



PHANTOM STUD

CATALOG

MANUFACTURED BY:



WWW.OEGUSA.COM | 732.667.3636

PHANTOM STUD

SECURE, STURDY & LONGEVITY

Phantom® Stud is a remarkable, innovative product that provides a stronger yet lighter steel framing system. Phantom®'s strong stiffening ribs running down the web and flange of the steel, have made it a most preferred product by drywall distributors and contractors across United States. Phantom® Stud has been tested and approved by Star Labs ICC Certified.

TABLE OF CONTENTS

ABOUT OEG	4
PHANTOM® STUD	6
PHANTOM® STUD AND TRACK SECTION PROPERTIES	10
COMPOSITE LIMITING WALL HEIGHTS	14
NON COMPOSITE LIMITING WALL HEIGHTS (FULLY BRACED)	16
NON COMPOSITE LIMITING WALL HEIGHTS (BRACED AT 48" O.C)	18
CONNECTIONS	20

ABOUT OEG

On a sprawling industrial complex strategically located in Sayreville, NJ, the wheels of innovation keep turning 24 hours a day. OEG runs an expansive manufacturing operation and distribution center. As the leader in innovative and quality cost effective steel products for the construction industry, OEG produces its steel products quickly and efficiently. Our specially engineered products have been tested to withstand load bearing for interior and exterior usage, as well as low rise and high-rise bearings. Years of experience have rendered OEG a reliable source for all steel products in the construction industry.

In our early years, we at OEG Building Materials established the business through manufacturing steel building products. Over time, by listening to the needs of our customers and striving to provide high quality products to satisfy their needs, our line of products steadily grew. Our company expanded its manufacturing machinery to include the full line of steel products constantly in demand by our loyal customers. OEG manufactures and supplies its products quickly and

efficiently, which enables contractors to craft projects that can boast strength, durability and precision. The OEG Building Materials product showcase continues to grow together with the industry standards. OEG products meet and exceed the industry standards established by AISI and ASTM, all while utilizing the highest level of technology and machinery. Our superb quality control system ensures quality that is unmatched and clients that keep coming back

Our reputation is as strong as steel.

OEG offers its customers expert technical and engineering assistance with the selection and use of our products. If you have questions or need more information on any of the products in the catalog, contact our technical services department. Our knowledgeable staff is ready to assist you. In most cases, our expert technical services representatives can provide an immediate response.

Customer service is our priority and we consider it our duty to our loyal clients. OEG is there when you need us, early in the morning or late at night. We stand behind our products and we stand behind our clients.

A HISTORY OF ACHIEVEMENT

At OEG Building Materials, our philosophy has always been to raise industry expectation by going higher. With long-standing roots in the manufacturing and distribution of industrial steel building products, we have been privileged to service lumberyards, construction suppliers and retail merchandisers throughout the United States for decades.

In the early years, OEG Building Materials progressively established a name for manufacturing a full line of structural and drywall studs for steel framing construction. By understanding the particular needs of customers - and by pledging to provide top quality products, competitive pricing, and excellent service - our company steadily developed a sterling reputation.

A REPUTATION FOR EXCELLENCE

As demand for the OEG Building Materials brand grew, our company expanded its lineup to include specialty metal studs and steel joist for steel framing projects. High-quality lightweight durable clean lines for maximum engineered structural stability in walls and load-bearing structures. All the required attributes to help developers and contractors craft projects that possessed the attributes of both strength, splendor and precision.

The OEG Building Materials product showcase to meet the industry standards established by AISI and ASTM by utilizing the highest level of technology. The company's manufacturing operations and a distribution center - strategically located in Sayreville, NJ - implemented strict manufacturing and quality control standards to continuously deliver premium steel joist and studs to the marketplace.

A PROMISE OF SATISFACTION

Built directly on the sturdy foundation of expertise and reliability set by OEG Building Materials over the course of many years, the company launched a division specializing in steel deck products. Boasting a wide range of steel roof, floor composite and form deck in a variety of custom fabricated lengths, OEG Building Materials has speedily acquired a first-rate reputation within the overall industry.

From hi-tech deck manufacturing machinery that exudes unparalleled precision to a centralized distribution center for rapid product delivery to a fully-stocked warehouse with immediate stock on premises for pickup, OEG Building Materials stands ready to continue upholding a rich history of achievement and trustworthiness... one deck at a time.

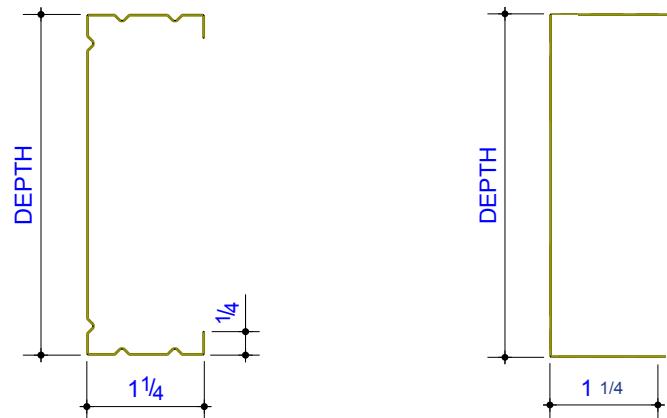
PHANTOM® STUD

Drywall EQ framing systems

Phantom® Stud is an innovative cold formed steel drywall stud for interior framing. Its design combines high-strength steel with additional stiffening enhancements for a drywall-framing system. The result is a revolutionary system that has brought the performance of drywall studs to a whole new level. It has one of the best strength-to-mass ratios of any drywall stud in the industry. It is used to frame interior walls and pre-fabricated wall panels. Phantom® Studs are interchangeable with conventional studs. To install, you utilize the same methods used to install conventional studs, because when using Phantom® Studs, a lower mil drywall can be used at the same strength ratio. Phantom® Studs offer the client the same benefits of the conventional stud at a price that is a lot more economical and a performance that is equivalent or surpasses it.

More Capabilities

Phantom® Stud offers various web and flange combinations, giving you a stud that can be used for differing design conditions. Phantom® Studs have also greater resistance to rust formation, which will result in walls lasting longer thus saving you even more money in the long-term. Phantom® Stud offers increased structural performance due to its reinforced lips and embossments. It also offers efficient design for installing plumbing, heating, electrical, and other mechanical services which in turn saves construction professionals valuable time and reduces labor costs.



Easy Installation:

Phantom® Stud comes with pre-punched knockouts spaced at 24" O.C. that enable you to efficiently install plumbing, heating, electrical, and other mechanical trades. The stud flange grooves provide easy installation of wall panels by aligning screws in position.

Fast Construction:

Due to its lightweight attributes, Phantom® Stud enables fast construction, reduces labor costs and saves construction professionals valuable time

Versatile Applications:

Phantom® Studs are interchangeable with conventional studs. Installation utilizes the same methods used to install conventional studs. It offers the same benefits of the conventional stud at a price that is more economical with a performance that is equivalent or surpasses it.

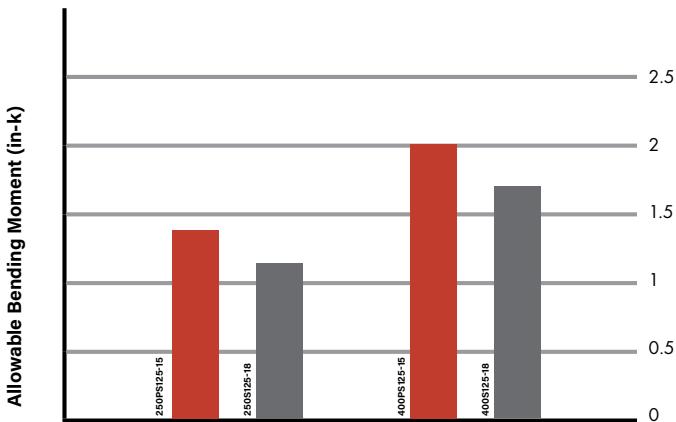
Phantom® Studs Vs Conventional Studs:

Phantom® Stud is gauge equivalent (EQ) drywall framing product as per Steel Framing Industry Association (SFIA) & Steel Stud Manufacturers Association (SSMA).

GAGE CONVERSION			
Phantom® Stud (OEG)		Conventional Stud	
Phantom® 25	13 mils	Gauge 25	18 mils
Phantom® 25	15 mils	Gauge 25	18 mils
Phantom® 20	19 mils	Gauge 20	30 mils

Performance Comparison:

Phantom® Stud (EQ) drywall framing system exceeds the conventional drywall system in strength, ease of installation and fastening.



Section Designation	Depth (in)	Flange Width (in)	Lip Length (in)
162S125	1.625	1.250	0.25
250S125	2.500	1.250	0.25
362S125	3.625	1.250	0.25
400S125	4.000	1.250	0.25
600S125	6.000	1.250	0.25
162T125	1.625	1.250	N/A
250T125	2.500	1.250	N/A
362T125	3.625	1.250	N/A
400T125	4.000	1.250	N/A
600T125	6.000	1.250	N/A

Standards:

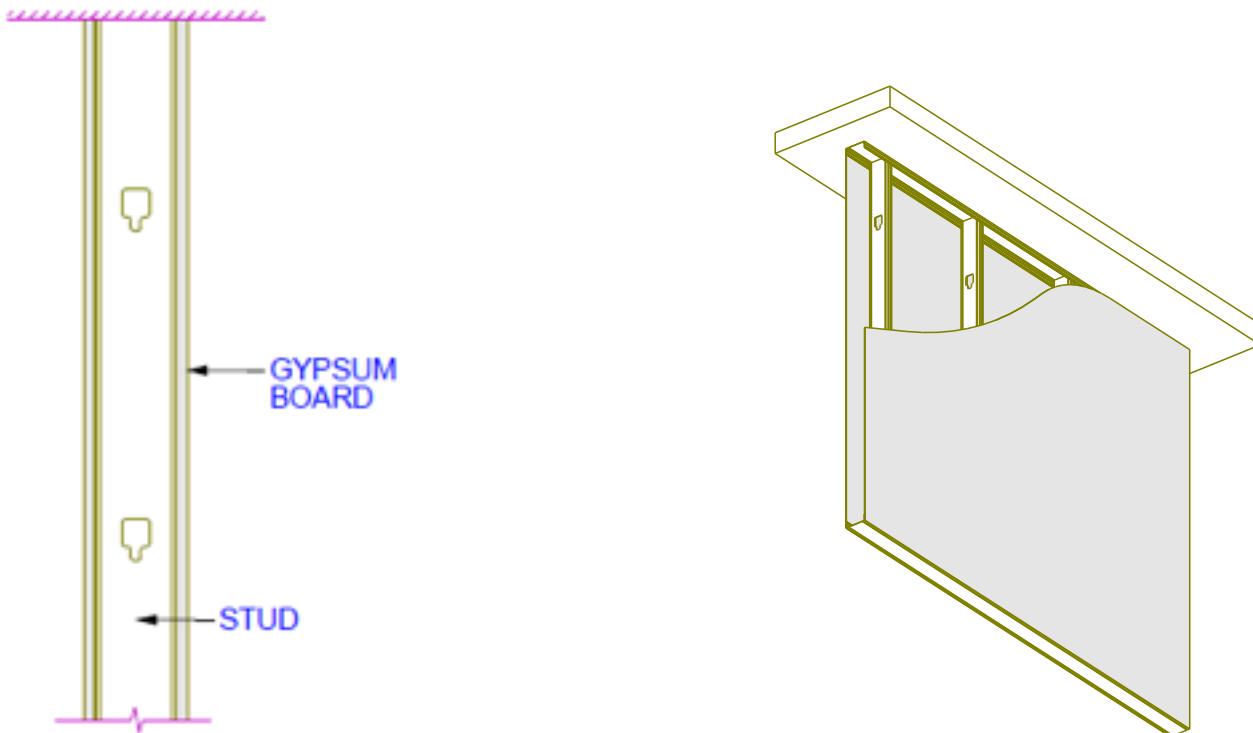
Complies with the 2015 International Building Code and AISI S100-12. Drywall framing material meet or exceed ASTM C644. Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 and ASTM A1003.

ICC ES Acceptance Criteria:

Phantom® Studs manufactured by OEG are designed, tested and certified to meet the additional strength requirements of ICC-ES AC86 (2010). Tests were conducted by Structural Testing & Research (STAR) Inc.

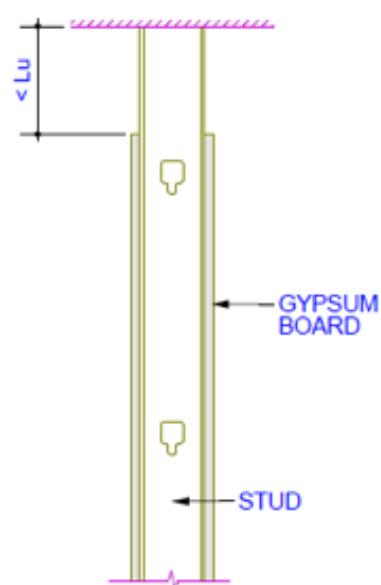
Composite Assemblies

In this type of wall assembly gypsum board is applied on both flange of stud continuing up-to full height of wall. For these kinds of assemblies, use the Composite Limiting Wall Heights Table.

