

Interior walls with UltraSTEEL® drywall framing

ClarkWestern UltraSTEEL framing's 25-gauge EQ composite limiting heights
(1 layer 1/2" thick gypsum wallboard)*

Stud member	Spacing (inches)	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 UDS	12	12' 6"	9' 11"	8' 8"	10' 11"	8' 8"	—	9' 11"	7' 11"	—	8' 8"	—	—
	16	11' 4"	9' 0"	7' 11"	9' 11"	7' 11"	—	9' 0"	—	—	—	—	—
	24	9' 11"	7' 11"	—	8' 8"	—	—	7' 11"	—	—	—	—	—
250 UDS	12	15' 8"	12' 5"	10' 10"	13' 8"	10' 10"	9' 6"	12' 4" f	9' 11"	8' 8"	10' 1" f	8' 8"	—
	16	14' 2"	11' 3"	9' 10"	12' 5"	9' 10"	8' 7"	11' 3"	8' 11"	7' 10"	8' 11" s	7' 10"	—
	24	12' 4"	9' 10"	8' 7"	10' 9"	8' 7"	—	9' 9" f	7' 9"	—	—	—	—
362 UDS	12	20' 10"	16' 7"	14' 3"	18' 3"	14' 3"	12' 3"	16' 3" f	12' 10"	11' 0"	12' 10" f	11' 0"	9' 6"
	16	19' 1"	15' 1"	12' 10"	16' 5" f	12' 10"	11' 0"	13' 11" f	11' 6"	9' 11"	11' 0" f	9' 11"	8' 6"
	24	16' 6" f	12' 11"	11' 0"	13' 1" f	11' 0"	9' 5"	11' 2" f	9' 11"	8' 6"	8' 10"	8' 6"	—
400 UDS	12	22' 5"	17' 9"	15' 6"	19' 7"	15' 6"	13' 2"	17' 0" f	13' 10"	11' 9"	13' 4" s	11' 9"	10' 1"
	16	20' 6"	16' 3"	13' 10"	17' 0" f	13' 10"	11' 9"	14' 6"	12' 4"	10' 6"	11' 1" s	10' 6"	9' 0"
	24	17' 1" f	13' 11"	11' 9"	13' 8" f	11' 9"	10' 10"	11' 7" f	10' 6"	9' 0"	8' 11" s	8' 11" s	—
600 UDS	12	29' 10"	23' 8"	20' 9"	24' 7" f	20' 9"	18' 1"	20' 9" s	18' 10"	16' 5"	13' 10" s	13' 10" s	13' 10" s
	16	25' 7" f	21' 6"	18' 9"	20' 11" f	18' 9"	16' 5"	17' 1" s	17' 1" s	14' 8"	11' 5" s	11' 5" s	11' 5" s
	24	20' 6" f	18' 9"	16' 5"	16' 9"	16' 5"	13' 10"	13' 5" s	13' 5" s	12' 3"	9' 0" s	9' 0" s	9' 0" s

ClarkWestern UltraSTEEL framing's 20-gauge EQ composite limiting heights
(1 layer 1/2" thick gypsum wallboard)*

