METAL DRYWALL FRAMING & ACCESSO-

09200

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PRODUCT IDENTIFICATION

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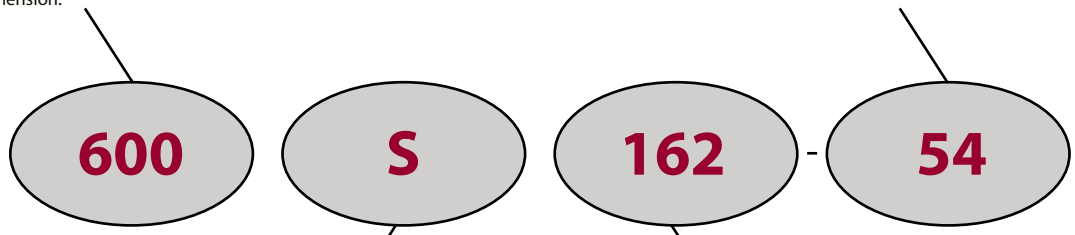
PRODUCT IDENTIFICATION

All Telling Industries products contain a four part identification code. This identifies the size (both depth and flange/leg height), style, and material thickness of each member.

EXAMPLE:

WEB DEPTH:
(Example: 6" = 600 x 1/100 inches) All member depths are taken in 1/100 inches. For all "T" sections member depths is the inside to inside dimension.

MATERIAL THICKNESS:
(Example: 0.054 in. = 54 mils = 16 gauge; 1 mil = 1/1000 in.) Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.



STYLE:
(Example: Stud or Joist section = S)
The two alpha characters utilized by the identification code are:
S= Stud or Joist Sections
T= Track Sections

FLANGE/LEG HEIGHT:
(Example: 1 5/8" = 1.625" ~ 162 x 1/100 inches)
All flange widths are taken in 1/100 inches.

Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strength used in the design, if greater than 33 ksi, should be identified on the design and ordering of steel. (i.e., 600S162-54(50 ksi)

THICKNESS - STEEL COMPONENTS

Minimum Thickness[1] (mils)	Design Thickness (in)	Inside Corner Radii (in)	Reference Only Guage No.	Color Coding
18	0.0188	0.0843	25	Mill
27	0.0283	0.0796	22	Black
30	0.0312	0.0781	20 - Drywall	White
33	0.0346	0.0764	20 - Structural	White
43	0.0451	0.0712	18	Yellow
54	0.0566	0.0849	16	Green
68	0.0713	0.1069	14	Orange
97	0.1017	0.1525	12	Red

1Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on Section A2.4 of the 2004 NASPEC.

DESIGN STIFFENING LIP LENGTH

Section	Flange Width	Design Stiffening Lip Length (in)
S125	1 1/4"	0.188
S137	1 3/8"	0.375
S162	1 5/8"	0.5
S200	2"	0.625
S250	2 1/2"	0.625
S300	3"	0.75

GENERAL PRODUCT INFORMA-

RAW MATERIAL INFORMATION

All Telling Industries products are formed from steel with a minimum yield strength of 33 or 50 KSI (1000 lbs per square inch). All products contained in this brochure are engineered to meet the 2001 Edition of the AISI (American Iron and Steel Institute) North American Specification for the Design of Cold- Formed Steel Structural Members. The same document was used to calculate the physical and structural properties of all products listed herein via allowable stress design criteria.

TECHNICAL ASSISTANCE

Technical assistance is available to Telling Industries customers when requested. A Telling Industries representative or design professional can review project specific load conditions and determine deflection criteria and lateral bracing conditions not discussed herein. Further, our representatives can assist purchasers and designers in economical applications for maximum efficiency.

All information contained in this brochure is intended as a general guide for using Telling Industries' products. This information should not be used in design or assembly without an independent assessment by a qualified design professional. Such an assessment is necessary to verify the suitability of a particular product for use in any load bearing application. Telling Industries assume no liability for failure resulting from the use or misapplications of any information contained herein. Detail drawings contained herein are for information only. Telling Industries reserve the right to make modifications, changes, additions or deletions to the information on any of our products without prior notice or obligation. For the latest product information or to verify availability, contact a Telling Industries representative. This brochure contains the latest information available at the time of printing.

GENERAL NOTES FOR ALL TABLES

1. The strength increase due to cold work forming was incorporated for flexural strength as applicable per AISI A7.2.

2. The moment of inertia for deflection is calculated at a stress which results in an effective section modulus such that the stress times that section modulus is equal to the allowable moment. This follows Procedure 1 of the AISI specification.

3. The yield stresses (33 ksi or 50 ksi) used to calculate the tabulated values are indicated in the tables.

4. When provided, factory punch-outs will be located along the centerline of the webs of the members and will have a minimum center-to-center spacing of 24". Punch-outs will have a maximum width = half the member web height (d/2) or 1 1/2", whichever is less, and a maximum length = 4". The minimum distance between the end of the member and the near edge of the web punch-out = 10 unless otherwise specified.

5. For those steels that have both 33 and 50 ksi listings, if the design is based upon 50 ksi, the 50 ksi steel needs to be specified by the designer/purchasers. (i.e., 362S137- 54 (50 ksi)

DEFINITIONS OF STRUCTURAL PROPERTY SYMBOLS

GROSS PROPERTIES

Ixx: Moment of inertia of the gross section about the X-X axis (strong axis).

Rx: Radius of gyration of the gross section about the X-X axis.

Iyy: Moment of inertia of the gross section about the Y-Y axis (weak axis).

Ry: Radius of gyration of the gross section about the Y-Y axis.

EFFECTIVE PROPERTIES

Ixx: Moment of inertia for deflection calculations based on the "Procedure 1 or Deflection Determination" of the 2001 AISI Specification.

Sxx: Effective section modulus about the X-X axis (strong axis) Stress = Fy

Ma: Allowable Bending Moment- Based on the effective section modulus and the allowable stress including the strength increase from cold-work of forming (AISI A 7.2) where applicable.

Va: Allowable Shear Load.

Ycg: Maximum distance from the outside of the compression flange to the center of gravity of the effective section.

TORSIONAL PROPERTIES

J: St. Venant Torsional Constant.

Cw: Torsional warping constant.

Xo: Distance from the shear center to the centroid along the principal X-axis.

Ro: Polar radius of gyration about the centroid principal axis.

ß: 1- (Xo/Ro)2

SECTION PROPERTIES TABLE NOTES

1. The centerline bend radius is the greater of 2 times the design thickness or 3/32".

2. Web depth for track sections is equal to the nominal height plus 2 times the design thickness plus the bend radius.

3. Hems on non-structural track sections are ignored.

4. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.

5. Tabulated gross properties are based on the full-unreduced cross section of the studs, away from punch-outs.

6. For deflection calculations, use the effective moment of inertia.

7. For those steels that have both 33 and 50 ksi, the 50 ksi steel needs to be specified. (I.e., 362S137-54 (50 ksi))

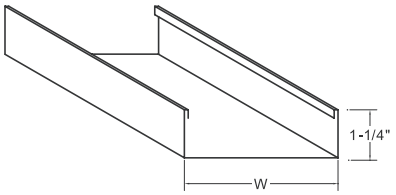
DRYWALL TRACK

Telling Industries track is used to anchor the partition at the ceiling and floor. Tracks are roll-formed steel in a channel configuration with hemmed or unhemmed legs in 1-1/4" depths. Sections are manufactured to receive the corresponding size of the studs with an overbend for a friction fit. Telling Industries' standard 25, 22, and 20 gage track meets ASTM C-645, A568-00a, and A653. The properties and weights shown are calculated on minimum thicknesses in accordance to A.I.S.I. specifications.

