### With structural framing

	M 1			5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	17' 6"	13' 10"	12' 1"
	250S137-33	16	15' 10"	12' 7"	11' 0"
		24	13' 10"	11' 0"	9' 7"
	250S137-43	12	19' 0"	15' 1"	13' 2"
		16	17' 3"	13' 8"	11' 11"
		24	15' 1"	11' 11"	10' 5"
		12	20' 3"	16' 1"	14' 1"
	250S137-54	16	18' 5"	14' 8"	12' 9"
		24	16' 1"	12' 9"	11' 2"
		12	21' 8"	17' 2"	15' 0"
	250S137-68	16	19' 8"	15' 7"	13' 8"
ŝ		24	17' 2"	13' 8"	11' 11"
Ē	250S137-97	12	23' 8"	18' 10"	16' 5"
Ë.		16	21' 6"	17' 1"	14' 11"
a		24	18' 10"	14' 11"	13' 0"
Ę					
ĝ.		12	18' 4"	14' 7"	12' 9"
Š	250S162-33	16	16' 8"	13' 3"	11' 7"
2		24	14' 7"	11' 7"	10' 1"
5		12	19' 11"	15' 10"	13' 10"
	250S162-43	16	18' 1"	14' 4"	12' 7"
		24	15' 10"	12' 7"	11' 0"
		12	21'4"	16' 11"	14' 9"
	250S162-54	16	19' 4"	15' 5"	13' 5"
		24	16' 11"	13' 5"	11' 9"
		12	22' 9"	18' 1"	15' 9"
	250S162-68	16	20' 8"	16' 5"	L/360 12' 1" 11' 0" 9' 7" 13' 2" 11' 11" 10' 5" 14' 1" 12' 9" 11' 2" 15' 0" 13' 8" 11' 11" 16' 5" 14' 11" 16' 5" 14' 11" 16' 5" 14' 11" 16' 5" 14' 11" 16' 5" 14' 11" 16' 5" 14' 11" 13' 0" 12' 9" 11' 7" 10' 1" 13' 10" 12' 7" 11' 1" 10' 1" 13' 10" 12' 7" 11' 1" 13' 5" 11' 9" 13' 5" 11' 9" 15' 9" 14' 4" 15' 9" 13' 9"
		24	18' 1"	14' 4"	12' 6"
		12	25' 0"	19' 10"	17' 4"
	250S162-97	16	22' 9"	18' 0"	15' 9"
		24	19' 10"	15' 9"	13' 9"

		C	5psf		
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	19' 4"	15' 4"	13' 5"
	250S200-33	16	17' 7"	13' 11"	12' 2"
		24	15' 4"	12' 2"	10' 8"
		12	21' 1"	16' 9"	14' 8"
	250S200-43	16	19' 2"	15' 3"	13' 4"
		24	16' 9"	13' 4"	11' 7"
		12	22' 7"	17' 11"	15' 8"
	250S200-54	16	20' 6"	16' 4"	14' 3"
		24	17' 11"	14' 3"	12' 5"
<b>b0</b>		12	24' 2"	19' 2"	16' 9"
٠ <u>ق</u>	250S200-68	16	21' 11"	17' 5"	15' 3"
a n		24	19' 2"	15' 3"	13' 4"
<u> </u>	250S200-97	12	26' 7"	21' 1"	18' 5"
E I		16	24' 2"	19' 2"	16' 9"
t i		24	21' 1"	16' 9"	14' 8"
, t					
2		12	22' 4"	17' 9"	15' 6"
웃는	250S250-43	16	20' 4"	16' 1"	14' 1"
ñ		24	17' 9"	14' 1"	12' 4"
		12	23' 11"	19' 0"	16' 7"
	250S250-54	16	21' 9"	17' 3"	15' 1"
		24	19' 0"	15' 1"	13' 2"
		12	25' 8"	20' 4"	17' 9"
	250S250-68	16	23' 4"	18' 6"	16' 2"
		24	20' 4"	16' 2"	14' 1"
		12	28' 4"	22' 6"	19' 8"
	250S250-97	16	25' 9"	20' 5"	17' 10"
		24	22' 6"	17' 10"	15' 7"

#### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 End reactions must be checked for web crippling seperately.
- 6 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 7 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed  $K\phi = 0$ .
- 8 Cells marked with an " \* " have h/t > 200, and thus require end stiffeners.
- 9 Capacities are calculated according to the AISI-NASPEC S100-16. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs).
- 10 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 11 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI Standard for Cold-Formed Steel Framing - Wall Stud Design.

