum Board* - (N wall when 1/2 in. or 5/8 in used with Item 3). Nom 5/ in used with Item 3). Nom 5/ steel screws, one at the feld. optional at remaining stud placed on the face of studs steel screws, one at the top	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of No. of Layers & Thickness of Panel 2 layers, 1/2 in. thick 2 layers, 5/8 in. thick 3 layers, 1/2 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 1/2 in. thick 2 layers, 1/2 in. thick 4 layers, 1/2 in. thick - Arays, 5/8 in. thick 4 layers, 1/2 in. thick - Arays, 5/8 in. thick Type AR, C, IF k Type C, IP-X2, IPC-AR or; 5/8 in. The CD - 1/2 in. Type C; 5/8 in. Types C e C, IP-X2, IPC-AR or; 5/8 in. thick 3 or ULTRACODE an alternate to Item 5 when used specified. For direct attachment or be used as alternate to all 5/8 or 18 or 3/4 or 1/4 in. long Type S-3 board secured to 20 MSG steel stus and 12 in. OC in the field. For Joi ad Discs (see Item 12A). elded Gypsum term 5) — Nom. 5/8 in. thick gyps 5. Steel stud minimum depth shall an alternate to Item 5 when used specified, For direct attachment or cked gypsum panels with beveled, and staggered min 1 stud cavity or 2 steel stud with construction adhesive me at the bottom of the strip. Lew	UL 263 multilayer systems) stagge e as follows:	red a min of red a min of min of min		 SK. Gypsum Board* - (() square or tapered edges, a cavity on opposite sides of Horizontal joints need not b of studs need not be stagg need not be staggered. The Rating, Hr 2 3 4 UNITED STATES GYPSUP 6. Fasteners - (Not Shoo studs (Item 2) or furring cl in. long for 3/4 in. thick pa- long for 1/2 and 5/8 in. thick pa- long for 1/2 in. 5/8 in. thi from first layer. Three-lay layer - 1-5/8 in. long for 1/2 in. fong for 1/2 in. 5/8 in. thi from first layer. Systems: Firs long for 5/8 in. thick panel in. thick panels or 2-5/8 in. lo 6. Fasteners - (Not Sho studs (Item 2) or furring cl in. from Jayer systems: First long for 5/8 in. thick panel in. thick panels, spaced 12 6. Fasteners - (Not Sho four-layer systems: First long for 5/8 in. long screw in. from layer below. Four- screws, spaced 24 in. OC. 8 in. OC. Screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS each intersecting stud with 7. Furring Channels - (C) fabricated from min 25 MS in. OC. Screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS in. OC. Screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS in. OC. Screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS in. OC. Screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS in. oc. screws offset mi 7. Furring Channels - (C) fabricated from min 25 MS in. oc. screws offset mi 8. Steel Fi Clips space (2 in. mir V (2.75) d) Clips space (2 in. mir V (2.75) d) Clips space 7. Furring Channels and Steel 	BXUV.U419 - Fire Resis Not Shown) — (As an alternate tipplied vertically or horizontally. Sistuds. Vertical joints in adjacent be backed by steel framing. Horiered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 100 — 5/8 in. thick Type ULIX wn) — For use with Items 2 and hannels (Item 7). Single layer sinels, spaced 8 in. OC when pane C in the field when panels are aj anels or 1-1/4 in. long for 3/4 in ck panels or 2-1/4 in. long for 3/4 er systems: First layer-1 in. long for 5/8 in. thick panels, space ang for 5/8 in. thick panels, space tayer-1 in. long for 1/2 in., 5/7 ck panels, spaced 24 in. OC. Thil Single layer systems: 1 in. long ong vertical and bottom edges ar syster-1 in. long screws, spaced 10 mf first layer. Three-layer system in, from layer below. Dptional, Not Shown, for single of G corrosion-protected steel, spaced 1/2 in. nog Type S-12 steel screw (Coptional on one or both sides g channels and Steel Framing Me Channels — Formed of No. 25 Ip spaced max. 24 in. OC. Roler have main subsect Steel, spaced in 2 in. occ SIC-1 and R imum self-drilling, S-12 steel screw (Coptional on one or both sides g channels and Steel Framing Me Channels — Formed of No. 25 Ip spaced max. 24 in. OC REIC-1 and R imum self-drilling, S1-2 steel screw (Dotional, Not Shown, for single of Single layer systems: - Used to a d max. 48 in. OC, RSIC-1 and R imum self-drilling, S1-2 steel screw in 2-9/16 in. wide furring channels 2 in. wide furring channels 2 in. wide furring channels. RNATIONALLLLC — Types RSIC — (Optional, Not Shown) — As a Framing Members on only one si	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /vertical joints centered over s' layers (multilayer systems) s zontal edge joints and horizor horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 lied vertically. Two layer s thick panels, spaced 16 in. 6 gr or 1/2 in., 5/8 in. thick parels, spaced 16 in. 6 gr or 1/2 in., 5/8 in. thick parels, spaced 16 in. 6 gr or 1/2 in., 5/8 in. thick parels, spaced 16 in. 7 e 2-5/8 in. long for 1/2 in. th from layer below. 