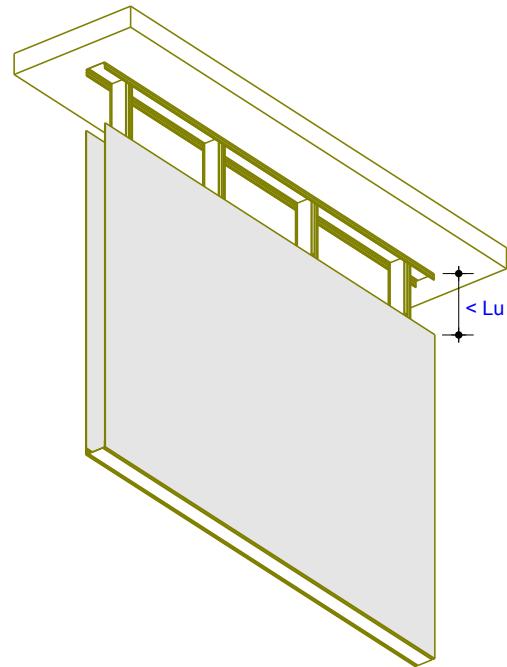
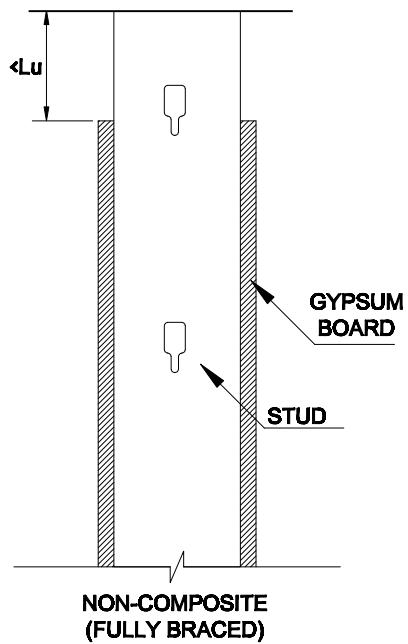


Non-Composite Assemblies

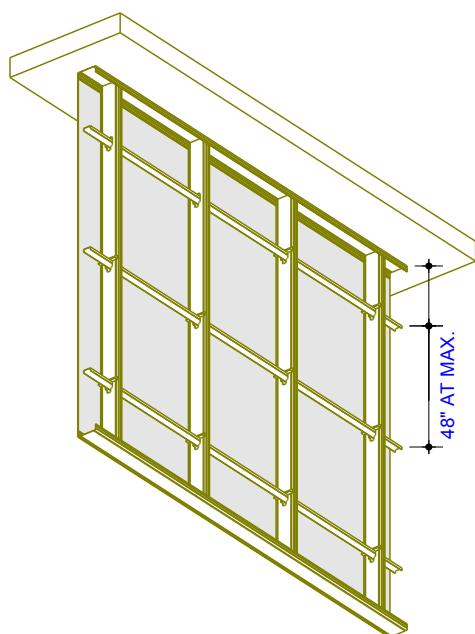
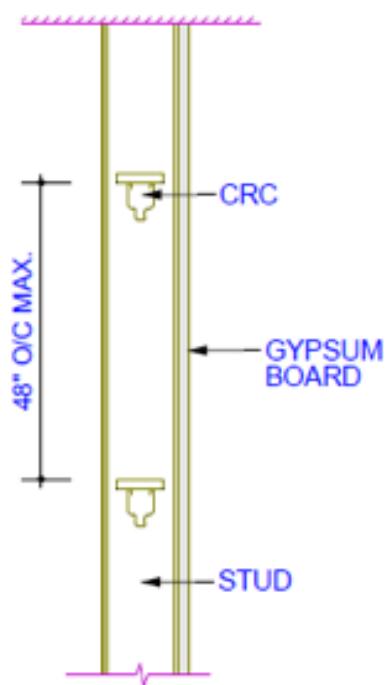
Non-Composite assemblies are very common wall framing applications. In these assemblies, stud goes up-to full height of wall and gypsum board is stopped e.g. at the ceiling level. For these cases, use Non-Composite Limiting Wall Heights Tables.



Non-composite Fully braced



Non-composite braced at 48"



SECTION PROPERTIES

PHANTOM® STUD 13MIL																						
Member	Design Thickness (in)	Fy (ksi)	GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES									
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	M _{ad} (in-k)	V _{ag} (lb)	V _{anet} (lb)	J _{x1000} (in ⁴)	C _w (in ⁶)	X _o (in)	m (in)	R _o (in)	β	L _u (in)
162S125-13	0.0135	33	0.076	0.260	0.034	0.038	0.668	0.015	0.439	0.034	0.032	0.704	0.611	173	104	0.004	0.006	-1.073	0.629	1.384	0.398	28.55
162S125-13	0.0135	50	0.076	0.260	0.034	0.038	0.668	0.015	0.439	0.034	0.029	0.968	0.743	173	104	0.004	0.006	-1.073	0.629	1.384	0.398	27.75
162S125-13	0.0135	70	0.076	0.260	0.034	0.038	0.668	0.015	0.439	0.034	0.026	1.198	0.8745	174	103	0.003	0.006	-1.073	0.628	1.384	0.398	26.95
250S125-13	0.0135	33	0.088	0.300	0.092	0.070	1.020	0.017	0.438	0.092	0.057	1.254	1.232	124	124	0.005	0.016	-0.944	0.574	1.489	0.598	28.85
250S125-13	0.0135	50	0.088	0.300	0.092	0.070	1.020	0.017	0.438	0.092	0.052	1.727	1.254	124	124	0.005	0.016	-0.944	0.574	1.489	0.598	27.45
250S125-13	0.0135	70	0.088	0.300	0.092	0.070	1.020	0.017	0.438	0.092	0.047	2.167	1.276	122	124	0.004	0.016	-0.944	0.573	1.489	0.598	27.45
362S125-13	0.0135	33	0.103	0.350	0.216	0.115	1.446	0.019	0.429	0.215	0.090	1.639	2.002	88	88	0.006	0.038	-0.822	0.516	1.727	0.773	28.35
362S125-13	0.0135	50	0.103	0.350	0.216	0.115	1.446	0.019	0.429	0.214	0.081	2.244	1.936	88	88	0.006	0.038	-0.822	0.516	1.727	0.773	27.20
362S125-13	0.0135	70	0.103	0.350	0.216	0.115	1.446	0.019	0.429	0.213	0.072	3.319	2.0405	88	88	0.005	0.038	-0.822	0.515	1.727	0.773	27.35
400S125-13	0.0135	33	0.108	0.370	0.271	0.132	1.583	0.019	0.425	0.270	0.093	1.837	1.832	81	81	0.006	0.047	-0.788	0.499	1.814	0.811	28.55
400S125-13	0.0135	50	0.108	0.370	0.271	0.132	1.583	0.019	0.425	0.268	0.092	2.519	2.156	81	81	0.006	0.047	-0.788	0.499	1.814	0.811	27.10
400S125-13	0.0135	70	0.108	0.370	0.271	0.131	1.583	0.019	0.425	0.264	0.085	3.919	2.310	81	81	0.005	0.047	-0.788	0.498	1.814	0.811	27.35
600S125-13	0.0135	33	0.135	0.460	0.704	0.231	2.281	0.022	0.402	0.677	0.163	2.959	2.849	55	55	0.008	0.120	-0.651	0.428	2.359	0.923	27.95
600S125-13	0.0135	50	0.135	0.460	0.704	0.231	2.281	0.022	0.402	0.671	0.147	4.059	3.300	55	55	0.008	0.120	-0.651	0.428	2.359	0.923	26.45
600S125-13	0.0135	70	0.135	0.460	0.704	0.230	2.281	0.022	0.402	0.654	0.131	6.040	3.751	55	55	0.007	0.120	-0.651	0.427	2.359	0.923	27.35

PHANTOM® TRACK 13MIL																		
Member	Design Thickness (in)	Fy (ksi)	GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES					
			Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	J _{x1000} (in ⁴)	C _w (in ⁶)	X _o (in)	m (in)	R _o (in)	β
162T125-13	0.0135	33	0.057	0.193	0.031	0.035	0.733	0.010	0.413	0.028	0.026	0.514	0.003	0.005	-0.897	0.547	1.230	0.468
162T125-13	0.0135	50	0.057	0.193	0.031	0.035	0.733	0.010	0.413	0.027	0.023	0.681	0.003	0.005	-0.897	0.547	1.230	0.468
162T125-13	0.0135	70	0.057	0.193	0.031	0.035	0.733	0.010	0.413	0.026	0.020	0.838	0.003	0.005	-0.897	0.547	1.230	0.468
250T125-13	0.0135	33	0.069	0.234	0.076	0.058	1.053	0.011	0.402	0.064	0.040	0.798	0.004	0.013	-0.787	0.501	1.375	0.672
250T125-13	0.0135	50	0.069	0.234	0.076	0.058	1.053	0.011	0.402	0.061	0.034	1.024	0.004	0.013	-0.787	0.501	1.375	0.672
250T125-13	0.0135	70	0.069	0.234	0.076	0.058	1.053	0.011	0.402	0.058	0.028	1.174	0.004	0.013	-0.787	0.501	1.375	0.672
362T125-13	0.0135	33	0.084	0.285	0.174	0.093	1.441	0.012	0.384	0.143	0.057	0.946	0.005	0.030	-0.683	0.451	1.640	0.827
362T125-13	0.0135	50	0.084	0.285	0.174	0.093	1.441	0.012	0.384	0.137	0.049	1.224	0.005	0.030	-0.683	0.451	1.640	0.827
362T125-13	0.0135	70	0.084	0.285	0.174	0.093	1.441	0.012	0.384	0.131	0.041	1.719	0.005	0.030	-0.683	0.451	1.640	0.827
400T125-13	0.0135	33	0.089	0.303	0.218	0.106	1.566	0.013	0.377	0.176	0.064	1.040	0.005	0.038	-0.654	0.435	1.739	0.859
400T125-13	0.0135	50	0.089	0.303	0.218	0.106	1.566	0.013	0.377	0.170	0.054	1.347	0.005	0.038	-0.654	0.435	1.739	0.859
400T125-13	0.0135	70	0.089	0.303	0.218	0.106	1.566	0.013	0.377	0.164	0.044	1.844	0.005	0.038	-0.654	0.435	1.739	0.859
600T125-13	0.0135	33	0.116	0.394	0.567	0.186	2.212	0.014	0.346	0.445	0.093	1.526	0.007	0.096	-0.537	0.371	2.302	0.946
600T125-13	0.0135	50	0.116	0.394	0.567	0.186	2.212	0.014	0.346	0.431	0.080	1.993	0.007	0.096	-0.537	0.371	2.302	0.946
600T125-13	0.0135	70	0.116	0.394	0.567	0.186	2.212	0.014	0.346	0.417	0.067	2.808	0.007	0.096	-0.537	0.371	2.302	0.946

Table Notes:

- Complies with the 2015 International Building Code and AISI S100-12,
- Calculated properties are based on AISI S100-12, North American Specification for the Design of Cold-Formed Steel Structural Members,
- Effective properties incorporate the strength increase from the cold work of forming. (Section A7.2 of AISI S100-12),
- Gross properties including torsional properties, are based upon full-unreduced cross section of the studs, away from punch-out,
- Drywall framing material meet or exceed ASTM C644 Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 and ASTM A1003

PHANTOM® STUD 15MIL																						
Member					GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES					β		
	Design Thickness (in)	Fy (ksi)	Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ix (in⁴)	Sx (in³)	M _a (in-k)	M _{ad} (in-k)	V _{ag} (lb)	V _{anet} (lb)	Jx1000 (in⁴)	C _w (in⁴)	X _o (in)	m (in)	R _o (in)		
162S125-15	0.0150	33	0.084	0.084	0.037	0.043	0.668	0.016	0.437	0.037	0.036	0.781	0.611	238	129	0.005	0.008	-1.081	0.638	1.391	0.365	25.75
162S125-15	0.0150	50	0.084	0.084	0.037	0.043	0.668	0.016	0.437	0.034	0.033	1.089	1.067	238	129	0.005	0.008	-1.081	0.638	1.391	0.365	24.95
162S125-15	0.015	70	0.084	0.084	0.037	0.043	0.668	0.016	0.437	0.034	0.033	1.089	1.067	238	128	0.005	0.008	-1.081	0.637	1.391	0.365	24.95
250S125-15	0.0150	33	0.097	0.097	0.101	0.077	1.019	0.019	0.436	0.101	0.064	1.397	1.232	168	168	0.006	0.022	-0.952	0.582	1.495	0.573	26.05
250S125-15	0.0150	50	0.097	0.097	0.101	0.077	1.019	0.019	0.436	0.094	0.059	1.958	1.865	168	168	0.006	0.022	-0.952	0.582	1.495	0.573	24.65
250S125-15	0.0150	70	0.097	0.097	0.101	0.077	1.019	0.019	0.436	0.094	0.059	1.958	1.8645	168	168	0.006	0.022	-0.952	0.581	1.495	0.573	24.65
362S125-15	0.0150	33	0.114	0.114	0.238	0.127	1.444	0.021	0.427	0.237	0.101	2.200	1.573	121	121	0.008	0.050	-0.830	0.524	1.728	0.757	25.55
362S125-15	0.0150	50	0.114	0.114	0.238	0.127	1.444	0.021	0.427	0.221	0.094	2.827	2.439	121	121	0.008	0.050	-0.830	0.524	1.728	0.757	24.40
362S125-15	0.0150	70	0.114	0.114	0.238	0.127	1.444	0.021	0.427	0.221	0.094	2.827	2.439	121	121	0.007	0.050	-0.830	0.523	1.728	0.757	24.4
400S125-15	0.0150	33	0.120	0.120	0.300	0.146	1.582	0.021	0.423	0.298	0.113	2.061	1.832	111	111	0.008	0.063	-0.796	0.507	1.820	0.797	25.75
400S125-15	0.0150	50	0.120	0.120	0.300	0.146	1.582	0.021	0.423	0.297	0.103	3.091	2.646	111	111	0.008	0.063	-0.796	0.507	1.820	0.797	24.30
400S125-15	0.0150	70	0.120	0.120	0.300	0.146	1.582	0.021	0.423	0.297	0.103	3.091	2.646	111	111	0.007	0.063	-0.796	0.506	1.820	0.797	24.3
600S125-15	0.0150	33	0.150	0.150	0.779	0.254	2.280	0.024	0.400	0.746	0.166	4.576	3.449	76	76	0.010	0.160	-0.659	0.436	2.365	0.916	23.65
600S125-15	0.0150	50	0.150	0.150	0.779	0.254	2.280	0.024	0.400	0.746	0.166	4.576	3.4485	76	76	0.010	0.160	-0.659	0.435	2.365	0.916	23.65

