



AISI STANDARD

**Errata to Standard for Cold-Formed
Steel Framing -
Prescriptive Method for One
and Two Family Dwellings
2007 Edition with Supplement No. 2**

Amendment on May 19, 2011

Amendment on September 10, 2010

Amendment on July 29, 2009

Errata to North American Cold-Formed Steel Framing— Prescriptive Method for One and Two Family Dwellings 2007 Edition with Supplement No. 2 (S230-07 w/S2-08)

Amendment on July 29, 2009:

1. Page 213, section F4.4, 2nd Paragraph: change “Figure F3-1” to “Figure F3-2.”
 - Corrected sentence:
 - Jack rafters shall be connected to a hip member with a minimum 2 inch x 2 inch (51x51 mm) clip angle fastened with No. 10 screws to the hip member in accordance with Figure F3-2 and Table F3-3.

Amendment on September 10, 2010

1. On page 39, Section E7.3, revise the first sentence to:

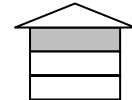
“An *L-header* shall consist of a cold-formed steel angle with one short leg lapping over the top *track* of the wall and one leg extending down the side of the wall above window or door openings, as shown in Figures E7-5 and E7-6.”

Amendment on May 19, 2011:

Revise the values that are marked in red as shown in Tables E3-2a to E3-6a starting from the next page.

33
KSI

Table E3-2a
Stud Thickness
28-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 33 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)													
				8-Foot Studs				9-Foot Studs				10-Foot Studs					
Exp. B	Exp. C			Ground Snow Load (psf)													
				20	30	50	70	20	30	50	70	20	30	50	70		
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	43	43	33	33	43	43	33	33	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	33	43	
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	43	43	33	33	43	43	33	33	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	33	33	33	33	43	
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	43	43	33	33	43	43	43	43	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	33	33	33	33	43	
110 mph	90 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43	
			24	33	33	43	43	43	43	43	43	43	43	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	43	43	43	43		
120 mph	100 mph	350S162	16	33	33	33	33	33	33	33	33	33	43	43	43	43	
			24	43	43	43	54	43	43	43	54	54	54	54	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	43	43	43	43	43	43	43	43		
130 mph	110 mph	350S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43	
			24	43	43	43	54	54	54	54	54	68	68	68	68		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	43	43	43	43	43	43	43	43	43	43	43	43		
140 mph	120 mph	350S162	16	33	33	33	43	43	43	43	43	43	54	54	54	54	
			24	54	54	54	54	68	68	68	68	97	97	97	97		
		550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43	
			24	43	43	43	43	43	43	43	43	54	54	54	54		
150 mph	130 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68		
			24	54	54	54	54	68	68	68	68	97	97	97	97		
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43		
			24	43	43	43	43	54	54	54	54	54	54	54	54		
	140 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68		
			24	68	68	68	68	97	97	97	97	97	97	97	97		
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43		
			24	54	54	54	54	54	54	54	54	54	54	54	54		
	150 mph	350S162	16	54	54	54	54	68	68	68	68	97	97	97	97		
			24	97	97	97	97	97	97	97	97	-	-	-	-		
		550S162	16	43	43	43	43	43	43	43	43	54	54	54	54		
			24	54	54	54	54	54	54	54	54	68	68	68	68		

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

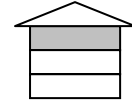
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

50
KSI

Table E3-2b
Stud Thickness
28-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 50 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)													
				8-Foot Studs				9-Foot Studs				10-Foot Studs					
Exp. B	Exp. C			Ground Snow Load (psf)													
				20	30	50	70	20	30	50	70	20	30	50	70		
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	33	33	33	43		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	33
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	33	33	33	43		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	33
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	33	33	43	43		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	33
110 mph	90 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	33	33	33	43	43	43	43	43		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	33
120 mph	100 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	33	43	43	43	43	43	43	43	43	43		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	33
130 mph	110 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	43	43	43	43	43	43	54	54	54	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	33	33	33	33	33	33	33	33	33	33	43
140 mph	120 mph	350S162	16	33	33	33	33	33	33	33	33	33	43	43	43	43	
			24	43	43	43	43	54	54	54	54	68	68	68	68		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	43	43	43	43	43	43	43	43	43	43
150 mph	130 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	43	43	43	43	54	54	54	54	97	97	97	97		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	43	43	43	43	43	43	43	43	43	43	43	43	43	43
150 mph	140 mph	350S162	16	43	43	43	43	43	43	43	43	43	43	54	54	54	54
			24	54	54	54	54	68	68	68	68	97	97	97	97		
		550S162	16	33	33	33	33	33	33	33	33	33	33	43	43	43	43
			24	43	43	43	43	43	43	43	43	43	43	43	43	43	43
	150 mph	150 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
				24	54	54	54	54	68	68	68	68	97	97	97	97	
			550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43
				24	43	43	43	43	43	43	43	43	43	43	43	43	43