7 pe S or S-12 steel screws us screws, spaced 8 in. OC wher d 12 in. OC. Screws offset m 8 in. thick panels, spaced 24 in. OC. 7 in the field when 5 in. OC. Second layer - 1-5/8 is. First layer - 1 in. long for 1/2 in. th from layer below. 7 double layer systems) — Re ised vertically a max of 24 in. Of s, spaced 24 in. OC. Fourth la r double layer systems) — Re ised vertically a max of 24 in. Of s, spaced 24 in. OC. Fourth la r double layer systems) — Re ised vertically a max of 24 in. of s, not shown, for single or dou mbers as described below: MSG galv steel. 2-9/16 in. or dicular to studs. Channels as descri ttach furring channels (Item 7 SIC-1 (2.75) cilps secured to in. or fulted into cilps, RS: s. RSIC-1 (2.75) and RSIC-V -1, RSIC-V, RSIC-1 (2.75), R n alternate to Item 7, for sing de of studs as described below	A stand	Is to proveled, stud ry. Ite sides rstems) Is to or 1-1/4 and or 1-1/4 and in. long in. long in. second (8 in. Second (8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 3 3 4 4 4 4 CGC INC - 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP- USG BORAL ZAWAWI DR USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 5H. Gypsum Board* - (M of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5/ Protection on Each Side of taperad edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 5I. Gypsum Board* - (At tapered edges installed as of CGC INC - Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 5J. Gypsum Board* - (N wall when 1/2 in. or 5/8 in used with Item 3). Nom 5/ in used with Item 3). Nom 5/ steel screws, one at the feld. optional at remaining stud placed on the face of studs steel screws, one at the top	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of Image: Source Structure	UL 263 multilayer systems) stagge e as follows:	red a min of red a min of min of min		SK. Gypsum Board* – (() square or tapered edge, a cavity on opposite sides of horizontal joints need not 1 of studs need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shor studs (Item 2) or furring of the staggered at 1 <i>a</i> (1) 2 3 4 UNITED STATES GYPSUM 6. Fasteners – (Not Shor studs (Item 2) or furring of 1/2 and 5/8 in. thick pare jong for 1/2 in. 5/8 in. thi from first layer. Three-lay layer 1-5/8 in. long for 1/2 in. for for 5/8 in. thick parel in. thick panels or 2-5/8 in. lo four-layer systems: First long for 5/8 in. thick panel in. thick panels, spaced 12 6. Fasteners – (Not Sho furg for 1/2 in. 5/8 in. thi long for 5/8 in. thick panel in. thick panels, spaced 12 6. Fasteners – (Not Shi furg for 1/2 in. 5/8 in. thi long for 5/8 in. long screw screws, spaced 24 in. OC. 8 in. OC. Screws offset mi 7. Furring Channels – (C) 7. Firaring Members* - alternate to Item 7, furring 7/8 in. deg described i use with Ite b. Steel Fi diss space 1/2 in. min V (2,75) di through the for use wit with 2-237 PAC INTEF	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.'s studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.5/8 1.	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi /ertical joints centered over s' layers (multilayer systems) : zontal edge joints and horizon horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. thick 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 2 layers, 5/8 in. long for 1/2 and 1 layer, 5/8 in. long for 1/2 and 1 layer, 5/8 in. long for 1/2 and 1 layer, 5/8 in. long for 1/2 in. the 1 layer, 5/8 in. long screws, spaced 2 speced 2 layer, 1 in. long for 1/2 in. OC. Secound layer, 1 5/8 is. First layer, 1 in. long screw, space 2 speced 24 in. OC. Fourth la 1 couble layer systems) — Re r double layer systems) — Re r double layer systems) — Re r double layer systems) — Re tach furring channels as described below: MSG galv steel, 2-9/16 in. or py16 in. minimum self-drillin tach furring channels as described below: MSG galv steel, spaced 24 in. 4 in ttem b. Batts and Blank MSG galv steel, spaced 24 in. 4 in later b. Batts and Blank	A standard staggered one studies and staggered one stud cavity tail butt joints on opposite int layers (multilayer system staggered one studies and staggered staggered one studies and staggered staggered one studies and staggered one studies and staggered one studies and staggered one studies and staggered stagered staggere	Is to proveled, stud ry. Ite sides rstems) Is to or 1-1/4 and or 1-1/4 and in. long in. long in. second (8 in. Second (8 in.
