

Steel-ConTM

**Steel Construction
Systems**



Supreme Framing SystemTM

The Superior Interior Solution

Lower Costs for Contractors and Building Owners



SUPREME FRAMING SYSTEMTM

www.SSFA.com

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What is Supreme Framing System™?

Supreme Framing System™

SFS is a new design utilizing superior yield strength steel to produce a premium product providing significant cost savings over traditional 30 mil & 33 mil material. Supreme Track SFT-30EQ is manufactured from 55 ksi, 18 mil steel, SFT-33EQ is manufactured from 57 ksi 24 mil steel, both with 1 1/4" legs. Larger leg heights are available in 1 1/2", 2", 2 1/2", & 3". The studs are manufactured from 57 ksi, 24 mil steel, including planking and 1 7/16" flanges for quicker installation.

Supreme Nomenclature

Example 1

6" Studs for 30EQ Supreme : 600SFS-30EQ

Example 2

6" Track for 33EQ Supreme : 600SFT-33EQ

Example 3

6" Deep Leg Track for 30EQ Supreme : 600SFDT250-30EQ

Available Sizes

1 5/8", 2 1/2", 3 1/2", 3 5/8"
4", & 6"

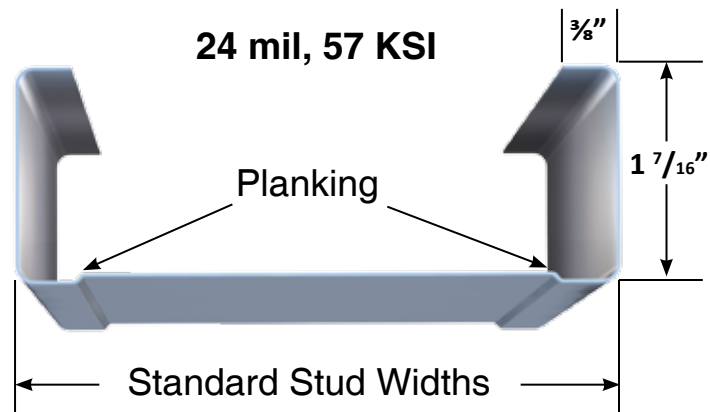
High Yield Steel
Plus New Profile
Superior, Cost Effective
Drywall Stud

Screw Connections - Per AISI Section E4.

Allowable Loads (lb/screw)												
Steel Thickness		Steel Prop.		No. 10 - 0.190 in. dia.			No. 8 - 0.164 in. dia.			No. 6 - 0.168 in. dia.		
mils	Design (in)	Fy (ksi)	Fu (ksi)	Shear	Pullout	Pullover	Shear	Pullout	Pullover	Shear	Pullout	Pullover
24 SFS	0.0235	57	65	143	82	191	133	71	191	122	60	191

Notes: 1. All values assume that the nominal strength of the screw itself is at least 1.25 times the design strength. Listed values use a factor of safety of 3.
2. Pullover values assume a minimum head/washer diameter, dw, of 1/4"

Supreme Stud Profile



Patent Pending

For additional information, please contact Steel Construction Systems or visit www.SSFSA.com

Why Supreme Framing System™?



Supreme Framing System™ will be available nationally through a multiple of independent steel stud manufacturers. Supreme Stud and Track properties are manufactured from high yield steel that is readily available from Steel Mills.

Supreme Framing System™ Benefits

- Engineered and Tested per 2006 IBC
- Third Party Tested and Certified
- Wider Flanges for Quick Clamping & Screw Placement
- 57 KSI Steel - Reduces Screw Stripping
- Multiple UL Approved Fire Rated Assemblies
- Excellent Acoustical Performance
- Easier Gypsum Installation = Lower Labor Costs
- Fast Framing for Lower Labor Costs
- Easier to Tin Snip or Shear



For additional information, please contact Steel Construction Systems or visit www.SSFSA.com.

2003 and 2006 IBC Tables For Non-Structural Framing

(30EQ & 33EQ - Mil) Interior COMPOSITE Wall Heights - 5/8" GWB Full Height

Stud Member	Spacing (in.) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 SFS	16	12' 10"	10' 2"	8' 9"	11' 2"	8' 9"	-	9' 10"	-	-	-	-	-
162 SFS	24	11' 4"	9' 1"	-	9' 5"	-	-	8' 3"	-	-	-	-	-
250 SFS	16	15' 7"	12' 5"	10' 10"	13' 8"	10' 10"	9' 5"	11' 7"	9' 9"	8' 6"	9' 3"	8' 6"	-
250 SFS	24	13' 7"	10' 10"	9' 5"	11' 0"	9' 5"	8' 3"	9' 4"	8' 7"	-	-	-	-
362 SFS	16	20' 5"	15' 8"	13' 8"	16' 10"	13' 8"	12' 0"	14' 1"	12' 5"	10' 10"	11' 1"	10' 10"	9' 4"
362 SFS	24	17' 1"	14' 3"	12' 5"	13' 5"	12' 5"	10' 9"	11' 5"	11' 3"	9' 8"	9' 1"	9' 1"	8' 4"
400 SFS	16	20' 9"	16' 6"	14' 5"	17' 0"	14' 5"	12' 7"	14' 5"	13' 1"	11' 5"	11' 5"	11' 5"	9' 9"
400 SFS	24	17' 3"	14' 8"	12' 10"	13' 8"	12' 10"	11' 2"	11' 8"	11' 8"	10' 1"	9' 4"	9' 4"	8' 9"
600 SFS	16	28' 6"	21' 6"	18' 9"	21' 11"	18' 9"	16' 5"	17' 8"	17' 1"	14' 11"	13' 4"	13' 4"	13' 0"
600 SFS	24	22' 7"	18' 6"	16' 6"	16' 6"	16' 2"	14' 5"	13' 6"	13' 6"	13' 1"	10' 4"	10' 4"	10' 4"

Table Notes

f: Flexural stress controls allowable height
 5/8" Gypsum Board both sides full height
 Tested per 2008 ICC ES Acceptance Criteria AC-86
 30EQ Galvanizing to be G-40 Minimum for 5 PSF or less & 33EQ G-60 Minimum for Greater than 5 PSF Lateral Loads
 33EQ Galvanizing to be G-60 Minimum

(30EQ & 33EQ - Mil) Interior NON-COMPOSITE Wall Height - 1/2" GWB Full Height

Stud Member	Spacing (in.) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 SFS-24	16	10' 0"	-	-	8' 9"	-	-	-	-	-	-	-	-
162 SFS-24	24	8' 9"	-	-	-	-	-	-	-	-	-	-	-
250 SFS-24	16	13' 10"	11' 0"	9' 7"	12' 1"	9' 7"	8' 4"	11' 0"	8' 8"	-	9' 2"	-	-
250 SFS-24	24	12' 1"	9' 7"	8' 4"	10' 7"	8' 4"	-	9' 2"	-	-	8' 3"	-	-
362 SFS-24	16	18' 7"	14' 9"	12' 11"	16' 3"	12' 11"	11' 3"	14' 1"	11' 9"	10' 3"	11' 6"	10' 3"	8' 11"
362 SFS-24	24	16' 3"	12' 11"	11' 3"	13' 3"	11' 3"	9' 10"	11' 6"	10' 3"	8' 11"	8' 9"	8' 9"	-
400 SFS-24	16	20' 2"	16' 0"	13' 11"	17' 1"	13' 11"	12' 2"	14' 10"	12' 8"	11' 1"	12' 1"	11' 1"	9' 8"
400 SFS-24	24	17' 1"	13' 11"	12' 2"	13' 11"	12' 2"	10' 8"	12' 1"	11' 1"	9' 8"	8' 8"	8' 8"	8' 5"
600 SFS-24*	16	26' 9"	21' 3"	18' 6"	22' 3"	18' 6"	16' 2"	19' 3"	16' 10"	14' 8"	15' 9"	14' 8"	12' 10"
600 SFS-24*	24	22' 3"	18' 6"	16' 2"	18' 2"	16' 2"	14' 2"	15' 9"	14' 8"	12' 10"	12' 10"	12' 10"	11' 2"

