

Interior Framing Limiting Heights

Stud Depth mm (in.)	Stud Spacing mm in.	Design Limit Pa psf	Allowable Deflection	25 Gauge (18 mil) 0.455 mm min.(0.01799 min.)		20 Gauge (33 mil) 0.836 mm min.(0.03299 min.)	
				mm	(ft.-in.)	mm	(ft.-in.)
41 mm (1-5/8) (162S125-18/33)	600 24	240 5	L/120	2970	(9-9)	3350	(11-0)
41 mm (1-5/8) (162S125-18/33)	600 24	240 5	L/240	2410	(7-11)	2670	(8-9)
41 mm (1-5/8) (162S125-18/33)	600 24	240 5	L/360	2160	(7-1)	2340	(7-8)
41 mm (1-5/8) (162S125-18/33)	400 16	240 5	L/120	3230	(10-7)	3680	(12-1)
41 mm (1-5/8) (162S125-18/33)	400 16	240 5	L/240	2540	(8-4)	2950	(9-8)
41 mm (1-5/8) (162S125-18/33)	400 16	240 5	L/360	2490	(8-2)	2570	(8-5)
64 mm (2-1/2) (250S125-18/33)	600 24	240 5	L/120	3610	(11-10)	4520	(14-10)
64 mm (2-1/2) (250S125-18/33)	600 24	240 5	L/240	3230	(10-7)	3530	(11-7)
64 mm (2-1/2) (250S125-18/33)	600 24	240 5	L/360	2820	(9-3)	3050	(10-0)
64 mm (2-1/2) (250S125-18/33)	400 16	240 5	L/120	4040	(13-3)	5000	(16-5)
64 mm (2-1/2) (250S125-18/33)	400 16	240 5	L/240	3430	(11-3)	3910	(12-10)
64 mm (2-1/2) (250S125-18/33)	400 16	240 5	L/360	3000	(9-10)	3400	(11-2)
92 mm (3-5/8) (362S125-18/33)	600 24	240 5	L/120	4190	(13-9)	5640	(18-6)
92 mm (3-5/8) (362S125-18/33)	600 24	240 5	L/240	4090	(13-5)	4500	(14-9)
92 mm (3-5/8) (362S125-18/33)	600 24	240 5	L/360	3530	(11-7)	3890	(12-9)
92 mm (3-5/8) (362S125-18/33)	400 16	240 5	L/120	4670	(15-4)	6300	(20-8)
92 mm (3-5/8) (362S125-18/33)	400 16	240 5	L/240	4370	(14-4)	5000	(16-5)
92 mm (3-5/8) (362S125-18/33)	400 16	240 5	L/360	3760	(12-4)	4340	(14-3)
102 mm (4) (400S125-18/33)	600 24	240 5	L/120	4600	(15-1)	6320	(20-9)
102 mm (4) (400S125-18/33)	600 24	240 5	L/240	4320	(14-2)	5000	(16-5)
102 mm (4) (400S125-18/33)	600 24	240 5	L/360	3760	(12-4)	4340	(14-3)
102 mm (4) (400S125-18/33)	400 16	240 5	L/120	5230	(17-2)	7040	(23-1)
102 mm (4) (400S125-18/33)	400 16	240 5	L/240	4670	(15-4)	5590	(18-4)
102 mm (4) (400S125-18/33)	400 16	240 5	L/360	4060	(13-4)	4850	(15-11)
152 mm (6) (600S125-18/33)	600 24	240 5	L/120	5110	(16-9)	8280	(27-2)
152 mm (6) (600S125-18/33)	600 24	240 5	L/240	5110	(16-9)	6580	(21-7)
152 mm (6) (600S125-18/33)	600 24	240 5	L/360	5110	(16-9)	5740	(18-10)
152 mm (6) (600S125-18/33)	400 16	240 5	L/120	6020	(19-9)	9400	(30-10)
152 mm (6) (600S125-18/33)	400 16	240 5	L/240	6020	(19-9)	7470	(24-6)
152 mm (6) (600S125-18/33)	400 16	240 5	L/360	5460	(17-11)	6500	(21-4)

Notes: The number following the stud depth is a new industry-wide product identification, created by the Steel Stud Manufacturers Association; (U.S.) the number identifies the member depth, style, flange width and material thickness in mils.

This limiting heights data is from ASTM C754. CGC presents this information only as a reference, and will not be responsible for the performance of walls based on this table. Consult current information from ASTM C754 and SSMMA (Steel Stud Manufacturers Association), and the stud manufacturers for limiting heights characteristics of their particular products.

Limiting heights apply to walls constructed with minimum 12.7 mm (1/2") thickness of gypsum board and with a minimum of one full-height layer on both sides of the stud framing.

Limiting heights are based on tests conducted with gypsum board attached with screws spaced 300 mm (12") o.c. to framing members.

Stud Installation

Insert floor-to-ceiling steel studs between runners, twisting them into position. Position studs vertically, with open side facing in same direction, engaging floor and ceiling runners and spaced 400 mm (16") or 600 (24") o.c. max. as required. Proper alignment will provide for proper bracing, utility runs and prevention of stepped or uneven joint surfaces. The recommended practice for most installations is to anchor only those studs adjacent to door and borrowed light frames. This would also be applicable to