

# Structural Stud Submittal

## 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

- A653** Standard Specification for Steel Sheet, Zinc - Coated (Galvanized) or Zinc - Iron Alloy - Coated by the Hot - Dip Process
- A1003** Standard Specification for Steel Sheet, Carbon, Metallic - and Nonmetallic-Coated for Cold-Formed Framing Members
- 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
- C955** Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases
- 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 Supreme Framing Classification

UL 263 Fire Tests of Building Construction and Materials

Steel Framing Members Fire Resistance Classification

U411 U412 U419 U435 U465 U493 V486 V496 V498

#### ICC-ES Code Approvals

ICC-ES ESR2507 30EQD & 33EQD

ICC-ES ESR3054 43EQS

## Independent Product Certification

- Code Compliance - ICC Evaluation Services, LLC
- Fire Testing - Underwriters Laboratories, Inc.
- Sound Ratings - Riverbank Acoustical Laboratories
- 3rd Party Testing - Architectural Testing, Inc.
- Structural Testing - O.S.U. (Oregon State University)
- Structural Engineer - Devco Engineering



# Supreme is Certified!

All inspections and testing for the Supreme Steel Framing System Association is provided by Architectural Testing, Inc. SSFSA sponsors a third-party certification program requiring that products are continually audited in order to ensure consistent quality and compliance to ASTM C645, C955 and 2006 IBC Codes.

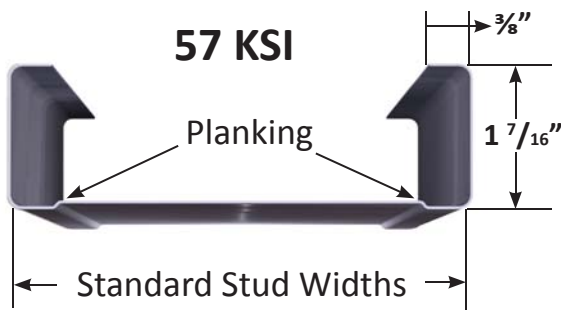


Look for the sticker! 3<sup>rd</sup> Party Certified Code Compliant by nationally recognized Architectural Testing, Inc.

Products must be tested twice a year on unannounced visits. Steel is chemically stripped and tested for coating weight and bare metal thickness; and the dimensional properties of the stud are measured. All requirements must be satisfied in order to earn certification. All members of the SSFSA must satisfy the ASTM requirements each time they are audited.

All certified Supreme Steel has a label showing that it is third-party certified. Labels may be located on bundles or each framing member. The third-party certification label guarantees to the contractor and owner that materials are high quality and code compliant.

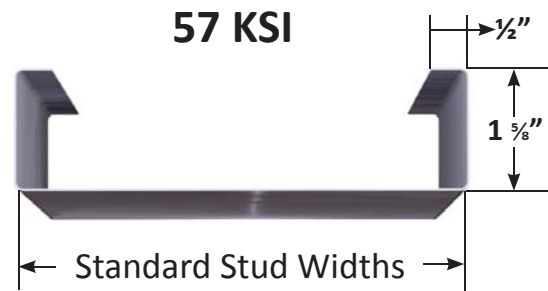
## 30EQD & 33EQD Stud Profile



### Available Sizes

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

## 33EQS & 43EQS Stud Profile



### Available Sizes

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

## Screw Capacity - Per AISI Section E4

Steel Thickness		Steel Prop.		Allowable Loads (lb/screw)											
Mils	Design (in)	Fy (ksi)	Fu (ksi)	No. 12 - 0.216 in. dia.			No. 10 - 0.190 in. dia.			No. 8 - 0.164 in. dia.			No. 6 - 0.138 in. dia.		
				Shear	Pullout	Pullover	Shear	Pullout	Pullover	Shear	Pullout	Pullover	Shear	Pullout	Pullover
30EQD	0.0235	57	65	152	93	191	143	82	191	133	71	191	122	60	191
33EQD	0.0235	57	65	152	93	191	143	82	191	133	71	191	122	60	191
33EQS	0.0295	57	65	214	117	240	201	103	240	187	89	240	171	75	240
43EQS	0.0400	57	65	338	159	325	317	140	325	295	121	325	270	102	325

**Table 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,  $d_w$ , of 1/4"

## Weld Capacity - 2001 NASPEC with 2004 Supplement

Steel Thickness		Fy (ksi)	Fu (ksi)	Nominal Weld Size	Weld Type			
Mils	Design				Fillet		Flare Groove	
					Longitudinal <sup>1</sup>	Transverse	Longitudinal <sup>2</sup>	Transverse
43EQS	0.0400	57	65	1/16	639	1106	696	849

**Table Notes:**

1. For welds with  $L/t > 25$  where  $L$  is weld length and  $t$  is the thickness of the welded member.
2. For  $t \leq tw < 2t$  where  $t$  = thickness of welded member and  $tw$  is effective throat thickness of weld.
3. Weld capacities based on 2001 NASPEC (including 2004 Supplement), Sections E2.4 and E2.5
4. When connecting materials of different steel thickness or tensile strength ( $F_u$ ), the lowest applicable values should be used.

# 33EQS Structural Studs & Track

## Physical Section Properties

### Supreme 33EQS Stud Section Properties

Stud Member	Gross Properties							Effective Properties				Torsional Properties					
	Area (in. <sup>2</sup> )	Weight (lbs/ft.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Rx (in.)	Iyy (in. <sup>4</sup> )	Ry (in.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Ma (ft-lbs)	Va (lbs)	Jx1000 (in. <sup>4</sup> )	Cw (in. <sup>6</sup> )	m (in.)	Xo (in.)	Ro (in.)	β
250SFS162-33EQS	0.191	0.65	0.202	0.162	1.029	0.075	0.626	0.193	0.134	381	978	0.055	0.127	0.863	-1.475	1.905	0.400
362SFS162-33EQS	0.224	0.76	0.473	0.261	1.452	0.086	0.618	0.461	0.186	528	670	0.065	0.257	0.792	-1.314	2.054	0.591
400SFS162-33EQS	0.235	0.80	0.593	0.297	1.589	0.088	0.613	0.580	0.206	587	604	0.068	0.314	0.771	-1.269	2.124	0.643
600SFS162-33EQS	0.294	1.00	1.535	0.512	2.285	0.100	0.583	1.503	0.363	1032	395	0.085	0.743	0.680	-1.078	2.592	0.827