Table Notes

* Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points
f Flexural stress controls allowable height
 End lateral bearing - 1 inch minimum
 Heights based on steel properties only
 1/2" Gypsum Board both sides full height
 30EQ Galvanizing to be G-40 Minimum for 5 PSF or less & 33EQ G-60 Minimum for Greater than 5 PSF Lateral Loads
 33EQ Galvanizing to be G-60 Minimum

(30EQ & 33EQ - Mil) Interior NON-COMPOSITE Chase Wall or Non-Clad Wall Height

Stud Member	Spacing (in.) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 SFS	16	10' 0"	-	-	8' 9"	-	-	-	-	-	-	-	-
162 SFS	24	8' 9"	-	-	-	-	-	-	-	-	-	-	-
250 SFS	16	13' 10"	11' 0"	9' 7"	12' 1"	9' 7"	8' 4"	11' 0"	8' 8"	-	9' 2"	-	-
250 SFS	24	12' 1"	9' 7"	8' 4"	10' 7"	8' 4"	-	9' 2"	-	-	-	-	-
350 SFS	16	18' 0"	14' 4"	12' 7"	14' 8"	12' 7"	10' 11"	12' 8"	11' 5"	9' 11"	10' 4"	9' 11"	8' 8"
350 SFS	24	14' 8"	12' 7"	10' 11"	11' 11"	10' 11"	9' 7"	10' 4"	9' 11"	8' 8"	8' 6"	8' 6"	-
362 SFS	16	18' 4"	14' 9"	12' 11"	14' 11"	12' 11"	11' 3"	12' 11"	11' 9"	10' 3"	10' 6"	10' 3"	8' 11"
362 SFS	24	14' 11"	12' 11"	11' 3"	12' 2"	11' 3"	9' 10"	10' 6"	10' 3"	8' 11"	8' 8"	8' 8"	-
400 SFS	16	19' 3"	16' 0"	13' 11"	15' 8"	13' 11"	12' 2"	13' 7"	12' 8"	11' 1"	11' 1"	11' 1"	9' 8"
400 SFS	24	15' 8"	13' 11"	12' 2"	12' 10"	12' 2"	10' 8"	11' 1"	11' 1"	9' 8"	8' 8"	8' 8"	8' 5"

Table Notes

End lateral bearing - 1 inch minimum
 Heights based on steel properties only
 Limiting heights based on 1/2" minimum gypsum wall board attached to each face to within 4 feet of the end of the stud OR 1/2" minimum gypsum wall board attached to one face and the unsheated flange laterally braced at 4 foot o. c. for the length of the stud

For examples of lateral bracing, please refer to detail on page 6.



For additional information, please contact Steel Construction Systems or visit www.SSFS.com

2003 and 2006 IBC Tables For Non-Structural Framing

(30EQ & 33EQ - Mil) Stud (SFS™) Section Properties

Stud Member	Design Thickness	Gross							Effective					Torsional Properties					
		Area (in. ²)	Weight (lbs/ft.)	I _{xx} (in. ⁴)	S _{xx} (in. ³)	R _x (in.)	I _{yy} (in. ⁴)	R _y (in.)	I _{xx} (in. ⁴)	S _{xx} (in. ³)	M _a (ft-lbs)	V _a (lbs)	Y _{cg} (in.)	Jx1000 (in. ⁴)	C _w (in. ⁶)	m (in.)	X _o (in.)	R _o (in.)	β
162 SFS	0.0235	0.117	0.40	0.055	0.068	0.684	0.035	0.543	0.052	0.048	136	621	0.938	0.022	0.027	0.776	-1.359	1.616	0.292
250 SFS	0.0235	0.138	0.47	0.145	0.116	1.025	0.041	0.542	0.136	0.090	255	505	1.379	0.025	0.060	0.716	-1.212	1.677	0.478
350 SFS	0.0235	0.161	0.55	0.313	0.179	1.392	0.046	0.531	0.304	0.112	319	351	2.127	0.030	0.119	0.659	-1.083	1.842	0.655
362 SFS	0.0235	0.164	0.56	0.339	0.187	1.437	0.046	0.529	0.331	0.116	331	338	2.212	0.030	0.128	0.652	-1.069	1.867	0.672
400 SFS	0.0235	0.173	0.59	0.427	0.213	1.569	0.047	0.524	0.417	0.129	367	305	2.468	0.032	0.159	0.634	-1.029	1.949	0.721
600 SFS*	0.0235	0.220	0.75	1.112	0.371	2.247	0.053	0.492	0.976	0.219	622	200	3.715	0.041	0.388	0.553	-0.864	2.457	0.876

Section Properties Table Notes

Gross properties are based on the full-unreduced cross section of the studs, away from the punchouts.

For deflection calculations, use the effective moment of inertia.

*Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points.

(30EQ & 33EQ - Mil) Allowable Ceiling Spans - DEFLECTION LIMIT L/240

Stud Member	4 psf				6 psf				13 psf							
	Lateral Support of Top Flange								Lateral Support of Top Flange							
	Unsupported		Midspan		Unsupported		Midspan		Unsupported		Midspan					
	Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.					
	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"				
162 SFS	8' 7"	7' 6"	8' 7"	7' 6"	7' 6"	6' 6"	7' 6"	6' 6"	5' 9"	5' 0"	5' 9"	5' 0"				
250 SFS	9' 10"	8' 10"	11' 10"	10' 4"	8' 10"	7' 11"	10' 4"	9' 0"	7' 2"	6' 4"	8' 0"	6' 11"				
362 SFS	10' 8"	9' 7"	15' 4"	13' 7"	9' 7"	8' 8"	13' 7"	12' 0"	7' 10"	7' 0"	10' 8"	9' 2"				
400 SFS	11' 0"	9' 10"	15' 9"	14' 0"	9' 10"	8' 10"	14' 0"	12' 4"	8' 1"	7' 2"	11' 0"	9' 7"				

