

# LIMITING WALL HEIGHTS - NON STRUCTURAL

## TELLING NON STRUCTURAL 33 KSI.DB3 ALLOWABLE NON-AXIAL LOAD BEARING WALL HEIGHTS

Section	Fy (ksi)	Spacing		5 psf			10 psf			15 psf		
		(in) oc	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	
162S125-18	33	12	8' 11"	8' 7"	7' 6"	6' 4"	5' 11"	5' 2"	5' 2"	5' 2"		
162S125-18	33	16	7' 9"	7' 9"	6' 10"	5' 6"	4' 5"	4' 5"	4' 5"	4' 5"		
162S125-18	33	24	6' 4"	6' 4"	5' 11"	4' 5"	4' 5"	3' 8" e	3' 8" e	3' 8" e		
162S125-27	33	12	11' 9"	10' 1"	8' 9"	8' 4"	8' 0"	6' 11"	6' 9"	6' 1"		
162S125-27	33	16	10' 2"	9' 1"	8' 0"	7' 2"	6' 4"	5' 10"	5' 10"	5' 6"		
162S125-27	33	24	8' 4"	8' 0"	6' 11"	5' 10"	5' 10"	4' 9"	4' 9"	4' 9"		
162S125-30	33	12	12' 7"	10' 4"	9' 1"	8' 10"	7' 2"	7' 2"	7' 2"	6' 3"		
162S125-30	33	16	10' 10"	9' 5"	8' 3"	7' 8"	7' 5"	6' 3"	6' 3"	5' 8"		
162S125-30	33	24	8' 10"	8' 3"	7' 2"	6' 3"	5' 8"	5' 1"	5' 1"	4' 11"		
162S125-33	33	12	13' 6"	10' 8"	9' 4"	9' 6"	8' 6"	7' 5"	7' 5"	6' 6"		
162S125-33	33	16	11' 8"	9' 9"	8' 6"	8' 3"	7' 8"	6' 9"	6' 9"	5' 10"		
162S125-33	33	24	9' 6"	8' 6"	7' 5"	6' 9"	6' 9"	5' 6"	5' 6"	5' 1"		
250S125-18	33	12	12' 6"	11' 10"	10' 4"	8' 10"	8' 10"	7' 2" e	7' 2" e	7' 2" e		
250S125-18	33	16	10' 10"	10' 9"	9' 5"	7' 7"	7' 5"	6' 3" e	6' 3" e	6' 3" e		
250S125-18	33	24	8' 10"	8' 10"	8' 2"	6' 3" e	6' 3" e	5' 1" e	5' 1" e	5' 1" e		
250S125-27	33	12	16' 0"	13' 11"	12' 2"	11' 3"	11' 0"	9' 2"	9' 2"	8' 5"		
250S125-27	33	16	13' 10"	12' 7"	11' 0"	9' 9"	8' 9"	8' 0"	8' 0"	7' 8"		
250S125-27	33	24	11' 3"	11' 0"	9' 7"	8' 0"	8' 0"	7' 8"	6' 6"	6' 6"		
250S125-30	33	12	17' 0"	14' 4"	12' 6"	12' 0"	11' 4"	9' 11"	9' 9"	8' 8"		
250S125-30	33	16	14' 8"	13' 0"	11' 4"	10' 5"	10' 4"	9' 0"	8' 6"	7' 10"		
250S125-30	33	24	12' 0"	11' 4"	9' 11"	8' 6"	8' 6"	7' 10"	6' 11"	6' 10"		
250S125-33	33	12	18' 2"	14' 10"	12' 11"	12' 10"	11' 9"	10' 3"	10' 5"	9' 0"		
250S125-33	33	16	15' 8"	13' 6"	11' 9"	11' 1"	10' 8"	9' 4"	9' 1"	8' 2"		
250S125-33	33	24	12' 10"	11' 9"	10' 3"	9' 1"	9' 1"	8' 2"	7' 5"	7' 1"		
250S125-43	33	12	20' 4"	16' 1"	14' 1"	15' 3"	12' 9"	11' 2"	12' 5"	11' 2"		