Stud member	Spacing (inches)	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 UDS	12	17' 4"	13' 9"	12' 0"	15' 2"	12' 0"	7' 7"	13' 9"	8' 9"	—	12' 0"	—	—
	16	12' 8"	10' 1"	8' 10"	11' 1"	8' 10"	7' 8"	10' 1"	8' 0"	—	8' 10"	—	—
	24	14' 0"	9' 0"	—	12' 3"	—	—	9' 0"	—	—	—	—	—
250 UDS	12	19' 10"	15' 9"	13' 6"	17' 4"	13' 6"	10' 8"	15' 9"	11' 5"	9' 1"	13' 6"	9' 1"	—
	16	16' 5"	13' 0"	11' 4"	14' 4"	11' 4"	9' 11"	13' 0"	10' 4"	9' 0"	9' 5" f	9' 0"	7' 10"
	24	16' 0"	11' 10"	9' 5"	14' 0"	9' 5"	7' 8"	11' 10"	8' 1"	—	9' 5"	—	—
362 UDS	12	22' 0"	17' 5"	15' 1"	19' 2"	15' 1"	12' 10"	17' 5"	13' 5"	11' 5"	15' 1"	11' 5"	9' 9"
	16	19' 4"	15' 4"	13' 5"	16' 11"	13' 5"	11' 9"	15' 4"	12' 2"	10' 8"	12' 11" f	10' 8"	9' 3"
	24	17' 8"	13' 8"	11' 7"	15' 5"	11' 7"	9' 11"	13' 8"	10' 4"	8' 10"	11' 7"	8' 10"	7' 7"
400 UDS	12	24' 3"	19' 3"	16' 9"	21' 2"	16' 9"	14' 8"	19' 3"	15' 3"	13' 2"	16' 9"	13' 2"	11' 3"
	16	21' 9"	17' 3"	15' 0"	19' 0"	15' 0"	13' 2"	17' 3"	13' 8"	11' 11"	15' 0"	11' 11"	10' 5"
	24	19' 5"	15' 5"	13' 3"	17' 0"	13' 3"	11' 1"	15' 5"	11' 8"	9' 10"	12' 10" f	9' 10"	8' 3"
600 UDS	12	30' 8"	24' 4"	21' 3"	26' 9"	21' 3"	18' 7"	24' 4"	19' 4"	16' 10"	21' 3"	16' 10"	14' 7"
	16	28' 0"	22' 3"	19' 5"	24' 6"	19' 5"	17' 0"	22' 3"	17' 8"	15' 5"	18' 9" f	15' 5"	13' 5"
	24	25' 0"	19' 10"	17' 4"	21' 10" f	17' 4"	14' 10"	18' 11" f	15' 7"	13' 2"	14' 3" s	13' 2"	11' 3"

Tested to ICC acceptance criteria AC86.

* Composite limiting heights based on single layer gypsum board full height on each side with screws spaced 12" O.C. to framing members per ASTM C754.

Minimum yield strength = 40 ksi f: Flexural stress controls allowable wall height s: Shear/web crippling control allowable wall height

(For additional UltraSTEEL span charts, visit clarkwestern.com.)

ClarkWestern UltraSTEEL framing's 25-gauge EQ composite limiting heights
(1 layer 5/8" thick gypsum wallboard)*

Stud member	Spacing (inches)	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 UDS	12	13' 2"	10' 6"	9' 2"	11' 6"	9' 2"	—	10' 6"	8' 5"	—	8' 8"	—	—
	16	12' 2"	9' 8"	8' 5"	10' 8"	8' 5"	—	9' 8"	—	—	—	—	—
	24	10' 9"	8' 6"	—	9' 4"	—	—	8' 6"	—	—	—	—	—
250 UDS	12	16' 0"	13' 1"	11' 5"	14' 3"	11' 5"	9' 11"	12' 4"	10' 5"	8' 10"	10' 1"	8' 10"	—
	16	14' 11"	11' 10"	10' 4"	13' 1"	10' 4"	9' 1"	11' 4"	9' 5"	8' 3"	8' 11"	8' 3"	—
	24	13' 0"	10' 4"	8' 11"	11' 3"	8' 11"	—	9' 9"	7' 11"	—	—	—	—
362 UDS	12	21' 4"	17' 1"	14' 7"	18' 8"	14' 7"	12' 5"	16' 3"	13' 0"	11' 1"	12' 10"	11' 1"	9' 6"
	16	19' 5"	15' 4"	13' 1"	16' 6"	13' 1"	11' 2"	13' 11"	11' 9"	10' 1"	11' 0"	10' 1"	8' 8"
	24	16' 8"	13' 2"	11' 2"	13' 1"	11' 2"	9' 6"	11' 2"	10' 0"	8' 6"	8' 10"	8' 6"	—
400 UDS	12	23' 1"	18' 4"	15' 11"	19' 7"	15' 11"	13' 7"	17' 0"	14' 2"	12' 1"	13' 4"	12' 1"	10' 3"
	16	20' 10"	16' 8"	14' 3"	17' 0"	14' 3"	12' 1"	14' 6"	12' 8"	10' 10"	11' 1"	10' 10"	9' 3"
	24	17' 1"	14' 4"	12' 2"	13' 8"	12' 2"	10' 2"	11' 7"	10' 9"	9' 1"	8' 11"	8' 11"	—
600 UDS	12	30' 1"	23' 11"	20' 10"	24' 7"	20' 10"	18' 3"	20' 9"	19' 0"	16' 7"	13' 10"	13' 10"	13' 10"
	16	25' 7"	21' 8"	19' 0"	20' 11"	19' 0"	16' 7"	17' 1"	17' 1"	14' 9"	11' 5"	11' 5"	11' 5"
	24	20' 6"	19' 0"	16' 8"	16' 9"	16' 8"	14' 0"	13' 5"	13' 5"	12' 3"	9' 0"	9' 0"	9' 0"