**Table Notes**

1. Effective section properties shown only for sections complying with NASPEC Section B1.

### Supreme 33EQS Track Section Properties

Track Member	Gross Properties							Torsional Properties						
	Area (in. <sup>2</sup> )	Weight (lbs/ft.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Rx (in.)	Iyy (in. <sup>4</sup> )	Ry (in.)	Jx1000 (in. <sup>4</sup> )	Cw (in. <sup>6</sup> )	m (in.)	Xo (in.)	Ro (in.)	β	
250SFT125-33EQS	0.148	0.50	0.164	0.124	1.053	0.023	0.398	0.043	0.028	0.457	-0.762	1.359	0.685	
250SFT150-33EQS	0.162	0.55	0.189	0.143	1.078	0.038	0.486	0.047	0.046	0.574	-0.976	1.533	0.595	
250SFT200-33EQS	0.192	0.65	0.239	0.181	1.116	0.083	0.659	0.056	0.101	0.814	-1.421	1.923	0.454	
250SFT250-33EQS	0.221	0.75	0.289	0.219	1.143	0.152	0.828	0.064	0.186	1.058	-1.881	2.352	0.360	
362SFT125-33EQS	0.181	0.61	0.374	0.199	1.438	0.026	0.378	0.052	0.065	0.411	-0.660	1.627	0.835	
362SFT150-33EQS	0.195	0.66	0.425	0.226	1.475	0.043	0.468	0.057	0.106	0.523	-0.857	1.768	0.765	
362SFT200-33EQS	0.225	0.77	0.528	0.281	1.532	0.094	0.646	0.065	0.230	0.756	-1.273	2.094	0.630	
362SFT250-33EQS	0.254	0.87	0.631	0.335	1.574	0.171	0.821	0.074	0.421	0.994	-1.710	2.465	0.519	
400SFT125-33EQS	0.192	0.65	0.468	0.226	1.562	0.027	0.372	0.056	0.081	0.397	-0.632	1.726	0.866	
400SFT150-33EQS	0.207	0.70	0.530	0.256	1.602	0.044	0.461	0.060	0.132	0.508	-0.824	1.860	0.804	
400SFT200-33EQS	0.236	0.80	0.655	0.316	1.666	0.097	0.640	0.068	0.287	0.738	-1.231	2.168	0.678	
400SFT250-33EQS	0.266	0.90	0.779	0.377	1.713	0.177	0.816	0.077	0.525	0.974	-1.661	2.522	0.566	
600SFT125-33EQS	0.251	0.85	1.218	0.397	2.204	0.029	0.340	0.073	0.204	0.339	-0.518	2.289	0.949	
600SFT150-33EQS	0.266	0.90	1.355	0.442	2.260	0.049	0.427	0.077	0.334	0.441	-0.686	2.400	0.918	
600SFT200-33EQS	0.295	1.00	1.631	0.531	2.351	0.108	0.605	0.086	0.724	0.656	-1.050	2.645	0.842	
600SFT250-33EQS	0.325	1.10	1.906	0.621	2.424	0.200	0.784	0.094	1.318	0.882	-1.443	2.928	0.757	

**Table Notes**

1. The centerline bend radius is 0.0912"
2. Web depth for track sections is equal to the nominal height plus two time the design thickness plus the bend radius
3. Gross properties are based on the full-unreduced cross section of the studs, away from the punchouts
4. For deflection calculations, use the effective moment of inertia

## Supreme 43EQS Stud Section Properties

Stud Member	Gross Properties							Effective Properties				Torsional Properties					
	Area (in. <sup>2</sup> )	Weight (lbs/ft.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Rx (in.)	Iyy (in. <sup>4</sup> )	Ry (in.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Ma (ft-lbs)	Va (lbs)	Jx1000 (in. <sup>4</sup> )	Cw (in. <sup>6</sup> )	m (in.)	Xo (in.)	Ro (in.)	β
250SFS162-43EQS	0.257	0.88	0.270	0.216	1.025	0.100	0.622	0.270	0.185	527	1798	0.137	0.166	0.856	-1.463	1.892	0.402
250SFS200-43EQS	0.287	0.98	0.316	0.252	1.048	0.163	0.754	0.300	0.195	554	1798	0.153	0.269	1.047	-1.823	2.233	0.334
362SFS162-43EQS	0.302	1.03	0.634	0.350	1.448	0.114	0.613	0.634	0.267	760	1674	0.161	0.338	0.785	-1.302	2.042	0.593
362SFS200-43EQS	0.332	1.13	0.730	0.403	1.482	0.187	0.750	0.707	0.277	789	1674	0.177	0.548	0.970	-1.643	2.336	0.506
400SFS162-43EQS	0.317	1.08	0.796	0.398	1.584	0.118	0.609	0.796	0.298	847	1508	0.169	0.413	0.765	-1.258	2.112	0.645
400SFS200-43EQS	0.347	1.18	0.914	0.457	1.622	0.193	0.746	0.887	0.309	879	1508	0.185	0.670	0.952	-1.591	2.392	0.557
600SFS162-43EQS	0.397	1.35	2.065	0.688	2.280	0.133	0.579	2.065	0.559	1590	986	0.212	0.983	0.673	-1.067	2.583	0.829
600SFS200-43EQS	0.427	1.45	2.331	0.777	2.336	0.220	0.717	2.243	0.569	1619	986	0.228	1.594	0.849	-1.371	2.801	0.761
800SFS162-43EQS	0.477	1.62	4.128	1.032	2.941	0.143	0.548	3.870	0.706	2009	732	0.255	1.862	0.603	-0.931	3.133	0.912
800SFS200-43EQS	0.507	1.73	4.603	1.151	3.012	0.238	0.685	4.529	0.753	2143	732	0.271	3.023	0.770	-1.209	3.317	0.867