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

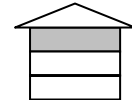
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

33
KSI

Table E3-3a
Stud Thickness
32-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 33 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)													
				8-Foot Studs				9-Foot Studs				10-Foot Studs					
Exp. B	Exp. C			Ground Snow Load (psf)													
				20	30	50	70	20	30	50	70	20	30	50	70		
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43	
			24	33	33	43	54	33	33	43	43	33	33	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43	
			24	33	33	43	54	33	33	43	43	33	33	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43	
			24	33	33	43	54	33	33	43	54	43	43	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
110 mph	90 mph	350S162	16	33	33	33	43	33	33	33	33	33	33	33	33	43	
			24	33	33	43	54	43	43	43	54	43	43	43	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	43	43	43	43	43	
120 mph	100 mph	350S162	16	33	33	33	43	33	33	33	43	43	43	43	43	43	
			24	43	43	43	54	43	43	43	54	54	54	54	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	33	33	43	43	43	43	43	43	43	43	43	43	43	
130 mph	110 mph	350S162	16	33	33	33	43	43	43	43	43	43	43	43	43	43	
			24	43	43	43	54	54	54	54	54	68	68	68	68		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	
			24	43	43	43	43	43	43	43	43	43	43	43	43	43	
140 mph	120 mph	350S162	16	33	33	33	43	43	43	43	43	43	54	54	54	54	
			24	54	54	54	54	68	68	68	68	97	97	97	97		
		550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43	
			24	43	43	43	43	43	43	43	43	54	54	54	54		
150 mph	130 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68		
			24	54	54	54	54	68	68	68	68	97	97	97	97		
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43		
			24	43	43	43	43	54	54	54	54	54	54	54	54		
150 mph	140 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68		
			24	68	68	68	68	97	97	97	97	97	97	97	97		
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43		
			24	54	54	54	54	54	54	54	54	54	54	54	54		
	150 mph	350S162	16	54	54	54	54	68	68	68	68	97	97	97	97		
			24	97	97	97	97	97	97	97	97	-	-	-	-		
		550S162	16	43	43	43	43	43	43	43	43	54	54	54	54		
			24	54	54	54	54	54	54	54	54	68	68	68	68		

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

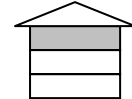
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

50
KSI

Table E3-3b
Stud Thickness
32-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 50 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)												
				8-Foot Studs				9-Foot Studs				10-Foot Studs				
Exp. B	Exp. C			Ground Snow Load (psf)												
				20	30	50	70	20	30	50	70	20	30	50	70	
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	43	43	43
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	33	33	33	33	33	33	43
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	43	43	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	33	33	33	33	33	33	43
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	33	43	33	33	43	43	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	33	33	33	33	33	33	43
110 mph	90 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	33	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	33	33	33	33	33	33	43
120 mph	100 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	43	43	43	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
130 mph	110 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	43	43	43	43	43	54	54	54	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
140 mph	120 mph	350S162	16	33	33	33	33	33	33	33	33	33	43	43	43	43
			24	43	43	43	54	54	54	54	54	68	68	68	68	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	43	43	43	43	43	43	43	43	43	43
150 mph	130 mph	350S162	16	33	33	33	43	43	43	43	43	43	54	54	54	54
			24	43	43	43	54	54	54	54	54	97	97	97	97	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	43	43	43	43	43	43	43	43	43	43	43	43	43	43
	140 mph	350S162	16	43	43	43	43	43	43	43	43	43	54	54	54	54
			24	54	54	54	54	68	68	68	68	97	97	97	97	
		550S162	16	33	33	33	33	33	33	33	33	33	43	43	43	43
	24		43	43	43	43	43	43	43	43	43	43	43	43	43	
	150 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
			24	54	54	54	54	68	68	68	68	97	97	97	97	
550S162		16	33	33	33	33	43	43	43	43	43	43	43	43	43	
	24	43	43	43	43	43	43	43	43	43	43	43	43	43		