Ceiling Span Table Notes

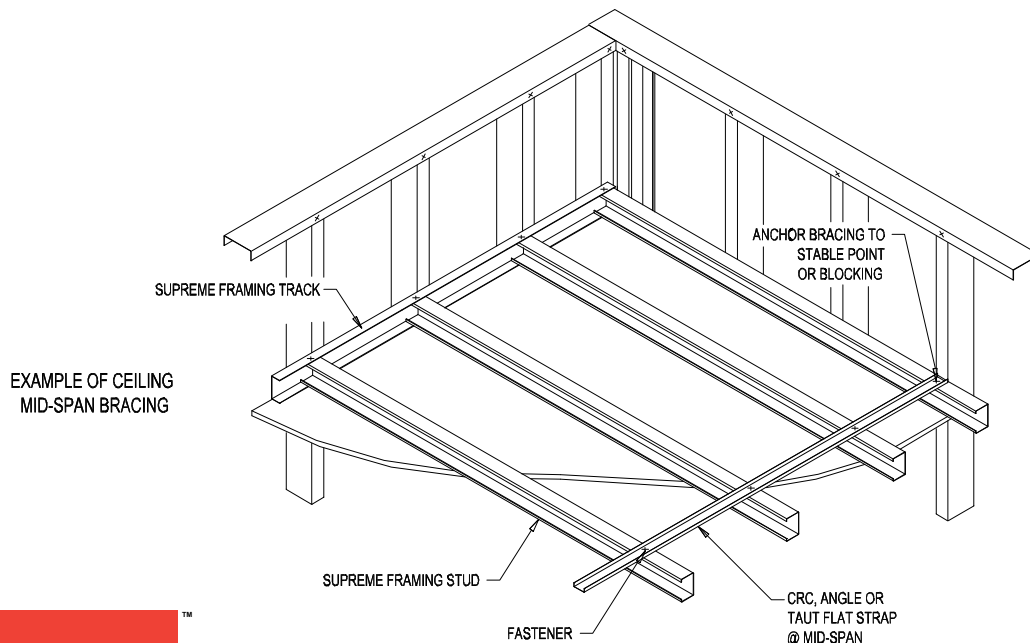
Values are for single spans, for fully braced ceilings, use mid-span values, end bearing length is 1 inch minimum

(30EQ & 33EQ - Mil) Allowable Ceiling Spans - DEFLECTION LIMIT L/360

Stud Member	4 psf				6 psf				13 psf							
	Lateral Support of Top Flange								Lateral Support of Top Flange							
	Unsupported		Midspan		Unsupported		Midspan		Unsupported		Midspan					
	Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.					
	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"				
162 SFS	7' 6"	6' 6"	7' 6"	6' 6"	6' 6"	5' 8"	6' 6"	5' 8"	5' 0"	4' 5"	5' 0"	4' 5"				
250 SFS	9' 10"	8' 10"	10' 4"	9' 0"	8' 10"	7' 10"	9' 0"	7' 10"	6' 11"	6' 1"	6' 11"	6' 1"				
362 SFS	10' 8"	9' 7"	13' 11"	12' 2"	9' 7"	8' 8"	12' 2"	10' 7"	7' 10"	7' 0"	9' 4"	8' 2"				
400 SFS	11' 0"	9' 10"	15' 0"	13' 1"	9' 10"	8' 10"	13' 1"	11' 5"	8' 1"	7' 2"	10' 2"	8' 10"				

Ceiling Span Table Notes

Values are for single spans, for fully braced ceilings, use mid-span values, end bearing length is 1 inch minimum.



Steel Construction Systems

For additional information, please contact Steel Construction Systems or visit www.SSFSA.com.

1997 and 2000 IBC Tables For Non-Structural Framing

(30EQ & 33EQ - Mil) Interior COMPOSITE Wall Heights - 5/8" GWB Full Height

Stud Member	Spacing (in.) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 SFS	16	12' 10"	10' 2"	8' 9"	11' 2"	8' 9"	-	10' 2"	-	-	8' 9"	-	-
162 SFS	24	11' 6"	9' 1"	-	10' 0"	-	-	9' 1"	-	-	-	-	-
250 SFS	16	15' 7"	12' 5"	10' 10"	13' 8"	10' 10"	9' 5"	12' 5"	9' 9"	8' 6"	10' 10"	8' 6"	-
250 SFS	24	13' 7"	10' 10"	9' 5"	11' 11"	9' 5"	8' 3"	10' 10"	8' 7"	-	8' 9"	-	-
362 SFS	16	20' 5"	15' 8"	13' 8"	17' 10"	13' 8"	12' 0"	16' 3"	12' 5"	10' 10"	13' 2" ^f	10' 10"	9' 4"
362 SFS	24	18' 7"	14' 3"	12' 5"	15' 11" ^f	12' 5"	10' 9"	13' 5" ^f	11' 3"	9' 8"	10' 8" ^f	9' 8"	8' 4"
400 SFS	16	20' 9"	16' 6"	14' 5"	18' 2"	14' 5"	12' 7"	16' 6"	13' 1"	11' 5"	13' 5" ^f	11' 5"	9' 9"
400 SFS	24	18' 9"	14' 8"	12' 10"	16' 1" ^f	12' 10"	11' 2"	13' 8" ^f	11' 8"	10' 1"	10' 11" ^f	10' 1"	8' 9"
600 SFS	16	28' 6"	21' 6"	18' 9"	24' 11"	18' 9"	16' 5"	21' 11" ^f	17' 1"	14' 11"	16' 3" ^f	14' 11"	13' 0"
600 SFS	24	24' 9"	18' 6"	16' 6"	20' 7" ^f	16' 2"	14' 5"	16' 6" ^f	14' 8"	13' 1"	12' 5" ^f	12' 5" ^f	11' 5"

Table Notes

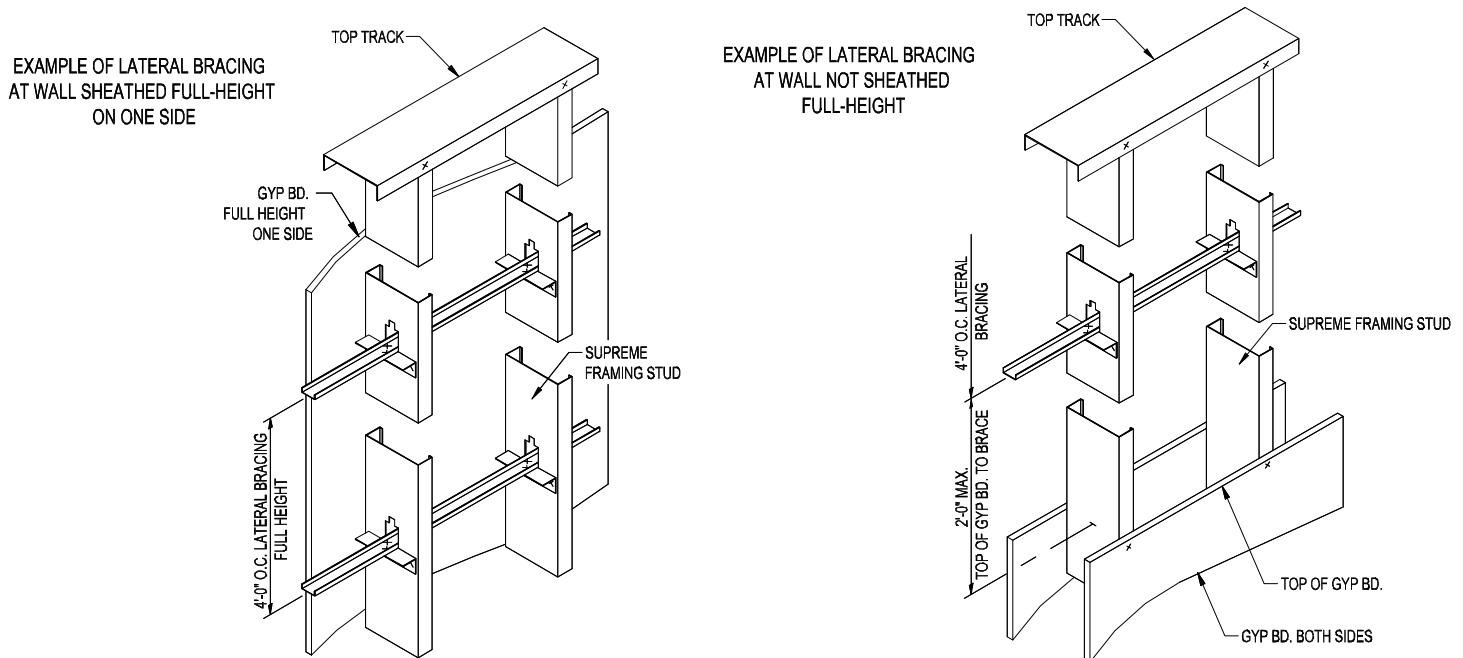
- f: Flexural stress controls allowable height*
- 5/8" Gypsum Board both sides full height*
- 30EQ Galvanizing to be G-40 Minimum*
- 33EQ Galvanizing to be G-60 Minimum*