**Table Notes**

1. Effective section properties shown only for sections complying with NASPEC Section B1.

## Supreme 43EQS Track Section Properties

Track Member	Gross Properties							Effective Properties				Torsional Properties					
	Area (in. <sup>2</sup> )	Weight (lbs/ft.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Rx (in.)	Iyy (in. <sup>4</sup> )	Ry (in.)	Ixx (in. <sup>4</sup> )	Sxx (in. <sup>3</sup> )	Ma (ft-lbs)	Va (lbs)	Jx1000 (in. <sup>4</sup> )	Cw (in. <sup>6</sup> )	m (in.)	Xo (in.)	Ro (in.)	β
250SFT125-43EQS	0.200	0.68	0.222	0.167	1.053	0.031	0.396	0.185	0.114	323	1798	0.107	0.038	0.454	-0.758	1.356	0.688
250SFT150-43EQS	0.220	0.75	0.256	0.193	1.079	0.052	0.484	0.200	0.118	335	1798	0.117	0.062	0.572	-0.971	1.530	0.597
250SFT200-43EQS	0.260	0.88	0.324	0.244	1.117	0.112	0.657	0.225	0.124	352	1798	0.139	0.136	0.812	-1.416	1.919	0.456
250SFT250-43EQS	0.300	1.02	0.392	0.296	1.144	0.205	0.827	0.246	0.128	364	1798	0.160	0.251	1.055	-1.876	2.347	0.361
362SFT125-43EQS	0.245	0.83	0.506	0.268	1.438	0.035	0.376	0.432	0.194	551	1603	0.131	0.087	0.408	-0.656	1.625	0.837
362SFT150-43EQS	0.265	0.90	0.576	0.305	1.475	0.057	0.466	0.464	0.201	571	1603	0.141	0.142	0.521	-0.852	1.766	0.767
362SFT200-43EQS	0.305	1.04	0.716	0.379	1.532	0.126	0.644	0.520	0.208	591	1603	0.163	0.310	0.753	-1.268	2.090	0.632
362SFT250-43EQS	0.345	1.17	0.855	0.453	1.575	0.231	0.819	0.571	0.204	581	1603	0.184	0.569	0.991	-1.705	2.461	0.520
400SFT125-43EQS	0.260	0.88	0.634	0.305	1.562	0.036	0.370	0.545	0.224	638	1450	0.139	0.109	0.395	-0.628	1.724	0.867
400SFT150-43EQS	0.280	0.95	0.719	0.346	1.603	0.059	0.459	0.584	0.232	660	1450	0.149	0.178	0.506	-0.819	1.858	0.806
400SFT200-43EQS	0.320	1.09	0.888	0.428	1.666	0.130	0.638	0.657	0.229	652	1450	0.171	0.387	0.735	-1.226	2.165	0.679
400SFT250-43EQS	0.360	1.22	1.057	0.509	1.714	0.238	0.814	0.720	0.256	642	1450	0.192	0.709	0.972	-1.656	2.518	0.568
600SFT125-43EQS	0.340	1.16	1.650	0.537	2.204	0.039	0.338	1.390	0.313	889	961	0.181	0.273	0.336	-0.515	2.288	0.949
600SFT150-43EQS	0.360	1.22	1.837	0.597	2.260	0.065	0.425	1.471	0.318	905	961	0.192	0.449	0.438	-0.682	2.398	0.919
600SFT200-43EQS	0.400	1.36	2.210	0.719	2.352	0.145	0.603	1.755	0.341	969	961	0.213	0.976	0.654	-1.046	2.643	0.843
600SFT250-43EQS	0.440	1.50	2.584	0.840	2.424	0.269	0.782	1.911	0.340	968	961	0.235	1.779	0.879	-1.439	2.925	0.758
800SFT125-43EQS	0.420	1.43	3.345	0.821	2.823	0.041	0.312	2.679	0.426	1211	718	0.224	0.525	0.293	-0.437	2.874	0.977
800SFT150-43EQS	0.440	1.50	3.674	0.902	2.891	0.069	0.396	2.812	0.433	1231	718	0.235	0.865	0.387	-0.586	2.976	0.961
800SFT200-43EQS	0.480	1.63	4.332	1.063	3.005	0.156	0.570	3.039	0.442	1256	718	0.256	1.887	0.588	-0.915	3.193	0.918
800SFT250-43EQS	0.520	1.77	4.990	1.224	3.099	0.290	0.747	3.502	0.456	1296	718	0.277	3.443	0.803	-1.276	3.433	0.862

**Table Notes**

1. The centerline bend radius is 0.0912"
2. Web depth for track sections is equal to the nominal height plus two time the design thickness plus the bend radius
3. Gross properties are based on the full-unreduced cross section of the studs, away from the punchouts
4. For deflection calculations, use the effective moment of inertia