#### Pub. No. CD-STR-TechGuide 11/20

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#### With structural framing

	A. 1			5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	22' 7"	17' 11"	15' 8"
	350S137-33	16	20' 7"	16' 4"	14' 3"
		24	17' 2"	14' 3"	12' 5"
		12	24' 7"	19' 6"	17' 1"
	350S137-43	16	22' 4"	17' 9"	15' 6"
		24	19' 6"	15' 6"	13' 6"
		12	26' 4"	20' 11"	18' 3"
	350S137-54	16	23' 11"	19' 0"	16' 7"
		24	20' 11"	16' 7"	14' 6"
		12	28' 2"	22' 4"	19' 6"
	350S137-68	16	25' 7"	20' 3"	17' 9"
ŝ		24	22' 4"	17' 9"	15' 6"
Ē		12	30' 11"	24' 7"	21' 5"
Ë,	350S137-97	16	28' 1"	22' 4"	19' 6"
e		24	24' 7"	19' 6"	17' 0"
ţ		1			
Ę.		12	23' 9"	18' 10"	16' 5"
S:	350S162-33	16	21' 7"	17' 1"	14' 11"
12		24	18' 5"	14' 11"	13' 1"
m		12	25' 10"	20' 6"	17' 11"
	350S162-43	16	23' 5"	18' 7"	16' 3"
		24	20' 6"	16' 3"	14' 2"
		12	27' 8"	21' 11"	19' 2"
	350S162-54	16	25' 1"	19' 11"	17' 5"
		24	21' 11"	17' 5"	15' 2"
		12	29' 7"	23' 6"	20' 6"
	350S162-68	16	26' 10"	21' 4"	18' 7"
		24	23' 6"	18' 7"	16' 3"
		12	32' 7"	25' 10"	22' 7"
	350S162-97	16	29' 7"	23' 6"	20' 6"
		24	25' 10"	20' 6"	17' 11"

	Marchan	Service (in)		5psf	5psf	
	Intemper	Spacing (in) o.c.	L/120	L/240	L/360	
		12	24' 11"	19' 10"	17' 4"	
	350S200-33	16	22' 8"	18' 0"	15' 9"	
		24	19' 4"	15' 9"	13' 9"	
		12	27' 3"	21' 8"	18' 11"	
	350S200-43	16	24' 9"	19' 8"	17' 2"	
		24	21' 8"	17' 2"	15' 0"	
		12	29' 3"	23' 2"	20' 3"	
	350S200-54	16	26' 6"	21' 1"	18' 5"	
	0000200 01	24	23' 2"	18' 5"	16' 1"	
<b>b0</b>	350S200-68	12	31' 3"	24' 10"	21' 8"	
Ĩ		16	28' 5"	22' 7"	19' 8"	
Tan 1		24	24' 10"	19' 8"	17' 3"	
-	350S200-97	12	34' 7"	27' 5"	24' 0"	
2		16	31' 5"	24' 11"	21' 9"	
ş		24	27' 5"	21' 9"	19' 0"	
ž.						
		12	28' 9"	22' 10"	19' 11"	
÷ I	350S250-43	16	26' 1"	20' 9"	18' 1"	
n		24	22' 10"	18' 1"	15' 10"	
		12	30' 9"	24' 5"	21' 4"	
	350S250-54	16	27' 11"	22' 2"	19' 4"	
		24	24' 5"	19' 4"	16' 11"	
		12	33' 1"	26' 3"	22' 11"	
	350S250-68	16	30' 0"	23' 10"	20' 10"	
		24	26' 3"	20' 10"	18' 2"	
		12	36' 7"	29' 1"	25' 5"	
	350S250-97	16	33' 3"	26' 5"	23' 1"	
		24	29' 1"	23' 1"	20' 2"	

### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 End reactions must be checked for web crippling seperately.
- 6 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 7 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed  $K\varphi$  = 0.
- 8 Cells marked with an "\*" have h/t > 200, and thus require end stiffeners.
- 9 Capacities are calculated according to the AISI-NASPEC S100-16. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs).
- 10 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
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# ALLOWABLE WALL HEIGHTS

## With structural framing

	A4 1			5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	23' 3"	18' 5"	16' 1"
	362S137-33	16	21' 1"	16' 9"	14' 8"
	3625137-43	24	17' 6"	14' 8"	12' 10"
	362\$137-43	12	25' 3"	20' 1"	17' 6"
		16	23' 0"	18' 3"	15' 11"
		24	20' 1"	15' 11"	13' 11"
	2626127 54	12	27' 1"	21' 6"	18' 9"
	362S137-54	16	24' 7"	19' 6"	17' 1"
		24	21' 6"	17' 1"	14' 11"
	362S137-68	12	28' 11"	22' 11"	20' 1"
		16	26' 3"	20' 10"	18' 3"
Š		24	22' 11"	18' 3"	15' 11"
Ē	362S137-97	12	31' 10"	25' 3"	22' 1"
ů.		16	28' 11"	22' 11"	20' 1"
a		24	25' 3"	20' 1"	17' 6"
Ę					
5		12	24' 4"	19' 4"	16' 11"
Ň	362S162-33	16	22' 2"	17' 7"	15' 4"
8		24	18' 9"	15' 4"	13' 5"
ä		12	26' 6"	21'0"	18' 5"
	362S162-43	16	24' 1"	19' 1"	16' 8"
		24	21' 0"	16' 8"	14' 7"
		12	28' 5"	22' 6"	19' 8"
	362S162-54	16	25' 10"	20' 6"	17' 11"
		24	22' 6"	17' 11"	15' 7"
		12	30' 5"	24' 1"	21' 1"
	362S162-68	16	27' 7"	21' 11"	19' 2"
		24	24' 1"	19' 2"	16' 9"
		12	33' 6"	26' 7"	23' 3"
	362S162-97	16	30' 5"	24' 2"	21' 1"
		24	26' 7"	21' 1"	18' 5"

	A.4 . 1			5psf	5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360	
		12	25' 8"	20' 4"	17' 9"	
	362S200-33	16	23' 3"	18' 6"	16' 2"	
		24	19' 8"	16' 2"	14' 1"	
		12	28' 0"	22' 3"	19' 5"	
	362S200-43	16	25' 5"	20' 2"	17' 8"	
		24	22' 3"	17' 8"	15' 5"	
		12	30' 0"	23' 10"	20' 10"	
	362S200-54	16	27' 3"	21' 8"	18' 11"	
	0010100 01	24	23' 10"	18' 11"	16' 6"	
80		12	32' 2"	25' 6"	22' 3"	
- <u>E</u>	362S200-68	16	29' 2"	23' 2"	20' 3"	
E		24	25' 6"	20' 3"	17' 8"	
<u>ц</u>	362S200-97	12	35' 6"	28' 3"	24' 8"	
n		16	32' 3"	25' 8"	22' 5"	
19		24	28' 3"	22' 5"	19' 7"	
۲.						
8		12	29' 6"	23' 5"	20' 6"	
ι,	362S250-43	16	26' 10"	21' 3"	18' 7"	
κ,		24	23' 5"	18' 7"	16' 3"	
		12	31' 7"	25' 1"	21' 11"	
	362S250-54	16	28' 8"	22' 9"	19' 11"	
		24	25' 1"	19' 11"	17' 4"	
		12	33' 11"	26' 11"	23' 6"	
	362S250-68	16	30' 10"	24' 6"	21' 5"	
		24	26' 11"	21' 5"	18' 8"	
		12	37' 7"	29' 10"	26' 1"	
	362S250-97	16	34' 2"	27' 1"	23' 8"	
		24	29' 10"	23' 8"	20' 8"	

#### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
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- 11 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI Standard for Cold-Formed Steel Framing - Wall Stud Design.

