

Interior drywall non-composite 5 PSF Allowable wall heights

Member	Spacing in oc	5 psf		
		L/120	L/240	L/360
250S125-18	12	12' 9"	10' 6"	9' 2"
250S125-18	16	11' 1"	9' 6"	8' 4"
250S125-18	24	9' 0"	8' 4"	7' 3"
250S125-27	12	15' 7"	12' 4"	10' 9"
250S125-27	16	13' 10"	11' 2"	9' 9"
250S125-27	24	11' 4"	9' 9"	8' 6"
250S125-30	12	16' 1"	12' 9"	11' 1"
250S125-30	16	14' 7"	11' 7"	10' 1"
250S125-30	24	12' 1"	10' 1"	8' 10"
250S125-33	12	16' 7"	13' 2"	11' 6"
250S125-33	16	15' 1"	11' 11"	10' 5"
250S125-33	24	13' 0"	10' 5"	9' 1"
362S125-18	12	14' 5"	14' 2"	12' 5"
362S125-18	16	12' 6"	12' 6"	11' 3"
362S125-18	24	10' 2"	10' 2"	9' 10"
362S125-27	12	18' 11"	16' 5"	14' 4"
362S125-27	16	16' 4"	14' 11"	13' 1"
362S125-27	24	13' 4"	13' 1"	11' 5"
362S125-30	12	20' 5"	17' 0"	14' 10"
362S125-30	16	17' 8"	15' 5"	13' 6"
362S125-30	24	14' 5"	13' 6"	11' 9"
362S125-33	12	22' 1"	17' 7"	15' 4"
362S125-33	16	19' 2"	15' 11"	13' 11"
362S125-33	24	15' 8"	13' 11"	12' 2"
400S125-18	12	15' 2"	15' 2"	13' 5"
400S125-18	16	13' 2"	13' 2"	12' 2"
400S125-18	24	10' 9"	10' 9"	10' 8"
400S125-27	12	19' 11"	17' 9"	15' 6"
400S125-27	16	17' 3"	16' 2"	14' 1"
400S125-27	24	14' 1"	14' 1"	12' 4"
400S125-30	12	21' 6"	18' 4"	16' 0"
400S125-30	16	18' 8"	16' 8"	14' 7"
400S125-30	24	15' 3"	14' 7"	12' 8"
400S125-33	12	23' 5"	19' 0"	16' 7"
400S125-33	16	20' 3"	17' 3"	15' 1"
400S125-33	24	16' 6"	15' 1"	13' 2"
600S125-27	12	26' 9"	24' 3"	21' 2"
600S125-27	16	23' 2"	22' 1"	19' 3"
600S125-27	24	18' 11"	18' 11"	16' 10"
600S125-30	12	28' 11"	25' 2"	21' 11"
600S125-30	16	25' 1"	22' 10"	19' 11"
600S125-30	24	20' 5"	19' 11"	17' 5"
600S125-33	12	31' 6"	26' 1"	22' 9"
600S125-33	16	27' 3"	23' 8"	20' 8"
600S125-33	24	22' 3"	20' 8"	18' 1"

These tables provide height limitations for wall framing alone and composite walls & sheathing with gypsum wallboard.

Note: Values on this page apply to standard 1-1/4" flange studs.

< Non-composite table notes:

- Limiting heights based upon a fully braced section, if section is not fully braced on both flanges, please use the AISIWIN software available at www.clarkwestern.com, or contact our Technical Support line at 888-437-3244 for the limiting height and maximum spacing of lateral bracing for the specific condition.
- Values based on $F_y=33$ ksi.
- Lateral loads have not been modified for strength or deflection checks.
- Reference ASTM C754 section 5.3 for the requirements of stud to track connections. Reference ASTM C754 section 5.2 for requirements of runners (track) connections to the building structure.
- Interior drywall framing [18-mil, 27-mil and 30-mil] is not permitted in load bearing (i.e. axial load greater than 100 lb/ft or 200 lbs/stud) or exterior applications (i.e. transverse load greater than 10 PSF). Reference ASTM C645 section 3.2.2.
- Adding additional horizontal bridging will not reduce the actual deflection in the wall. To reduce the deflection of a wall stud either a heavier member is required or an intermediate structural support must be provided.
- A sufficient diaphragm, such as screw-attached gypsum board, may serve as an adequate means of bracing the stud pending the determination of the gypsum supplier or a design professional. Horizontal mechanical bridging would be required if the sheathing diaphragm is not structurally sufficient. In addition, horizontal bridging may be required during the construction phase of a tall wall in order to keep it plumb and true.
- The standard protective coating for interior drywall framing members is a G-40 coating or equivalent. Thicker protective coatings are available. For coatings thicker than a G-40 consult your sales contact to verify lead times.
- Provide 150U50-54 (1-1/2"x16-ga.) cold-rolled channel lateral bracing @ 10'-0" o.c. in walls over 30 ft. tall.

Composite table notes: >

- Composite wall sheathed both sides and full height with 1/2" gypsum wallboard for 18, 30 & 33 mils wall studs.
- Sheathing attached with #6 screws, spaced at 12" o.c. max.
- Subscripts indicate wall height controlled by "v" = shear, "f" = flexural stress and no mark indicates deflection.
- 600S125-18 tested wall assemblies did not include web stiffeners.