250S125-43	33	16	18' 6"	14' 8"	12' 9"	13' 2"	11' 7"	10' 2"	10' 9"	8' 10"		
250S125-43	33	24	15' 3"	12' 9"	11' 2"	10' 9"	10' 2"	8' 10"	8' 9"	7' 9"		
350S125-18	33	12	13' 9"	13' 9"	13' 7"	9' 8"	9' 8"	7' 11" e	7' 11" e	7' 11" e		
350S125-18	33	16	11' 11"	11' 11"	11' 11"	8' 5" e	8' 5" e	6' 10" e	6' 10" e	6' 10" e		
350S125-18	33	24	9' 8"	9' 8"	9' 8"	6' 10" e	6' 10" e	5' 7" e	5' 7" e	5' 7" e		
350S125-27	33	12	18' 6"	18' 0"	15' 9"	13' 1"	13' 1"	12' 6"	10' 8"	10' 8"		
350S125-27	33	16	16' 0"	16' 0"	14' 4"	11' 4"	11' 4"	9' 3"	9' 3"	9' 3"		
350S125-27	33	24	13' 1"	13' 1"	12' 6"	9' 3"	9' 3"	7' 6" e	7' 6" e	7' 6" e		
350S125-30	33	12	19' 10"	18' 7"	16' 3"	14' 0"	14' 0"	12' 11"	11' 5"	11' 3"		
350S125-30	33	16	17' 2"	16' 11"	14' 9"	12' 2"	12' 2"	11' 8"	9' 11"	9' 11"		
350S125-30	33	24	14' 0"	14' 0"	12' 11"	9' 11"	9' 11"	8' 1"	8' 1"	8' 1"		
350S125-33	33	12	21' 5"	19' 3"	16' 10"	15' 2"	15' 2"	13' 4"	12' 4"	11' 8"		
350S125-33	33	16	18' 6"	17' 6"	15' 3"	13' 1"	13' 1"	12' 1"	10' 8"	10' 7"		
350S125-33	33	24	15' 2"	15' 2"	13' 4"	10' 8"	10' 8"	10' 7"	8' 9"	8' 9"		
350S125-43	33	12	26' 0"	21' 0"	18' 4"	18' 5"	16' 8"	14' 6"	15' 0"	14' 6"		
350S125-43	33	16	22' 6"	19' 0"	16' 8"	15' 11"	15' 1"	13' 2"	13' 0"	11' 6"		
350S125-43	33	24	18' 5"	16' 8"	14' 6"	13' 0"	13' 0"	11' 6"	10' 7"	10' 1"		
350S125-54	33	12	28' 4"	22' 6"	19' 7"	17' 10"	15' 7"	17' 10"	16' 11"	13' 7"		
350S125-54	33	16	25' 5"	20' 5"	17' 10"	18' 0"	16' 2"	14' 2"	14' 8"	12' 4"		
350S125-54	33	24	20' 9"	17' 10"	15' 7"	14' 8"	14' 2"	12' 4"	12' 0"	10' 9"		
350S125-68	33	12	30' 2"	23' 11"	20' 11"	23' 2"	19' 0"	16' 7"	18' 11"	16' 7"		
350S125-68	33	16	27' 5"	21' 9"	20' 11"	19' 0"	17' 3"	15' 1"	16' 4"	13' 2"		
350S125-68	33	24	23' 2"	19' 0"	16' 7"	16' 4"	15' 1"	13' 2"	13' 4"	11' 6"		
362S125-18	33	12	14' 0"	14' 0"	14' 0"	9' 11" e	9' 11" e	8' 1" e	8' 1" e	8' 1" e		
362S125-18	33	16	12' 1"	12' 1"	12' 1"	8' 7" e	8' 7" e	7' 0" e	7' 0" e	7' 0" e		
362S125-18	33	24	9' 11" e	9' 11" e	9' 11" e	7' 0" e	7' 0" e	5' 8" e	5' 8" e	5' 8" e		
362S125-27	33	12	18' 10"	18' 6"	16' 2"	13' 4"	13' 4"	12' 10"	10' 10"	10' 10"		