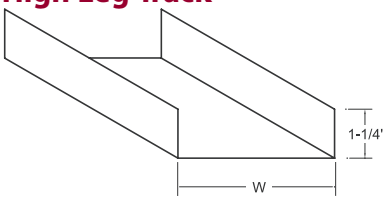
PHYSICAL AND STRUCTURAL PROPERTIES

		Gross Properties						33 ksi Effective Properties					Torsional Properties				
Section	Design Thickness (in)	Area (in^2)	Weight (lb/ft)	Ixx (in^4)	Rx (in)	Iyy (in^4)	Ry (in)	Ixx (in^4)	Sxx (in^3)	Ma (in-k)	Va (lb)	Ycg (in)	Jx1000 (in^4)	Cw (in^6)	Xo (in)	Ro (in)	ß
162T125-18	0.018	0.078	0.26	0.042	0.733	0.013	0.411	-	-	-	-	-	0.009	0.007	-0.891	1.225	0.471
162T125-27	0.028	0.117	0.4	0.063	0.735	0.020	0.410	0.050	0.044	0.87	541	1.048	0.031	0.010	-0.886	1.221	0.474
162T125-30	0.031	0.129	0.44	0.070	0.735	0.022	0.409	0.057	0.050	1	597	1.038	0.042	0.012	-0.884	1.22	0.475
162T125-33	0.034	0.143	0.49	0.077	0.736	0.024	0.408	0.066	0.058	1.15	663	1.026	0.057	0.013	-0.882	1.219	0.476
162T150-18	0.018	0.087	0.3	0.049	0.749	0.021	0.496	-	-	-	-	-	0.010	0.011	-1.12	1.436	0.391
162T150-27	0.028	0.131	0.45	0.074	0.750	0.032	0.495	0.055	0.045	0.9	541	1.092	0.035	0.017	-1.115	1.432	0.394
162T150-30	0.031	0.144	0.49	0.081	0.751	0.035	0.494	0.062	0.052	1.03	597	1.082	0.047	0.019	-1.113	1.431	0.395
162T150-33	0.034	0.16	0.54	0.09	0.751	0.039	0.494	0.072	0.06	1.19	663	1.07	0.064	0.021	-1.111	1.429	0.395
250T125-18	0.018	0.094	0.32	0.104	1.052	0.015	0.399	-	-	-	-	-	0.011	0.018	-0.779	1.368	0.676
250T125-27	0.028	0.141	0.48	0.157	1.053	0.022	0.398	0.129	0.079	1.56	685	1.519	0.038	0.027	-0.77	1.366	0.679
250T125-30	0.031	0.156	0.53	0.173	1.053	0.025	0.397	0.145	0.090	1.77	832	1.507	0.051	0.030	-0.77	1.365	0.679
250T125-33	0.034	0.173	0.59	0.192	1.054	0.027	0.397	0.166	0.103	2.03	1024	1.492	0.069	0.033	-0.77	1.365	0.68
250T150-18	0.018	0.103	0.35	0.120	1.077	0.025	0.488	-	-	-	-	-	0.012	0.029	-0.99	1.544	0.586
250T150-27	0.028	0.156	0.53	0.181	1.078	0.037	0.486	0.139	0.082	1.61	685	1.576	0.042	0.044	-0.99	1.542	0.588
250T150-30	0.031	0.172	0.58	0.199	1.078	0.040	0.486	0.157	0.093	1.83	832	1.563	0.056	0.048	-0.99	1.541	0.589
250T150-33	0.034	0.190	0.65	0.221	1.079	0.045	0.485	0.179	0.107	2.11	1024	1.548	0.076	0.054	-0.99	1.54	0.59
250T200-18	0.018	0.122	0.42	0.152	1.114	0.053	0.661	-	-	-	-	-	0.014	0.064	-1.44	1.938	0.447
250T200-27	0.028	0.184	0.63	0.229	1.116	0.080	0.659	-	-	-	-	-	0.049	0.096	-1.44	1.934	0.449
250T200-30	0.031	0.203	0.69	0.253	1.116	0.088	0.659	-	-	-	-	-	0.066	0.106	-1.43	1.933	0.45
250T200-33	0.034	0.225	0.76	0.280	1.117	0.097	0.658	0.203	0.112	2.22	1024	1.647	0.090	0.118	-1.43	1.932	0.45
350T125-18	0.018	0.113	0.38	0.220	1.395	0.016	0.382	-	-	-	-	-	0.013	0.038	-0.68	1.6	0.817
350T125-27	0.028	0.170	0.58	0.331	1.396	0.025	0.381	0.277	0.128	2.53	590	2.044	0.045	0.057	-0.68	1.599	0.819
350T125-30	0.031	0.187	0.64	0.365	1.396	0.027	0.38	0.312	0.145	2.86	790	2.03	0.061	0.063	-0.679	1.598	0.82
350T125-33	0.034	0.207	0.71	0.405	1.397	0.030	0.379	0.354	0.165	3.27	1024	2.014	0.083	0.070	-0.68	1.598	0.820
350T150-18	0.018	0.122	0.42	0.250	1.430	0.027	0.472	-	-	-	-	-	0.014	0.062	-0.88	1.746	0.744
350T150-27	0.028	0.184	0.63	0.377	1.431	0.041	0.470	0.298	0.132	2.62	590	2.111	0.049	0.093	-0.88	1.745	0.746
350T150-30	0.031	0.203	0.69	0.416	1.432	0.045	0.469	0.336	0.150	2.96	790	2.097	0.066	0.103	-0.88	1.744	0.747
350T150-33	0.034	0.225	0.76	0.461	1.432	0.049	0.469	0.382	0.171	3.39	1024	2.080	0.090	0.114	-0.88	1.743	0.747
350T200-18	0.018	0.141	0.48	0.311	1.485	0.059	0.649	-	-	-	-	-	0.017	0.136	-1.31	2.081	0.607
350T200-27	0.028	0.212	0.72	0.469	1.487	0.089	0.648	-	-	-	-	-	0.057	0.203	-1.30	2.079	0.609
350T200-30	0.031	0.234	0.80	0.517	1.487	0.098	0.647	-	-	-	-	-	0.076	0.224	-1.30	2.078	0.609
350T200-33	0.034	0.259	0.88	0.574	1.487	0.108	0.647	0.428	0.181	3.57	1024	2.199	0.103	0.248	-1.30	2.077	0.610
362T125-18	0.018	0.115	0.39	0.238	1.437	0.017	0.380	-	-	-	-	-	0.014	0.041	-0.67	1.632	0.829
362T125-27	0.028	0.173	0.59	0.358	1.438	0.025	0.378	0.301	0.135	2.66	569	2.109	0.046	0.062	-0.67	1.631	0.831
362T125-30	0.031	0.191	0.65	0.395	1.438	0.027	0.378	0.339	0.152	3.01	762	2.095	0.062	0.068	-0.67	1.63	0.832
362T125-33	0.034	0.212	0.72	0.438	1.438	0.030	0.377	0.384	0.174	3.44	1024	2.079	0.085	0.075	-0.67	1.63	0.832
362T150-18	0.018	0.125	0.42	0.271	1.474	0.027	0.470	-	-	-	-	-	0.015	0.068	-0.87	1.775	0.759
362T150-27	0.028	0.187	0.64	0.408	1.475	0.041	0.468	0.323	0.140	2.76	569	2.177	0.050	0.101	-0.87	1.774	0.761
362T150-30	0.031	0.207	0.70	0.449	1.475	0.045	0.467	0.364	0.158	3.12	762	2.162	0.067	0.111	-0.87	1.773	0.761
362T150-33	0.034	0.229	0.78	0.499	1.475	0.050	0.467	0.414	0.180	3.56	1024	2.146	0.091	0.123	-0.87	1.772	0.762
362T200-18	0.018	0.143	0.49	0.336	1.530	0.060	0.648	-	-	-	-	-	0.017	0.147	-1.29	2.104	0.624
362T200-27	0.028	0.216	0.73	0.506	1.532	0.090	0.646	-	-	-	-	-	0.058	0.220	-1.29	2.101	0.626
362T200-30	0.031	0.238	0.81	0.558	1.532	0.099	0.645	-	-	-	-	-	0.077	0.242	-1.28	2.101	0.626
362T200-33	0.034	0.264	0.90	0.619	1.532	0.110	0.645	0.464	0.190	3.76	1024	2.267	0.105	0.269	-1.28	2.1	0.627
400T125-18[1]	0.018	0.122	0.42	0.298	1.561	0.017	0.374	-	-	-	-	-	0.014	0.052	-0.65	1.73	0.861
400T125-27	0.028	0.184	0.63	0.449	1.562	0.025	0.372	0.380	0.156	3.08	515	2.306	0.049	0.077	-0.64	1.729	0.862
400T125-30	0.031	0.203	0.69	0.495	1.562	0.028	0.371	0.427	0.176	3.49	689	2.289	0.066	0.085	-0.64	1.729	0.863
400T125-33	0.034	0.225	0.76	0.549	1.563	0.031	0.371	0.484	0.201	3.97	940	2.272	0.090	0.094	-0.64	1.728	0.863
400T150-18[1]	0.018	0.132	0.45	0.338	1.601	0.028	0.463	-	-	-	-	-	0.016	0.085	-0.84	1.866	0.798
400T150-27	0.028	0.198	0.67	0.509	1.602	0.042	0.461	0.409	0.154	3.04	515	2.420	0.053	0.127	-0.83	1.864	0.800
400T150-30	0.031	0.218	0.74	0.561	1.603	0.046	0.461	0.458	0.183	3.61	689	2.359	0.071	0.139	-0.83	1.864	0.800
400T150-33	0.034	0.242	0.82	0.622	1.603	0.051	0.460	0.519	0.208	4.12	940	2.342	0.097	0.154	-0.83	1.863	0.801
400T200-18[1]	0.018	0.150	0.51	0.417	1.664	0.062	0.642	-	-	-	-	-	0.018	0.183	-1.25	2.177	0.672
400T200-27	0.028	0.226	0.77	0.628	1.665	0.093	0.640	-	-	-	-	-	0.060	0.275	-1.24	2.174	0.673
400T200-30	0.031	0.250	0.85	0.692	1.666	0.102	0.639	-	-	-	-	-	0.081	0.303	-1.24	2.174	0.674
400T200-33	0.034	0.277	0.94	0.768	1.666	0.113	0.639	0.581	0.220	4.34	940	2.469	0.110	0.335	-1.24	2.173	0.674
550T125-18[1]	0.018	0.15	0.51	0.630	2.046	0.018	0.349	-	-	-	-	-	0.018	0.107	-0.55	2.148	0.934
550T125-27	0.028	0.226	0.77	0.948	2.046	0.027	0.348	0.786	0.192	3.79	372	3.464	0.060	0.160	-0.55	2.147	0.934
550T125-30	0.031	0.25	0.85	1.045	2.046	0.030	0.347	0.897	0.226	4.47	499	3.385	0.081	0.176	-0.55	2.147	0.935
550T125-33	0.034	0.277	0.94	1.159	2.046	0.033	0.346	1.029	0.270	5.33	680	3.302	0.110	0.194	-0.55	2.146	0.935
550T150-18[1]	0.018	0.16	0.54	0.703	2.098	0.031	0.437	-	-	-	-	-	0.019	0.175	-0.73	2.263	0.897
550T150-27	0.028	0.241	0.82	1.059	2.098	0.046	0.436	0.893	0.207	4.10	372	3.460	0.064	0.262	-0.72	2.262	0.898
550T150-30	0.031	0.265	0.90	1.168	2.098	0.050	0.435	0.995	0.251	4.96	499	3.349	0.086	0.288	-0.72	2.262	0.898
550T150-33	0.034	0.294	1.00	1.295	2.099	0.055	0.434	1.115	0.310	6.12	680	3.224	0.117	0.319	-0.72	2.261	0.898
550T200-18[1]	0.018	0.179	0.61	0.851	2.182	0.068	0.616	-	-	-	-	-	0.021	0.379	-1.10	2.522	0.808
550T200-27	0.028	0.269	0.91	1.282	2.183	0.101	0.614	-	-	-	-	-	0.072	0.568	-1.10	2.521	0.810
550T200-30	0.031	0.296	1.01	1.413	2.184	0.112	0.614	-	-	-	-	-	0.096	0.625	-1.01	2.52	0.810
550T200-33	0.034	0.329	1.12	1.567	2.184	0.123	0.613	1.246	0.307	6.06	680	3.453	0.131	0.692	-1.01	2.52	0.810
600T125-18[1]	0.018	0.16	0.54	0.776	2.204	0.019	0.342	-	-	-	-	-	0.019	0.131	-0.53	2.292	0.947
600T125-27[1]	0.028	0.241	0.82	1.168	2.204	0.028	0.34	0.958	0.21	4.16	341	3.812	0.064	0.195	-0.525	2.291	0.948
600T125-30	0.031	0.265	0.90	1.288	2.204	0.031	0.340	1.095	0.249	4.92	456	3.726	0.086	0.214	-0.52	2.291	0.948
600T125-33	0.034	0.294	1.00	1.428	2.204	0.034	0.339	1.258	0.297	5.87	622	3.635	0.117	0.237	-0.52	2.291	0.948
600T150-18[1]	0.018	0.169	0.58	0.864	2.259	0.031	0.429	-	-	-	-	-	0.020	0.214	-0.70	2.403	0.916
600T150-27[1]	0.028	0.255	0.87	1.300	2.260	0.047	0.427	1.011	0.214	4.23	341	3.919	0.068	0.319	-0.69	2.402	0.917
600T150-30	0.031	0.281	0.96	1.434	2.260	0.051	0.427	1.159	0.253	5.01	456	3.831	0.091	0.351	-0.69	2.402	0.917
600T150-33	0.034	0.311	1.06	1.590	2.260	0.057	0.426	1.334	0.303	5.99	622	3.737	0.124	0.389	-0.69	2.401	0.917
600T200-18[1]	0.018	0.188	0.64	1.039	2.350	0.069	0.607	-	-	-	-	-	0.022	0.462	-1.06	2.65	0.839
600T200-27[1]	0.028	0.283	0.96	1.564	2.351	0.104	0.605	-	-	-	-	-	0.076	0.693	-1.06	2.649	0.840
600T200-30	0.031	0.312	1.06	1.725	2.351	0.114	0.605	-	-	-	-	-	0.101	0.763	-1.06	2.649	0.840
600T200-33	0.034	0.346	1.18	1.913	2.352	0.126	0.604	1.542	0.333	6.59	622	3.803	0.138	0.845	-1.06	2.648	0.841