(30EQ & 33EQ - Mil) Interior NON-COMPOSITE Chase Wall or Non-Clad Wall Height

Stud Member	Spacing (in.) o.c.	5 psf			7.5 psf			10 psf			15 psf		
		L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162 SFS	16	10' 0"	-	-	8' 9"	-	-	-	-	-	-	-	-
162 SFS	24	8' 9"	-	-	-	-	-	-	-	-	-	-	-
250 SFS	16	13' 10"	11' 0"	9' 7"	12' 1"	9' 7"	8' 4"	11' 0"	8' 8"	-	9' 2"	-	-
250 SFS	24	12' 1"	9' 7"	8' 4"	10' 7"	8' 4"	-	9' 2"	-	-	-	-	-
350 SFS	16	18' 0"	14' 3"	12' 6"	15' 9"	12' 6"	10' 11"	12' 10"	11' 4"	9' 11"	8' 7"	8' 7"	8' 7"
350 SFS	24	15' 9"	12' 6"	10' 11"	11' 5"	10' 11"	9' 6"	8' 7"	8' 7"	8' 7"	-	-	-
362 SFS	16	18' 6"	14' 8"	12' 10"	16' 2"	12' 10"	11' 2"	12' 8"	11' 8"	10' 2"	8' 5"	8' 5"	8' 5"
362 SFS	24	16' 2"	12' 10"	11' 2"	11' 3"	11' 2"	9' 9"	8' 5"	8' 5"	8' 5"	-	-	-
400 SFS	16	20' 0"	15' 10"	13' 10"	16' 3"	13' 10"	12' 1"	12' 2"	12' 2"	11' 0"	8' 1"	8' 1"	8' 1"
400 SFS	24	17' 6"	13' 10"	12' 1"	10' 10"	10' 10"	10' 7"	8' 1"	8' 1"	8' 1"	-	-	-

Table Notes

- End lateral bearing - 1 inch minimum*
- Heights based on steel properties only*
- Limiting heights based on 1/2" minimum gypsum wall board attached to each face to within 4 feet of the end of the stud OR 1/2" minimum gypsum wall board attached to one face and the unsheated flange laterally braced at 4 foot o. c. for the length of the stud*



For additional information, please contact Steel Construction Systems or visit www.SSFSA.com

1997 and 2000 IBC Tables For Non-Structural Framing

(30EQ & 33EQ - Mil) Stud (SFS™) Section Properties

Stud Member	Design Thickness	Gross								Effective					Torsional Properties				
		Area (in. ²)	Weight (lbs/ft.)	I _{xx} (in. ⁴)	S _{xx} (in. ³)	R _x (in.)	I _{yy} (in. ⁴)	R _y (in.)	I _{xx} (in. ⁴)	S _{xx} (in. ³)	M _a (ft-lbs)	V _a (lbs)	Y _{cg} (in.)	Jx1000 (in. ⁴)	C _w (in. ⁶)	m (in.)	X _o (in.)	R _o (in.)	β
162 SFS	0.0235	0.117	0.40	0.055	0.068	0.684	0.035	0.543	0.051	0.051	144	634	0.911	0.022	0.027	0.776	-1.359	1.616	0.292
250 SFS	0.0235	0.138	0.47	0.145	0.116	1.025	0.041	0.542	0.136	0.089	254	484	1.382	0.025	0.060	0.716	-1.212	1.677	0.478
350 SFS	0.0235	0.161	0.55	0.313	0.179	1.392	0.046	0.531	0.298	0.130	368	337	1.987	0.030	0.119	0.659	-1.083	1.842	0.655
362 SFS	0.0235	0.164	0.56	0.339	0.187	1.437	0.046	0.529	0.324	0.134	382	325	2.068	0.030	0.128	0.652	-1.069	1.867	0.672
400 SFS	0.0235	0.173	0.59	0.427	0.213	1.569	0.048	0.524	0.410	0.148	421	292	2.313	0.032	0.159	0.634	-1.029	1.949	0.721
600 SFS*	0.0235	0.220	0.75	1.112	0.371	2.247	0.053	0.492	1.024	0.222	632	191	3.675	0.041	0.388	0.553	-0.864	2.457	0.876

Section Properties Table Notes

Gross properties are based on the full-unreduced cross section of the studs, away from the punchouts.

For deflection calculations, use the effective moment of inertia.

*Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points.

(30EQ & 33EQ - Mil) Allowable Ceiling Spans - DEFLECTION LIMIT L/240

Stud Member	4 psf				6 psf				13 psf			
	Lateral Support of Top Flange				Lateral Support of Top Flange				Lateral Support of Top Flange			
	Unsupported		Midspan		Unsupported		Midspan		Unsupported		Midspan	
	Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.	
	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
162 SFS	8' 6"	7' 5"	8' 6"	7' 5"	7' 5"	6' 6"	7' 5"	6' 6"	5' 9"	5' 0"	5' 9"	5' 0"
250 SFS	9' 6"	8' 6"	11' 10"	10' 4"	8' 6"	7' 8"	10' 4"	9' 0"	6' 11"	6' 2"	8' 0"	6' 11"
362 SFS	10' 6"	9' 6"	14' 9"	13' 3"	9' 6"	8' 6"	13' 3"	11' 10"	7' 9"	6' 6"	9' 9"	6' 6"
400 SFS	10' 10"	9' 9"	15' 2"	13' 8"	9' 9"	8' 9"	13' 8"	12' 3"	8' 0"	6' 3"	9' 4"	6' 3"