362S125-27	33	16	16' 4"	16' 4"	14' 8"	11' 6"	11' 6"	9' 5"	9' 5"	9' 5"		
362S125-27	33	24	13' 4"	13' 4"	12' 10"	9' 5"	9' 5"	7' 8" e	7' 8" e	7' 8" e		
362S125-30	33	12	20' 3"	19' 1"	16' 8"	14' 4"	14' 4"	13' 3"	11' 8"	11' 7"		
362S125-30	33	16	17' 6"	17' 4"	15' 2"	12' 4"	12' 4"	12' 0"	10' 1"	10' 1"		
362S125-30	33	24	14' 4"	14' 4"	13' 3"	10' 1"	10' 1"	8' 3"	8' 3"	8' 3"		
362S125-33	33	12	21' 10"	19' 9"	17' 3"	15' 5"	15' 5"	13' 8"	12' 7"	12' 0"		
362S125-33	33	16	18' 11"	18' 0"	15' 8"	13' 4"	13' 4"	12' 5"	10' 11"	10' 11"		
362S125-33	33	24	15' 5"	15' 5"	13' 8"	10' 11"	10' 11"	10' 10"	8' 11"	8' 11"		
362S125-43	33	12	26' 7"	21' 7"	18' 10"	18' 9"	17' 1"	14' 11"	15' 4"	14' 11"		
362S125-43	33	16	23' 0"	19' 7"	17' 1"	16' 3"	15' 6"	13' 7"	13' 3"	11' 10"		
362S125-43	33	24	18' 9"	17' 1"	14' 11"	13' 3"	13' 3"	11' 10"	10' 10"	10' 4"		
362S125-54	33	12	29' 1"	23' 1"	20' 2"	21' 3"	18' 4"	16' 0"	17' 4"	16' 0"		
362S125-54	33	16	26' 0"	21' 0"	18' 4"	18' 4"	16' 8"	14' 6"	15' 0"	14' 6"		
362S125-54	33	24	21' 3"	16' 0"	16' 0"	15' 0"	14' 6"	12' 8"	12' 3"	12' 8"		
362S125-68	33	12	31' 0"	24' 8"	21' 6"	23' 9"	19' 6"	17' 1"	19' 5"	17' 1"		
362S125-68	33	16	28' 2"	22' 4"	19' 6"	20' 7"	17' 9"	15' 6"	16' 10"	15' 6"		
362S125-68	33	24	23' 9"	19' 6"	17' 1"	16' 10"	15' 6"	13' 6"	13' 6"	11' 10"		
400S125-18	33	12	14' 9" e	14' 9" e	14' 9" e	10' 5" e	10' 5" e	8' 6" e	8' 6" e	8' 6" e		
400S125-18	33	16	12' 9" e	12' 9" e	12' 9" e	9' 0" e	9' 0" e	7' 4" e	7' 4" e	7' 4" e		
400S125-18	33	24	10' 5" e	10' 5" e	10' 5" e	7' 4" e	7' 4" e	6' 0" e	6' 0" e	6' 0" e		
400S125-27	33	12	19' 10"	19' 10"	17' 6"	14' 0"	14' 0"	13' 10"	11' 5"	11' 5"		
400S125-27	33	16	17' 2"	17' 2"	15' 11"	12' 2"	12' 2"	9' 11"	9' 11"	9' 11"		
400S125-27	33	24	14' 0"	14' 0"	13' 10"	9' 11"	9' 11"	8' 1" e	8' 1" e	8' 1" e		
400S125-30	33	12	21' 4"	20' 8"	18' 1"	15' 1"	15' 1"	14' 4"	12' 4"	12' 4"		
400S125-30	33	16	18' 6"	18' 6"	16' 5"	13' 1"	13' 1"	13' 0"	10' 8"	10' 8"		
400S125-30	33	24	15' 1"	15' 1"	14' 4"	10' 8"	10' 8"	8' 8"	8' 8"	8' 8"		

### Notes