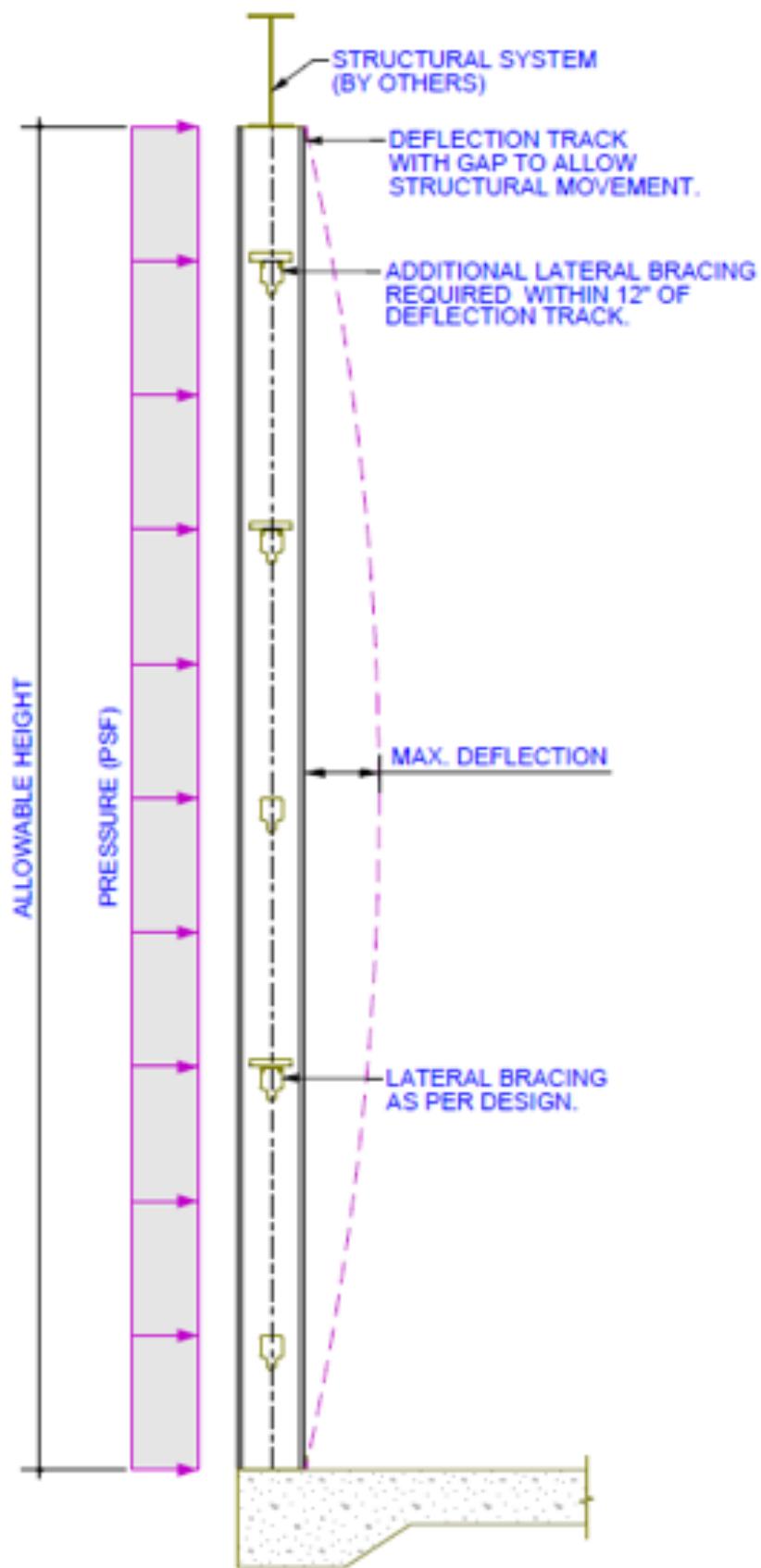
PHANTOM® TRACK 15MIL																				
Member					GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES					β
	Design Thickness (in)	Fy (ksi)	Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ix (in⁴)	Sx (in³)	M _a (in-k)	Jx1000 (in⁴)	C _w (in⁴)	X _o (in)	m (in)	R _o (in)			
162T125-15	0.0150	33	0.065	0.221	0.035	0.041	0.736	0.011	0.421	0.033	0.032	0.624	0.005	0.006	-0.934	0.585	1.261	0.451		
162T125-15	0.0150	50	0.065	0.221	0.035	0.041	0.736	0.011	0.421	0.032	0.029	0.870	0.005	0.006	-0.934	0.585	1.261	0.451		
162T125-15	0.0150	70	0.065	0.221	0.035	0.041	0.736	0.011	0.421	0.031	0.026	1090	0.005	0.006	-0.934	0.585	1.261	0.451		
250T125-15	0.0150	33	0.078	0.265	0.088	0.067	1.059	0.013	0.412	0.076	0.051	1.013	0.006	0.015	-0.821	0.535	1.402	0.657		
250T125-15	0.0150	50	0.078	0.265	0.088	0.067	1.059	0.013	0.412	0.073	0.044	1.303	0.006	0.015	-0.821	0.535	1.402	0.657		
250T125-15	0.0150	70	0.078	0.265	0.088	0.067	1.059	0.013	0.412	0.070	0.037	1551	0.006	0.015	-0.821	0.535	1.402	0.657		
362T125-15	0.0150	33	0.095	0.322	0.199	0.106	1.450	0.015	0.394	0.169	0.072	1.194	0.007	0.036	-0.715	0.483	1.663	0.815		
362T125-15	0.0150	50	0.095	0.322	0.199	0.106	1.450	0.015	0.394	0.162	0.062	1.551	0.007	0.036	-0.715	0.483	1.663	0.815		
362T125-15	0.0150	70	0.095	0.322	0.199	0.106	1.450	0.015	0.394	0.155	0.052	2180	0.007	0.036	-0.715	0.483	1.663	0.815		
400T125-15	0.0150	33	0.101	0.342	0.249	0.121	1.575	0.015	0.388	0.209	0.079	1.310	0.008	0.045	-0.686	0.468	1.761	0.848		
400T125-15	0.0150	50	0.101	0.342	0.249	0.121	1.575	0.015	0.388	0.200	0.068	1.706	0.008	0.045	-0.686	0.468	1.761	0.848		
400T125-15	0.0150	70	0.101	0.342	0.249	0.121	1.575	0.015	0.388	0.191	0.057	2389	0.008	0.045	-0.686	0.468	1.761	0.848		
600T125-15	0.0150	33	0.131	0.444	0.646	0.211	2.224	0.017	0.357	0.519	0.116	1.911	0.010	0.114	-0.565	0.399	2.211	0.935		
600T125-15	0.0150	50	0.131	0.444	0.646	0.211	2.224	0.017	0.357	0.500	0.101	2.515	0.010	0.114	-0.565	0.399	2.211	0.935		
600T125-15	0.0150	70	0.131	0.444	0.646	0.211	2.224	0.017	0.357	0.481	0.086	3605	0.010	0.114	-0.565	0.399	2.211	0.935		

PHANTOM® STUD 19MIL																						
Member	Design Thickness (in)	Fy (ksi)	GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES						β	Lu (in)		
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ix (in⁴)	Sx (in³)	Ma (in-k)	Mad (in-k)	Vag (lb)	Vanet (lb)	Jx1000 (in⁶)	Cw (in⁴)	Xo (in)	m (in)	Ro (in)		
162S125-19	0.0190	33	0.106	0.360	0.047	0.053	0.667	0.020	0.438	0.046	0.047	1.012	0.792	398	170	0.010	0.010	-1.089	0.648	1.376	0.361	22.95
162S125-19	0.0190	50	0.106	0.360	0.047	0.053	0.667	0.020	0.438	0.044	0.043	1.408	1.102	485	207	0.010	0.010	-1.089	0.648	1.376	0.361	22.15
162S125-19	0.0190	70	0.106	0.360	0.047	0.053	0.667	0.020	0.438	0.042	0.039	1.798	1.380	485	206	0.010	0.010	-1.089	0.647	1.376	0.361	21.35
250S125-19	0.0190	33	0.122	0.420	0.127	0.097	1.019	0.023	0.437	0.123	0.083	1.804	1.591	341	291	0.012	0.030	-0.985	0.617	1.517	0.557	23.25
250S125-19	0.0190	50	0.122	0.420	0.127	0.097	1.019	0.023	0.437	0.119	0.076	2.519	2.221	342	291	0.012	0.030	-0.985	0.617	1.517	0.557	22.35
250S125-19	0.0190	70	0.122	0.420	0.127	0.097	1.019	0.023	0.437	0.115	0.069	3.181	2.309	342	290	0.012	0.03	-0.985	0.610	1.517	0.557	22.15
362S125-19	0.0190	33	0.144	0.490	0.300	0.161	1.443	0.027	0.427	0.290	0.136	2.970	2.124	246	246	0.015	0.070	-0.869	0.565	1.751	0.740	22.75
362S125-19	0.0190	50	0.144	0.490	0.300	0.161	1.443	0.027	0.427	0.281	0.125	4.103	2.934	246	246	0.015	0.070	-0.869	0.565	1.751	0.740	22.25
362S125-19	0.0190	70	0.144	0.490	0.300	0.161	1.443	0.027	0.427	0.272	0.114	5.256	4.534	246	246	0.014	0.070	-0.869	0.564	1.751	0.740	21.75
400S125-19	0.0190	33	0.151	0.510	0.377	0.183	1.580	0.027	0.423	0.367	0.148	3.201	2.845	225	225	0.016	0.090	-0.844	0.557	1.847	0.780	22.95
400S125-19	0.0190	50	0.151	0.510	0.377	0.183	1.580	0.027	0.423	0.354	0.000	4.444	3.950	225	225	0.016	0.090	-0.844	0.557	1.847	0.780	22.35
400S125-19	0.0190	70	0.151	0.510	0.377	0.183	1.58	0.027	0.423	0.341	0.122	5.625	4.814	225	225	0.015	0.09	-0.844	0.556	1.847	0.780	21.75
600S125-19	0.0190	33	0.189	0.640	0.979	0.320	2.276	0.030	0.400	0.954	0.241	4.378	3.730	154	154	0.020	0.234	-0.716	0.494	2.395	0.904	22.35
600S125-19	0.0190	50	0.189	0.640	0.979	0.320	2.276	0.030	0.400	0.917	0.220	6.039	5.266	154	154	0.020	0.234	-0.716	0.494	2.395	0.904	22.05
600S125-19	0.0190	70	0.189	0.640	0.979	0.32	2.276	0.030	0.400	0.880	0.199	9.175	7.459	154	154	0.020	0.234	-0.716	0.493	2.395	0.904	21.75