Hemmed Track



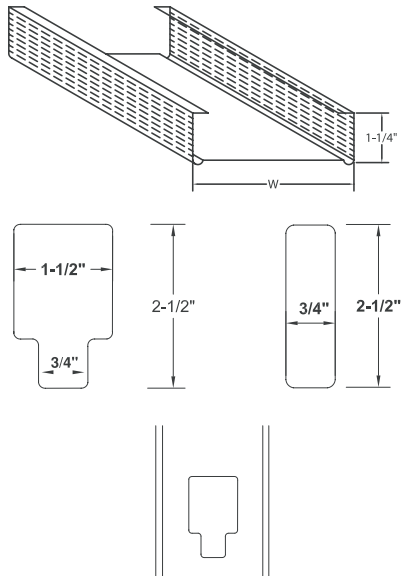
High Leg Track



1 Web height-to-thickness ratio exceeds 200. Web stiffeners required at all supports and concentrated loads.

DRYWALL STUDS

Telling Industries roll-formed, channel shaped, non-load bearing steel members drywall studs are used exclusively for interior partitions. Outer flanges are knurled to prevent screw ride and to expedite attachment O.C. Telling Industries' 25, 22, and 20 gage studs meet ASTM C-645 and A-653 standards. The properties and weights shown below are calculated on minimum thicknesses in compliance with A.I.S.I. specifications.