		staggered. Horizontal edge 12 in. The thickness and nu Rating, Hr 2 2 2 3 3 4 4 4 4 CGC INC — 1/2 in. thick Ty or; 3/4 in. thick Types IP-X UNITED STATES GYPSUM AR, C, , FRX-G, IP-AR, IP-: USG BORAL ZAWAWI DR USG MEXICO S A DE C V - IPC-AR, SCX, SHX, or; 3/4 SH. Gypsum Board* — (N of wall when 5/8 or 3/4 in 1 used with Item 3) - Nom 5/ Protection on Each Side of tapered edges, applied vert opposite sides of studs. Wa perimeter and 12 in. OC in 12 steel screws spaced 8 in with Lead Batten Strips (se MAYCO INDUSTRIES INC 5I. Gypsum Board* — (At tapered edges installed as of CGC INC — Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 5J. Gypsum Board* — (At tapered edges installed as of CGC INC — Type ULX UNITED STATES GYPSUM USG MEXICO S A DE C V - 5J. Gypsum Board* — (N wall when 1/2 in. of 5/8 in used with Item 3). Nom 5/ vertically. Vertical joints ce secured to studs with 1-1/4 and 12 in. OC in the field.] optional at remaining stud placed on the face of studs steel screws, one at the top 0.085 in. thick. Compressio 99.9% meeting the Federal	BXUV.U4 joints and horizont mber of layers for Gypsum B Min Stud Depth, in. Item 2E 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8	119 - Fire Resistance Ratings - ANSI// 1al butt joints in adjacent layers (r the 2 hr, 3 hr and 4 hr ratings are coard Protection on Each Side of Image: Source Structure	UL 263 multilayer systems) stagge a as follows:	red a min of red a min of min of min		Sk. Gypsum Board* - ((l square or tapered edges, a cavity on opposite sides of Horizontal joints need not be stagg need not be staggered. The Rating, Hr 1 2 3 4 UNITED STATES GYPSUP 6. Fasteners - (Not Shot studs (Item 2) or furring clinion for 3/4 in. thick part of 1/2 and 5/8 in. thick part of 1/2 and 5/8 in. thick part of 1/2 and 5/8 in. thick part of 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in., 5/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. long for 1/2 in. S/8 in. thick parts or 2-5/8 in. OC. 3 Contracting tud with 5/2 MS/2 in. Micro State or 1/2 in. Micro State or 1/2 in. Micro State or 1/2 MS/2 in. Micro State or 1/2 in. Micro State or 1/2 in. Micro State or 1	BXUV.U419 - Fire Resis Not Shown) — (As an alternate t ipplied vertically or horizontally.'s studs. Vertical joints in adjacent be backed by steel framing. Hori ered. Horizontal edge joints and e number of layers for the 1 hr, 2 Gypsum Board Protect Min Stud Depth, in. Items 2 through 20 3-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-5/8 1-	tance Ratings - ANSI/UL 263 o Item 5) — Nom. 5/8 in. thi //ertical joints centered over s' zontal edge joints and horizor horizontal butt joints in adjace 2 hr, 3 hr and 4 hr ratings are tion on Each Side of Wall No. of Layers & Thkns of Panel 1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 3 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layers, 5/8 in. thick 4 layers, 5/8 in. thick 4 layers, 5/8 in. thick 9 layer, 5/8 layer 2 layer 9 thick panels, spaced 16 in. C 4 in. thick panels, spaced 16 in. C 4 in. OC. Screws offset m 8 in. thick panels, spaced 24 in. OC 16 layer 2 l/4 in. long for 1/2 in. th 17 mayer below. 19 S or S-12 steel screws uss screws, spaced 8 in. OC where 15/8 19 lis: First layer 1 in. long scree 2 -5/8 in. long screws, space 10 log screws, spaced 24 in. OC 5, spaced 24 in. OC. Fourth la 12 in. OC. Second layer - 15/8 10. long screws, spaced 24 in. OC 5, spaced 24 in. OC. Fourth la 12 r double layer systems) — Re 12 red vertically a max of 24 in. or 13 log screws, spaced 24 in. Of 14 layer 15 layer 16 layer 16 layer 15 layer 16 layer 16 layer 16 layer 16 layer 16 layer 17 SIC - 1 (2.75) clips secured to 17 dicular to studs. Channels se 18 screw through the center gromm 9/16 in. minimum self-drillin 18 firstlayer-1 (2.75) and RSIC-V -1, RSIC-V, RSIC-1 (2.75), R 10 alternate to Item 7, for sing 19 de of studs as described below	A standard staggered one studies and staggered one stud cavity tail butt joints on opposite int layers (multilayer system staggered one studies and staggered staggered one studies and staggered staggered one studies and staggered one studies and staggered one studies and staggered one studies and staggered stagered staggere	Is to proveled, stud ry. Ite sides rstems) Is to or 1-1/4 and in. long in. long in. second (8 in. % -5/8 in. ;/8 in. is cond in. long spaced ched to s an