PHANTOM® TRACK 19MIL																			
Member	Design Thickness (in)	Fy (ksi)	GROSS PROPERTIES				EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES						β
			Area (in²)	Weight (lb/ft)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Ry (in)	Ix (in⁴)	Sx (in³)	Ma (in-k)	Jx1000 (in⁶)	Cw (in⁴)	Xo (in)	m (in)	Ro (in)		
162T125-19	0.0190	33	0.082	0.279	0.045	0.051	0.737	0.015	0.421	0.045	0.044	0.869	0.010	0.008	-0.931	0.582	1.259	0.453	
162T125-19	0.0190	50	0.082	0.279	0.045	0.051	0.737	0.015	0.421	0.043	0.041	1.213	0.010	0.008	-0.931	0.582	1.259	0.453	
162T125-19	0.0190	70	0.082	0.279	0.045	0.051	0.737	0.015	0.421	0.041	0.038	1593	0.01	0.008	-0.931	0.582	1.259	0.453	
250T125-19	0.0190	33	0.099	0.336	0.111	0.085	1.060	0.017	0.411	0.102	0.074	1.465	0.012	0.020	-0.817	0.532	1.400	0.659	
250T125-19	0.0190	50	0.099	0.336	0.111	0.085	1.060	0.017	0.411	0.097	0.067	2.000	0.012	0.020	-0.817	0.532	1.400	0.659	
250T125-19	0.0190	70	0.099	0.336	0.111	0.085	1.060	0.017	0.411	0.092	0.06	2515	0.012	0.020	-0.817	0.532	1.400	0.659	
362T125-19	0.0190	33	0.120	0.408	0.252	0.135	1.450	0.019	0.393	0.218	0.111	2.190	0.015	0.045	-0.712	0.481	1.662	0.816	
362T125-19	0.0190	50	0.120	0.408	0.252	0.135	1.450	0.019	0.393	0.210	0.094	2.813	0.015	0.045	-0.712	0.481	1.662	0.816	
362T125-19	0.0190	70	0.120	0.408	0.252	0.135	1.450	0.019	0.393	0.202	0.077	3277	0.015	0.045	-0.712	0.481	1.662	0.816	
400T125-19	0.0190	33	0.127	0.433	0.316	0.153	1.576	0.019	0.387	0.277	0.121	2.000	0.015	0.057	-0.683	0.465	1.760	0.849	
400T125-19	0.0190	50	0.127	0.433	0.316	0.153	1.576	0.019	0.387	0.267	0.103	2.577	0.015	0.057	-0.683	0.465	1.760	0.849	
400T125-19	0.0190	70	0.127	0.433	0.316	0.153	1.576	0.019	0.387	0.257	0.085	3563	0.015	0.057	-0.683	0.465	1.760	0.849	
600T125-19	0.0190	33	0.165	0.562	0.817	0.267	2.224	0.021	0.356	0.689	0.172	2.840	0.020	0.144	-0.563	0.398	2.322	0.941	
600T125-19	0.0190	50	0.165	0.562	0.817	0.267	2.224	0.021	0.356	0.662	0.150	3.750	0.020	0.144	-0.563	0.398	2.322	0.941	
600T125-19	0.0190	70	0.165	0.562	0.817	0.267	2.224	0.021	0.356	0.635	0.128	5365	0.020	0.144	-0.563	0.398	2.322	0.941	

Table Notes:

- Complies with the 2015 International Building Code and AISI S100-12,
- Calculated properties are based on AISI S100-12, North American Specification for the Design of Cold-Formed Steel Structural Members,
- Effective properties incorporate the strength increase from the cold work of forming. (Section A7.2 of AISI S100-12),
- Gross properties including torsional properties, are based upon full-unreduced cross section of the studs, away from punch-out,
- Drywall framing material meet or exceed ASTM C644 Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 and ASTM A1003



COMPOSITE LIMITING WALL HEIGHTS

Profile	Fy (ksi)	Spacing	COMPOSITE LIMITING WALL HEIGHTS									
			O.C (in)	Span Length (ft)			5 PSF			7.5 PSF		
				L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
16S125-13	33	12	11' 7"	9' 4"	8' 3"	10' 0" f	8' 2"	-	-	-	-	-
		16	10' 7"	8' 6"	7' 3"	8' 8" f	7' 3"	-	-	-	-	-
		24	8' 8" f	7' 3"	-	7' 1" f	-	-	-	-	-	-
	50	12	12' 9"	10' 4"	9' 1"	11' 0" f	9' 0"	-	-	-	-	-
		16	11' 7"	9' 4"	8' 0"	9' 6" f	7' 11"	-	-	-	-	-
		24	9' 6" f	7' 11"	-	7' 9" f	-	-	-	-	-	-
16S125-13	70	12	13' 8"	11' 3"	9' 11"	11' 12" f	9' 10"	-	-	-	-	-
		16	12' 8"	10' 2"	8' 9"	10' 5" f	8' 8"	-	-	-	-	-
		24	10' 5"	8' 8"	-	8' 6" f	-	-	-	-	-	-
	33	12	13' 10" f	13' 7"	12' 2"	11' 3" f	10' 7"	9' 9" f	9' 9" f	9' 7"	-	-
		16	11' 11" f	11' 11" f	11' 0"	9' 9" f	9' 7"	8' 5" f	8' 5" f	8' 5"	-	-
		24	9' 9" f	9' 9" f	9' 7"	8' 0" f	8' 0" f	-	-	-	-	-
25S125-13	50	12	15' 3" f	14' 11" f	13' 5"	12' 5" f	12' 5" f	11' 8"	10' 9" f	10' 9" f	10' 6"	-
		16	13' 1" f	13' 1" f	12' 1"	10' 9" f	10' 9" f	10' 6"	9' 3" f	9' 3" f	9' 3"	-
		24	10' 9" f	10' 9" f	10' 6"	8' 10" f	8' 10" f	8' 10" f	-	-	-	-
	70	12	16' 7" f	15' 4" f	14' 1"	13' 6" f	13' 6" f	11' 9"	11' 9" f	11' 9" f	11' 3"	-
		16	14' 3" f	14' 3" f	13	11' 9" f	11' 9" f	11' 6"	9' 10" f	9' 10" f	9' 6"	-
		24	11' 9" f	11' 9" f	11' 6"	9' 7" f	9' 7" f	-	-	-	-	-
36S125-13	33	12	17' 4" f	14' 11"	13' 0"	13' 8" f	13' 0"	11' 4"	11' 10" f	11' 10" f	10' 4"	-
		16	14' 5" f	13' 7"	11' 10"	11' 10" f	11' 10" f	10' 4"	10' 2" f	10' 2" f	9' 3"	-
		24	11' 10" f	11' 10" f	10' 4"	9' 7" f	9' 7" f	8' 11"	8' 4" f	8' 4" f	7' 11"	-
	50	12	19' 1" f	16' 5"	14' 4"	15 0" f	14' 4"	12' 6"	13' 0" f	13' 0" f	11' 5"	-
		16	15' 10" f	14' 11"	13' 0"	13' 0" f	13' 0" f	11' 5"	11' 3" f	11' 3" f	10' 2"	-
		24	13' 0" f	13' 0" f	11' 5"	10' 7" f	10' 7" f	9' 9"	9' 2" f	9' 2" f	8' 9"	-
36S125-13	70	12	20' 8" f	17' 4" f	15' 4"	16' 3" f	15' 8"	13' 8"	13' 10" f	14' 0" f	12' 5"	-
		16	17' 1" f	16' 0" f	14	14' 0" f	14' 2" f	12' 5"	12' 3" f	12' 3" f	11' 1"	-
		24	14' 0" f	13' 2" f	12' 5"	11' 6" f	11' 6" f	10' 8"	9' 12" f	9' 12" f	9' 6"	-
	33	12	18' 4" f	16' 6"	14' 7"	15' 3" f	14' 5"	13' 11"	12' 7" f	12' 1"	11' 0"	-
		16	15' 7" f	15' 0"	13' 3"	11' 11" f	13' 1"	12' 9"	11' 2" f	11' 4"	9' 11"	-
		24	12' 10" f	13' 1"	11' 7"	10' 6" f	10' 10"	10' 9"	8' 10"	9' 5"	8' 1"	-
40S125-13	33	12	20' 2" f	18' 2"	16' 0"	16' 9" f	15' 10"	15' 3"	13' 10" f	13' 3"	12' 1"	-
		16	17' 2" f	16' 6"	14' 7"	13' 2" f	14' 5"	14' 0"	12' 4" f	12' 5"	10' 11"	-
		24	14' 1" f	14' 5"	12' 9"	11' 6" f	12' 0"	11' 10"	9' 9"	10' 4"	8' 11"	-
	50	12	21' 4" f	19' 3"	17' 1"	17' 10" f	17' 3"	16' 8"	15' 0" f	14' 4"	13' 2"	-
		16	18' 1" f	17' 8"	15' 10"	14' 4" f	15' 9"	15' 3"	13' 5" f	13' 5" f	11' 11"	-
		24	15' 3" f	15' 6"	13' 10"	12' 6" f	13' 1"	12' 11"	10' 7" f	10' 7" f	9' 9"	-
60S125-13	33	12	20' 5" f	20' 5" f	19' 7"	16' 8" f	16' 8" f	16' 8" f	14' 6" f	14' 6" f	14' 6" f	-
		16	17' 9" f	17' 9" f	17' 9" f	14' 6" f	14' 6" f	14' 6" f	12' 6" f	12' 6" f	12' 6" f	-
		24	14' 6" f	14' 6" f	14' 6" f	11' 10" f	11' 10" f	11' 10" f	-	-	-	-
	50	12	22' 6" f	22' 6" f	21' 6"	18' 4" f	18' 4" f	18' 4" f	15' 11" f	15' 11" f	15' 11" f	-
		16	19' 6" f	19' 6" f	19' 6" f	15' 11" f	15' 11" f	15' 11" f	13' 9" f	13' 9" f	13' 9" f	-
		24	15' 11" f	15' 11" f	15' 11" f	13' 0" f	13' 0" f	13' 0" f	-	-	-	-
60S125-13	70	12	23' 4" f	23' 0" f	22' 3"	19' 1" f	19' 1" f	19' 1" f	17' 0" f	17' 0" f	17' 0" f	-
		16	21' 0" f	20' 3" f	20' 3" f	16' 10" f	16' 10" f	16' 10" f	14' 8" f	14' 9" f	14' 9" f	-
		24	17' 0" f	16' 6" f	16' 6" f	14' 0" f	14' 0" f	14' 0" f	-	-	-	-
	33	12	12' 10"	10' 7"	9' 2"	11' 2"	9' 2"	7' 9"	10' 2"	8' 3"	-	-
		16	11' 7"	9' 7"	8' 2"	10' 2"	8' 3"	-	9' 3"	7' 4"	-	-
		24	10' 2"	8' 3"	-	8' 10"	-	-	7' 8"	-	-	-
16S125-15	50	12	14' 0"	11' 6"	10' 0"	12' 2"	10' 1"	8' 6"	11' 1"	9' 0"	-	-
		16	12' 8"	10' 6"	8' 11"	11' 1"	9' 0"	-	10' 1"	8' 0"	-	-
		24	11' 1"	9' 0"	-	9' 8"	-	-	8' 4"	-	-	-
	70	12	15' 2"	12' 6"	10' 10"	13' 3"	10' 11"	9' 2"	12' 0"	9' 9"	-	-
		16	13' 9"	11' 4"	9' 8"	12' 0"	9' 9"	-	10' 11"	8' 9"	-	-
		24	12' 0"	9' 9"	-	10' 5"	-	-	9' 0"	-	-	-
25S125-15	33	12	15' 6"	13' 1"	11' 7"	13' 6"	11' 5"	10' 1"	12' 2" f	10' 5"	9' 2"	-
		16	14' 1"	11' 11"	10' 6"	12' 1" f	10' 5"	9' 2"	10' 8" f	9' 5"	8' 0"	-
		24	11' 7" f	10' 5"	9' 2"	10' 0" f	9' 1"	7' 6"	8' 8" f	7' 11"	-	-
	50	12	17' 3"	14' 7"	12' 11"	15' 1"	12' 9"	11' 3"	13' 6" f	11' 8"	10' 3"	-
		16	15' 8"	13' 3"	11' 9"	13' 6" f	11' 8"	10' 3"	11' 11" f	10' 7"	9' 0"	-
		24	13' 6" f	11' 8"	10' 3"	11' 3" f	10' 2"	8' 4"	10' 0" f	8' 10"	-	-
25S125-15	70	12	18' 1"	15' 2"	13' 3"	16' 8"	13' 10"	12' 5"	14' 11" f	12' 10"	11' 4"	-
		16	16' 4"	14' 8"	12' 12"	14' 11"	12' 10"	11' 4"	13' 2" f	11' 8"	9' 11"	-
		24	14' 5" f	12' 10"	11' 4"	12' 5"	11' 2"	9' 3"	11' 1" f	9' 9"	-	-
	33	12	17' 8"	15' 10"	13' 10"	15' 1" f	13' 10"	12' 1"	13' 1" f	12' 4"	10' 9"	-
		16	15' 5" f	14' 5"	12' 7"	13' 1" f	12' 7"	11' 0"	11' 4" f	11' 2"	9' 8"	-
		24	12' 9" f	12' 7"	11' 0"	10' 8" f	11' 0"	9' 6"	9' 3" f	9' 8"	8' 4"	-
36S125-15	50	12	21' 3"	17' 3"	15' 1"	18' 4" f	15' 1"	13' 2" f	15' 10" f	13' 9"	12' 0"	-
		16	19' 3" f	15' 8"	13' 9"	15' 11" f	13' 9"	12' 0" f	13' 0" f	12' 6"	10' 10"	-
		24	15' 9" f	13' 9"	12' 0"	13' 0" f	12' 0" f	10' 4"	11' 3" f	10' 10"	9' 4"	-
	70	12	22' 11" f	18' 9"	16' 5"	19' 7" f	16' 4"	14' 4"	17' 7" f	15' 0"	13' 3"	-
		16	20' 2" f	16' 0"	14' 11"	17' 9" f	14' 10"	13	15' 2" f	13' 9"	11' 11"	-
		24	16' 9" f	14' 11"	12' 9"	14' 4" f	13' 0" f	11' 3" f	12' 2" f	11' 11"	10' 3"	-
40S125-15	33	12	20' 2" f	18' 2"	16' 0"	16' 9" f	15' 10"	15' 3"	13' 10" f	13' 1"	11' 7"	-
		16	17' 1" f	16' 6"	14' 6"	13' 1" f	14' 4" f	14' 4" f	11' 4" f	11' 4" f	10' 6"	-
		24	14' 1" f	13' 8"	12' 9"	11' 6" f	11' 11"	11' 10" f	9' 9" f	10' 4"	8' 11"	-