ClarkWestern UltraSTEEL framing's 20-gauge EQ composite limiting heights
(1 layer 5/8" thick gypsum wallboard)*

Stud member	Spacing (inches)	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 UDS	12	18' 1"	14' 5"	12' 7"	15' 10"	12' 7"	7' 11"	14' 5"	9' 4"	—	12' 7"	—	—
	16	13' 7"	10' 9"	9' 5"	11' 10"	9' 5"	8' 3"	10' 9"	8' 7"	—	9' 5"	—	—
	24	15' 5"	9' 9"	—	13' 6"	—	—	9' 9"	—	—	—	—	—
250 UDS	12	21' 1"	16' 9"	14' 5"	18' 5"	14' 5"	11' 2"	16' 9"	12' 0"	9' 5"	14' 5"	9' 5"	—
	16	17' 2"	13' 8"	11' 11"	15' 0"	11' 11"	10' 5"	13' 8"	10' 10"	9' 5"	9' 6"	9' 5"	8' 3"
	24	17' 1"	12' 6"	9' 9"	14' 11"	9' 9"	7' 9"	12' 6"	8' 4"	—	9' 9"	—	—
362 UDS	12	22' 6"	17' 10"	15' 5"	19' 8"	15' 5"	13' 0"	17' 10"	13' 8"	11' 6"	15' 5"	11' 6"	9' 9"
	16	19' 8"	15' 8"	13' 8"	17' 2"	13' 8"	11' 11"	15' 8"	12' 5"	10' 10"	12' 11"	10' 10"	9' 6"
	24	18' 3"	14' 0"	11' 10"	15' 10"	11' 10"	10' 0"	14' 0"	10' 6"	8' 11"	11' 10"	8' 11"	7' 9"
400 UDS	12	24' 11"	19' 9"	17' 3"	21' 9"	17' 3"	15' 1"	19' 9"	15' 8"	13' 6"	17' 3"	13' 6"	11' 5"
	16	22' 3"	17' 8"	15' 5"	19' 5"	15' 5"	13' 6"	17' 8"	14' 0"	12' 3"	15' 5"	12' 3"	10' 8"
	24	20' 1"	15' 11"	13' 8"	17' 6"	13' 8"	11' 4"	15' 11"	11' 11"	9' 11"	12' 10"	9' 11"	8' 5"
600 UDS	12	30' 11"	24' 7"	21' 5"	27' 0"	21' 5"	18' 9"	24' 7"	19' 6"	17' 0"	21' 5"	17' 0"	14' 9"
	16	28' 4"	22' 6"	19' 8"	24' 9"	19' 8"	17' 2"	22' 6"	17' 10"	15' 7"	18' 10"	15' 7"	13' 7"
	24	25' 5"	20' 2"	17' 8"	21' 11"	17' 8"	15' 0"	18' 11"	15' 9"	13' 3"	14' 4"	13' 3"	11' 5"