Section	Design Thickness (in)	Gross Properties Area (in²)	Weight (lb/ft)	Ixx (in⁴)	Rx (in)	Iyy (in⁴)	Ry (in)	33 ksi Effective Properties Ixx (in⁴)	Sxx (in³)	Ma (in-k)	Va (lb)	Ycg (in)	Torsional Properties Jx1000 (in⁴)	Cw (in⁶)	Xo (in)	Ro (in)	ß
162S125-18	0.018	0.080	0.27	0.038	0.686	0.016	0.447	0.034	0.031	0.61	302	0.962	0.009	0.009	-1.061	1.340	0.373
162S125-27	0.028	0.120	0.41	0.056	0.682	0.023	0.443	0.055	0.053	1.05	494	0.903	0.032	0.013	-1.049	1.327	0.375
162S125-30	0.031	0.131	0.45	0.061	0.681	0.026	0.441	0.060	0.060	1.19	543	0.889	0.043	0.014	-1.046	1.323	0.376
162S125-33	0.034	0.145	0.49	0.067	0.679	0.028	0.440	0.066	0.069	1.37	601	0.873	0.058	0.015	-1.042	1.319	0.376
250S125-18	0.018	0.097	0.33	0.099	1.014	0.019	0.439	0.089	0.059	1.17	258	1.391	0.011	0.023	-0.930	1.444	0.585
250S125-27	0.028	0.144	0.49	0.147	1.009	0.027	0.434	0.144	0.097	1.92	685	1.343	0.039	0.033	-0.919	1.432	0.589
250S125-30	0.031	0.159	0.54	0.161	1.008	0.030	0.433	0.159	0.110	2.17	832	1.329	0.052	0.036	-0.915	1.429	0.590
250S125-33	0.034	0.176	0.60	0.178	1.006	0.033	0.431	0.175	0.125	2.48	975	1.313	0.070	0.039	-0.911	1.425	0.591
350S125-18	0.018	0.115	0.39	0.215	1.366	0.021	0.423	0.203	0.072	1.42	180	2.175	0.014	0.049	-0.819	1.648	0.753
350S125-27	0.028	0.173	0.59	0.320	1.361	0.030	0.418	0.315	0.130	2.57	614	2.020	0.046	0.071	-0.809	1.637	0.756
350S125-30	0.031	0.190	0.65	0.351	1.359	0.033	0.417	0.346	0.150	2.96	824	1.979	0.062	0.077	-0.805	1.634	0.757
350S125-33	0.034	0.210	0.72	0.387	1.358	0.036	0.415	0.382	0.175	3.45	1024	1.935	0.084	0.085	-0.802	1.630	0.758
362S125-18	0.018	0.118	0.40	0.234	1.409	0.021	0.421	0.221	0.075	1.48	173	2.262	0.014	0.053	-0.807	1.677	0.768
362S125-27	0.028	0.176	0.60	0.347	1.404	0.031	0.416	0.342	0.135	2.67	592	2.102	0.047	0.077	-0.797	1.667	0.771
362S125-30	0.031	0.194	0.66	0.381	1.402	0.033	0.415	0.376	0.156	3.08	794	2.059	0.063	0.084	-0.794	1.664	0.772
362S125-33	0.034	0.215	0.73	0.421	1.400	0.037	0.413	0.415	0.182	3.59	1024	2.013	0.086	0.092	-0.790	1.660	0.774
400S125-18¹	0.018	0.125	0.42	0.294	1.536	0.021	0.414	0.281	0.083	1.64	156	2.524	0.015	0.066	-0.774	1.769	0.809
400S125-27	0.028	0.187	0.64	0.438	1.531	0.031	0.410	0.431	0.151	2.97	533	2.349	0.050	0.096	-0.764	1.759	0.811
400S125-30	0.031	0.206	0.70	0.481	1.529	0.034	0.408	0.474	0.174	3.44	715	2.303	0.067	0.105	-0.761	1.756	0.812
400S125-33	0.034	0.228	0.77	0.531	1.527	0.038	0.407	0.524	0.203	4.01	976	2.252	0.091	0.115	-0.757	1.752	0.813
550S125-18¹	0.018	0.153	0.52	0.630	2.029	0.023	0.390	-	-	-	-	-	0.018	0.138	-0.666	2.171	0.906
550S125-27	0.028	0.229	0.78	0.938	2.023	0.034	0.385	0.898	0.246	4.86	382	3.150	0.061	0.202	-0.657	2.162	0.908
550S125-30	0.031	0.252	0.86	1.031	2.021	0.037	0.384	0.996	0.286	5.65	512	3.083	0.082	0.220	-0.654	2.159	0.908
550S125-33	0.034	0.279	0.95	1.139	2.019	0.041	0.382	1.111	0.335	6.62	699	3.012	0.112	0.242	-0.651	2.156	0.909
600S125-18¹	0.018	0.162	0.55	0.778	2.189	0.024	0.382						0.019	0.169	-0.637	2.312	0.924
600S125-27¹	0.028	0.243	0.83	1.160	2.183	0.035	0.377	1.097	0.271	5.35	349	3.479	0.065	0.247	-0.628	2.303	0.926
600S125-30	0.031	0.268	0.91	1.275	2.181	0.038	0.376	1.218	0.315	6.22	468	3.405	0.087	0.270	-0.625	2.300	0.926
600S125-33	0.034	0.297	1.01	1.409	2.179	0.042	0.374	1.361	0.369	7.30	638	3.326	0.118	0.296	-0.622	2.297	0.927

COMPOSITE DRYWALL LIMITING HEIGHTS*

Part#	Web in, (1/100in.)	GA. in., (Mils)	5 PSF Interior Wind Load — 1/2" Layer Gypsum Board Each Side						7.5 PSF Interior Wind Load — 1/2" Layer Gypsum Board Each Side						10 PSF Interior Wind Load — 1/2" Layer Gypsum Board Each Side					
			16" O.C.			24" O.C.			16" O.C.			24" O.C.			16" O.C.			24" O.C.		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	1-5/8", (162)	25, (18)	10' 7"	8' 4"	–	9' 9" f	7' 11"	–	8' 10" f	–	–	8' 0" f	–	–	8' 4"	–	–	–	–	–
162S125-27		22, (27)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
162S125-30		20, (30)*	11' 9"	9' 4"	–	10' 9"	8' 7"	–	–	–	–	–	–	–	–	–	–	–	–	–
162S125-33		20, (33)	12' 1"	9' 8"	8' 5"	11' 0"	8' 9"	7' 8"	10' 7"	8' 5"	–	9' 7"	7' 8"		9' 8"	–	–	8' 9"	–	–
250S125-18	2-1/2", (250)	25, (18)	13' 3" f	11' 3"	9' 10"	11' 10" f	10' 7"	9' 3"	10' 10" f	9' 10"	8' 7"	9' 8" f	9' 3"	8' 1"	9' 5" f	8' 11"	–	8' 5" f	8' 5"	–
250S125-27		22, (27)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
250S125-30		20, (30)*	15' 9"	12' 6"	10' 10"	14' 2"	11' 4"	9' 10"	–	–	–	–	–	–	–	–	–	–	–	–
250S125-33		20, (33)	16' 5"	12' 10"	11' 2"	14' 10"	11' 7"	10' 0"	14' 4"	11' 2"	9' 8"	13" 0'	10' 0"	8' 7"	12' 10"	10' 0"	8' 8"	11' 7"	8' 11"	7' 8"
362S125-18	3-5/8", (362)	25, (18)	15' 4" f	14' 4"	12' 4"	13' 9" f	13' 5"	11' 7"	12' 5" f	12' 5"	10' 10"	11 0" f	11 0" f	10' 1"	10' 9" f	10' 9" f	9' 9"	9' 5" f	9' 5" f	9' 1"
362S125-27		22, (27)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
362S125-30		20, (30)*	19' 7"	16' 0"	13' 10"	17' 6"	14' 6"	12' 6"	–	–	–	–	–	–	–	–	–	–	–	–
362S125-33		20, (33)	20' 8"	16' 5"	14' 3"	18' 6"	14' 9"	12' 9"	18' 1"	14' 3"	12' 6"	16' 2"	12' 9"	11' 2"	16' 5"	12' 11"	11' 4"	14' 9"	11' 7"	10' 1"
400S125-18	4", (400)	25, (18)	17' 2" f	15' 4"	13' 4"	15' 1" f	14' 2"	12' 4"	13' 10" f	13' 4"	11' 8"	12' 1" f	12' 1" f	10' 9"	11' 11" f	11' 11" f	10' 6"	10' 5" f	10' 5" f	9' 9"
400S125-27		22, (27)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
400S125-30		20, (30)*	21' 10"	17' 8"	15' 4"	19' 7"	15' 11"	13' 10"	–	–	–	–	–	–	–	–	–	–	–	–
400S125-33		20, (33)	23' 1"	18' 4"	15' 11"	20' 9"	16' 5"	14' 3"	22' 2"	15' 11"	13' 9"	18' 1"	14' 3"	12' 4"	18' 4"	14' 5"	12' 6"	16' 5"	12' 10"	11' 2"
600S125-18	6", (600)	25, (18)	19' 9" f	17' 11"	16' 9" f	16' 9" f	16' 9" f	–	16' 2" f	16' 2" f	15' 7"	13' 5" f	13' 5" f	13' 5" f	14' 0" f	14' 0" f	13' 10"	11' 5" f	11' 5" f	11' 5" f
600S125-27		22, (27)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
600S125-30		20, (30)*	28' 7"	23' 6"	20' 7"	25' 1"	20' 7"	18' 4"	–	–	–	–	–	–	–	–	–	–	–	–
600S125-33		20, (33)	30' 10"	24' 6"	21' 4"	27' 2"	21' 7"	18' 10"	27' 0"	21' 4"	18' 9"	23' 10"	18' 10"	16' 7"	24' 6"	19' 5"	17' 0"	19' 1" s	17' 2"	15' 0"