COMPOSITE LIMITING WALL HEIGHTS CONTINUED

Profile	Fy (ksi)	Spacing	COMPOSITE LIMITING WALL HEIGHTS								
			O.C (in)	Span Length (ft)							
				5 PSF	7.5 PSF	10 PSF	L/120	L/240	L/360	L/120	L/240
400S125-15	50	12	22' 6" f	18' 3"	16' 1"	19' 3" f	15' 11"	14' 0"	16' 8" f	14' 6"	12' 9"
400S125-15		16	20' 3" f	16' 6"	14' 7"	16' 8" f	14' 6"	12' 9"	14' 5" f	13' 2"	11' 7"
400S125-15		24	16' 8" f	14' 6"	12' 9"	14' 3" f	12' 8"	11' 0"	11' 11" f	11' 5"	9' 10"
400S125-15	70	12	23' 10" f	18' 9"	16' 6"	20' 9" f	16' 3"	15	17' 6" F	15' 1"	13' 6"
400S125-15		16	21' 4" f	16' 9"	14' 11"	17' 2" f	15' 2"	13' 6"	15' 1" F	14' 0"	12' 0"
400S125-15		24	17' 3" f	15' 3"	13	15' 11" f	13' 4"	12' 1"	13' 4" F	12' 3"	10' 9"
600S125-15	33	12	21' 10" f	19' 11"	17' 8"	18' 9" f	17' 5"	15' 5"	16' 6" f	15' 10"	14' 1"
600S125-15		16	19' 10" f	18' 1"	16' 1"	16' 6"	15' 10"	14' 1"	14' 4"	14' 3"	12' 9"
600S125-15		24	16' 6"	15' 10"	14' 1"	13' 6"	13' 6" f	12' 3"	11' 8"	11' 8"	11' 0"
600S125-15	50	12	26' 5" f	23' 7"	21' 4"	22' 7" f	21' 0"	18' 8"	19' 11" f	19' 1"	16' 11"
600S125-15		16	23' 7" f	21' 10"	19' 5"	19' 11"	19' 1"	17' 0"	17' 4"	17' 3" f	15' 5"
600S125-15		24	19' 11"	19' 1"	17' 0"	16' 4"	16' 4" f	14' 9"	14' 0"	14' 1" f	13' 3"
600S125-15	70	12	27' 6" f	24' 3"	22' 0"	23' 3" f	22' 7"	19' 8"	20' 10" F	20' 0"	17' 11"
600S125-15		16	24' 5" f	22' 7"	21' 1"	21' 4"	20' 4"	18' 0"	18' 2" F	18' 2" F	17' 1"
600S125-15		24	21' 1" f	20	17' 10"	17' 1"	17' 2" f	15' 6"	15' 3" F	15' 3" F	14' 4"
162S125-19	33	12	13' 11"	11' 3"	9' 11"	12' 0" f	9' 10"	8' 4"	10' 5" f	8' 8"	-
162S125-19		16	12' 8"	10' 2"	8' 9"	10' 5" f	8' 8"	9' 0" f	7' 9"	-	-
162S125-19		24	10' 5" f	8' 8"	-	8' 6" f	-	-	-	-	-
162S125-19	50	12	14' 5"	12' 0"	10' 5"	12' 7"	10' 6"	9' 2"	11' 5"	9' 7"	-
162S125-19		16	13' 1"	10' 11"	9' 6"	11' 5"	9' 7"	8' 4"	10' 5"	8' 7"	-
162S125-19		24	11' 5"	9' 7"	8' 9"	9' 12"	8' 9"	-	9' 0"	-	-
162S125-19	70	12	14' 11"	12' 9"	10' 11"	13' 1"	11' 1"	9' 11"	12' 5"	10' 5"	-
162S125-19		16	13' 6"	11' 7"	10' 2"	12' 5"	10' 5"	9' 1"	11' 8"	9' 5"	-
162S125-19		24	12' 5"	10' 5"	9' 4"	11' 5"	9' 4"	-	9' 9"	-	-
250S125-19	33	12	16' 7" f	14' 4"	12' 10"	13' 7" f	12' 7"	11' 3"	11' 9" f	11' 5"	10' 2"
250S125-19		16	14' 5" f	13' 1"	11' 8"	11' 9" f	11' 5"	10' 2"	10' 2" f	10' 2" f	9' 1"
250S125-19		24	11' 9" f	11' 5"	10' 2"	9' 7" f	9' 7" f	8' 8"	8' 4" f	8' 4" f	-
250S125-19	50	12	18' 3"	15' 2"	13' 4"	15' 10"	13' 3"	11' 8"	14' 5"	12' 0"	10' 6"
250S125-19		16	16' 6"	13' 9"	12' 1"	14' 5"	12' 0"	10' 6"	13' 1"	10' 9"	9' 6"
250S125-19		24	14' 5"	11' 12"	10' 6"	17' 8" f	10' 5"	9' 1"	11' 6"	9' 5"	8' 7"
250S125-19	70	12	18' 10"	15' 12"	13' 11"	17' 1"	13' 11"	12' 1"	15' 2"	12' 7"	10' 10"
250S125-19		16	17' 8"	14' 6"	12' 6"	15' 2"	12' 7"	10' 10"	14' 1"	11' 3"	9' 11"
250S125-19		24	15' 2"	12' 6"	10' 10"	14' 8" f	11' 3"	9' 6"	12' 8"	10' 6"	9' 0"
362S125-19	33	12	19' 0" f	17' 1"	14' 11"	15' 7" f	14' 11"	13' 0"	13' 6" f	13' 6" f	11' 10"
362S125-19		16	16' 6" f	15' 6"	13' 6"	13' 6" f	13' 6" f	11' 10"	11' 8" f	11' 8" f	10' 7"
362S125-19		24	13' 6" f	13' 6" f	11' 10"	11' 0" f	11' 0" f	10' 2"	9' 6" f	9' 6" f	9' 1"
362S125-19	50	12	22' 8"	18' 4"	16' 0"	19' 10"	16' 0"	14' 0"	18' 0"	14' 6"	12' 9"
362S125-19		16	20' 7"	16' 7"	14' 7"	18' 0"	14' 6"	12' 9"	16' 3" f	13' 3"	11' 6"
362S125-19		24	18' 0"	14' 6"	12' 9"	15' 6" f	12' 9"	11' 11"	13' 9" f	11' 6"	9' 11"
362S125-19	70	12	23' 5"	19' 6"	17' 2"	21' 0"	17' 1"	15' 1"	19' 6"	15' 7"	13' 8"
362S125-19		16	21' 8"	17' 9"	15' 9"	19' 6"	15' 7"	13' 9"	17' 3" F	14' 6"	12' 6"
362S125-19		24	19' 6"	15' 7"	13' 9"	16' 3" f	13' 6"	12' 7"	14' 9" F	12' 6"	10' 8"
400S125-19	33	12	22' 7" f	20' 4"	17' 11"	18' 9" f	17' 9"	17' 1"	15' 6" f	28' 0"	-
400S125-19		16	19' 2" f	18' 5"	16' 3"	14' 8" f	16' 2"	15' 8"	13' 2" f	25' 1"	-
400S125-19		24	15' 9" f	15' 4"	14' 3"	12' 11" f	13' 5"	13' 3"	10' 11" f	21' 7"	-
400S125-19	50	12	23' 9"	19' 8"	17' 3"	20' 9"	17' 3"	15' 1"	18' 10"	15' 6"	13' 9"
400S125-19		16	21' 7"	17' 11"	15' 8"	18' 10"	15' 6"	13' 9"	17' 2"	14' 2"	12' 6"
400S125-19		24	18' 10"	15' 7"	13' 9"	16' 3" f	13' 8"	12' 0"	14' 5"	12' 5"	10' 9"
400S125-19	70	12	24' 0"	20' 6"	18' 4"	22' 0"	18' 4"	16' 4"	20' 0"	16' 1"	14' 6"
400S125-19		16	22' 7"	18' 6"	16' 11"	19' 12"	16' 8"	14' 10"	18' 3"	15' 1"	13' 3"
400S125-19		24	20' 0"	16' 8"	15' 0"	17' 4" f	14' 6"	13' 0"	15' 4"	13' 2"	11' 7"
600S125-19	33	12	23' 2" f	23' 2" f	22' 2"	18' 11" f	18' 11" f	18' 11" f	16' 5" f	16' 5" f	16' 5" f
600S125-19		16	20' 1" f	20' 1" f	20' 1" f	16' 5" f	16' 5" f	16' 5" f	14' 2" f	14' 2" f	14' 2" f
600S125-19		24	16' 5" f	16' 5" f	16' 5" f	13' 5" f	13' 5" f	13' 5" f	-	-	-
600S125-19	50	12	31' 5"	26' 4"	23' 2"	27' 5"	23' 0"	20' 3"	24' 7" f	20' 11"	18' 6"
600S125-19		16	28' 6"	23' 11"	21' 1"	24' 7"	20' 11"	18' 6"	21' 4"	19' 0"	16' 9"
600S125-19		24	24' 7" f	20' 11"	18' 6"	20' 8"	18' 3"	16' 1"	17' 11"	16' 7"	14' 6"
600S125-19	70	12	32' 8"	27' 6"	24' 3"	28' 6"	24' 1"	21' 7"	25' 1" F	22' 0" F	19' 6" F
600S125-19		16	29' 3"	25' 5"	22' 2"	25' 9"	22' 0"	19' 6"	21' 9"	20' 1"	17' 5"
600S125-19		24	25' 6" f	22' 3"	19' 6"	21' 11"	19' 6"	17' 0"	18' 4"	17' 3"	15' 4"

Table Notes:

- Allowable composite heights are derived from tests conducted in accordance with ICC-ES AC86-2012.
- Table heights also applicable for two layers of gypsum board.
- The gypsum board (one or two layers) must be installed vertically full height to each stud flange using minimum No. 6 Type S. Drywall screws spaced a maximum of 12 in. on-center for studs at 24-in spacing, and 16 in. on-center for studs at 16 and 12 in. spacing.
- Application of gypsum board as required in accordance with Specification C840.
- No fasteners are required for attaching the stud to the track, except as required by subsection 5.3.2.1.
- Stud end bearing must be a minimum of 1 inch.
- 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.

NON - COMPOSITE LIMITING WALL HEIGHTS (FULLY BRACED)