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#### With structural framing

				5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	25' 1"	19' 11"	17' 5"
	400S137-33	16	22' 7"	18' 1"	15' 10"
		24	18' 6"	15' 10"	13' 10"
		12	27' 4"	21' 8"	18' 11"
	400S137-43	16	24' 10"	19' 8"	17' 2"
		24	21' 8"	17' 2"	15' 0"
		12	29' 3"	23' 2"	20' 3"
	400S137-54	16	26' 7"	21' 1"	18' 5"
		24	23' 2"	18' 5"	16' 1"
		12	31' 3"	24' 10"	21' 8"
	400S137-68	16	28' 5"	22' 7"	19' 8"
-		24	24' 10"	19' 8"	17' 2"
<u>آ</u> ي.		12	34' 5"	27' 4"	23' 11"
an T	400S137-97	16	31' 3"	24' 10"	21' 8"
Ξ.		24	27' 4"	21' 8"	18' 11"
nra					
nct		12	26' 3"	20' 10"	18' 3"
Š	400S162-33	16	23' 11"	18' 11"	16' 7"
4		24	19' 10"	16' 7"	14' 6"
1		12	28' 7"	22' 8"	19' 10"
	400S162-43	16	26' 0"	20' 7"	18' 0"
		24	22' 8"	18' 0"	15' 9"
		12	30' 8"	24' 4"	21' 3"
	400S162-54	16	27' 10"	22' 1"	19' 4"
		24	24' 4"	19' 4"	16' 10"
		12	32' 10"	26' 0"	22' 9"
	400S162-68	16	29' 10"	23' 8"	20' 8"
		24	26' 0"	20' 8"	18' 1"
		12	36' 3"	28' 9"	25' 1"
	400S162-97	16	32' 11"	26' 1"	22' 10"
		24	28' 9"	22' 10"	19' 11"

	A.4 . T		5psf		
	Nember	Spacing (in) o.c.	L/120	L/240	L/360
		12	27' 8"	21' 11"	19' 2"
	400S200-33	16	25' 1"	19' 11"	17' 5"
		24	20' 10"	17' 5"	15' 2"
		12	30' 2"	23' 11"	20' 11"
	400S200-43	16	27' 5"	21' 9"	19' 0"
		24	23' 11"	19' 0"	16' 7"
		12	32' 4"	25' 8"	22' 5"
	400S200-54	16	29' 5"	23' 4"	20' 5"
		24	25' 8"	20' 5"	17' 10"
	400S200-68	12	34' 8"	27' 6"	24' 0"
		16	31'6"	25' 0"	21' 10"
		24	27' 6"	21' 10"	19' 1"
		12	38' 5"	30' 6"	26' 7"
	400S200-97	16	34' 10"	27' 8"	24' 2"
		24	30' 6"	24' 2"	21' 1"
_		12	31' 0"	25' 3"	22' 0"
	400\$250_43	16	28' 10"	23 3	22 0
	4000200-40	24	25' 3"	20' 0"	17' 6"
-		12	34' 0"	27' 0"	23' 7"
	400\$250-54	16	30' 10"	24' 6"	21' 5"
		24	27' 0"	21' 5"	18' 8"
		12	36' 7"	29' 0"	25' 4"
	400S250-68	16	33' 3"	26' 4"	23' 0"
		24	29' 0"	23' 0"	20' 1"
		12	40' 7"	32' 2"	28' 1"
	400S250-97	16	36' 10"	29' 3"	25' 7"
		24	32' 2"	25' 7"	22' 4"

### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
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- 10 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
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# ALLOWABLE WALL HEIGHTS

# With structural framing

	M 1			5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	31' 7"	25' 7"	22' 5"
	550S137-33	16	27' 4"	23' 3"	20' 4"
		24	22' 4"	20' 4"	17' 9"
	550S137-43	12	35' 2"	27' 11"	24' 4"
		16	31' 11"	25' 4"	22' 2"
		24	26' 9"	22' 2"	19' 4"
		12	37' 8"	29' 11"	26' 1"
	550S137-54	16	34' 3"	27' 2"	23' 9"
		24	29' 11"	23' 9"	20' 9"
		12	40' 4"	32' 0"	28' 0"
	550S137-68	16	36' 8"	29' 1"	25' 5"
ŝ		24	32' 0"	25' 5"	22' 2"
Ē	550S137-97	12	44' 7"	35' 5"	30' 11"
Ľ.	550S137-97	16	40' 6"	32' 2"	28' 1"
e		24	35' 5"	28' 1"	24' 6"
Ę.					
2		12	33' 8"	26' 9"	23' 4"
Š	550S162-33	16	29' 5"	24' 4"	21' 3"
12		24	24' 0"	21' 3"	18' 6"
ų.		12	36' 8"	29' 1"	25' 5"
	550S162-43	16	33' 4"	26' 5"	23' 1"
		24	29' 1"	23' 1"	20' 2"
		12	39' 4"	31' 3"	27' 3"
	550S162-54	16	35' 9"	28' 5"	24' 9"
		24	31' 3"	24' 9"	21' 8"
		12	42' 2"	33' 6"	29' 3"
	550S162-68	16	38' 4"	30' 5"	26' 7"
		24	33' 6"	26' 7"	23' 3"
		12	46' 9"	37' 1"	32' 5"
	550S162-97	16	42' 5"	33' 8"	29' 5"
		24	37' 1"	29' 5"	25' 8"

	AA 1	c · ( )	5psf		
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	35' 4"	28' 0"	24' 6"
	550S200-33	16	31' 4"	25' 5"	22' 3"
		24	25' 7"	22' 3"	19' 5"
		12	38' 7"	30' 7"	26' 9"
	550S200-43	16	35' 1"	27' 10"	24' 4"
		24	30' 6"	24' 4"	21' 3"
		12	41' 5"	32' 10"	28' 8"
	550S200-54	16	37' 7"	29' 10"	26' 1"
	0000200 01	24	32' 10"	26' 1"	22' 9"
60		12	44' 5"	35' 3"	30' 10"
<u>ب</u> ق	550S200-68	16	40' 4"	32' 0"	28' 0"
Lan		24	35' 3"	28' 0"	24' 5"
Щ.		12	49' 3"	39' 1"	34' 2"
ura	550S200-97	16	44' 9"	35' 6"	31' 1"
nct.		24	39' 1"	31' 1"	27' 1"
Str					
		12	40' 5"	32' 1"	28' 1"
÷.	550S250-43	16	36' 9"	29' 2"	25' 6"
'n		24	31' 4"	25' 6"	22' 3"
		12	43' 3"	34' 4"	30' 0"
	550S250-54	16	39' 3"	31' 2"	27' 3"
		24	34' 4"	27' 3"	23' 10"
		12	46' 7"	37' 0"	32' 4"
	550S250-68	16	42' 4"	33' 7"	29' 4"
		24	37' 0"	29' 4"	25' 8"
		12	51' 10"	41' 2"	35' 11"
	550S250-97	16	47' 1"	37' 4"	32' 8"
		24	41' 2"	32' 8"	28' 6"

#### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 End reactions must be checked for web crippling seperately.
- 6 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 7 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed  $K\phi = 0$ .
- 8 Cells marked with an " \* " have h/t > 200, and thus require end stiffeners.
- 9 Capacities are calculated according to the AISI-NASPEC S100-16. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs).
- 10 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 11 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI Standard for Cold-Formed Steel Framing - Wall Stud Design.