# 33EQS & 43EQS Structural Studs & Track

## Limiting Wall Heights - Curtain Wall

Stud Member	Spacing (in) o.c.	5 psf			15 psf			20 psf			25 psf		
		L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
250SFS162-33EQS	12	17' 2"	13' 7"	11' 10"	10' 7"	9' 3"	-	9' 8"	8' 5"	-	8' 11"	-	-
	16	15' 7"	12' 4"	10' 9"	9' 8"	8' 5"	-	8' 9"	-	-	8' 1"	-	-
	24	13' 7"	10' 9"	9' 5"	8' 5"	-	-	-	-	-	-	-	-
250SFS162-43EQS	12	19' 2"	15' 2"	13' 3"	11' 10"	10' 4"	8' 9"	10' 9"	9' 5"	-	10' 0"	8' 9"	-
	16	17' 5"	13' 10"	12' 1"	10' 9"	9' 5"	-	9' 9"	8' 7"	-	9' 1"	-	-
	24	15' 2"	12' 1"	10' 6"	9' 5"	8' 3"	-	8' 7"	7' 5"	-	-	-	-
362SFS162-33EQS	12	22' 11"	18' 2"	15' 10"	14' 2"	12' 5"	10' 5"	12' 11"	11' 3"	9' 6"	11' 11"	10' 5"	8' 10"
	16	20' 10"	16' 6"	14' 5"	12' 11"	11' 3"	9' 6"	11' 8"	10' 3"	8' 7"	10' 10"	9' 6"	8' 0"
	24	18' 2"	14' 5"	12' 7"	11' 3"	9' 10"	8' 3"	10' 3"	8' 11"	-	9' 2"e	8' 3"	-
362SFS162-43EQS	12	25' 6"	20' 3"	17' 8"	15' 9"	13' 9"	11' 7"	14' 4"	12' 6"	10' 7"	13' 4"	11' 7"	9' 9"
	16	23' 2"	18' 4"	16' 0"	14' 4"	12' 6"	10' 7"	13' 0"	11' 4"	9' 7"	12' 1"	10' 7"	8' 11"
	24	20' 3"	16' 0"	14' 0"	12' 6"	10' 11"	9' 2"	11' 4"	9' 11"	8' 4"	10' 7"	9' 2"	-
400SFS162-33EQS	12	24' 9"	19' 8"	17' 2"	15' 4"	13' 5"	11' 3"	13' 11"	12' 2"	10' 3"	12' 11"	11' 3"	9' 6"
	16	22' 6"	17' 10"	15' 7"	13' 11"	12' 2"	10' 3"	12' 8"	11' 0"	9' 4"	11' 9"	10' 3"	8' 8"
	24	19' 8"	15' 7"	13' 7"	12' 2"	10' 7"	8' 11"	10' 10"e	9' 8"	8' 1"	9' 8"e	8' 11"e	-
400SFS162-43EQS	12	27' 6"	21' 10"	19' 1"	17' 0"	14' 10"	12' 6"	15' 6"	13' 6"	11' 5"	14' 4"	12' 6"	10' 7"
	16	25' 0"	19' 10"	17' 4"	15' 6"	13' 6"	11' 5"	14' 1"	12' 3"	10' 4"	13' 0"	11' 5"	9' 7"
	24	21' 10"	17' 4"	15' 1"	13' 6"	11' 9"	9' 11"	12' 3"	10' 9"	9' 0"	11' 5"	9' 11"	8' 5"
600SFS162-33EQS	12	34' 0"	27' 0"	23' 7"	21' 1"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"e	15' 6"e	13' 1"
	16	30' 11"	24' 6"	21' 5"	19' 1"	16' 8"	14' 1"	17' 4"e	15' 2"e	12' 9"	15' 8"e	14' 1"e	11' 10"e
	24	27' 0"	21' 5"	18' 8"	16' 7"e	14' 7"e	12' 4"	14' 4"e	13' 3"e	11' 2"e	12' 10"e	12' 4"e	10' 4"e
600SFS162-43EQS	12	37' 9"	30' 0"	26' 2"	23' 5"	20' 5"	17' 3"	21' 3"	18' 7"	15' 8"	19' 9"	17' 3"	14' 6"
	16	34' 4"	27' 3"	23' 9"	21' 3"	18' 7"	15' 8"	19' 4"	16' 10"	14' 3"	17' 11"	15' 8"	13' 2"
	24	30' 0"	23' 9"	20' 9"	18' 7"	16' 3"	13' 8"	16' 10"	14' 9"	12' 5"	15' 8"e	13' 8"	11' 6"
800SFS162-43EQS	12	46' 7"	37' 0"	32' 4"	28' 10"	25' 3"	21' 3"	26' 3"	22' 11"	19' 4"	24' 4"	21' 3"	17' 11"
	16	42' 4"	33' 7"	29' 4"	26' 3"	22' 11"	19' 4"	23' 10"	20' 10"	17' 6"	21' 11"e	19' 4"	16' 3"
	24	37' 0"	29' 4"	25' 8"	21' 11"e	20' 0"	16' 10"	20' 0"e	18' 2"e	15' 4"	17' 11"e	16' 10"e	14' 3"e

Stud Member	Spacing (in) o.c.	30 psf			35 psf			40 psf			50 psf		
		L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
250SFS162-33EQS	12	8' 5"	-	-	8' 0"	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-
250SFS162-43EQS	12	9' 5"	8' 3"	-	8' 11"	-	-	8' 7"	-	-	-	-	-
	16	8' 7"	-	-	8' 1"	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-
362SFS162-33EQS	12	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	-	10' 3"	8' 11"	-	9' 2"e	8' 3"	-
	16	10' 3"	8' 11"	-	9' 6"e	8' 6"	-	8' 10"e	8' 1"e	-	-	-	-
	24	8' 4"e	-	-	-	-	-	-	-	-	-	-	-
362SFS162-43EQS	12	12' 6"	10' 11"	9' 2"	11' 11"	10' 5"	8' 9"	11' 4"	9' 11"	8' 4"	10' 7"	9' 2"	-
	16	11' 4"	9' 11"	8' 4"	10' 10"	9' 5"	-	10' 4"	9' 0"	-	9' 6"	8' 4"	-
	24	9' 11"	8' 8"	-	9' 3"	8' 3"	-	8' 8"	-	-	-	-	-
400SFS162-33EQS	12	12' 2"	10' 7"	8' 11"	11' 6"	10' 1"	8' 6"	10' 10"e	9' 8"	8' 1"	9' 8"e	8' 11"e	-
	16	10' 10"e	9' 8"	8' 1"	10' 0"e	9' 2"e	-	9' 4"e	8' 9"e	-	8' 4"e	8' 1"e	-
	24	8' 10"e	8' 5"e	-	8' 2"e	8' 0"e	-	-	-	-	-	-	-
400SFS162-43EQS	12	13' 6"	11' 9"	9' 11"	12' 10"	11' 2"	9' 5"	12' 3"	10' 9"	9' 0"	11' 5"	9' 11"	8' 5"
	16	12' 3"	10' 9"	9' 0"	11' 8"	10' 2"	8' 7"	11' 2"	9' 9"	8' 2"	10' 1"	9' 0"	-
	24	10' 7"	9' 4"	-	9' 10"	8' 11"	-	9' 2"	8' 6"	-	8' 2"e	-	-
600SFS162-33EQS	12	16' 7"e	14' 7"e	12' 4"	15' 4"e	13' 10"e	11' 8"e	14' 4"e	13' 3"e	11' 2"e	12' 10"e	12' 4"e	10' 4"e
	16	14' 4"e	13' 3"e	11' 2"e	13' 3"e	12' 7"e	10' 7"e	12' 5"e	12' 0"e	10' 2"e	11' 1"e	11' 1"e	9' 5"e
	24	11' 8"e	11' 7"e	9' 9"e	10' 10"e	10' 10"e	9' 3"e	9' 10"e	9' 10"e	8' 10"e	-	-	-
600SFS162-43EQS	12	18' 7"	16' 3"	13' 8"	17' 8"	15' 5"	13' 0"	16' 10"	14' 9"	12' 5"	15' 8"e	13' 8"	11' 6"
	16	16' 10"	14' 9"	12' 5"	16' 0"e	14' 0"	11' 10"	15' 4"e	13' 5"e	11' 3"	13' 9"e	12' 5"e	10' 6"
	24	14' 6"e	12' 10"e	10' 10"	13' 5"e	12' 3"e	10' 4"e	12' 7"e	11' 8"e	9' 10"e	11' 3"e	10' 10"e	9' 2"e
800SFS162-43EQS	12	21' 11"e	20' 0"	16' 10"	21' 5"e	19' 0"	16' 0"	20' 0"e	18' 2"e	15' 4"	17' 11"e	16' 10"e	14' 3"e
	16	20' 0"e	18' 2"e	15' 4"	18' 6"e	17' 3"e	14' 7"e	17' 4"e	16' 6"e	13' 11"e	15' 6"e	15' 4"e	12' 11"e
	24	16' 4"e	15' 10"e	13' 5"e	15' 1"e	15' 1"e	12' 8"e	14' 2"e	14' 2"e	12' 2"e	12' 8"e	12' 8"e	11' 3"e