NON COMPOSITE LIMITING WALL HEIGHTS (FULLY BRACED)											
Profile	Fy (ksi)	Spacing	Span Length (ft)								
			5 PSF			7.5 PSF			10 PSF		
		O.C (in)	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	
162S125-13	33	12	9' 7"	7' 8"	6' 8"	8' 5"	6' 8"	5' 10"	7' 8"	6' 1"	5' 4"
		16	8' 9"	6' 11"	6' 1"	7' 8"	6' 1"	5' 4"	6' 11"	5' 6"	4' 10"
		24	7' 8"	6' 1"	5' 4"	6' 8"	5' 4"	4' 8"	6' 1"	4' 10"	4' 2"
	50	12	9' 7"	7' 8"	6' 8"	8' 5"	6' 8"	5' 10"	7' 8"	6' 1"	5' 4"
		16	8' 9"	6' 11"	6' 1"	7' 8"	6' 1"	5' 4"	6' 11"	5' 6"	4' 10"
		24	7' 8"	6' 1"	5' 4"	6' 8"	5' 4"	4' 8"	6' 1"	4' 10"	4' 2"
162S125-13	70	12	9' 7"	7' 8"	6' 8"	8' 5"	6' 8"	5' 10"	7' 8"	6' 1"	5' 4"
		16	8' 9"	6' 11"	6' 1"	7' 8"	6' 1"	5' 4"	6' 11"	5' 6"	4' 10"
		24	7' 8"	6' 1"	5' 4"	6' 8"	5' 4"	4' 8"	6' 1"	4' 10"	4' 2"
	250S125-13	12	13' 5"	10' 8"	9' 4"	11' 9"	9' 4"	8' 1"	10' 8"	8' 5"	7' 5"
		16	12' 2"	9' 8"	8' 5"	10' 8"	8' 5"	7' 5"	9' 8"	7' 8"	6' 8"
		24	10' 8"	8' 5"	7' 5"	9' 4"	7' 5"	6' 5"	8' 5"	6' 8"	5' 10"
250S125-13	50	12	13' 5"	10' 8"	9' 4"	11' 9"	9' 4"	8' 1"	10' 8"	8' 5"	7' 5"
		16	12' 2"	9' 8"	8' 5"	10' 8"	8' 5"	7' 5"	9' 8"	7' 8"	6' 8"
		24	10' 8"	8' 5"	7' 5"	9' 4"	7' 5"	6' 5"	8' 5"	6' 8"	5' 10"
	250S125-13	12	13' 5"	10' 8"	9' 4"	11' 9"	9' 4"	8' 1"	10' 8"	8' 5"	7' 5"
		16	12' 2"	9' 8"	8' 5"	10' 8"	8' 5"	7' 5"	9' 8"	7' 8"	6' 8"
		24	10' 8"	8' 5"	7' 5"	9' 4"	7' 5"	6' 5"	8' 5"	6' 8"	5' 10"
250S125-13	70	12	13' 5"	10' 8"	9' 4"	11' 9"	9' 4"	8' 1"	10' 8"	8' 5"	7' 5"
		16	12' 2"	9' 8"	8' 5"	10' 8"	8' 5"	7' 5"	9' 8"	7' 8"	6' 8"
		24	10' 8"	8' 5"	7' 5"	9' 4"	7' 5"	6' 5"	8' 5"	6' 8"	5' 10"
	362S125-13	12	17' 10"	14' 2"	12' 4"	15' 7"	12' 4"	10' 9"	14' 2"	11' 3"	9' 10"
		16	16' 2"	12' 10"	11' 3"	14' 2"	11' 3"	9' 10"	12' 10"	10' 2"	8' 11"
		24	14' 2"	11' 3"	9' 10"	12' 4"	9' 10"	8' 7"	11' 3"	8' 11"	7' 9"
362S125-13	50	12	17' 10"	14' 2"	12' 4"	15' 7"	12' 4"	10' 9"	14' 2"	11' 3"	9' 10"
		16	16' 2"	12' 10"	11' 3"	14' 2"	11' 3"	9' 10"	12' 10"	10' 2"	8' 11"
		24	14' 2"	11' 3"	9' 10"	12' 4"	9' 10"	8' 7"	11' 3"	8' 11"	7' 9"
	362S125-13	12	17' 10"	14' 2"	12' 4"	15' 7"	12' 4"	10' 9"	14' 2"	11' 3"	9' 10"
		16	16' 2"	12' 10"	11' 3"	14' 2"	11' 3"	9' 10"	12' 10"	10' 2"	8' 11"
		24	14' 2"	11' 3"	9' 10"	12' 4"	9' 10"	8' 7"	11' 3"	8' 11"	7' 9"
362S125-13	70	12	17' 10"	14' 2"	12' 4"	15' 7"	12' 4"	10' 9"	14' 2"	11' 3"	9' 10"
		16	16' 2"	12' 10"	11' 3"	14' 2"	11' 3"	9' 10"	12' 10"	10' 2"	8' 11"
		24	14' 2"	11' 3"	9' 10"	12' 4"	9' 10"	8' 7"	11' 3"	8' 11"	7' 9"
	400S125-13	12	19' 2"	15' 3"	13' 4"	16' 9"	13' 4"	11' 8"	15' 3"	12' 1"	10' 7"
		16	17' 5"	13' 10"	12' 1"	15' 3"	12' 1"	10' 7"	13' 10"	10' 12"	9' 7"
		24	15' 3"	12' 1"	10' 7"	13' 4"	10' 7"	9' 3"	12' 1"	9' 7"	8' 5"
400S125-13	50	12	19' 2"	15' 3"	13' 4"	16' 9"	13' 4"	11' 8"	15' 3"	12' 1"	10' 7"
		16	17' 5"	13' 10"	12' 1"	15' 3"	12' 1"	10' 7"	13' 10"	10' 12"	9' 7"
		24	15' 3"	12' 1"	10' 7"	13' 4"	10' 7"	9' 3"	12' 1"	9' 7"	8' 5"
	400S125-13	12	19' 2"	15' 3"	13' 4"	16' 9"	13' 4"	11' 8"	15' 3"	12' 1"	10' 7"
		16	17' 5"	13' 10"	12' 1"	15' 3"	12' 1"	10' 7"	13' 10"	10' 12"	9' 7"
		24	15' 3"	12' 1"	10' 7"	13' 4"	10' 7"	9' 3"	12' 1"	9' 7"	8' 5"
400S125-13	70	12	19' 2"	15' 3"	13' 4"	16' 9"	13' 4"	11' 8"	15' 3"	12' 1"	10' 7"
		16	17' 5"	13' 10"	12' 1"	15' 3"	12' 1"	10' 7"	13' 10"	10' 12"	9' 7"
		24	15' 3"	12' 1"	10' 7"	13' 4"	10' 7"	9' 3"	12' 1"	9' 7"	8' 5"
	600S125-13	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	20' 8"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
		24	20' 8"	16' 5"	14' 4"	18' 1"	14' 4"	12' 6"	16' 5"	13' 1"	11' 5"
600S125-13	50	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	20' 8"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
		24	20' 8"	16' 5"	14' 4"	18' 1"	14' 4"	12' 6"	16' 5"	13' 1"	11' 5"
	600S125-13	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	20' 8"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
		24	20' 8"	16' 5"	14' 4"	18' 1"	14' 4"	12' 6"	16' 5"	13' 1"	11' 5"
600S125-13	70	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	20' 8"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
		24	20' 8"	16' 5"	14' 4"	18' 1"	14' 4"	12' 6"	16' 5"	13' 1"	11' 5"
	600S125-13	12	26' 1"	20' 8"	18' 1"	22' 9"	18' 1"	15' 10"	20' 8"	16' 5"	14' 4"
		16	23' 8"	18' 10"	16' 5"	20' 8"	16' 5"	14' 4"	18' 10"	14' 11"	13' 1"
		24	20' 8"	16' 5"	14' 4"	18' 1"	14' 4"	12' 6"	16' 5"	13' 1"	11' 5"
600S125-13	33	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	5' 12"	7' 10"	6' 3"	5' 5"
		16	8' 12"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"
		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"
	62S125-15	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	5' 12"	7' 10"	6' 3"	5' 5"
		16	8' 12"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"
		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"
62S125-15	50	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	5' 12"	7' 10"	6' 3"	5' 5"
		16	8' 12"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"
		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"
	62S125-15	12	13' 10"	10' 12"	9' 7"	12' 1"	9' 7"	8' 5"	10' 12"	8' 9"	7' 7"
		16	12' 7"	9' 12"	8' 9"	10' 12"	8' 9"	7' 7"	9' 12"	7' 11"	6' 11"
		24	10' 12"	8' 9"	7' 7"	9' 7"	7' 7"	6' 8"	8' 9"	6' 11"	6' 11"
62S125-15	33	12	13' 10"	10' 12"	9' 7"	12' 1"	9' 7"	8' 5"	10' 12"	8' 9"	7' 7"
		16	12' 7"	9' 12"	8' 9"	10' 12"	8' 9"	7' 7"	9' 12"	7' 11"	6' 11"
		24	10' 12"	8' 9"	7' 7"	9' 7"	7' 7"	6' 8"	8' 9"	6' 11"	6' 11"
	62S125-15	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
62S125-15	50	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
	62S125-15	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
62S125-15	70	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"

NON - COMPOSITE LIMITING WALL HEIGHTS (FULLY BRACED) CONTINUED

Profile	Fy (ksi)	Spacing O.C (in)	NON COMPOSITE LIMITING WALL HEIGHTS (FULLY BRACED)								
			Span Length (ft)								
			5 PSF			7.5 PSF			10 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
400S125-15	33	12	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
400S125-15		16	18' 0"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
400S125-15		24	15' 9"	12' 6"	10' 11"	13' 9"	10' 11"	9' 6"	12' 6"	9' 11"	8' 8"
400S125-15	50	12	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
400S125-15		16	18' 0"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
400S125-15		24	15' 9"	12' 6"	10' 11"	13' 9"	10' 11"	9' 6"	12' 6"	9' 11"	8' 8"
400S125-15	70	12	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
400S125-15		16	18' 0"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
400S125-15		24	15' 9"	12' 6"	10' 11"	13' 9"	10' 11"	9' 6"	12' 6"	9' 11"	8' 8"
600S125-15	33	12	26' 12"	21' 5"	18' 9"	23' 7"	18' 9"	16' 4"	21' 5"	17' 0"	14' 10"
600S125-15		16	24' 6"	19' 6"	17' 0"	21' 5"	17' 0"	14' 10"	19' 6"	15' 5"	13' 6"
600S125-15		24	21' 5"	17' 0"	14' 10"	18' 9"	14' 10"	12' 12"	17' 0"	13' 6"	11' 9"
600S125-15	50	12	26' 12"	21' 5"	18' 9"	23' 7"	18' 9"	16' 4"	21' 5"	17' 0"	14' 10"
600S125-15		16	24' 6"	19' 6"	17' 0"	21' 5"	17' 0"	14' 10"	19' 6"	15' 5"	13' 6"
600S125-15		24	21' 5"	17' 0"	14' 10"	18' 9"	14' 10"	12' 12"	17' 0"	13' 6"	11' 9"
600S125-15	70	12	26' 12"	21' 5"	18' 9"	23' 7"	18' 9"	16' 4"	21' 5"	17' 0"	14' 10"
600S125-15		16	24' 6"	19' 6"	17' 0"	21' 5"	17' 0"	14' 10"	19' 6"	15' 5"	13' 6"
600S125-15		24	21' 5"	17' 0"	14' 10"	18' 9"	14' 10"	12' 12"	17' 0"	13' 6"	11' 9"
162S125-19	33	12	10' 8"	8' 5"	7' 5"	9' 4"	7' 5"	6' 5"	8' 5"	6' 8"	5' 10"
162S125-19		16	9' 8"	7' 8"	6' 8"	8' 5"	6' 8"	5' 10"	7' 8"	6' 1"	5' 4"
162S125-19		24	8' 5"	6' 8"	5' 10"	7' 5"	5' 10"	5' 1"	6' 8"	5' 4"	4' 8"
162S125-19	50	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	5' 12"	7' 10"	6' 3"	5' 5"
162S125-19		16	8' 12"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"
162S125-19		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"
162S125-19	70	12	9' 11"	7' 10"	6' 10"	8' 8"	6' 10"	5' 12"	7' 10"	6' 3"	5' 5"
162S125-19		16	8' 12"	7' 2"	6' 3"	7' 10"	6' 3"	5' 5"	7' 2"	5' 8"	4' 11"
162S125-19		24	7' 10"	6' 3"	5' 5"	6' 10"	5' 5"	4' 9"	6' 3"	4' 11"	4' 4"
250S125-19	33	12	14' 9"	11' 9"	10' 3"	12' 11"	10' 3"	8' 11"	11' 9"	9' 4"	8' 2"
250S125-19		16	13' 5"	10' 8"	9' 4"	11' 9"	9' 4"	8' 2"	10' 8"	8' 5"	7' 5"
250S125-19		24	11' 9"	9' 4"	8' 2"	10' 3"	8' 2"	7' 1"	9' 4"	7' 5"	6' 5"
250S125-19	50	12	13' 10"	10' 12"	9' 7"	12' 1"	9' 7"	8' 5"	10' 12"	8' 9"	7' 7"
250S125-19		16	12' 7"	9' 12"	8' 9"	10' 12"	8' 9"	7' 7"	9' 12"	7' 11"	6' 11"
250S125-19		24	10' 12"	8' 9"	7' 7"	9' 7"	7' 7"	6' 8"	8' 9"	6' 11"	6' 1"
250S125-19	70	12	13' 10"	10' 12"	9' 7"	12' 1"	9' 7"	8' 5"	10' 12"	8' 9"	7' 7"
250S125-19		16	12' 7"	9' 12"	8' 9"	10' 12"	8' 9"	7' 7"	9' 12"	7' 11"	6' 11"
250S125-19		24	10' 12"	8' 9"	7' 7"	9' 7"	7' 7"	6' 8"	8' 9"	6' 11"	6' 1"
362S125-19	33	12	19' 8"	15' 7"	13' 8"	17' 2"	13' 8"	11' 11"	15' 7"	12' 5"	10' 10"
362S125-19		16	17' 10"	14' 2"	12' 5"	15' 7"	12' 5"	10' 10"	14' 2"	11' 3"	9' 10"
362S125-19		24	15' 7"	12' 5"	10' 10"	13' 8"	10' 10"	9' 5"	12' 5"	9' 10"	8' 7"
362S125-19	50	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
362S125-19		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
362S125-19		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
362S125-19	70	12	18' 5"	14' 7"	12' 9"	16' 1"	12' 9"	11' 2"	14' 7"	11' 7"	10' 1"
362S125-19		16	16' 8"	13' 3"	11' 7"	14' 7"	11' 7"	10' 1"	13' 3"	10' 6"	9' 2"
362S125-19		24	14' 7"	11' 7"	10' 1"	12' 9"	10' 1"	8' 10"	11' 7"	9' 2"	8' 0"
400S125-19	33	12	21' 3"	16' 11"	14' 9"	18' 7"	14' 9"	12' 11"	16' 11"	13' 5"	11' 8"
400S125-19		16	19' 4"	15' 4"	13' 5"	16' 11"	13' 5"	11' 8"	15' 4"	12' 2"	10' 8"
400S125-19		24	16' 11"	13' 5"	11' 8"	14' 9"	11' 8"	10' 3"	13' 5"	10' 8"	9' 3"
400S125-19	50	12	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
400S125-19		16	18' 0"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
400S125-19		24	15' 9"	12' 6"	10' 11"	13' 9"	10' 11"	9' 6"	12' 6"	9' 11"	8' 8"
400S125-19	70	12	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
400S125-19		16	18' 0"	14' 4"	12' 6"	15' 9"	12' 6"	10' 11"	14' 4"	11' 4"	9' 11"
400S125-19		24	15' 9"	12' 6"	10' 11"	13' 9"	10' 11"	9' 6"	12' 6"	9' 11"	8' 8"
600S125-19	33	12	29' 3"	23' 3"	20' 3"	25' 7"	20' 3"	17' 9"	23' 3"	18' 5"	16' 1"
600S125-19		16	26' 7"	21' 1"	18' 9"	23' 3"	18' 5"	16' 1"	21' 1"	16' 9"	14' 7"
600S125-19		24	23' 3"	18' 5"	16' 1"	20' 3"	16' 1"	14' 1"	18' 5"	14' 7"	12' 9"
600S125-19	50	12	26' 12"	21' 5"	18' 9"	23' 7"	18' 9"	16' 4"	21' 5"	17' 0"	14' 10"
600S125-19		16	24' 6"	19' 6"	17' 0"	21' 5"	17' 0"	14' 10"	19' 6"	15' 5"	13' 6"
600S125-19		24	21' 5"	17' 0"	14' 10"	18' 9"	14' 10"	12' 12"	17' 0"	13' 6"	11' 9"
600S125-19	70	12	26' 12"	21' 5"	18' 9"	23' 7"	18' 9"	16' 4"	21' 5"	17' 0"	14' 10"
600S125-19		16	24' 6"	19' 6"	17' 0"	21' 5"	17' 0"	14' 10"	19' 6"	15' 5"	13' 6"
600S125-19		24	21' 5"	17' 0"	14' 10"	18' 9"	14' 10"	12' 12"	17' 0"	13' 6"	11' 9"

Table Notes:

- Non-composite limiting wall heights are based on AISI S100-12.
- Non-composite limiting wall heights are established by considering moment, deflection, shear, and web crippling.
- 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.