Ceiling Span Table Notes

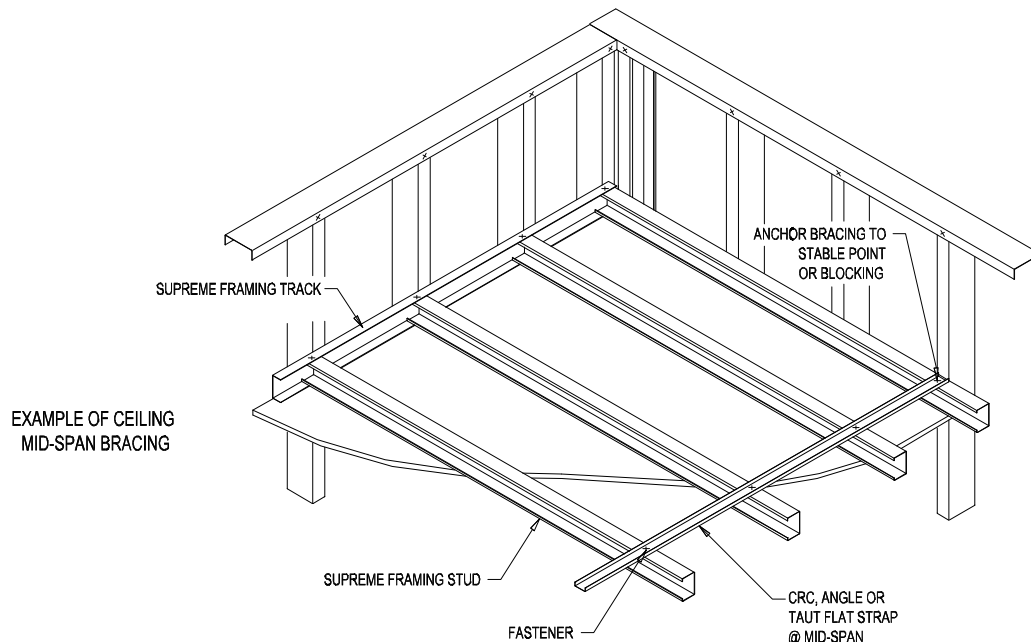
Values are for single spans, for fully braced ceilings, use mid-span values, end bearing length is 1 inch minimum

(30EQ & 33EQ - Mil) Allowable Ceiling Spans - DEFLECTION LIMIT L/360

Stud Member	4 psf				6 psf				13 psf			
	Lateral Support of Top Flange				Lateral Support of Top Flange				Lateral Support of Top Flange			
	Unsupported		Midspan		Unsupported		Midspan		Unsupported		Midspan	
	Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.		Joist spacing o.c.	
	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"	16"	24"
162 SFS	7' 5"	6' 6"	7' 5"	6' 6"	6' 6"	5' 8"	6' 6"	5' 8"	5' 0"	4' 5"	5' 0"	4' 5"
250 SFS	9' 6"	8' 6"	10' 4"	9' 0"	8' 6"	7' 8"	9' 0"	7' 10"	6' 11"	6' 1"	6' 11"	6' 1"
362 SFS	10' 6"	9' 6"	13' 10"	12' 1"	9' 6"	8' 6"	12' 1"	10' 6"	7' 9"	6' 6"	9' 4"	6' 6"
400 SFS	10' 10"	9' 9"	14' 11"	13' 0"	9' 9"	8' 9"	13' 0"	11' 5"	8' 0"	6' 3"	9' 4"	6' 3"

Ceiling Span Table Notes

Values are for single spans, for fully braced ceilings, use mid-span values, end bearing length is 1 inch minimum

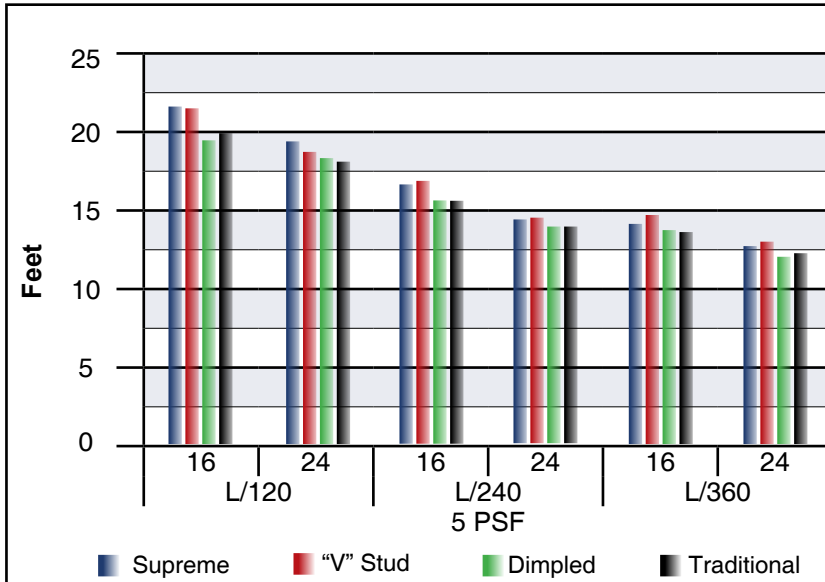


Steel Construction Systems

For additional information, please contact Steel Construction Systems or visit www.SSFSA.com.

Supreme Framing System™ vs. Proprietary and Traditional Studs

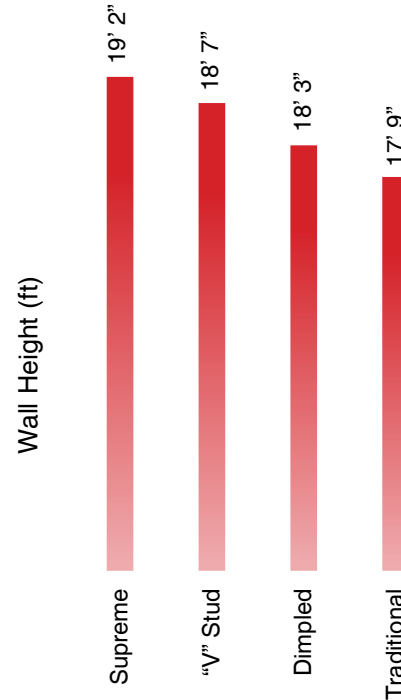
Supreme Stud 362SFS-30EQ Compared to Proprietary and Traditional 362S125-30 With 1 Layer 5/8" Thick Gypsum Wallboard



1995 ICC-ES Acceptance Criteria AC-86

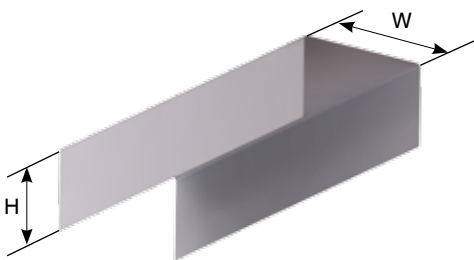
Old Code

3 5/8" Wall, L/120
5 PSF, 24" O.C. Spacing



Old Code: 1995 ICC-ES Acceptance Criteria AC-86

Supreme Deep Leg Deflection Track



Supreme Framing Deep Leg Track (SFDT)				
Track Member (W)	Coating		Leg Size (H)	Gap (in.)
	30EQ	33EQ		
1 5/8", 2 1/2", 3 1/2" 3 3/8", 4", 6"	G40	G60	2"	1/2"
	G40	G60	2 1/2"	3/4"
	G40	G60	3"	1"

Nomenclature Example: 33EQ with a 2 1/2" Web and 3" Leg = 250SFDT300-33EQ

Kwik-Bridged Punched Stud Non-Sheathed with CRC 12" down from end of stud each side.