**Table Notes:**

1. Non-Axial Load Bearing wall heights

# 33EQS & 43EQS Structural Studs & Track Combined Axial & Lateral Loads

### Table Notes:

1. Allowable loads based on weak axis and torsional bracing at 48" o.c. maximum for axial load calculation and continuous support of each flange for flexural calculation.
2. Allowable axial load in kips/stud (1 kip = 1000 lbs).
3. Check lateral end reactions for web crippling.
4. Lateral loads greater than 5 psf multiplied by 0.7 for deflection.

Wall Height (ft)	Spacing (in) o.c.	5 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	1.050	1.555	1.796	2.743	1.981	3.070	2.445	3.873	3.720
	16	0.994	1.494	1.734	2.676	1.922	3.006	2.408	3.836	3.694
	24	0.889 <sup>4</sup>	1.379	1.614	2.547	1.806	2.879	2.337	3.762	3.641
9	12	0.904	1.344	1.649	2.517	1.852	2.871	2.412	3.839	3.698
	16	0.840 <sup>5</sup>	1.274	1.573	2.435	1.778	2.791	2.365	3.790	3.664
	24	0.722 <sup>4</sup>	1.144 <sup>4</sup>	1.427	2.277	1.635	2.634	2.273	3.694	3.596
10	12	0.767 <sup>5</sup>	1.148	1.485	2.266	1.705	2.646	2.373	3.798	3.672
	16	0.697 <sup>4</sup>	1.072 <sup>5</sup>	1.396	2.171	1.617	2.549	2.314	3.736	3.629
	24	0.572 <sup>3</sup>	0.933 <sup>4</sup>	1.229	1.989	1.449	2.363	2.198	3.614	3.544
12	12	0.536 <sup>3</sup>	0.821 <sup>4</sup>	1.151	1.781	1.378	2.143	2.212	3.585	3.609
	16	0.462 <sup>3</sup>	0.740 <sup>4</sup>	1.045 <sup>5</sup>	1.665	1.267	2.021	2.127	3.494	3.545
	24	0.334 <sup>2</sup>	0.597 <sup>3</sup>	0.852 <sup>4</sup>	1.452 <sup>4</sup>	1.061 <sup>4</sup>	1.794	1.960	3.316	3.419
14	12	0.362 <sup>2</sup>	0.578 <sup>3</sup>	0.850 <sup>4</sup>	1.361	1.055 <sup>5</sup>	1.675	2.000	3.255	3.528
	16	0.291 <sup>2</sup>	0.499 <sup>2</sup>	0.739 <sup>4</sup>	1.236 <sup>4</sup>	0.933 <sup>4</sup>	1.539 <sup>5</sup>	1.887	3.133	3.439
	24	0.169 <sup>1</sup>	0.362 <sup>2</sup>	0.540 <sup>3</sup>	1.014 <sup>4</sup>	0.714 <sup>3</sup>	1.295 <sup>4</sup>	1.670	2.899	3.263
16	12	0.237 <sup>2</sup>	0.404 <sup>2</sup>	0.615 <sup>3</sup>	1.025 <sup>4</sup>	0.781 <sup>4</sup>	1.287 <sup>5</sup>	1.740	2.851	3.427
	16	0.171 <sup>1</sup>	0.329 <sup>2</sup>	0.504 <sup>3</sup>	0.901 <sup>4</sup>	0.657 <sup>3</sup>	1.148 <sup>4</sup>	1.603	2.703	3.307
	24	0.057 <sup>1</sup>	0.201 <sup>1</sup>	0.311 <sup>2</sup>	0.682 <sup>3</sup>	0.440 <sup>2</sup>	0.901 <sup>3</sup>	1.347 <sup>4</sup>	2.424	3.072

Wall Height (ft)	Spacing (in) o.c.	15 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.742 <sup>4</sup>	1.217	1.441	2.358	1.638	2.695	2.230	3.651	3.562
	16	0.609 <sup>4</sup>	1.067 <sup>4</sup>	1.276	2.178	1.476	2.516	2.124	3.541	3.482
	24	0.367 <sup>3</sup>	0.795 <sup>4</sup>	0.965 <sup>5</sup>	1.834	1.167	2.172	1.914	3.324	3.325
9	12	0.563 <sup>4</sup>	0.967 <sup>4</sup>	1.222	2.053	1.431	2.408	2.136	3.551	3.494
	16	0.421 <sup>3</sup>	0.808 <sup>4</sup>	1.030 <sup>5</sup>	1.841	1.238	2.193	2.000	3.410	3.393
	24	0.170 <sup>2</sup>	0.523 <sup>3</sup>	0.678 <sup>4</sup>	1.449 <sup>5</sup>	0.877 <sup>4</sup>	1.788	1.735	3.131	3.192
10	12	0.408 <sup>3</sup>	0.749 <sup>4</sup>	0.999 <sup>5</sup>	1.737	1.213	2.101	2.026	3.434	3.418
	16	0.263 <sup>2</sup>	0.586 <sup>3</sup>	0.789 <sup>4</sup>	1.503 <sup>5</sup>	0.994 <sup>5</sup>	1.856	1.859	3.257	3.291
	24	0.011 <sup>2</sup>	0.300 <sup>2</sup>	0.409 <sup>3</sup>	1.079 <sup>4</sup>	0.594 <sup>4</sup>	1.405 <sup>4</sup>	1.534	2.911	3.042
12	12	0.171 <sup>2</sup>	0.414 <sup>2</sup>	0.596 <sup>4</sup>	1.169 <sup>4</sup>	0.786 <sup>4</sup>	1.487 <sup>5</sup>	1.720	3.057	3.233
	16	0.030 <sup>2</sup>	0.255 <sup>2</sup>	0.371 <sup>3</sup>	0.915 <sup>4</sup>	0.539 <sup>4</sup>	1.209 <sup>4</sup>	1.490	2.807	3.049
	24	-	-	-	0.470 <sup>3</sup>	0.104 <sup>3</sup>	0.717 <sup>3</sup>	1.055 <sup>5</sup>	2.332	2.687
14	12	0.015 <sup>1</sup>	0.190 <sup>2</sup>	0.285 <sup>3</sup>	0.726 <sup>3</sup>	0.429 <sup>3</sup>	0.974 <sup>4</sup>	1.366	2.568	3.004
	16	-	0.042 <sup>1</sup>	0.063 <sup>2</sup>	0.475 <sup>3</sup>	0.180 <sup>2</sup>	0.691 <sup>3</sup>	1.083 <sup>5</sup>	2.256	2.752
	24	-	-	-	0.042 <sup>2</sup>	-	0.201 <sup>2</sup>	0.564 <sup>4</sup>	1.681 <sup>4</sup>	2.264
16	12	-	0.043 <sup>1</sup>	0.066 <sup>2</sup>	0.403 <sup>2</sup>	0.163 <sup>2</sup>	0.586 <sup>3</sup>	0.998 <sup>4</sup>	2.040	2.732
	16	-	-	-	0.163 <sup>2</sup>	-	0.313 <sup>2</sup>	0.681 <sup>4</sup>	1.690 <sup>4</sup>	2.405
	24	-	-	-	-	-	-	0.117 <sup>3</sup>	1.058 <sup>4</sup>	1.787 <sup>5</sup>