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

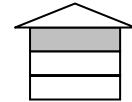
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

33
KSI

Table E3-4a
Stud Thickness
36-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 33 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)																
				8-Foot Studs				9-Foot Studs				10-Foot Studs								
Exp. B	Exp. C			Ground Snow Load (psf)																
				20	30	50	70	20	30	50	70	20	30	50	70					
85 mph		350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	33	33	43	54	33	43	43	54	33	43	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	43	33	33	43	43	
90 mph		350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	33	33	43	54	33	43	43	54	33	43	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	43	33	33	43	43	
100 mph	85 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	33	33	43	54	43	43	54	43	43	54	54		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	43	33	33	43	43	
110 mph	90 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	43	43	43	43	43	43	54	68	43	43	54	68	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	43	43	43	43	43	
120 mph	100 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	33	33	33	43	
			24	43	43	43	54	43	43	43	54	54	54	54	68	43	43	54	68	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
130 mph	110 mph	350S162	16	33	33	33	43	43	43	43	43	43	43	43	43	43	43	43	43	
			24	43	43	54	54	54	54	54	54	54	54	68	68	68	68	68		
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	43	43	43	54	43	43	43	43	43	43	43	43	43	43	43	43	
140 mph	120 mph	350S162	16	33	33	33	43	43	43	43	43	43	43	43	43	43	43	43	43	
			24	54	54	54	68	68	68	68	68	68	68	68	68	68	68	68		
		550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43	43	43	43	
			24	43	43	43	54	43	43	43	43	43	43	43	43	43	43	43		
150 mph	130 mph	350S162	16	43	43	43	43	54	54	54	54	54	54	54	54	54	54	54	54	
			24	54	54	54	68	68	68	68	68	68	68	68	68	68	68	68		
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
			24	43	43	43	54	54	54	54	54	54	54	54	54	54	54	54		
	140 mph	350S162	16	43	43	43	43	54	54	54	54	54	54	54	54	54	54	54		
			24	68	68	68	68	97	97	97	97	97	97	97	97	97	97			
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43		
			24	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
	150 mph	350S162	16	54	54	54	54	68	68	68	68	68	68	68	68	68	68	68		
			24	97	97	97	97	97	97	97	97	97	97	97	97	97				
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43	43	43			
			24	54	54	54	54	54	54	54	54	54	54	54	54					

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

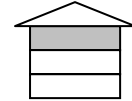
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

50
KSI

Table E3-4b
Stud Thickness
36-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 50 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)												
				8-Foot Studs				9-Foot Studs				10-Foot Studs				
Exp. B	Exp. C			Ground Snow Load (psf)												
				20	30	50	70	20	30	50	70	20	30	50	70	
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	43	43	33	33	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
110 mph	90 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	33	33	33	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
120 mph	100 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	43	43	43	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
130 mph	110 mph	350S162	16	33	33	33	43	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	43	43	43	54	54	54	54	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	43	
140 mph	120 mph	350S162	16	33	33	33	43	33	33	33	43	43	43	43	43	43
			24	43	43	43	54	54	54	54	54	68	68	68	68	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	43	43	43	43	43	43	43	43	43	
150 mph	130 mph	350S162	16	33	33	33	43	43	43	43	43	54	54	54	54	
			24	43	43	43	54	54	54	54	54	97	97	97	97	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	
		24	43	43	43	43	43	43	43	43	43	43	43	43	43	
	140 mph	350S162	16	43	43	43	43	43	43	43	43	54	54	54	54	
			24	54	54	54	54	68	68	68	68	97	97	97	97	
		550S162	16	33	33	33	33	33	33	33	33	43	43	43	43	
			24	43	43	43	43	43	43	43	43	43	43	43	43	
	150 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
			24	54	54	54	54	68	68	68	68	97	97	97	97	
550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	43		
	24	43	43	43	43	43	43	43	43	43	43	43	43	43		

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

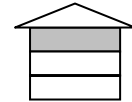
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