#### Pub. No. CD-STR-TechGuide 11/20

# Complies with AISI S100-16 • IBC 2018

## The technical content of this literature is effective 11/17/20 and supersedes all previous information.

#### With structural framing

	A. 1			5psf	
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	33' 1"	27' 3"	23' 10"
	600S137-33	16	28' 7"	24' 9"	21' 8"
		24	23' 4"	21' 8"	18' 11"
	600S137-43	12	37' 8"	29' 11"	26' 2"
		16	34' 3"	27' 2"	23' 9"
		24	28' 1"	23' 9"	20' 9"
		12	40' 5"	32' 1"	28' 0"
	600S137-54	16	36' 9"	29' 2"	25' 6"
		24	32' 1"	25' 6"	22' 3"
		12	43' 4"	34' 4"	30' 0"
	600S137-68	16	39' 4"	31' 3"	27' 3"
<b>n0</b>		24	34' 4"	27' 3"	23' 10"
.Ĕ		12	47' 11"	38' 0"	33' 2"
me	600S137-97	16	43' 6"	34' 6"	30' 2"
Ē.		24	38' 0"	30' 2"	26' 4"
ura					
ţ		12	35' 6"	28' 8"	25' 0"
, F	600S162-33	16	30' 9"	26' 0"	22' 9"
5		24	25' 2"	22' 9"	19' 10"
Ĩ.,		12	39' 4"	31' 2"	27' 3"
	600S162-43	16	35' 9"	28' 4"	24' 9"
		24	31' 1"	24' 9"	21' 8"
		12	42' 2"	33' 6"	29' 3"
	600S162-54	16	38' 4"	30' 5"	26' 7"
		24	33' 6"	26' 7"	23' 3"
		12	45' 3"	35' 11"	31'4"
	600S162-68	16	41' 1"	32' 7"	28' 6"
		24	35' 11"	28' 6"	24' 11"
		12	50' 1"	39' 9"	34' 9"
	600S162-97	16	45' 6"	36' 2"	31' 7"
		24	39' 9"	31'7"	27' 7"

Momber Specing (in) o g		5psf			
	Member	Spacing (in) o.c.	L/120	L/240	L/360
		12	37' 9"	30' 0"	26' 2"
	600S200-33	16	32' 10"	27' 3"	23' 10"
		24	26' 10"	23' 10"	20' 10"
		12	41' 3"	32' 9"	28' 7"
	600S200-43	16	37' 6"	29' 9"	26' 0"
		24	32' 0"	26' 0"	22' 9"
		12	44' 4"	35' 2"	30' 9"
	600S200-54	16	40' 3"	32' 0"	27' 11"
		24	35' 2"	27' 11"	24' 5"
	600S200-68	12	47' 7"	37' 9"	33' 0"
1		16	43' 2"	34' 4"	29' 11"
		24	37' 9"	29' 11"	26' 2"
		12	52' 10"	41' 11"	36' 7"
	600S200-97	16	48' 0"	38' 1"	33' 3"
		24	41' 11"	33' 3"	29' 1"
		12	12' 2"	34' 4"	30' 0"
	6006250 42	16	201.2"	24' 0"	27' 2"
	0003230-43	24	32' 11"	27' 2"	27.5
		12	16' 3"	21 3	20 10
	600\$250 54	16	40 5	32' //"	20' 1"
	0003230-34	24	42 0	20' 1"	25 1
		12	/0' 10"	23 1	20 0
	6005250-68	16	45' 3"	35' 11"	31' 5"
	0000200-00	24	30' 7"	31' 5"	27' 5"
		12	55' 5"	44' 0"	27 5
	600\$250.07	16	50' 4"	40' 0"	3/1 11"
	0003230-97	24	44'0"	3/111	30' 6"

#### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 End reactions must be checked for web crippling seperately.
- 6 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 7 Allowable moment is the lesser of local and distortional buckling. Stud distortional buckling based on an assumed  $K\varphi$  = 0.
- 8 Cells marked with an " \* " have h/t > 200, and thus require end stiffeners.
- 9 Capacities are calculated according to the AISI-NASPEC S100-16. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs).
- 10 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 11 For deflection calculations, interior wall loads have been multiplied by 1.0 per the AISI Standard for Cold-Formed Steel Framing - Wall Stud Design.