Non-Sheathed with CRC 12" down from end of stud each side.



Fully Sheathed with no additional bracing



For additional information, please contact Steel Construction Systems or visit www.SSFSA.com

Supreme Framing System™ is Tested & Approved to the Highest Standard



School of Civil & Construction Engineering Building

All of the testing for Supreme Framing System™ was under the supervision of Principal Investigator Thomas Miller, Phd. of Oregon State University's School of Civil and Construction Engineering. Professor Thomas Miller's structural engineering and structural mechanics research interests include earthquake engineering, timber structures and cold-formed steel structures. He provided all of the testing of Cold-Formed Steel Wall Stud Panels for the Metal Stud Manufacturer's Association (MSMA) and has also provided all of the Composite Wall Testing for the Steel Stud Manufacturer's Association (SSMA).

Code Approvals and Performance Standards

AISI "North American Specification for the Design of Cold-Formed Steel Structural Members"

ASTM American Society for Testing and Materials
C645 "Standard Specification for Non-structural Steel Framing Members"

C754 "Standard Specification for Installation of Steel Framing Members to Receive Screw - Attached Gypsum Panel Products"

E119 "Standard Test Methods for Fire Tests of Building Construction and Materials"

E72 "Standard Test Methods of Conducting Strength Tests of Panels for Building Construction"

E90 "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements"

UL Underwriters Laboratories Testing Standard

UL 263 "Fire Tests of Building Construction and Materials"

UL Underwriters Laboratories Supreme Framing Classification

Wall Design No. V486 in the UL Fire Resistance Directory

Steel Framing Members Fire Resistance Classification

U411 U412 U419 U435 U465 U493

Additional Code Approvals

ICC-ES ESR (Pending)

Independent Product Certification

Sound Ratings - Riverbank Acoustical Laboratories

Fire Testing - Underwriters Laboratories Inc.

Structural Testing - O.S.U. (Oregon State University)

Structural Engineer - Devco Engineering

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Supreme Framing System™ Fire Assemblies



UL Approved Designs

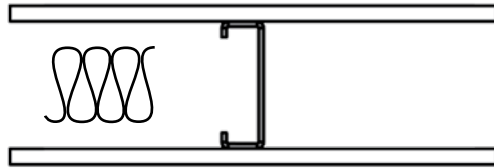
- UL Design – V486 (1, 2, or 2 ½ hour)
- UL Design – U411 (2 hour)
- UL Design – U412 (2 hour)
- UL Design – U419 (1, 2, 3 or 4 hour)
- UL Design – U435 (3 or 4 hour)
- UL Design – U465 (1 hour)
- UL Design – U493 (1 or 2 hour)



Non-Bearing Wall Rating - 1 HR. Stud Widths: 2 ½”, 3 ⅝”, 4”, & 6”

Wall Assembly UL Design U419

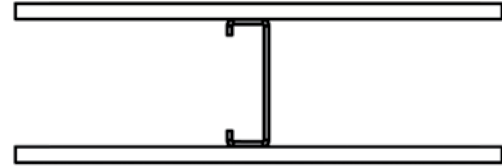
- Stud Spacing 24” O.C. Max
- One Layer Generic ½” GWB Type C
- 1 ½” Insulation



Non-Bearing Wall Rating - 1 HR. Stud Widths: 3 ⅝”, 4”, & 6”

Wall Assembly UL Design U465

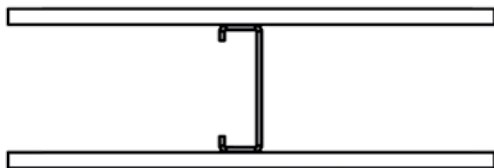
- Stud Spacing 24” O.C. Max
- One Layer Generic ⅝” GWB Type X
- Insulation (Optional)



Non-Bearing Wall Rating - 1 HR. Stud Widths: 1 ⅝”, 2 ½”, 3 ⅝”, 4”, & 6”

Wall Assembly UL Design U419

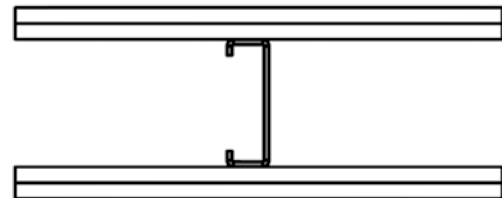
- Stud Spacing 24” O.C. Max
- One Layer Generic ¾” GWB Type IP-X3
- Insulation (Optional)



Non-Bearing Wall Rating - 2 HR. Stud Widths: 1 ⅝”, 2 ½”, 3 ⅝”, 4”, & 6”

Wall Assembly UL Design U412 or U419

- Stud Spacing 24” O.C. Max
- Two Layers Generic ½” GWB Type C
- Insulation (Optional)



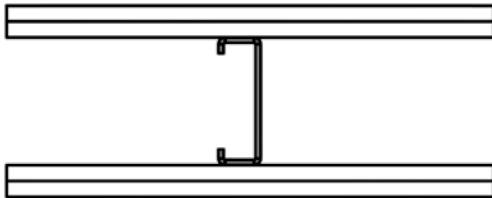
For additional information, please contact Steel Construction Systems or visit www.SSFSA.com

Supreme Framing System™ Fire Assemblies

**Non-Bearing Wall Rating - 2 HR.
Stud Widths: 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design V486, U411 or U419

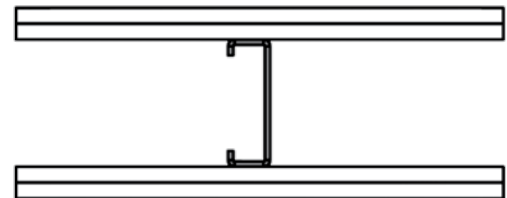
- Stud Spacing 24" O.C. Max
- Two Layers Generic 5/8" GWB Type X
- Insulation (Optional)



**Non-Bearing Wall Rating - 2 HR.
Stud Widths: 1 5/8", 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design U419

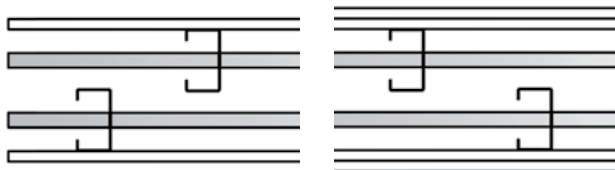
- Stud Spacing 24" O.C. Max
- Two Layers Generic 3/4" GWB Type IP-X3
- Insulation (Optional)



**Non-Bearing Wall Rating - 1 HR. or 2 HR.
Stud Widths: 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design U493

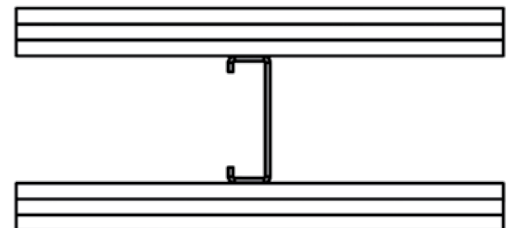
- Stud Spacing 24" O.C. Max Staggered
- (1 HR) One Layer Generic 5/8" GWB Type X
- (2 HR) Two Layers Generic 5/8" GWB Type X
- Insulation (Optional)