1. Lateral loads have not been modified for strength checks.
2. Lateral loads have been multiplied by 0.7 for deflection determination.
3. Limiting heights based on continuous support of each flange over the full length of the stud.
4. Limiting heights are based on steel properties only (non-composite).
5. Web crippling check based on 1 inch end bearing. Where listed limiting heights are followed by "e", web stiffeners are required.

# LIMITING WALL HEIGHTS - NON STRUCTURAL

## TELLING NON STRUCTURAL 33 KSI.DB5 ALLOWABLE NON-AXIAL LOAD BEARING WALL HEIGHTS

Section	Fy (ksi)	Spacing (in) oc	5 psf			10 psf			15 psf		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
400S125-33	33	12	23' 1"	21' 4"	18' 8"	16' 4"	16' 4"	14' 10"	13' 4"	13' 4"	12' 11"
400S125-33	33	16	20' 0"	19' 5"	16' 11"	14' 1"	14' 1"	13' 5"	11' 6"	11' 6"	11' 6"
400S125-33	33	24	16' 4"	16' 4"	14' 10"	11' 6"	11' 6"	11' 6"	9' 5"	9' 5"	9' 5"
400S125-43	33	12	28' 2"	23' 4"	20' 4"	19' 11"	18' 6"	16' 2"	16' 3"	16' 2"	14' 1"
400S125-43	33	16	24' 4"	21' 2"	18' 6"	17' 3"	16' 10"	14' 8"	14' 1"	14' 1"	12' 10"
400S125-43	33	24	19' 11"	18' 6"	16' 2"	14' 1"	14' 1"	12' 10"	11' 6"	11' 6"	11' 2"
400S125-54	33	12	31' 6"	25' 0"	21' 10"	22' 6"	19' 10"	17' 4"	18' 5"	17' 4"	15' 1"
400S125-54	33	16	27' 7"	22' 8"	19' 10"	19' 6"	18' 0"	15' 9"	15' 11"	15' 9"	13' 9"
400S125-54	33	24	22' 6"	19' 10"	17' 4"	15' 11"	15' 9"	13' 9"	13' 0"	13' 0"	12' 0"
400S125-68	33	12	33' 7"	26' 8"	23' 3"	25' 5"	21' 2"	18' 6"	20' 9"	18' 6"	16' 1"
400S125-68	33	16	30' 6"	24' 2"	21' 2"	22' 0"	19' 2"	16' 9"	17' 11"	16' 9"	14' 8"
400S125-68	33	24	25' 5"	21' 2"	18' 6"	17' 11"	16' 9"	14' 8"	14' 8"	14' 8"	12' 9"
550S125-27	33	12	25' 5"	25' 5"	22' 4"	18' 0"	18' 0"	17' 9"	14' 8"	14' 8"	14' 8"
550S125-27	33	16	22' 0"	22' 0"	20' 4"	15' 7" e	15' 7" e	15' 7" e	12' 8"	12' 8"	12' 8"
550S125-27	33	24	18' 0"	18' 0"	17' 9"	12' 8" e	12' 8" e	12' 8" e	10' 4" e	10' 4" e	10' 4" e
550S125-30	33	12	27' 5"	26' 6"	23' 2"	19' 4"	19' 4"	18' 4"	15' 10"	15' 10"	15' 10"
550S125-30	33	16	23' 9"	23' 9"	21' 0"	16' 9"	16' 9"	16' 8"	13' 8" e	13' 8" e	13' 8" e
550S125-30	33	24	19' 4"	19' 4"	18' 4"	13' 8" e	13' 8" e	13' 8" e	11' 2" e	11' 2" e	11' 2" e