ClarkWestern is converting all interior drywall framing to UltraSTEEL® framing. Once your local facility converts to UltraSTEEL they will no longer provide traditional interior drywall stud and track. For more information, contact your local sales representative.

Interior drywall composite SSMA 2001 Allowable wall heights

Member	Spacing in oc	5 psf			10 psf		
		L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	12	11'-2"	8'-10"	NA	8'-10"	NA	NA
162S125-18	16	10'-7"	8'-4"	NA	8'-4"	NA	NA
162S125-18	24	9'-9"	7'-11"	NA	NA	NA	NA
162S125-30	12	12'-5"	9'-11"	NA	9'-11"	NA	NA
162S125-30	16	11'-6"	9'-2"	NA	9'-2"	NA	NA
162S125-30	24	10'-5"	8'-3"	NA	8'-3"	NA	NA
162S125-33	12	13'-0"	10'-4"	9'-0"	10'-4"	NA	NA
162S125-33	16	12'-1"	9'-8"	8'-5"	9'-8"	NA	NA
162S125-33	24	11'-0"	8'-9"	7'-8"	11'-7"	NA	NA
250S125-18	12	15'-1"	11'-11"	10'-5"	10'-9"	9'-6"	NA
250S125-18	16	13'-3"	11'-3"	9'-10"	9'-5"	8'-11"	NA
250S125-18	24	11'-10"	10'-7"	9'-3"	8'-5"	8'-5"	NA
250S125-30	12	16'-8"	13'-2"	11'-6"	13'-2"	10'-5"	9'-1"
250S125-30	16	15'-4"	12'-1"	10'-6"	12'-1"	9'-6"	8'-4"
250S125-30	24	13'-9"	10'-9"	9'-4"	10'-9"	8'-6"	7'-4"
250S125-33	12	17'-9"	13'-11"	12'-1"	13'-11"	10'-11"	9'-5"
250S125-33	16	16'-5"	12'-10"	11'-2"	12'-10"	10'-0"	8'-8"
250S125-33	24	14'-10"	11'-7"	10'-0"	11'-7"	8'-11"	7'-8"
362S125-18	12	17'-8"	15'-4"	13'-3"	12'-5"	12'-0"	10'-5"
362S125-18	16	15'-4"	14'-4"	12'-4"	10'-9"	10'-9"	9'-9"
362S125-18	24	13'-9"	13'-5"	11'-7"	9'-5"	9'-5"	9'-1"
362S125-30	12	21'-8"	17'-1"	14'-10"	17'-1"	13'-5"	11'-8"
362S125-30	16	19'-11"	15'-8"	13'-7"	15'-8"	12'-3"	10'-7"
362S125-30	24	17'-9"	14'-0"	12'-0"	14'-0"	10'-10"	9'-4"
362S125-33	12	22'-6"	17'-10"	15'-6"	17'-10"	14'-1"	12'-4"
362S125-33	16	20'-8"	16'-5"	14'-3"	16'-5"	12'-11"	11'-4"
362S125-33	24	18'-6"	14'-9"	12'-9"	14'-9"	11'-7"	10'-1"
400S125-18	12	19'-6"	16'-5"	14'-4"	13'-8"	13'-0"	11'-4"
400S125-18	16	17'-2"	15'-4"	13'-4"	11'-11"	11'-11"	10'-6"
400S125-18	24	15'-1"	14'-2"	12'-4"	10'-5"	10'-5"	9'-9"
400S125-30	12	24'-0"	19'-0"	16'-6"	19'-0"	14'-11"	12'-11"
400S125-30	16	22'-0"	17'-6"	15'-2"	17'-6"	13'-8"	11'-10"
400S125-30	24	19'-8"	15'-7"	13'-5"	14'-9"	12'-1"	10'-5"
400S125-33	12	25'-1"	19'-11"	17'-4"	19'-11"	15'-8"	13'-7"
400S125-33	16	23'-1"	18'-4"	15'-11"	18'-4"	14'-5"	12'-6"
400S125-33	24	20'-9"	16'-5"	14'-3"	16'-5"	12'-10"	11'-2"
600S125-18	12	22'-10"	22'-1"	19'-4"	16'-2"	16'-2"	15'-0"
600S125-18	16	19'-9"	19'-9"	17'-11"	14'-0"	14'-0"	13'-10"
600S125-18	24	16'-9"	16'-9"	16'-9"	11'-5"	11'-5"	11'-5"
600S125-30	12	32'-1"	25'-6"	22'-3"	24'-7"	20'-3"	17'-6"
600S125-30	16	29'-2"	23'-2"	20'-3"	21'-5"	18'-4"	15'-10"
600S125-30	24	25'-1"	20'-3"	17'-8"	17'-9"	16'-0"	13'-8"
600S125-33	12	33'-9"	26'-9"	23'-5"	26'-9"	21'-3"	18'-7"
600S125-33	16	30'-10"	24'-6"	21'-4"	24'-6"	19'-5"	17'-0"
600S125-33	24	27'-2"	21'-7"	18'-10"	19'-1"	17'-2"	15'-0"