NON-COMPOSITE LIMITING WALL HEIGHTS (BRACED 48" O.C.)

NON COMPOSITE LIMITING WALL HEIGHTS (BRACED AT 48" O.C.)											
Profile	Fy (ksi)	Spacing O.C (in)	Span Length (ft)								
			5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-13		12	8'4"	7'5"	6'5"	6'10"	6'4"	5'7"	5'11"	5'10"	5'1"
162S125-13	33	16	7'3"	6'9"	5'10"	5'11"	5'10"	5'3"	4'11"	4'11"	4'6"
162S125-13		24	5'11"	5'10"	5'3"	4'8"	4'8"	4'5"	4'0"	4'0"	4'0"
162S125-13	50	12	8'4"	7'5"	6'5"	6'10"	6'4"	5'7"	5'11"	5'10"	5'1"
162S125-13		16	7'3"	6'9"	5'10"	5'11"	5'10"	5'3"	4'11"	4'11"	4'6"
162S125-13		24	5'11"	5'10"	5'3"	4'8"	4'8"	4'5"	4'0"	4'0"	4'0"
162S125-13	70	12	8'4"	7'5"	6'5"	6'10"	6'4"	5'7"	5'11"	5'10"	5'1"
162S125-13		16	7'3"	6'9"	5'10"	5'11"	5'10"	5'3"	4'11"	4'11"	4'6"
162S125-13		24	5'11"	5'10"	5'3"	4'8"	4'8"	4'5"	4'0"	4'0"	4'0"
250S125-13		12	10'6"	10'3"	8'12"	8'12"	8'9"	7'10"	7'10"	7'10"	7'2"
250S125-13	33	16	9'6"	9'3"	8'2"	7'10"	7'10"	7'2"	6'9"	6'9"	6'6"
250S125-13		24	7'10"	7'10"	6'3"	6'3"	9'2"	5'2"	5'2"	5'2"	5'2"
250S125-13	50	12	10'6"	10'3"	8'12"	8'12"	8'9"	7'10"	7'10"	7'10"	7'2"
250S125-13		16	9'6"	9'3"	8'2"	7'10"	7'10"	7'2"	6'9"	6'9"	6'6"
250S125-13		24	7'10"	7'10"	6'3"	6'3"	9'2"	5'2"	5'2"	5'2"	5'2"
250S125-13	70	12	10'6"	10'3"	8'12"	8'12"	8'9"	7'10"	7'10"	7'10"	7'2"
250S125-13		16	9'6"	9'3"	8'2"	7'10"	7'10"	7'2"	6'9"	6'9"	6'6"
250S125-13		24	7'10"	7'10"	6'3"	6'3"	9'2"	5'2"	5'2"	5'2"	5'2"
362S125-13		12	12'8"	12'8"	11'10"	10'4"	10'4"	10'2"	8'11"	8'11"	8'11"
362S125-13	33	16	10'11"	10'11"	10'9"	8'11"	8'11"	8'11"	7'7"	7'7"	7'7"
362S125-13		24	8'11"	8'11"	8'11"	6'11"	6'11"	5'3"	5'3"	5'3"	5'3"
362S125-13	50	12	12'8"	12'8"	11'10"	10'4"	10'4"	10'2"	8'11"	8'11"	8'11"
362S125-13		16	10'11"	10'11"	10'9"	8'11"	8'11"	8'11"	7'7"	7'7"	7'7"
362S125-13		24	8'11"	8'11"	8'11"	6'11"	6'11"	5'3"	5'3"	5'3"	5'3"
362S125-13	70	12	12'8"	12'8"	11'10"	10'4"	10'4"	10'2"	8'11"	8'11"	8'11"
362S125-13		16	10'11"	10'11"	10'9"	8'11"	8'11"	8'11"	7'7"	7'7"	7'7"
362S125-13		24	8'11"	8'11"	8'11"	6'11"	6'11"	5'3"	5'3"	5'3"	5'3"
400S125-13		12	12'11"	12'11"	12'4"	10'7"	10'7"	10'7"	9'2"	9'2"	9'2"
400S125-13	33	16	11'7"	11'7"	11'2"	9'2"	9'2"	9'2"	6'11"	6'11"	6'11"
400S125-13		24	9'2"	9'2"	9'2"	6'2"	6'2"	6'2"	4'6"	4'6"	4'6"
400S125-13	50	12	12'11"	12'11"	12'4"	10'7"	10'7"	10'7"	9'2"	9'2"	9'2"
400S125-13		16	11'7"	11'7"	11'2"	9'2"	9'2"	9'2"	6'11"	6'11"	6'11"
400S125-13		24	9'2"	9'2"	9'2"	6'2"	6'2"	6'2"	4'6"	4'6"	4'6"
400S125-13	70	12	12'11"	12'11"	12'4"	10'7"	10'7"	10'7"	9'2"	9'2"	9'2"
400S125-13		16	11'7"	11'7"	11'2"	9'2"	9'2"	9'2"	6'11"	6'11"	6'11"
400S125-13		24	9'2"	9'2"	9'2"	6'2"	6'2"	6'2"	4'6"	4'6"	4'6"
600S125-13		12	14'4"	14'4"	14'4"	10'9"	10'9"	10'9"	8'9"	8'9"	8'9"
600S125-13	33	16	11'8"	11'8"	11'8"	8'9"	8'9"	8'9"	8'1"	8'1"	8'1"
600S125-13		24	9'2"	9'2"	9'2"	7'5"	7'5"	7'5"	5'9"	5'9"	5'9"
600S125-13	50	12	14'4"	14'4"	14'4"	10'9"	10'9"	10'9"	8'9"	8'9"	8'9"
600S125-13		16	11'8"	11'8"	11'8"	8'9"	8'9"	8'9"	8'1"	8'1"	8'1"
600S125-13		24	9'2"	9'2"	9'2"	7'5"	7'5"	7'5"	5'9"	5'9"	5'9"
600S125-13	70	12	14'4"	14'4"	14'4"	10'9"	10'9"	10'9"	8'9"	8'9"	8'9"
600S125-13		16	11'8"	11'8"	11'8"	8'9"	8'9"	8'9"	8'1"	8'1"	8'1"
600S125-13		24	9'2"	9'2"	9'2"	7'5"	7'5"	7'5"	5'9"	5'9"	5'9"
600S125-13	70	12	14'4"	14'4"	14'4"	10'9"	10'9"	10'9"	8'9"	8'9"	8'9"
600S125-13		16	11'8"	11'8"	11'8"	8'9"	8'9"	8'9"	8'1"	8'1"	8'1"
600S125-13		24	9'2"	9'2"	9'2"	7'5"	7'5"	7'5"	5'9"	5'9"	5'9"
162S125-15		12	8'7"	7'7"	6'8"	7'0"	6'6"	5'9"	6'1"	6'0"	5'3"
162S125-15	33	16	7'5"	6'11"	6'0"	6'1"	6'0"	5'5"	5'1"	5'1"	4'8"
162S125-15		24	6'1"	6'0"	5'5"	4'10"	4'10"	4'7"	4'1"	4'1"	4'1"
162S125-15	50	12	8'7"	7'7"	6'8"	7'0"	6'6"	5'9"	6'1"	6'0"	5'3"
162S125-15		16	7'5"	6'11"	6'0"	6'1"	6'0"	5'5"	5'1"	5'1"	4'8"
162S125-15		24	6'1"	6'0"	5'5"	4'10"	4'10"	4'7"	4'1"	4'1"	4'1"
162S125-15	70	12	8'7"	7'7"	6'8"	7'0"	6'6"	5'9"	6'1"	6'0"	5'3"
162S125-15		16	7'5"	6'11"	6'0"	6'1"	6'0"	5'5"	5'1"	5'1"	4'8"
162S125-15		24	6'1"	6'0"	5'5"	4'10"	4'10"	4'7"	4'1"	4'1"	4'1"
250S125-15		12	10'11"	10'7"	9'3"	9'3"	9'0"	8'1"	8'1"	8'1"	7'5"
250S125-15	33	16	9'10"	9'6"	8'5"	8'1"	8'1"	7'5"	6'11"	6'11"	6'8"
250S125-15		24	8'1"	8'1"	7'5"	6'6"	6'6"	5'5"	5'5"	5'5"	5'5"
250S125-15	50	12	10'11"	10'7"	9'3"	9'3"	9'0"	8'1"	8'1"	8'1"	7'5"
250S125-15		16	9'10"	9'6"	8'5"	8'1"	8'1"	7'5"	6'11"	6'11"	6'8"
250S125-15		24	8'1"	8'1"	7'5"	6'6"	6'6"	5'5"	5'5"	5'5"	5'5"
362S125-15		12	13'1"	13'1"	12'3"	10'8"	10'8"	10'7"	9'3"	9'3"	9'3"
362S125-15	33	16	11'4"	11'4"	11'2"	9'3"	9'3"	9'3"	7'11"	7'11"	7'11"
362S125-15		24	9'3"	9'3"	7'2"	7'2"	7'2"	5'6"	5'6"	5'6"	5'6"
362S125-15	50	12	13'1"	13'1"	12'3"	10'8"	10'8"	10'7"	9'3"	9'3"	9'3"
362S125-15		16	11'4"	11'4"	11'2"	9'3"	9'3"	9'3"	7'11"	7'11"	7'11"
362S125-15		24	9'3"	9'3"	7'2"	7'2"	7'2"	5'6"	5'6"	5'6"	5'6"
362S125-15	70	12	13'1"	13'1"	12'3"	10'8"	10'8"	10'7"	9'3"	9'3"	9'3"
362S125-15		16	11'4"	11'4"	11'2"	9'3"	9'3"	9'3"	7'11"	7'11"	7'11"
362S125-15		24	9'3"	9'3"	7'2"	7'2"	7'2"	5'6"	5'6"	5'6"	5'6"