**Non-Bearing Wall Rating - 3 HR.
Stud Widths: 1 5/8", 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design U435 or U419

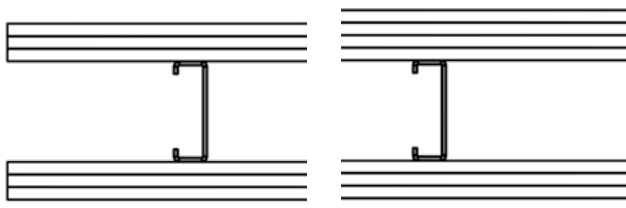
- Stud Spacing 24" O.C. Max
- Three Layers Generic 1/2" GWB Type C
- Insulation (Optional)



**Non-Bearing Wall Rating - 3 HR. or 4 HR.
Stud Widths: 1 5/8", 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design U419

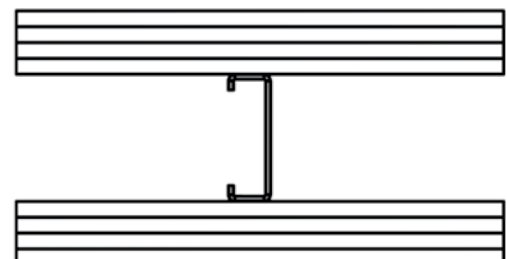
- Stud Spacing 24" O.C. Max
- (3 HR) Three Layers Generic 5/8" GWB Type X
- (4 HR) Four Layers Generic 5/8" GWB Type X
- Insulation (Optional)



**Non-Bearing Wall Rating - 4 HR.
Stud Widths: 1 5/8", 2 1/2", 3 5/8", 4", & 6"**

Wall Assembly UL Design U435

- Stud Spacing 24" O.C. Max
- Four Layers Generic 1/2" GWB Type C
- Insulation (Optional)

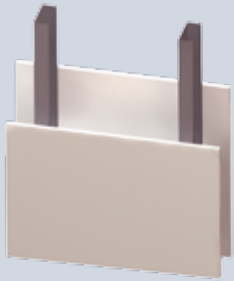


**Steel Construction
Systems**

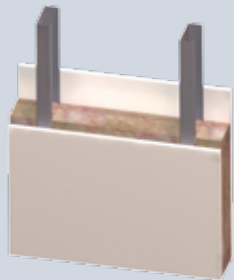
For additional information, please contact Steel Construction Systems
or visit www.SSFSA.com.

Supreme Framing System™

Acoustic Performance



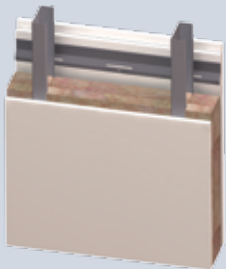
38 STC
 Assembly 1
 3-5/8" Stud
 5/8" GWB



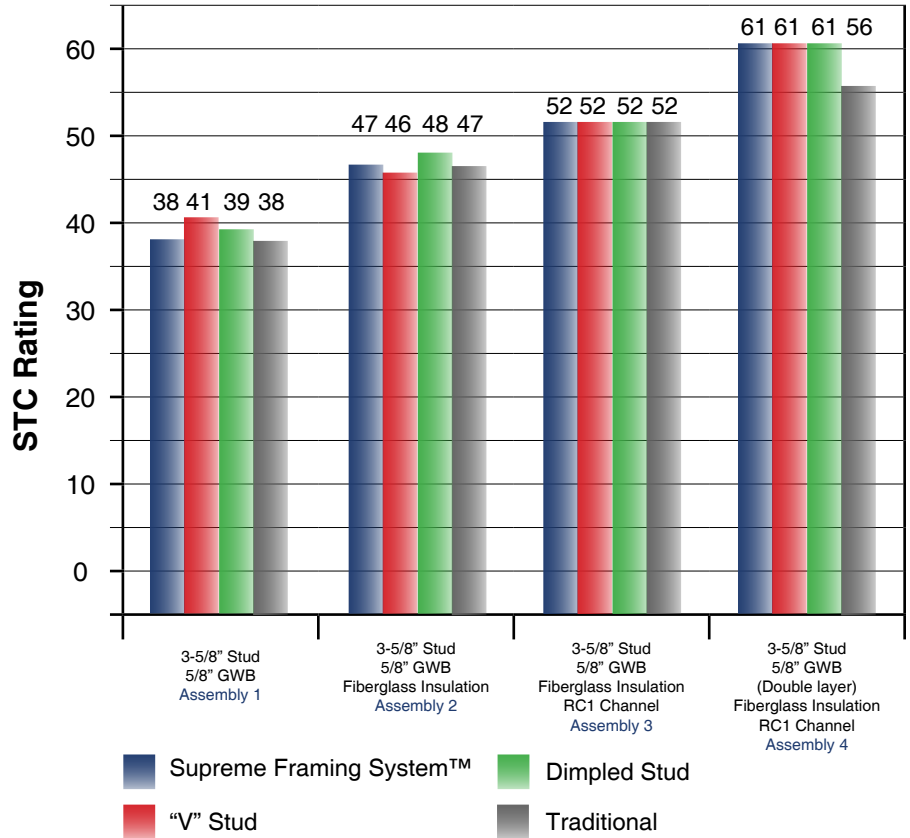
47 STC
 Assembly 2
 3-5/8" Stud
 5/8" GWB
 Fiberglass Insulation



52 STC
 Assembly 3
 3-5/8" Stud
 5/8" GWB
 Fiberglass Insulation
 RC1 Channel



61 STC
 Assembly 4
 3-5/8" Stud
 5/8" GWB
 (Double layer)
 Fiberglass Insulation
 RC1 Channel



Riverbank Acoustical
 L A B O R A T O R I E S

All Acoustical Data was independently tested by Riverbank Acoustical Laboratories. Riverbanks is recognized internationally and also accredited by National Institute of Standards and Technology (NIST) through the national Voluntary Laboratory Accreditation Program NVLAP.



For additional information, please contact Steel Construction Systems or visit www.SSFSa.com

Supreme Framing System™, Designed for Saving Cost for Contractors and Owners

Material Cost Savings Framing Labor Reduced Easier to Hang Drywall

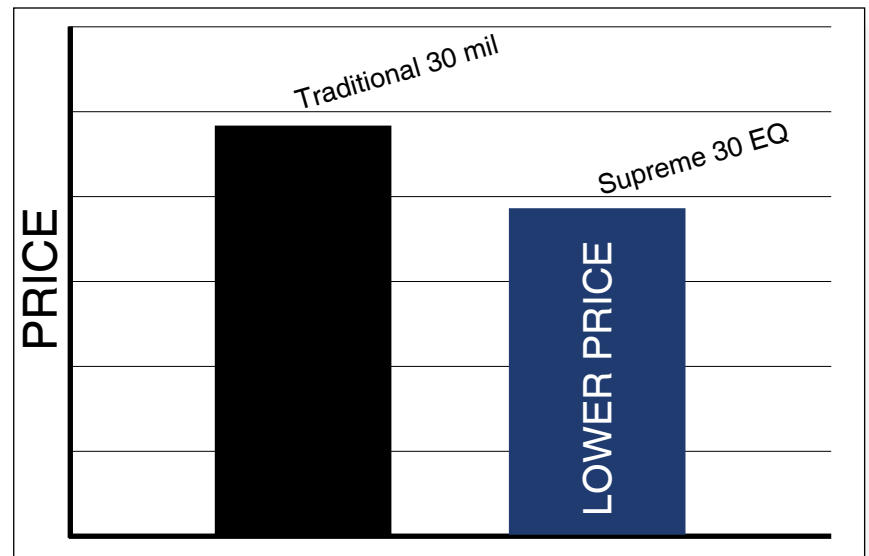
Don't take our word for it, here's what contractors and Architects have to say about the Supreme Framing System™...