550S125-33	33	12	29' 8"	27' 6"	24' 0"	21' 0"	21' 0"	19' 0"	17' 1"	17' 1"	16' 7"
550S125-33	33	16	25' 8"	24' 11"	21' 9"	18' 2"	18' 2"	17' 3"	14' 10"	14' 10"	14' 10"
550S125-33	33	24	21' 0"	21' 0"	19' 0"	14' 10"	14' 10"	14' 10"	12' 1" e	12' 1" e	12' 1" e
550S125-43	33	12	36' 3"	30' 1"	26' 3"	25' 8"	23' 10"	20' 10"	20' 11"	20' 10"	18' 2"
550S125-43	33	16	31' 5"	27' 4"	23' 10"	22' 2"	21' 8"	18' 11"	18' 1"	18' 1"	16' 6"
550S125-43	33	24	25' 8"	23' 10"	20' 10"	18' 1"	18' 1"	16' 6"	14' 9"	14' 9"	14' 5"
550S125-54	33	12	40' 8"	32' 3"	28' 2"	29' 2"	25' 7"	22' 5"	23' 10"	22' 5"	19' 7"
550S125-54	33	16	35' 9"	29' 4"	25' 7"	25' 3"	23' 3"	20' 4"	20' 7"	20' 4"	17' 9"
550S125-54	33	24	29' 2"	25' 7"	22' 5"	20' 7"	20' 4"	17' 9"	16' 10"	16' 10"	15' 6"
550S125-68	33	12	43' 6"	34' 6"	30' 2"	34' 6"	27' 5"	23' 11"	29' 0"	23' 11"	20' 11"
550S125-68	33	16	39' 6"	31' 4"	27' 5"	30' 9"	24' 11"	21' 9"	25' 1"	21' 9"	19' 0"
550S125-68	33	24	34' 6"	27' 5"	23' 11"	25' 1"	21' 9"	19' 0"	20' 1"	19' 0"	16' 7"
600S125-27	33	12	26' 8" e	26' 8" e	23' 11" e	18' 10" e	18' 10" e	18' 10" e	15' 5" e	15' 5" e	15' 5" e
600S125-27	33	16	23' 1" e	23' 1" e	21' 8" e	16' 4" e	16' 4" e	16' 4" e	13' 4" e	13' 4" e	13' 4" e
600S125-27	33	24	18' 10" e	18' 10" e	18' 10" e	13' 4" e	13' 4" e	13' 4" e	10' 10" e	10' 10" e	10' 10" e
600S125-30	33	12	28' 9"	28' 4"	24' 9"	20' 4"	20' 4"	19' 7"	16' 4"	16' 4"	16' 7" e
600S125-30	33	16	24' 11"	24' 11"	22' 6"	17' 7"	17' 7"	17' 7"	14' 4" e	14' 4" e	14' 4" e
600S125-30	33	24	20' 4"	20' 4"	19' 7"	14' 4" e	14' 4" e	14' 4" e	11' 9" e	11' 9" e	11' 9" e
600S125-33	33	12	31' 2"	29' 5"	26' 8"	22' 0"	22' 0"	20' 4"	18' 0"	18' 0"	17' 9"
600S125-33	33	16	27' 0"	26' 8"	23' 4"	19' 1"	19' 1"	18' 6"	15' 7" e	15' 7" e	15' 7" e
600S125-33	33	24	22' 0"	22' 0"	20' 4"	15' 7" e	15' 7" e	15' 7" e	12' 8" e	12' 8" e	12' 8" e
600S125-43	33	12	38' 2"	32' 4"	28' 3"	27' 0"	25' 8"	22' 5"	22' 0"	22' 0"	19' 7"
600S125-43	33	16	33' 1"	29' 4"	25' 8"	23' 4"	23' 3"	20' 4"	19' 1"	19' 1"	17' 9"
600S125-43	33	24	27' 0"	25' 8"	22' 5"	19' 1"	19' 1"	17' 9"	15' 7"	15' 7"	15' 6"
600S125-54	33	12	43' 9"	34' 8"	30' 4"	30' 11"	27' 6"	24' 0"	25' 3"	24' 0"	21' 0"