33
KSI

Table E3-5a
Stud Thickness
40-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 33 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)											
				8-Foot Studs				9-Foot Studs				10-Foot Studs			
Exp. B	Exp. C			Ground Snow Load (psf)											
				20	30	50	70	20	30	50	70	20	30	50	70
85 mph		350S162	16	33	33	33	43	33	33	33	43	33	33	33	43
			24	33	33	43	54	33	33	43	54	43	43	54	68
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	43	54	33	33	43	43	33	33	43	54	
90 mph		350S162	16	33	33	33	43	33	33	33	43	33	33	33	43
			24	33	33	43	54	33	33	43	54	43	43	54	68
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	43	54	33	33	43	43	33	33	43	54	
100 mph	85 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	43	43
			24	33	43	43	54	33	43	43	54	43	43	54	68
550S162		16	33	33	33	43	33	33	33	33	33	33	33	33	33
		24	33	33	43	54	33	33	43	43	33	33	43	54	
110 mph	90 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	43	43
			24	33	43	43	54	43	43	43	54	43	43	54	68
550S162		16	33	33	33	43	33	33	33	33	33	33	33	33	43
		24	33	33	43	54	33	33	43	43	43	43	43	54	
120 mph	100 mph	350S162	16	33	33	33	43	33	33	33	43	43	43	43	43
			24	43	43	54	68	43	43	54	54	54	54	54	68
550S162		16	33	33	33	43	33	33	33	33	33	33	33	33	43
		24	33	33	43	54	43	43	43	54	43	43	43	54	
130 mph	110 mph	350S162	16	33	33	43	43	43	43	43	43	43	43	43	54
			24	43	43	54	68	54	54	54	68	68	68	68	68
550S162		16	33	33	33	43	33	33	33	43	33	33	33	43	
		24	43	43	43	54	43	43	43	54	43	43	43	54	
140 mph	120 mph	350S162	16	33	33	43	43	43	43	43	43	54	54	54	54
			24	54	54	54	68	68	68	68	68	97	97	97	97
550S162		16	33	33	33	43	43	43	43	43	43	43	43	43	
		24	43	43	43	54	43	43	43	54	54	54	54	54	
150 mph	130 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68
			24	54	54	54	68	68	68	68	97	97	97	97	
550S162		16	43	43	43	43	43	43	43	43	43	43	43	43	
		24	43	43	43	54	54	54	54	54	54	54	54	54	
	140 mph	350S162	16	43	43	43	54	54	54	54	68	68	68	68	
			24	68	68	68	68	97	97	97	97	97	97	97	
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43
	24		54	54	54	54	54	54	54	54	54	54	54	54	
	150 mph	350S162	16	54	54	54	54	68	68	68	68	97	97	97	97
			24	97	97	97	97	97	97	97	97	-	-	-	-
550S162		16	43	43	43	43	43	43	43	43	54	54	54	54	
	24	54	54	54	54	54	54	54	54	68	68	68	68		

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

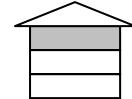
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

50
KSI

Table E3-5b
Stud Thickness
40-Foot Wide Building Supporting Roof and Ceiling Only ^{1,2,3}
F_y = 50 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)												
				8-Foot Studs				9-Foot Studs				10-Foot Studs				
Exp. B	Exp. C			Ground Snow Load (psf)												
				20	30	50	70	20	30	50	70	20	30	50	70	
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	33	33	43	43	33	33	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	43	
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	33	33	43	43	33	33	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	43	
100 mph	85 mph	350S162	16	33	33	33	43	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	33	33	43	54	33	33	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	43	
110 mph	90 mph	350S162	16	33	33	33	43	33	33	33	33	33	33	33	33	43
			24	33	33	43	54	33	33	43	54	43	43	43	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	33	43	33	33	33	43	33	33	33	43	
120 mph	100 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	43	43	43	54	43	43	54	54	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	33	43	33	33	33	43	43
130 mph	110 mph	350S162	16	33	33	33	43	33	33	33	43	33	33	33	43	
			24	33	33	43	54	43	43	43	54	54	54	54	68	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	33	33	33	43	33	33	43	43	
140 mph	120 mph	350S162	16	33	33	33	43	33	33	33	43	43	43	43	43	43
			24	43	43	43	54	54	54	54	54	68	68	68	68	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	33	33	43	43	43	43	43	43	43	43	43	43	43
150 mph	130 mph	350S162	16	33	33	33	43	43	43	43	43	43	54	54	54	54
			24	43	43	54	54	54	54	54	54	97	97	97	97	
		550S162	16	33	33	33	33	33	33	33	33	33	33	33	33	33
			24	43	43	43	43	43	43	43	43	43	43	43	43	43
150 mph	140 mph	350S162	16	43	43	43	43	43	43	43	43	43	54	54	54	54
			24	54	54	54	68	68	68	68	68	68	97	97	97	97
		550S162	16	33	33	33	33	33	33	33	33	33	43	43	43	43
			24	43	43	43	43	43	43	43	43	43	43	43	43	54
	150 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
			24	54	54	54	68	68	68	68	68	97	97	97	97	
		550S162	16	33	33	33	33	43	43	43	43	43	43	43	43	
			24	43	43	43	43	43	43	43	43	43	43	43	43	