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# ALLOWABLE WALL HEIGHTS

## With structural framing

	Member	Spacing (in) o.c.	5psf			
			L/120	L/240	L/360	
		12	37' 10"	34' 0"	29' 8"	
	800S137-33	16	32' 9"	30' 11"	27' 0"	
		24	26' 9"	26' 9"	23' 7"	
	800S137-43	12	45' 11"	37' 5"	32' 8"	
8" Structural Framing		16	39' 9"	34' 0"	29' 9"	
		24	32' 5"	29' 9"	25' 11"	
	800S137-54	12	50' 9"	40' 3"	35' 2"	
		16	46' 1"	36' 7"	31' 11"	
		24	40' 3"	31' 11"	27' 11"	
	800S137-68	12	54' 10"	43' 6"	38' 0"	
		16	49' 10"	39' 6"	34' 6"	
		24	43' 6"	34' 6"	30' 2"	
	800S137-97	12	60' 10"	48' 4"	42' 2"	
		16	55' 4"	43' 11"	38' 4"	
		24	48' 4"	38' 4"	33' 6"	
	800S162-33	12	41' 0"	35' 5"	30' 11"	
		16	35' 6"	32' 2"	28' 1"	
		24	29'0" e	28' 1"	24' 7"	
	800S162-43	12	49' 1"	38' 11"	34' 0"	
		16	42' 10"	35' 4"	30' 11"	
		24	35' 0"	30' 11"	27' 0"	
	800S162-54	12	52' 9"	41' 10"	36' 7"	
		16	47' 11"	38' 1"	33' 3"	
		24	41' 10"	33' 3"	29' 0"	
	800S162-68	12	57' 0"	45' 3"	39' 6"	
		16	51' 10"	41' 1"	35' 11"	
		24	45' 3"	35' 11"	31' 5"	
		12	63' 5"	50' 4"	43' 11"	
	800S162-97	16	57' 7"	45' 9"	39' 11"	
		24	50' 4"	39' 11"	34' 11"	

	Member	Spacing (in) o.c.	5psf		
			L/120	L/240	L/360
	800S200-33	12	44' 0"	37' 9"	33' 0"
		16	38' 1"	34' 3"	29' 11"
		24	31'1" e	29' 11" e	26' 2"
	800S200-43	12	51' 10"	41' 1"	35' 11"
		16	45' 10"	37' 4"	32' 8"
		24	37' 5"	32' 8"	28' 6"
	800S200-54	12	55' 8"	44' 2"	38' 7"
		16	50' 7"	40' 2"	35' 1"
		24	44' 2"	35' 1"	30' 8"
	800S200-68	12	59' 9"	47' 5"	41' 5"
20		16	54' 4"	43' 1"	37' 8"
Ē		24	47' 5"	37' 8"	32' 11"
	800S200-97	12	66' 6"	52' 9"	46' 1"
		16	60' 5"	47' 11"	41' 11"
5		24	52' 9"	41' 11"	36' 7"
ž					
ñ	800S250-43	12	54' 0"	42' 11"	37' 6"
ø		16	47' 0"	39' 0"	34' 0"
		24	38' 4"	34' 0"	29' 9"
	800S250-54	12	57' 10"	45' 11"	40' 1"
		16	52' 7"	41' 8"	36' 5"
		24	45' 11"	36' 5"	31' 10"
	800S250-68	12	62' 4"	49' 6"	43' 3"
		16	56' 8"	44' 11"	39' 3"
		24	49' 6"	39' 3"	34' 4"
	800S250-97	12	69' 6"	55' 2"	48' 2"
		16	63' 2"	50' 1"	43' 9"
		24	55' 2"	43' 9"	38' 3"

#### Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
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