1. Deflection exceeds L/120
  2. Deflection exceeds L/240
  3. Deflection exceeds L/360
  4. Deflection exceeds L/600
  5. Deflection exceeds L/720
- If not noted, deflection is less than L/720

# 33EQS & 43EQS Structural Studs & Track Combined Axial & Lateral Loads

Wall Height (ft)	Spacing (in) o.c.	20 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.609 <sup>4</sup>	1.067 <sup>4</sup>	1.276	2.178	1.476	2.516	2.124	3.541	3.482
	16	0.444 <sup>3</sup>	0.883 <sup>4</sup>	1.066	1.946	1.268	2.285	1.983	3.396	3.377
	24	0.152 <sup>2</sup>	0.550 <sup>3</sup>	0.676 <sup>4</sup>	1.513 <sup>5</sup>	0.876 <sup>5</sup>	1.846	1.708	3.109	3.168
9	12	0.421 <sup>3</sup>	0.808 <sup>4</sup>	1.030	1.841	1.238	2.193	2.000	3.410	3.393
	16	0.250 <sup>2</sup>	0.613 <sup>3</sup>	0.791 <sup>4</sup>	1.575	0.993 <sup>5</sup>	1.919	1.823	3.223	3.259
	24	-	0.272 <sup>2</sup>	0.357 <sup>3</sup>	1.089 <sup>4</sup>	0.545 <sup>4</sup>	1.413 <sup>5</sup>	1.476	2.859	2.992
10	12	0.263 <sup>2</sup>	0.586 <sup>3</sup>	0.789 <sup>4</sup>	1.503 <sup>5</sup>	0.994 <sup>5</sup>	1.856	1.859	3.257	3.291
	16	0.091 <sup>2</sup>	0.390 <sup>2</sup>	0.530 <sup>4</sup>	1.215 <sup>4</sup>	0.723 <sup>4</sup>	1.550 <sup>5</sup>	1.641	3.025	3.125
	24	-	0.051 <sup>2</sup>	0.072 <sup>3</sup>	0.698 <sup>3</sup>	0.233 <sup>3</sup>	0.994 <sup>4</sup>	1.221	2.577	2.794
12	12	0.030 <sup>2</sup>	0.255 <sup>2</sup>	0.371 <sup>3</sup>	0.915 <sup>4</sup>	0.539 <sup>4</sup>	1.209 <sup>4</sup>	1.490	2.807	3.049
	16	-	0.068 <sup>2</sup>	0.100 <sup>2</sup>	0.612 <sup>3</sup>	0.242 <sup>3</sup>	0.873 <sup>4</sup>	1.197	2.487	2.806
	24	-	-	-	0.082 <sup>2</sup>	-	0.282 <sup>3</sup>	0.649 <sup>4</sup>	1.885 <sup>5</sup>	2.333
14	12	-	0.042 <sup>1</sup>	0.063 <sup>2</sup>	0.475 <sup>3</sup>	0.180 <sup>2</sup>	0.691 <sup>3</sup>	1.083 <sup>5</sup>	2.256	2.752
	16	-	-	-	0.177 <sup>2</sup>	-	0.357 <sup>3</sup>	0.731 <sup>4</sup>	1.867 <sup>5</sup>	2.424
	24	-	-	-	-	-	-	0.094 <sup>3</sup>	1.156 <sup>4</sup>	1.796
16	12	-	-	-	0.163 <sup>2</sup>	-	0.313 <sup>2</sup>	0.681 <sup>4</sup>	1.690 <sup>4</sup>	2.405
	16	-	-	-	-	-	-	0.297 <sup>3</sup>	1.260 <sup>4</sup>	1.988
	24	-	-	-	-	-	-	0.498 <sup>3</sup>	1.208 <sup>4</sup>	