600S125-54	33	16	37' 10"	31' 6"	27' 6"	26' 9"	25' 0"	21' 10"	21' 10"	21' 10"	19' 1"
600S125-54	33	24	30' 11"	27' 6"	24' 0"	21' 10"	21' 10"	19' 1"	17' 10"	17' 10"	16' 8"
600S125-68	33	12	46' 9"	37' 1"	32' 5"	37' 1"	29' 5"	25' 9"	30' 11"	25' 9"	22' 5"
600S125-68	33	16	42' 6"	33' 8"	29' 5"	32' 9"	26' 9"	23' 4"	26' 9"	23' 4"	20' 5"
600S125-68	33	24	37' 1"	29' 5"	25' 9"	26' 9"	23' 4"	20' 5"	21' 10"	20' 5"	17' 10"
800S125-30	33	12	33' 7" e	33' 7" e	30' 10" e	23' 9" e	23' 9" e	23' 9" e	19' 5" e	19' 5" e	19' 5" e
800S125-30	33	16	29' 1" e	29' 1" e	28' 1" e	20' 7" e	20' 7" e	20' 7" e	16' 9" e	16' 9" e	16' 9" e
800S125-30	33	24	23' 9" e	23' 9" e	23' 9" e	16' 9" e	16' 9" e	16' 9" e	13' 8" e	13' 8" e	13' 8" e
800S125-33	33	12	36' 6" e	36' 6" e	32' 1" e	25' 10" e	25' 10" e	25' 6" e	21' 1" e	21' 1" e	21' 1" e
800S125-33	33	16	31' 7" e	31' 7" e	29' 2" e	22' 4" e	22' 4" e	22' 4" e	18' 3" e	18' 3" e	18' 3" e
800S125-33	33	24	25' 10" e	25' 10" e	25' 6" e	18' 3" e	18' 3" e	18' 3" e	14' 11" e	14' 11" e	14' 11" e
800S125-43	33	12	45' 1"	40' 7"	35' 5"	31' 10"	31' 10"	28' 2"	26' 0"	26' 0"	24' 7"
800S125-43	33	16	39' 0"	36' 10"	32' 2"	27' 7"	25' 7"	25' 7"	22' 6"	22' 6"	22' 4"
800S125-43	33	24	31' 10"	31' 10"	28' 2"	22' 6"	22' 6"	22' 4"	18' 5" e	18' 5" e	18' 5" e
800S125-54	33	12	52' 2"	44' 0"	38' 5"	36' 11"	34' 11"	30' 6"	30' 1"	30' 1"	26' 8"
800S125-54	33	16	45' 2"	40' 0"	34' 11"	31' 11"	31' 9"	27' 9"	26' 1"	26' 1"	24' 2"
800S125-54	33	24	36' 11"	34' 11"	30' 6"	26' 1"	26' 1"	24' 2"	21' 3"	21' 3"	21' 2"
800S125-68	33	12	59' 6"	47' 3"	41' 3"	42' 6"	37' 6"	32' 9"	34' 9"	32' 9"	28' 7"
800S125-68	33	16	52' 1"	42' 11"	37' 6"	36' 10"	34' 1"	29' 9"	30' 1"	29' 9"	26' 0"
800S125-68	33	24	42' 6"	37' 6"	32' 9"	30' 1"	29' 9"	26' 0"	24' 6"	24' 6"	22' 8"

**Notes**

1. Lateral loads have not been modified for strength checks.
2. Lateral loads have been multiplied by 0.7 for deflection determination.
3. Limiting heights based on continuous support of each flange over the full length of the stud.
4. Limiting heights are based on steel properties only (non-composite).
5. Web crippling check based on 1 inch end bearing. Where listed limiting heights are followed by "e", web stiffeners are required.