***BASED ON AISI 2001 CODE**

Foot Notes:

D- Distance between the centroid of the section and the web center.
Ix- Moment of inertia for deflection about the x-axis.
Sx- Section modulus for load about the x-axis.
Ma- Allowable resisting moment. Listed values incorporate the effects of cold forming as allowed per section A7.2 of the 2001 A.I.S.I. "Specification for Design of Cold Formed Steel Structural Members."

Notes for the Limiting Heights Table:

1. To attain values listed, attachment of drywall stud to runner track with (1) type S drywall screwed to each side, top and bottom, is required. If facing material is not applied to both sides of the framing then horizontal bridging is required. The spacing of this bridging shall not exceed 5'0" O.C.

2. Calculated values based on 33ksi yield strength.

Note for the Limiting Height With Gypsum Board Table:

Drywall installation shall be in accordance with A.S.T.M. C840- 99a "Application and Finishing of Gypsum Board" The following are thickness for Telling Industries' drywall products:

* Composite values based on interpolation of test data. f: Flexural stress controls allowable wall height. s: Sheer/web crippling controls allowable wall height
1: Web-height to thickness ratio exceeds 200. Web stiffeners required at all support points and concentrated loads.

DRYWALL STUDS

NON-STRUCTURAL LIMITING WALL HEIGHTS*

Section	Fy (ksi)	Spacing (in) oc	5 psf			10 psf			15 psf		
			L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
162S125-18	33	12	8' 11"	8' 7"	7' 6"	6' 4"	6' 4"	5' 11"	5' 2"	5' 2"	5' 2"
162S125-18	33	16	7' 9"	7' 9"	6' 10"	5' 6"	5' 6"	5' 5"	4' 5"	4' 5"	4' 5"
162S125-18	33	24	6' 4"	6' 4"	5' 11"	4' 5"	4' 5"	4' 5"	3' 8" e	3' 8" e	3' 8" e
162S125-27	33	12	11' 9"	10' 1"	8' 9"	8' 4"	8' 0"	6' 11"	6' 9"	6' 9"	6' 1"
162S125-27	33	16	10' 2"	9' 1"	8' 0"	7' 2"	7' 2"	6' 4"	5' 10"	5' 10"	5' 6"
162S125-27	33	24	8' 4"	8' 0"	6' 11"	5' 10"	5' 10"	5' 6"	4' 9"	4' 9"	4' 9"
162S125-30	33	12	12' 7"	10' 4"	9' 1"	8' 10"	8' 3"	7' 2"	7' 3"	7' 2"	6' 3"
162S125-30	33	16	10' 10"	9' 5"	8' 3"	7' 8"	7' 5"	6' 6"	6' 3"	6' 3"	5' 8"
162S125-30	33	24	8' 10"	8' 3"	7' 2"	6' 3"	6' 3"	5' 8"	5' 1"	5' 1"	4' 11"
162S125-33	33	12	13' 6"	10' 8"	9' 4"	9' 6"	8' 6"	7' 5"	7' 9"	7' 5"	6' 6"
162S125-33	33	16	11' 8"	9' 9"	8' 6"	8' 3"	7' 8"	6' 9"	6' 9"	6' 9"	5' 10"
162S125-33	33	24	9' 6"	8' 6"	7' 5"	6' 9"	6' 9"	5' 10"	5' 6"	5' 6"	5' 1"
250S125-18	33	12	12' 6"	11' 10"	10' 4"	8' 10"	8' 10"	8' 2"	7' 2" e	7' 2" e	7' 2" e
250S125-18	33	16	10' 10"	10' 9"	9' 5"	7' 7"	7' 7"	7' 5"	6' 3" e	6' 3" e	6' 3" e
250S125-18	33	24	8' 10"	8' 10"	8' 2"	6' 3" e	6' 3" e	6' 3" e	5' 1" e	5' 1" e	5' 1" e
250S125-27	33	12	16' 0"	13' 11"	12' 2"	11' 3"	11' 0"	9' 7"	9' 2"	9' 2"	8' 5"
250S125-27	33	16	13' 10"	12' 7"	11' 0"	9' 9"	9' 9"	8' 9"	8' 0"	8' 0"	7' 8"
250S125-27	33	24	11' 3"	11' 0"	9' 7"	8' 0"	8' 0"	7' 8"	6' 6"	6' 6"	6' 6"
250S125-30	33	12	17' 0"	14' 4"	12' 6"	12' 0"	11' 4"	9' 11"	9' 9"	9' 9"	8' 8"
250S125-30	33	16	14' 8"	13' 0"	11' 4"	10' 5"	10' 4"	9' 0"	8' 6"	8' 6"	7' 10"
250S125-30	33	24	12' 0"	11' 4"	9' 11"	8' 6"	8' 6"	7' 10"	6' 11"	6' 11"	6' 10"
250S125-33	33	12	18' 2"	14' 10"	12' 11"	12' 10"	11' 9"	10' 3"	10' 5"	10' 3"	9' 0"
250S125-33	33	16	15' 8"	13' 6"	11' 9"	11' 1"	10' 8"	9' 4"	9' 1"	9' 1"	8' 2"
250S125-33	33	24	12' 10"	11' 9"	10' 3"	9' 1"	9' 1"	8' 2"	7' 5"	7' 5"	7' 1"
350S125-18	33	12	13' 9"	13' 9"	13' 7"	9' 8"	9' 8"	9' 8"	7' 11" e	7' 11" e	7' 11" e
350S125-18	33	16	11' 11"	11' 11"	11' 11"	8' 5" e	8' 5" e	8' 5" e	6' 10" e	6' 10" e	6' 10" e
350S125-18	33	24	9' 8"	9' 8"	9' 8"	6' 10" e	6' 10" e	6' 10" e	5' 7" e	5' 7" e	5' 7" e
350S125-27	33	12	18' 6"	18' 0"	15' 9"	13' 1"	13' 1"	12' 6"	10' 8"	10' 8"	10' 8"
350S125-27	33	16	16' 0"	16' 0"	14' 4"	11' 4"	11' 4"	11' 4"	9' 3"	9' 3"	9' 3"
350S125-27	33	24	13' 1"	13' 1"	12' 6"	9' 3"	9' 3"	9' 3"	7' 6" e	7' 6" e	7' 6" e
350S125-30	33	12	19' 10"	18' 7"	16' 3"	14' 0"	14' 0"	12' 11"	11' 5"	11' 5"	11' 3"
350S125-30	33	16	17' 2"	16' 11"	14' 9"	12' 2"	12' 2"	11' 8"	9' 11"	9' 11"	9' 11"
350S125-30	33	24	14' 0"	14' 0"	12' 11"	9' 11"	9' 11"	9' 11"	8' 1"	8' 1"	8' 1"
350S125-33	33	12	21' 5"	19' 3"	16' 10"	15' 2"	15' 2"	13' 4"	12' 4"	12' 4"	11' 8"
350S125-33	33	16	18' 6"	17' 6"	15' 3"	13' 1"	13' 1"	12' 1"	10' 8"	10' 8"	10' 7"