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

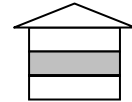
Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.

33
KSI

Table E3-6a
Stud Thickness
24-Foot Wide Building Supporting One Floor, Roof & Ceiling^{1,2,3}
F_y = 33 ksi



Wind Speed		Member Size	Stud Spacing (inch)	Minimum Stud Thickness (Mils)												
				8-Foot Studs				9-Foot Studs				10-Foot Studs				
Exp. B	Exp. C			Ground Snow Load (psf)												
				20	30	50	70	20	30	50	70	20	30	50	70	
85 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	43	33	43	43	43	43	43	43	43	54
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
90 mph		350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	33	43	43	33	43	43	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
100 mph	85 mph	350S162	16	33	33	33	33	33	33	33	33	33	33	33	33	43
			24	33	43	43	43	43	43	43	43	43	43	43	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	33
		24	33	33	33	43	33	33	33	43	33	33	33	33	33	43
110 mph	90 mph	350S162	16	33	33	33	43	33	33	33	33	33	33	33	43	43
			24	43	43	43	43	43	43	43	43	54	54	54	54	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	
		24	33	33	33	43	33	33	33	43	43	43	43	43	43	
120 mph	100 mph	350S162	16	33	33	33	43	33	33	33	43	43	43	43	43	
			24	43	43	43	54	43	43	54	54	54	54	54		
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	
		24	33	33	33	43	43	43	43	43	43	43	43	43	43	
130 mph	110 mph	350S162	16	33	33	33	43	43	43	43	43	43	43	43	43	
			24	43	43	43	54	54	54	54	54	68	68	68	68	
550S162		16	33	33	33	33	33	33	33	33	33	33	33	33	33	
		24	43	43	43	43	43	43	43	43	43	43	43	43	43	
140 mph	120 mph	350S162	16	43	43	43	43	43	43	43	43	43	54	54	54	54
			24	54	54	54	54	68	68	68	68	97	97	97	97	
550S162		16	33	33	33	33	43	43	43	43	43	43	43	43	43	
		24	43	43	43	43	43	43	43	43	43	54	54	54	54	
150 mph	130 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
			24	54	54	54	54	68	68	68	68	97	97	97	97	
550S162		16	43	43	43	43	43	43	43	43	43	43	43	43	43	
		24	43	43	43	43	54	54	54	54	54	54	54	54	54	
	140 mph	350S162	16	43	43	43	43	54	54	54	54	68	68	68	68	
			24	68	68	68	68	97	97	97	97	97	97	97	97	
		550S162	16	43	43	43	43	43	43	43	43	43	43	43	43	
	24		54	54	54	54	54	54	54	54	54	54	54	54		
	150 mph	350S162	16	54	54	54	54	68	68	68	68	97	97	97	97	
			24	97	97	97	97	97	97	97	97	-	-	-	-	
550S162		16	43	43	43	43	43	43	43	43	54	54	54	54		
	24	54	54	54	54	54	54	54	54	68	68	68	68			

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/hr, 1 foot = 0.305 m

¹ Deflection criteria: L/240

² Design load assumptions:

Second floor dead load is 10 psf (0.48 kN/m²)

Second floor live load is 30 psf (1.44 kN/m²)

Roof/ceiling dead load is 12 psf (0.58 kN/m²)

³ Building width is in the direction of horizontal framing members supported by the wall studs.