Wall Height (ft)	Spacing (in) o.c.	25 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.484 <sup>3</sup>	0.927 <sup>4</sup>	1.118	2.003	1.319	2.342	2.018	3.432	3.403
	16	0.292 <sup>3</sup>	0.711 <sup>3</sup>	0.867 <sup>5</sup>	1.725	1.068	2.062	1.845	3.252	3.272
	24	-	0.326 <sup>2</sup>	0.405 <sup>4</sup>	1.209 <sup>4</sup>	0.599 <sup>4</sup>	1.535 <sup>5</sup>	1.505	2.897	3.011
9	12	0.291 <sup>2</sup>	0.660 <sup>3</sup>	0.849 <sup>4</sup>	1.640	1.053 <sup>5</sup>	1.986	1.867	3.270	3.292
	16	0.094 <sup>2</sup>	0.437 <sup>3</sup>	0.568 <sup>4</sup>	1.326 <sup>4</sup>	0.763 <sup>4</sup>	1.660	1.648	3.040	3.125
	24	-	0.046 <sup>2</sup>	0.061 <sup>3</sup>	0.754 <sup>4</sup>	0.234 <sup>3</sup>	1.061 <sup>4</sup>	1.224	2.591	2.794
10	12	0.132 <sup>2</sup>	0.437 <sup>3</sup>	0.593 <sup>4</sup>	1.285 <sup>4</sup>	0.789 <sup>4</sup>	1.624 <sup>5</sup>	1.695	3.083	3.166
	16	-	0.214 <sup>2</sup>	0.293 <sup>3</sup>	0.948 <sup>4</sup>	0.470 <sup>4</sup>	1.264 <sup>4</sup>	1.428	2.799	2.959
	24	-	-	-	0.350 <sup>3</sup>	-	0.615 <sup>3</sup>	0.919 <sup>5</sup>	2.252	2.550
12	12	-	0.113 <sup>2</sup>	0.165 <sup>3</sup>	0.685 <sup>3</sup>	0.314 <sup>3</sup>	0.953 <sup>4</sup>	1.269	2.566	2.866
	16	-	-	-	0.335 <sup>3</sup>	-	0.567 <sup>3</sup>	0.917 <sup>4</sup>	2.180	2.568
	24	-	-	-	-	-	-	0.267 <sup>4</sup>	1.462 <sup>4</sup>	1.987
14	12	-	-	-	0.248 <sup>2</sup>	-	0.437 <sup>3</sup>	0.817 <sup>4</sup>	1.961 <sup>5</sup>	2.505
	16	-	-	-	-	-	0.054 <sup>2</sup>	0.403 <sup>4</sup>	1.502 <sup>4</sup>	2.106
	24	-	-	-	-	-	-	0.670 <sup>3</sup>	1.345 <sup>5</sup>	
16	12	-	-	-	-	-	0.068 <sup>2</sup>	0.389 <sup>3</sup>	1.364 <sup>4</sup>	2.091
	16	-	-	-	-	-	-	0.866 <sup>3</sup>	1.590 <sup>5</sup>	
	24	-	-	-	-	-	-	-	0.662 <sup>4</sup>	

Wall Height (ft)	Spacing (in) o.c.	30 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.367 <sup>3</sup>	0.795 <sup>4</sup>	0.965 <sup>5</sup>	1.834	1.167	3.247	1.914	3.324	3.325
	16	0.152 <sup>2</sup>	0.550 <sup>3</sup>	0.676 <sup>4</sup>	1.513 <sup>5</sup>	0.876 <sup>5</sup>	3.012	1.708	3.109	3.168
	24	-	0.118 <sup>2</sup>	0.148 <sup>3</sup>	0.920 <sup>4</sup>	0.336 <sup>4</sup>	2.553	1.305	2.687	2.856
9	12	0.170 <sup>2</sup>	0.523 <sup>3</sup>	0.678 <sup>4</sup>	1.449 <sup>5</sup>	0.877 <sup>4</sup>	2.998	1.735	3.131	3.192
	16	-	0.272 <sup>2</sup>	0.357 <sup>3</sup>	1.089 <sup>4</sup>	0.545 <sup>4</sup>	2.705	1.476	2.859	2.992
	24	-	-	-	0.441 <sup>3</sup>	-	2.139	0.977	2.329	2.597
10	12	0.011 <sup>2</sup>	0.300 <sup>2</sup>	0.409 <sup>3</sup>	1.079 <sup>4</sup>	0.594 <sup>4</sup>	2.708	1.534	2.911	3.042
	16	-	0.051 <sup>2</sup>	0.072 <sup>3</sup>	0.698 <sup>3</sup>	0.233 <sup>3</sup>	2.356	1.221	2.577	2.794
	24	-	-	-	0.026 <sup>2</sup>	-	1.692 <sup>5</sup>	0.627 <sup>4</sup>	1.936	2.308
12	12	-	-	-	0.470 <sup>3</sup>	0.104 <sup>3</sup>	2.060	1.055 <sup>5</sup>	2.332	2.687
	16	-	-	-	0.082 <sup>2</sup>	-	1.611 <sup>4</sup>	0.649 <sup>4</sup>	1.885 <sup>5</sup>	2.333
	24	-	-	-	-	-	0.791 <sup>4</sup>	-	1.058 <sup>4</sup>	1.649
14	12	-	-	-	0.042 <sup>2</sup>	-	1.397 <sup>4</sup>	0.564 <sup>4</sup>	1.681 <sup>4</sup>	2.264
	16	-	-	-	-	-	0.890 <sup>3</sup>	0.094 <sup>3</sup>	1.156 <sup>4</sup>	1.796
	24	-	-	-	-	-	-	-	0.216 <sup>3</sup>	0.910 <sup>4</sup>
16	12	-	-	-	-	-	0.803 <sup>3</sup>	0.117 <sup>3</sup>	1.058 <sup>4</sup>	1.787 <sup>5</sup>
	16	-	-	-	-	-	0.280 <sup>2</sup>	-	0.498 <sup>3</sup>	1.208 <sup>4</sup>
	24	-	-	-	-	-	-	-	-	0.142 <sup>3</sup>

1. Deflection exceeds L/120  
 2. Deflection exceeds L/240  
 See page 12 for table notes.

3. Deflection exceeds L/360  
 4. Deflection exceeds L/600

5. Deflection exceeds L/720  
 If not noted, deflection is less than L/720

# 33EQS & 43EQS Structural Studs & Track Combined Axial & Lateral Loads

Wall Height (ft)	Spacing (in) o.c.	35 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.257 <sup>3</sup>	0.670 <sup>3</sup>	0.818 <sup>4</sup>	1.671	1.019	2.007	1.810	3.216	3.246
	16	0.018 <sup>2</sup>	0.399 <sup>3</sup>	0.494 <sup>4</sup>	1.308 <sup>4</sup>	0.690 <sup>4</sup>	1.638	1.572	2.967	3.063
	24	-	-	-	0.644 <sup>4</sup>	0.083 <sup>4</sup>	0.952 <sup>4</sup>	1.108	2.480	2.701
9	12	0.057 <sup>2</sup>	0.395 <sup>2</sup>	0.514 <sup>4</sup>	1.265 <sup>4</sup>	0.708 <sup>4</sup>	1.597 <sup>5</sup>	1.605	2.994	3.092
	16	-	0.119 <sup>2</sup>	0.157 <sup>3</sup>	0.863 <sup>4</sup>	0.335 <sup>4</sup>	1.176 <sup>4</sup>	1.307	2.680	2.860
	24	-	-	-	0.146 <sup>3</sup>	-	0.411 <sup>3</sup>	0.736 <sup>5</sup>	2.072	2.402
10	12	-	0.172 <sup>2</sup>	0.236 <sup>3</sup>	0.884 <sup>4</sup>	0.410 <sup>4</sup>	1.196 <sup>4</sup>	1.376	2.743	2.918
	16	-	-	-	0.463 <sup>3</sup>	0.010 <sup>3</sup>	0.738 <sup>4</sup>	1.018	2.359	2.631
	24	-	-	-	-	-	-	0.344 <sup>4</sup>	1.628 <sup>5</sup>	2.069
12	12	-	-	-	0.271 <sup>2</sup>	-	0.493 <sup>3</sup>	0.849 <sup>4</sup>	2.105	2.509
	16	-	-	-	-	-	0.017 <sup>2</sup>	0.392 <sup>4</sup>	1.601 <sup>4</sup>	2.102
	24	-	-	-	-	-	-	-	0.673 <sup>4</sup>	1.317 <sup>5</sup>
14	12	-	-	-	-	-	-	0.324 <sup>3</sup>	1.414 <sup>4</sup>	2.027
	16	-	-	-	-	-	-	-	0.828 <sup>4</sup>	1.493 <sup>5</sup>
	24	-	-	-	-	-	-	-	-	0.490 <sup>4</sup>
16	12	-	-	-	-	-	-	-	0.771 <sup>3</sup>	1.493 <sup>5</sup>
	16	-	-	-	-	-	-	-	0.152 <sup>3</sup>	0.841 <sup>4</sup>
	24	-	-	-	-	-	-	-	-	-