350S125-33	33	24	15' 2"	15' 2"	13' 4"	10' 8"	10' 8"	10' 7"	8' 9"	8' 9"	8' 9"
362S125-18	33	12	14' 0"	14' 0"	14' 0"	9' 11" e	9' 11" e	9' 11" e	8' 1" e	8' 1" e	8' 1" e
362S125-18	33	16	12' 1"	12' 1"	12' 1"	8' 7" e	8' 7" e	8' 7" e	7' 0" e	7' 0" e	7' 0" e
362S125-18	33	24	9' 11" e	9' 11" e	9' 11" e	7' 0" e	7' 0" e	7' 0" e	5' 8" e	5' 8" e	5' 8" e
362S125-27	33	12	18' 10"	18' 6"	16' 2"	13' 4"	13' 4"	12' 10"	10' 10"	10' 10"	10' 10"
362S125-27	33	16	16' 4"	16' 4"	14' 8"	11' 6"	11' 6"	11' 6"	9' 5"	9' 5"	9' 5"
362S125-27	33	24	13' 4"	13' 4"	12' 10"	9' 5"	9' 5"	9' 5"	7' 8" e	7' 8" e	7' 8" e
362S125-30	33	12	20' 3"	19' 1"	16' 8"	14' 4"	14' 4"	13' 3"	11' 8"	11' 8"	11' 7"
362S125-30	33	16	17' 6"	17' 4"	15' 2"	12' 4"	12' 4"	12' 0"	10' 1"	10' 1"	10' 1"
362S125-30	33	24	14' 4"	14' 4"	13' 3"	10' 1"	10' 1"	10' 1"	8' 3"	8' 3"	8' 3"
362S125-33	33	12	21' 10"	19' 9"	17' 3"	15' 5"	15' 5"	13' 8"	12' 7"	12' 7"	12' 0"
362S125-33	33	16	18' 11"	18' 0"	15' 8"	13' 4"	13' 4"	12' 5"	10' 11"	10' 11"	10' 10"
362S125-33	33	24	15' 5"	15' 5"	13' 8"	10' 11"	10' 11"	10' 10"	8' 11"	8' 11"	8' 11"
400S125-18	33	12	14' 9" e	14' 9" e	14' 9" e	10' 5" e	10' 5" e	10' 5" e	8' 6" e	8' 6" e	8' 6" e
400S125-18	33	16	12' 9" e	12' 9" e	12' 9" e	9' 0" e	9' 0" e	9' 0" e	7' 4" e	7' 4" e	7' 4" e
400S125-18	33	24	10' 5" e	10' 5" e	10' 5" e	7' 4" e	7' 4" e	7' 4" e	6' 0" e	6' 0" e	6' 0" e
400S125-27	33	12	19' 10"	19' 10"	17' 6"	14' 0"	14' 0"	13' 10"	11' 5"	11' 5"	11' 5"
400S125-27	33	16	17' 2"	17' 2"	15' 11"	12' 2"	12' 2"	12' 2"	9' 11"	9' 11"	9' 11"
400S125-27	33	24	14' 0"	14' 0"	13' 10"	9' 11"	9' 11"	9' 11"	8' 1" e	8' 1" e	8' 1" e
400S125-30	33	12	21' 4"	20' 8"	18' 1"	15' 1"	15' 1"	14' 4"	12' 4"	12' 4"	12' 4"
400S125-30	33	16	18' 6"	18' 6"	16' 5"	13' 1"	13' 1"	13' 0"	10' 8"	10' 8"	10' 8"
400S125-30	33	24	15' 1"	15' 1"	14' 4"	10' 8"	10' 8"	10' 8"	8' 8"	8' 8"	8' 8"
400S125-33	33	12	23' 1"	21' 4"	18' 8"	16' 4"	16' 4"	14' 10"	13' 4"	13' 4"	12' 11"
400S125-33	33	16	20' 0"	19' 5"	16' 11"	14' 1"	14' 1"	13' 5"	11' 6"	11' 6"	11' 6"
400S125-33	33	24	16' 4"	16' 4"	14' 10"	11' 6"	11' 6"	11' 6"	9' 5"	9' 5"	9' 5"
550S125-27	33	12	25' 5"	25' 5"	22' 4"	18' 0"	18' 0"	17' 9"	14' 8" e	14' 8" e	14' 8" e
550S125-27	33	16	22' 0"	22' 0"	20' 4"	15' 7" e	15' 7" e	15' 7" e	12' 8" e	12' 8" e	12' 8" e
550S125-27	33	24	18' 0"	18' 0"	17' 9"	12' 8" e	12' 8" e	12' 8" e	10' 4" e	10' 4" e	10' 4" e
550S125-30	33	12	27' 5"	26' 6"	23' 2"	19' 4"	19' 4"	18' 4"	15' 10"	15' 10"	15' 10"
550S125-30	33	16	23' 9"	23' 9"	21' 0"	16' 9"	16' 9"	16' 8"	13' 8" e	13' 8" e	13' 8" e
550S125-30	33	24	19' 4"	19' 4"	18' 4"	13' 8" e	13' 8" e	13' 8" e	11' 2" e	11' 2" e	11' 2" e
550S125-33	33	12	29' 8"	27' 6"	24' 0"	21' 0"	21' 0"	19' 0"	17' 1"	17' 1"	16' 7"
550S125-33	33	16	25' 8"	24' 11"	21' 9"	18' 2"	18' 2"	17' 3"	14' 10"	14' 10"	14' 10"
550S125-33	33	24	21' 0"	21' 0"	19' 0"	14' 10"	14' 10"	14' 10"	12' 1" e	12' 1" e	12' 1" e
600S125-27	33	12	26' 8" e	26' 8" e	23' 11" e	18' 10" e	18' 10" e	18' 10" e	15' 5" e	15' 5" e	15' 5" e
600S125-27	33	16	23' 1" e	23' 1" e	21' 8" e	16' 4" e	16' 4" e	16' 4" e	13' 4" e	13' 4" e	13' 4" e
600S125-27	33	24	18' 10" e	18' 10" e	18' 10" e	13' 4" e	13' 4" e	13' 4" e	10' 10" e	10' 10" e	10' 10" e
600S125-30	33	12	28' 9"	28' 4"	24' 9"	20' 4"	20' 4"	19' 7"	16' 7" e	16' 7" e	16' 7" e
600S125-30	33	16	24' 11"	24' 11"	22' 6"	17' 7"	17' 7"	17' 7"	14' 4" e	14' 4" e	14' 4" e
600S125-30	33	24	20' 4"	20' 4"	19' 7"	14' 4" e	14' 4" e	14' 4" e	11' 9" e	11' 9" e	11' 9" e
600S125-33	33	12	31' 2"	29' 5"	25' 8"	22' 0"	22' 0"	20' 4"	18' 0"	18' 0"	17' 9"
600S125-33	33	16	27' 0"	26' 8"	23' 4"	19' 1"	19' 1"	18' 6"	15' 7" e	15' 7" e	15' 7" e
600S125-33	33	24	22' 0"	22' 0"	20' 4"	15' 7" e	15' 7" e	15' 7" e	12' 8" e	12' 8" e	12' 8" e

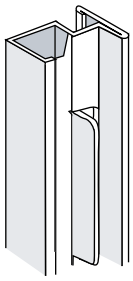
***BASED ON AISI 2004 CODE**

Notes

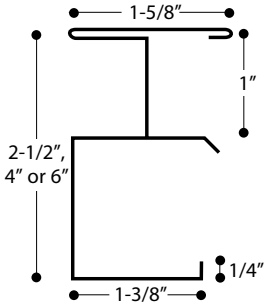
1. Lateral loads have not been modified for strength checks.
2. Lateral loads have been multiplied by 0.7 for deflection determination.
3. Limiting heights based on continuous support of each flange over the full length of the stud.
4. Limiting heights are based on steel properties only (non-composite).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