Supreme Testimonials

Material Cost Savings

"Steel is a huge part of the total bid dollar amount, so when using the cost of Supreme Framing Steel in my proposal, it positions me to be more competitive than the competition. This has won me several jobs already."

- *Project Estimator*



2006 IBC Testing and Engineering Data

"City Code Officials are starting to demand that all testing and engineering data shall comply with 2006 IBC. Supreme having current code data and 3rd Party Testing makes submittals a whole lot easier."

- *Architect*



**Steel Construction
Systems**

For additional information, please contact Steel Construction Systems or visit www.SSFSA.com.

Framing Labor Reduced



Cuts Easier

“I notice cutting Supreme Steel is easier.”

- Journeyman Carpenter



Wider Flange for Clamping

“During framing, I like having the larger flange for clamping and placing the screws.”

“It really makes a difference when you reach around to the other side for screwing.”

- Journeyman Carpenter



Screws Grip the Steel

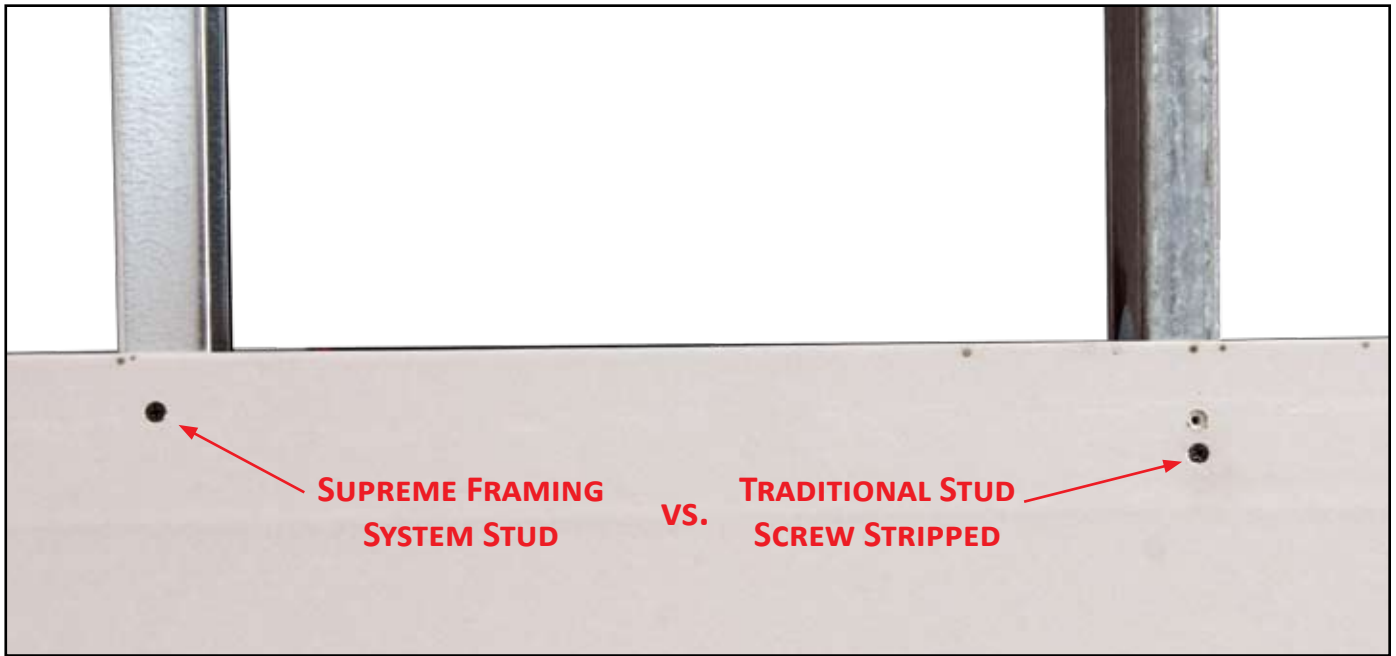
“The screws go in quick and grab the Supreme Steel very well, and there was no screw stripping.”

- Journeyman Carpenter



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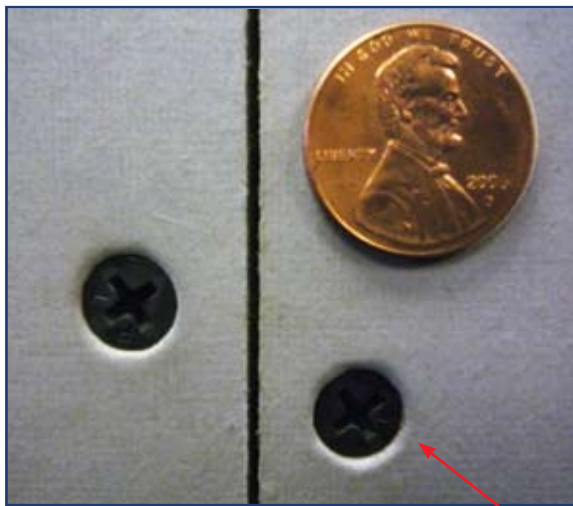
Easier to Hang Drywall



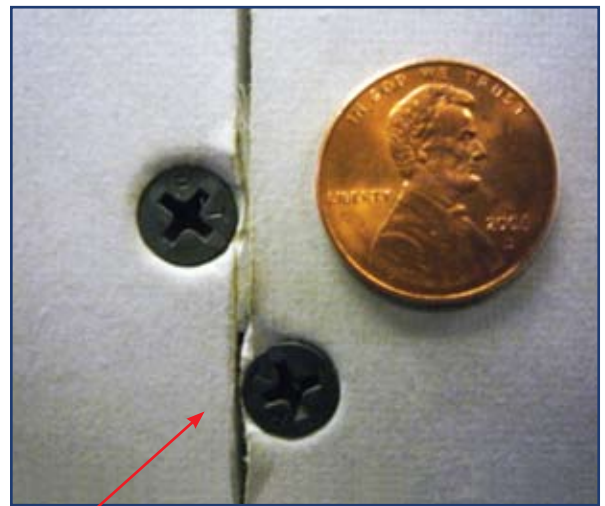
Less Screw Stripping

"I had both 30 mil & Supreme materials on site. The screws were stripping out of the 30 mil because the board was so hard. Once I got to the Supreme Steel, not one screw stripped out."

- Drywall Installer



SUPREME STUD



TRADITIONAL

A Significant Difference

Larger Surface for Screwing

"Having the extra flange area of Supreme Steel is great for installing the gypsum board."

- Drywall Installer

Steel-ConTM

Steel Construction Systems

Independent Supreme Framing System Manufacturing Companies (Future)



Steel Construction Systems

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www.SteelConSystems.com