NON-COMPOSITE LIMITING WALL HEIGHTS (BRACED 48" O.C) CONTINUED

NON COMPOSITE LIMITING WALL HEIGHTS (BRACED AT 48" O.C.)											
Profile	Fy (ksi)	Spacing O.C (in)	Span Length (ft)								
			5 PSF			7.5 PSF			10 PSF		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
400S125-15		12	13' 5"	13' 5"	12' 11"	11' 0"	11' 0"	11' 0"	9' 6"	9' 6"	9' 6"
400S125-15	33	16	12' 1"	12' 1"	11' 7"	9' 6"	9' 6"	9' 6"	7' 3"	7' 3"	7' 3"
400S125-15		24	9' 6"	9' 6"	9' 6"	6' 5"	6' 5"	6' 5"	4' 8"	4' 8"	4' 8"
400S125-15	50	12	13' 5"	13' 5"	12' 11"	11' 0"	11' 0"	11' 0"	9' 6"	9' 6"	9' 6"
400S125-15		16	12' 1"	12' 1"	11' 7"	9' 6"	9' 6"	9' 6"	7' 3"	7' 3"	7' 3"
400S125-15		24	9' 6"	9' 6"	9' 6"	6' 5"	6' 5"	6' 5"	4' 8"	4' 8"	4' 8"
400S125-15		12	13' 5"	13' 5"	12' 11"	11' 0"	11' 0"	11' 0"	9' 6"	9' 6"	9' 6"
400S125-15	70	16	12' 1"	12' 1"	11' 7"	9' 6"	9' 6"	9' 6"	7' 3"	7' 3"	7' 3"
400S125-15		24	9' 6"	9' 6"	9' 6"	6' 5"	6' 5"	6' 5"	4' 8"	4' 8"	4' 8"
600S125-15		12	15' 0"	15' 0"	15' 0"	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"
600S125-15	33	16	12' 2"	12' 2"	12' 2"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"
600S125-15		24	9' 7"	9' 7"	9' 7"	7' 9"	7' 9"	7' 9"	6' 0"	6' 0"	6' 0"
600S125-15	50	12	15' 0"	15' 0"	15' 0"	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"
600S125-15		16	12' 2"	12' 2"	12' 2"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"
600S125-15		24	9' 7"	9' 7"	9' 7"	7' 9"	7' 9"	7' 9"	6' 0"	6' 0"	6' 0"
600S125-15		12	15' 0"	15' 0"	15' 0"	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"
600S125-15	70	16	12' 2"	12' 2"	12' 2"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"
600S125-15		24	9' 7"	9' 7"	9' 7"	7' 9"	7' 9"	7' 9"	6' 0"	6' 0"	6' 0"
162S125-19		12	9' 10"	7' 10"	6' 10"	8' 6"	6' 10"	6' 1"	7' 6"	6' 3"	5' 7"
162S125-19	33	16	8' 11"	7' 2"	6' 3"	7' 6"	6' 3"	5' 7"	6' 6"	5' 9"	4' 10"
162S125-19		24	7' 6"	6' 3"	5' 4"	6' 1"	5' 7"	4' 10"	5' 3"	4' 11"	4' 5"
162S125-19	50	12	8' 7"	7' 7"	6' 8"	7' 0"	6' 6"	5' 9"	6' 1"	6' 0"	5' 3"
162S125-19		16	7' 5"	6' 11"	6' 0"	6' 1"	6' 1"	5' 5"	5' 1"	5' 1"	4' 8"
162S125-19		24	6' 1"	6' 0"	5' 5"	4' 10"	4' 10"	4' 7"	4' 1"	4' 1"	4' 1"
162S125-19		12	8' 7"	7' 7"	6' 8"	7' 0"	6' 6"	5' 9"	6' 1"	6' 0"	5' 3"
162S125-19	70	16	7' 5"	6' 11"	6' 0"	6' 1"	6' 0"	5' 5"	5' 1"	5' 1"	4' 8"
162S125-19		24	6' 1"	6' 0"	5' 5"	4' 10"	4' 10"	4' 7"	4' 1"	4' 1"	4' 1"
250S125-19		12	13' 10"	10' 12"	9' 8"	11' 3"	9' 8"	8' 5"	10' 4"	8' 9"	7' 7"
250S125-19	33	16	12' 4"	9' 12"	8' 9"	10' 4"	8' 9"	7' 7"	9' 0"	7' 11"	6' 12"
250S125-19		24	10' 4"	8' 9"	7' 7"	8' 6"	7' 7"	6' 8"	7' 4"	6' 11"	6' 5"
250S125-19	50	12	10' 11"	10' 7"	9' 3"	9' 3"	9' 0"	8' 1"	8' 1"	8' 1"	7' 5"
250S125-19		16	9' 10"	9' 6"	8' 5"	8' 1"	8' 1"	7' 5"	6' 11"	6' 11"	6' 8"
250S125-19		24	8' 1"	8' 1"	7' 5"	6' 6"	6' 6"	9' 5"	5' 5"	5' 5"	5' 5"
250S125-19		12	10' 11"	10' 7"	9' 3"	9' 3"	9' 0"	8' 1"	8' 1"	8' 1"	7' 5"
250S125-19	70	16	9' 10"	9' 6"	8' 5"	8' 1"	8' 1"	7' 5"	6' 11"	6' 11"	6' 8"
250S125-19		24	8' 1"	8' 1"	7' 5"	6' 6"	6' 6"	9' 5"	5' 5"	5' 5"	5' 5"
362S125-19		12	17' 1"	14' 8"	12' 10"	13' 12"	12' 10"	10' 2"	12' 1"	11' 8"	10' 2"
362S125-19	33	16	14' 10"	13' 4"	11' 8"	12' 1"	11' 8"	10' 2"	10' 6"	10' 3"	9' 3"
362S125-19		24	12' 1"	11' 8"	10' 2"	9' 11"	9' 10"	8' 10"	8' 7"	8' 7"	8' 0"
362S125-19	50	12	13' 1"	13' 1"	12' 3"	10' 8"	10' 8"	10' 7"	9' 3"	9' 3"	9' 3"
362S125-19		16	11' 4"	11' 4"	11' 2"	9' 3"	9' 3"	9' 3"	7' 11"	7' 11"	7' 11"
362S125-19		24	9' 3"	9' 3"	9' 3"	7' 2"	7' 2"	7' 2"	5' 6"	5' 6"	5' 6"
362S125-19		12	13' 1"	13' 1"	12' 3"	10' 8"	10' 8"	10' 7"	9' 3"	9' 3"	9' 3"
362S125-19	70	16	11' 4"	11' 4"	11' 2"	9' 3"	9' 3"	9' 3"	7' 11"	7' 11"	7' 11"
362S125-19		24	9' 3"	9' 3"	9' 3"	7' 2"	7' 2"	7' 2"	5' 6"	5' 6"	5' 6"
400S125-19		12	18' 3"	15' 9"	13' 9"	14' 11"	13' 9"	12' 1"	12' 11"	12' 6"	10' 12"
400S125-19	33	16	15' 9"	14' 5"	12' 6"	12' 11"	12' 6"	10' 12"	10' 2"	11' 1"	9' 11"
400S125-19		24	12' 11"	12' 11"	10' 12"	10' 6"	10' 6"	9' 7"	9' 1"	8' 8"	
400S125-19		12	13' 5"	13' 5"	12' 11"	11' 0"	11' 0"	11' 0"	9' 6"	9' 6"	9' 6"
400S125-19	50	16	12' 1"	12' 1"	11' 7"	9' 6"	9' 6"	9' 6"	7' 3"	7' 3"	7' 3"
400S125-19		24	9' 6"	9' 6"	9' 6"	6' 5"	6' 5"	6' 5"	4' 8"	4' 8"	4' 8"
400S125-19		12	23' 4"	21' 1"	18' 5"	19' 0"	17' 9"	16' 1"	16' 6"	16' 1"	14' 7"
600S125-19	33	16	20' 2"	19' 1"	16' 9"	16' 6"	16' 1"	14' 7"	14' 3"	14' 3"	13' 3"
600S125-19		24	16' 6"	16' 1"	14' 7"	14' 0"	13' 6"	12' 9"	10' 11"	10' 11"	10' 11"
600S125-19	50	12	15' 0"	15' 0"	15' 0"	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"
600S125-19		16	12' 2"	12' 2"	12' 2"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"
600S125-19		24	9' 7"	9' 7"	9' 7"	7' 9"	7' 9"	7' 9"	6' 0"	6' 0"	6' 0"
600S125-19	70	12	15' 0"	15' 0"	15' 0"	11' 3"	11' 3"	11' 3"	9' 2"	9' 2"	9' 2"
600S125-19		16	12' 2"	12' 2"	12' 2"	9' 2"	9' 2"	9' 2"	8' 6"	8' 6"	8' 6"
600S125-19		24	9' 7"	9' 7"	9' 7"	7' 9"	7' 9"	7' 9"	6' 0"	6' 0"	6' 0"

Table Notes:

Non-composite limiting wall heights are based on AISI S100-12.

* Non-composite limiting wall heights are established by considering moment, deflection, shear, and web crippling.

* 'f' adjacent to the height value indicates that flexural stress controls the allowable wall height.

CONNECTIONS

Profile	SCREW ALLOWABLE LOADS (lbs)											
	Thickness	Fy	#6 SCREW			#8 SCREW			#10 SCREW			
			(mils)	(ksi)	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out
PS125-13	13	50	40	26	84	45	31	103	49	36	112	
PS125-15	15	50	50	30	96	56	36	119	62	42	130	
PS125-19	19	50	73	39	100	79	47	139	86	54	161	

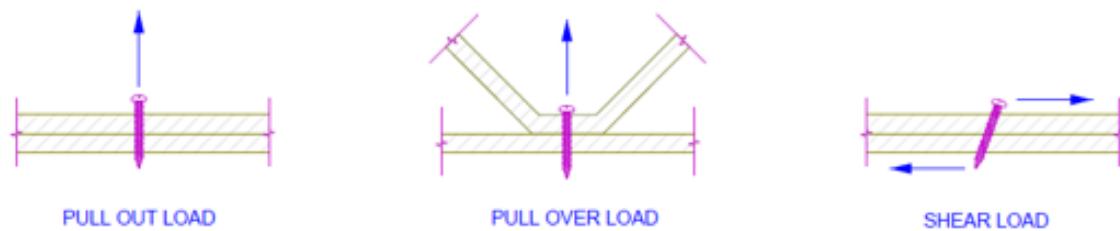


Table Notes:

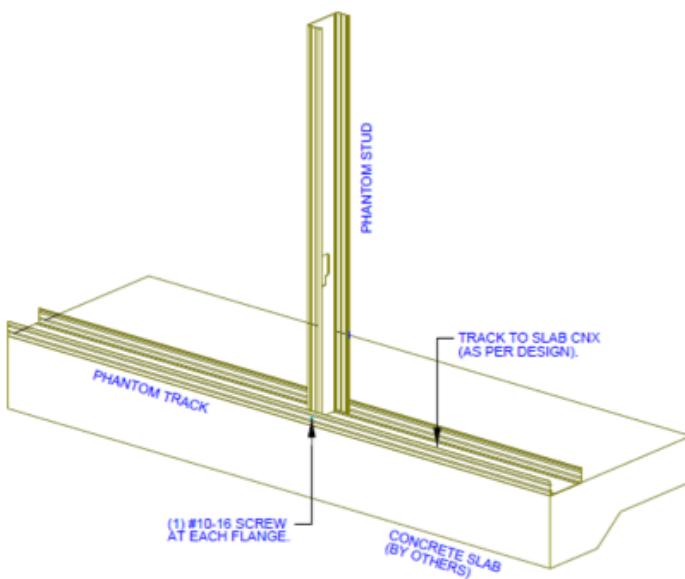
Screw Allowable loads are based on Section E4 of the AISI S100-12.

Screw Allowable Loads are based on Allowable Strength Design (ASD) and include a safety factor of 3.0.

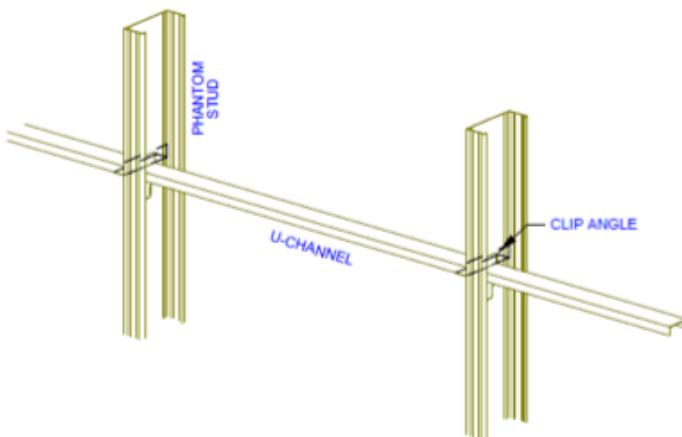
Screws are assumed to have a c/c spacing of at least three times the nominal diameter.

DISCLAIMER:

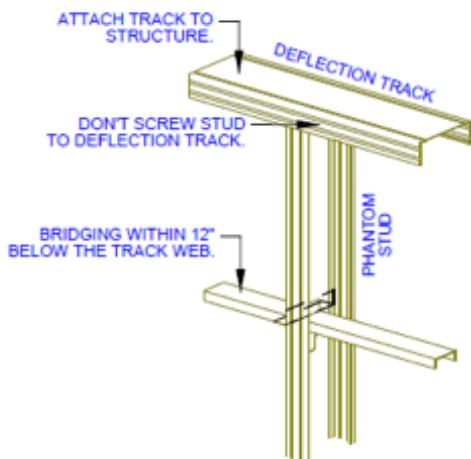
All data, detail and specifications included in this document are intended as a general guide for using OEG Building Materials products. These products should not be used in design or construction without evaluation by a qualified engineer or architect to determine their suitability for their specific scenario. OEG Building Materials assumes no liability for failure resulting from use or misapplication or computation, details or specifications contained herein. OEG Building Material assumes no liability for damages resulting from improper application of these products.



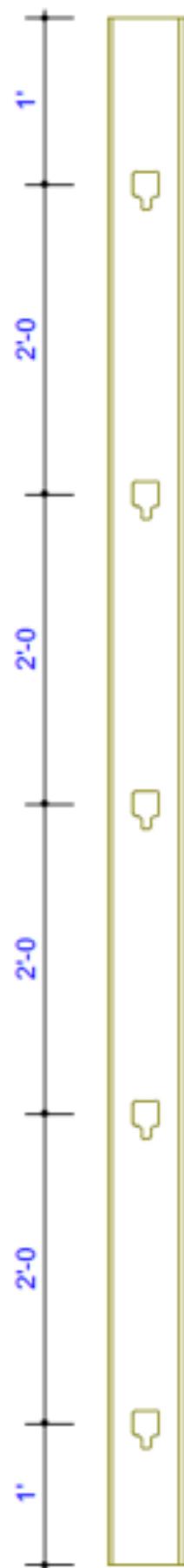
TRACK TO STUD CONNECTION



U-CHANNEL LATERAL BRACING



STUD TO DEFLECTION TRACK



STANDARD SLOT PATTERN





PHANTOM STUD

OEG BUILDING MATERIALS

6001 BORDENTOWN AVE

SAYREVILLE, NJ 08872

ORDERS@OEGUSA.COM

732.667.3636