SHAFTWALL FRAMING

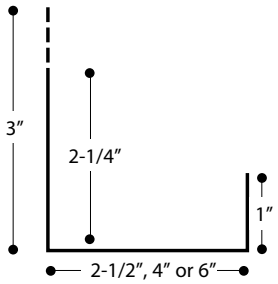
C-T Stud Detail



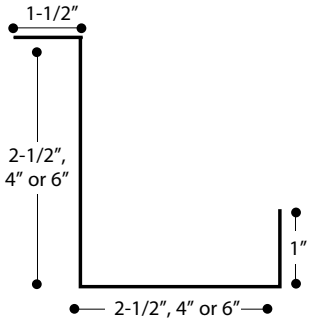
C-T Stud



J Track



J-L Corner



RECOMMENDATIONS

- Use a fastening plate to secure the J track whenever fasteners are closer than 4″ to the edge. Setting the plate at the time of concrete construction will avoid spalling by mechanical fasteners.
- Cut C-T, C-H or I studs 3/4″ less than the height of the opening.
- Cut 1″ DensGlass Ultra® Shaftliner panel 3/4″ less than the height of the opening.
- In structural steel-frame construction, install J track sections before applying spray-on fireproofing.
- Items to be anchored to the wall (cabinets, sinks, handrails, etc.) should be fastened to the C-T, C-H or I studs or to plates secured behind or between layers of 1/2″ ToughRock® Fireguard® C gypsum board. (See illustration on page 12.)
- Joint compounds should be applied at ambient temperatures above 50°F (10°C) with adequate ventilation.
- Use Type S screws for 25-gauge steel framing. Use Type S-12 screws for 20-gauge (or heavier) steel framing.
- It is important that the job structural engineer approves the type, size and maximum spacing of track fasteners to meet the design load requirements.

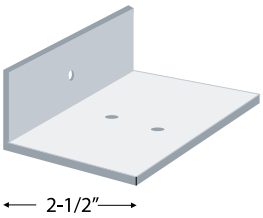
See page 8 for Shaftwall Framing Properties and Limiting Heights

AREA SEPARATION WALL FRAMING

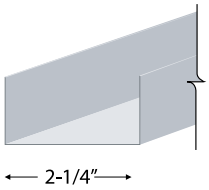
FIRE TESTING AND BUILDING CODE COMPLIANCE

The Georgia-Pacific Gypsum Area Separation Wall has been fire tested to ASTM E 119 and CAN/ULC S-101. The Georgia-Pacific Gypsum 2-hour fire-rated Area Separation Wall assembly, constructed using DensGlass Ultra Shaftliner panels, is listed by Underwriters Laboratory (UL), Underwriters Laboratories of Canada (ULC) and Warnock Hersey International (WHI/ITS) and meets the requirements of the 2006 International Building Code (IBC) Section 705 "Party Walls", and Section 705, "Fire Walls". The Georgia-Pacific Gypsum Area Separation Wall assembly is listed in the UL Fire Resistance Directory under UL Design U 373, the ULC Fire Resistance Directory ULC Design No. W 312 and the WHI Fire Resistance Directory under WHI GP/WA 120-04. For copies of these listings, please contact Georgia-Pacific Gypsum Technical Services at 1-800-225-6119.

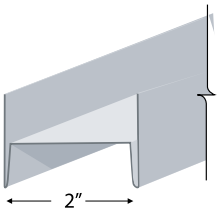
Aluminum Angle Clip



C-Track, Cap, Edge or End Closure



H-Stud, 25-Gauge



Georgia-Pacific
DensGlass Ultra®
Shaftliner

SHAFTWALL FRAMING

MAXIMUM HORIZONTAL SPANS

When used as a horizontal membrane, the stud length should not exceed those in the following table.

C-T Stud	Nominal Gauge	Series 623/624/627 2-Hour L/240	L/360
2-1/2″	25	8′ - 1″	7′ - 1″
2-1/2″	20	9′ - 8″	8′ - 5″
4″	25	11′ - 6″	10′ - 0″
4″	20	13′ - 7″	11′ - 10″
6″	25	15′ - 7″	13′ - 7″
6″	20	18′ - 6″	16′ - 2″

Span calculations based on stud properties. Use 20-gauge J track.

MAXIMUM SECTION PROPERTIES

Based on AISI Specifications for the Design of Cold-Formed Steel Structural Members.

C-T Stud Size	T	W	A	Ix	Sx(C)	Sx(T)
2-1/2″-25 gauge	0.0179	0.470	0.118	0.132	0.095	0.118
2-1/2″-20 gauge	0.0329	0.820	0.218	0.242	0.175	0.217
4″-25 gauge	0.0179	0.580	0.145	0.374	0.171	0.207
4″-20 gauge	0.0329	1.020	0.267	0.687	0.341	0.380
6″-25 gauge	0.0179	0.715	0.181	0.957	0.299	0.347
6″-20 gauge	0.0329	1.260	0.333	1.759	0.543	0.637

T = Minimum Uncoated Base Steel Thickness (inches)
W = Weight (pounds per linear foot)
A = Sectional Area (inches2)
Ix = Moment of Inertia (inches4)
Sx(C) = Section Modulus 'C' flange (inches3)
Sx(T) = Section Modulus 'T' flange (inches3)

SHAFTWALL LIMITING HEIGHTS FOR 1-, 2- AND 3-HOUR SYSTEMS

C-T Stud Depth	Stud & Track Gauge	Design Deflection Limit	Uniform Load (PSF) For 1-hr.* 5	7.5	10	15	For 2- to 3-hr.** 5	7.5	10	15
2.5″	25	L/120	14′ - 2″	12′ - 5″	11 - 3″	9′ - 4″	15′ - 6″	13′ - 3″	11′ - 6″	9′ - 5″
		L/180	12′ - 5″	10′ -10″	9′ -10″	8′ - 7″	13′ - 7″	11′ -10″	10′ - 9″	9′ - 5″
		L/240	11′ - 3″	9′ -10″	8′ -11″	7′ -10″	12′ - 4″	10′ - 9″	9′ - 9″	8′ - 6″
		L/360	9′ -10″	8′ - 7″	7′ -10″	6′ -10″	10′ - 9″	9′ - 5″	8′ - 6″	7′ - 6″
2.5″	20	L/120	15′ -10″	13′ -10″	12′ - 6″	10′ -11″	17′ - 4″	15′ - 1″	13′ - 9″	12′ - 0″
		L/180	13′ -10″	12′ - 1″	10′ -11″	9′ - 7″	15′ - 1″	13′ - 2″	12′ - 0″	10′ - 6″
		L/240	12′ - 6″	10′ -11″	9′ -11″	8′ - 8″	13′ - 9″	12′ - 0″	10′ -11″	9′ - 6″
		L/360	10′ -11″	9′ - 7″	8′ - 8″	7′ - 7″	12′ - 0″	10′ - 6″	9′ - 6″	8′ - 4″
4″	25	L/120	19′ - 1″	15′ -11″	13′ -10″	11′ - 3″	19′ - 7″	15′ -11″	13′ -10″	11′ - 3″
		L/180	16′ - 8″	14′ - 6″	13′ - 2″	11′ - 3″	18′ - 3″	15′-11″	13′ -10″	11′ - 3″
		L/240	15′ - 1″	13′ - 2″	12′ - 0″	10′ - 6″	16′ - 7″	14′ - 5″	13′ - 2″	11′ - 3″
		L/360	13′ - 2″	11′ - 6″	10′ - 6″	9′ - 2″	14′ - 5″	12′ - 8″	11′ - 6″	11′ - 3″
4″	20	L/120	21′ - 8″	18′ -11″	17′ - 2″	15′ - 0″	23′ - 8″	20′ - 8″	18′ - 9″	15′ - 6″
		L/180	18′ -11″	16′ - 6″	15′ - 0″	13′ - 1″	20′ - 8″	18′ - 1″	16′ - 5″	14′ - 4″
		L/240	17′ - 2″	15′ - 0″	13′ - 8″	11′ -11″	18′ - 9″	16′ - 5″	14′ -11″	13′ - 0″
		L/360	15′ - 0″	13′ - 1″	11′ -11″	10′ - 5″	16′ - 5″	14′ - 4″	13′ - 0″	11′ - 5″
6″	25	L/120	22′ - 7″	18′ - 9″	16′ - 3″	12′ - 0″	22′ -11″	18′ - 9″	16′ - 3″	12′ - 0″
		L/180	19′ - 9″	17′ - 3″	15′ - 8″	12′ - 0″	21′ - 8″	18′ - 9″	16′ - 3″	12′ - 0″
		L/240	17′ -11″	15′ - 8″	14′ - 3″	12′ - 0″	19′ - 8″	17′ - 2″	15′ - 7″	12′ - 0″
		L/360	15′ - 8″	13′ - 8″	12′ - 5″	10′ -10″	17′ - 2″	15′ - 0″	13′ - 8″	11′ -11″
6″	20	L/120	27′ - 4″	23′ -11″	21′ - 8″	19′ - 0″	30′ - 0″	26′ - 2″	23′ - 7″	19′ - 3″
		L/180	23′ -11″	21′ -11″	19′ - 0″	16′ - 7″	26′ - 2″	22′ -11″	20′ - 9″	18′ - 2″
		L/240	21′ - 8″	19′ - 0″	17′ - 3″	15′ - 1″	23′ - 9″	20′ - 9″	18′ -11″	16′ - 6″
		L/360	19′ - 0″	16′ - 7″	15′ - 1″	13′ - 2″	20′ - 9″	18′ - 2″	16′ - 6″	14′ - 5″