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BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

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2G. Framing Members* – Steel Studs – Not Shown – In lieu of Item 2 – proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. STUDCO BUILDING SYSTEMS – CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES LLC — TRUE-STUD™

21. Framing Members* – Steel Studs – (As an alternate to Item 2, For use with Items 5C or 5L or 5K) – Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. TELLING INDUSTRIES LLC – Viper25[™]

2J. Framing Members* – Metal Studs – Not Shown – In lieu of Item 2 – proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES L L C – Viper20[™]

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
 EB MéTAL INC — EB Stud

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* – Steel Studs – As an alternate to Item 2 – For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC – StudRite[™]

20. Framing Members* – Steel Studs – As an alternate to Item 2 – proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD – Rondo Lipped Wall Stud

Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.
 Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies. 4A. **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. http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/UL+263... 5/11

> BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ba) 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 dryvall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. **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 5. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 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

7D. Steel Framing Members* – (Optional, Not Shown) – 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 b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.
 b. Steel Framing Members* – Used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. Oc., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
 STUDCO BUILDING SYSTEMS – RESILMOUNT Sound Isolation Clips - Type A237 or A237R

Soint 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 scorrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
 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

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 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". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.
 Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with

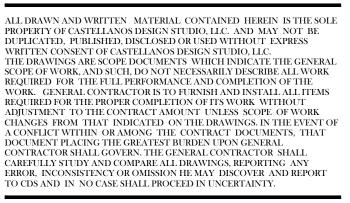
11A. Lead batten Strips — (Not Shown, For Use With Item SH) — Lead batten Strips, 2 in. Wide, max 10 ft long With a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "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 SB) — 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 SB) 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 5H) – 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 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

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CLIENT : 747 4th Street Interior Renovations 747 4th Street Miami Beach, FL 33139 Folio: 02-4203-009-3050 ASTELLANOS DESIGN STUDIO 333 SE 2ND AVENUE, SUITE 2066 **MIAMI**, FL 33131 Tel: 786.218.5335 License #AA 26002467 WWW.CASTELLANOSDESIGN.COM No. DATE ISSUED / REVISED 1 29 AUG/16 SCHEMATIC DESIGN 2 1 SEP/16 DESIGN REVISION - 1 3 14 SEP/16 DESIGN REVISION - 2

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