Wall Height (ft)	Spacing (in) o.c.	40 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	0.152 <sup>2</sup>	0.550 <sup>3</sup>	0.676 <sup>4</sup>	1.513 <sup>5</sup>	0.876 <sup>5</sup>	1.846	1.708	3.109	3.168
	16	-	0.256 <sup>2</sup>	0.317 <sup>4</sup>	1.111 <sup>4</sup>	0.510 <sup>4</sup>	1.435 <sup>5</sup>	1.438	2.826	2.959
	24	-	-	-	0.379 <sup>3</sup>	-	0.676 <sup>4</sup>	0.914	2.275	2.546
9	12	-	0.272 <sup>2</sup>	0.357 <sup>3</sup>	1.089 <sup>4</sup>	0.545 <sup>4</sup>	1.413 <sup>5</sup>	1.476	2.859	2.992
	16	-	-	-	0.648 <sup>4</sup>	0.135 <sup>3</sup>	0.948 <sup>4</sup>	1.141	2.504	2.728
	24	-	-	-	-	-	0.110 <sup>3</sup>	0.500 <sup>4</sup>	1.819	2.208
10	12	-	0.051 <sup>2</sup>	0.072 <sup>3</sup>	0.698 <sup>3</sup>	0.233 <sup>3</sup>	0.994 <sup>4</sup>	1.221	2.577	2.794
	16	-	-	-	0.240 <sup>3</sup>	-	0.495 <sup>3</sup>	0.820 <sup>5</sup>	2.146	2.469
	24	-	-	-	-	-	-	0.069 <sup>4</sup>	1.329 <sup>4</sup>	1.832
12	12	-	-	-	0.082 <sup>2</sup>	-	0.282 <sup>3</sup>	0.649 <sup>4</sup>	1.885 <sup>5</sup>	2.333
	16	-	-	-	-	-	-	0.144 <sup>4</sup>	1.325 <sup>4</sup>	1.874
	24	-	-	-	-	-	-	-	0.301 <sup>3</sup>	0.992 <sup>5</sup>
14	12	-	-	-	-	-	-	0.094 <sup>3</sup>	1.156 <sup>4</sup>	1.796
	16	-	-	-	-	-	-	-	0.515 <sup>3</sup>	1.198 <sup>4</sup>
	24	-	-	-	-	-	-	-	-	0.083 <sup>4</sup>
16	12	-	-	-	-	-	-	-	0.498 <sup>3</sup>	1.208 <sup>4</sup>
	16	-	-	-	-	-	-	-	-	0.486 <sup>4</sup>
	24	-	-	-	-	-	-	-	-	-

Wall Height (ft)	Spacing (in) o.c.	50 psf Lateral Load								
		250SFS162-(Mils)		362SFS162-(Mils)		400SFS162-(Mils)		600SFS162-(Mils)		800SFS162-(Mils)
		33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	33EQS	43EQS	43EQS
8	12	-	0.326 <sup>2</sup>	0.405 <sup>4</sup>	1.209 <sup>4</sup>	0.599 <sup>4</sup>	1.535 <sup>5</sup>	1.505	2.897	3.011
	16	-	-	-	0.735 <sup>4</sup>	0.166 <sup>4</sup>	1.046 <sup>4</sup>	1.173	2.549	2.752
	24	-	-	-	-	-	0.150 <sup>3</sup>	0.533 <sup>5</sup>	1.873	2.240
9	12	-	0.046 <sup>2</sup>	0.061 <sup>3</sup>	0.754 <sup>4</sup>	0.234 <sup>3</sup>	1.061 <sup>4</sup>	1.224	2.591	2.794
	16	-	-	-	0.243 <sup>3</sup>	-	0.515 <sup>4</sup>	0.816 <sup>5</sup>	2.157	2.467
	24	-	-	-	-	-	-	0.042 <sup>4</sup>	1.326 <sup>5</sup>	1.823
10	12	-	-	-	0.350 <sup>3</sup>	-	0.615 <sup>3</sup>	0.919 <sup>5</sup>	2.252	2.550
	16	-	-	-	-	-	0.039 <sup>3</sup>	0.437 <sup>4</sup>	1.730 <sup>5</sup>	2.149
	24	-	-	-	-	-	-	0.751 <sup>4</sup>	1.366	1.366
12	12	-	-	-	-	-	-	0.267 <sup>4</sup>	1.462 <sup>4</sup>	1.987
	16	-	-	-	-	-	-	-	0.799 <sup>4</sup>	1.427
	24	-	-	-	-	-	-	-	-	0.359 <sup>4</sup>
14	12	-	-	-	-	-	-	-	0.670 <sup>3</sup>	1.345 <sup>5</sup>
	16	-	-	-	-	-	-	-	-	0.629 <sup>4</sup>
	24	-	-	-	-	-	-	-	-	-
16	12	-	-	-	-	-	-	-	-	0.662 <sup>4</sup>
	16	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-

1. Deflection exceeds L/120  
 2. Deflection exceeds L/240  
 See page 12 for table notes.

3. Deflection exceeds L/360  
 4. Deflection exceeds L/600

5. Deflection exceeds L/720  
 If not noted, deflection is less than L/720