* 1-Hr. Rated Series 622 ** 2-Hr. Rated Series 620 or 621 & 3-Hr. Rated Series 630 or 631.

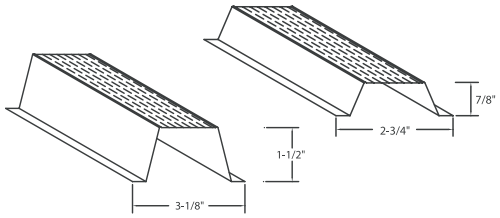
Test Ref: WHI-495-TRL-0206/0225, issued August 4, 1995. C-T studs and J track are same gauge. Based on deflection limits with adjustment to conform to a minimum safety factor of 1.5 for ultimate bending strength and end reaction.

WHI = Warnock Hersey International Testing Laboratory

Georgia-Pacific
DensGlass Ultra®
Shaftliner

DRYWALL FRAMING ACCESSORIES

(DWFC) Drywall Furring Channel

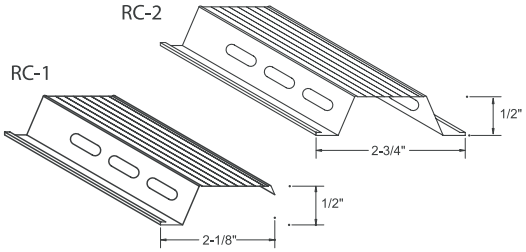


Product Data:
- Available in 7/8" and 1-1/2" sizes.
- Gauge: Standard 25 through 16 gauges.
- Lengths: 12' 0" Stock Length, (other lengths available).
- Consult Telling Industries' Light Gage Structural Framing & Accessories brochure for structural properties and span tables

Uses:
- Convenient accessory components for use in furring out ceilings and masonry walls. Knurled face prevents screw "ride" when attaching gypsum wallboard.
- 1-1/2" DWFC is economical with respect to furring walls with electrical boxes, (no need to set into concrete).

Section	Design Fy (ksi)	Design Thickness (in)	Area (in^2)	Weight (lb/ft)	Gross Properties Ix (in^4)	Rx (in)	Iy (in^4)	Ry (in)	Effective Properties Ix (in^4)	Sx (in^3)	Ma (Ft-lb)
087F125-18	33	0.018	0.070	0.239	0.009	0.356	0.035	0.710	0.009	0.016	26.41
087F125-30	33	0.031	0.115	0.391	0.014	0.353	0.058	0.710	0.014	0.031	50.47
087F125-43	33	0.045	0.162	0.550	0.020	0.348	0.082	0.711	0.020	0.042	69.17
087F125-54	50	0.056	0.197	0.669	0.023	0.345	0.099	0.711	0.023	0.050	124.92
150F125-18	33	0.018	0.094	0.320	0.031	0.575	0.047	0.705	0.030	0.034	56.59
150F125-30	33	0.031	0.154	0.525	0.050	0.571	0.077	0.705	0.050	0.064	105.25
150F125-43	33	0.045	0.219	0.745	0.070	0.565	0.109	0.705	0.070	0.089	146.25
150F125-54	50	0.056	0.269	0.914	0.084	0.561	0.134	0.705	0.084	0.107	267.22

(RC) Resilient Furring Channel

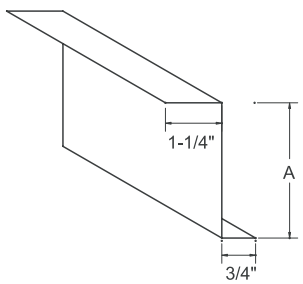


Product Data:
- RC-1: Single Leg • RC-2: Double Leg
- Gauge: Standard 25 gage conforming to ASTM A-653 and C-645.
- Lengths: 12' 0" stock length
- RC-1: Screw attachment, one side only.
- RC-2: Screw attachment, both sides.

Uses:
- Used as cross furring members for resilient attachment of gypsum wallboard or lath on ceilings and partitions.
- Decreases sound transmission through wall partitions and ceilings.

Product	Length	Wt./Ft.	Pcs./Ctn.	Ft./Ctn.
RC-1	12'	0.20	40	480
RC-2	12'	0.24	40	480

(ZFC) Z-Furring Channel



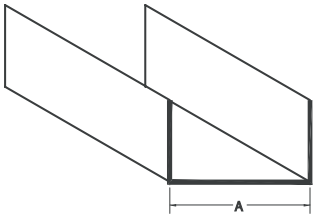
Product Data:
- Available in hot-dipped galvanized steel conforming to ASTM A-653 and C-645.
- Gauges: Standard 25 gauge, (available in 20, 18, and 16 gauge upon request).
- Lengths: Standard 10' 0" and 8' 6" lengths, (other lengths available upon request).

Uses:
- Designed to accommodate the installation of rigid insulation board while pro viding an attachment for drywall or other facing materials to the interior side of masonry or monolithic concrete walls.

Product	(A) in. Size	25 Ga. Wt./Ft.
Z-100	1.00	0.195
Z-150	1.50	0.225
Z-200	2.00	0.260

DRYWALL FRAMING ACCESSORIES

(CRC) Cold-Rolled Channel



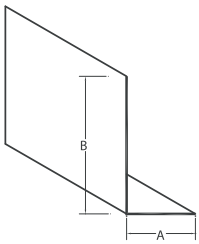
Product Data:
- Available in galvanized steel meeting ASTM A-568 or hot-dipped galvanized steel meeting ASTM A-653, G60.
- Lengths: 16′ stock length. (Other lengths available)

Uses:
- Bridging, (lateral support) in walls carrying axial and/or wind loads.
- Bracing studs at door bucks and furring for ceilings.
- Used in conjunction with metal lath and plaster in partitions, ceilings, column and beam enclosures, etc.

Section	Design Thickness (in)	Gross Area (in2)	Weight (lb/ft)	Ix (in4)	Rx (in)	Iy (in4)	Ry (in)	Effective Properties 33 ksi Ix (in4)	Sx (in3)	Ma (in-k)	Va (lb)
75U050-54	0.056	0.087	0.30	0.007	0.288	0.002	0.155	0.007	0.019	0.45	315
150U050-54	0.056	0.129	0.44	0.039	0.547	0.003	0.144	0.039	0.052	1.22	840
200U050-54	0.056	0.157	0.54	0.079	0.709	0.003	0.136	0.079	0.079	1.87	1190
250U050-54	0.056	0.186	0.63	0.139	0.866	0.003	0.128	0.139	0.111	2.64	1540

For span tables consult Telling Industries Light Gage Structural Framing & Accessories brochure.

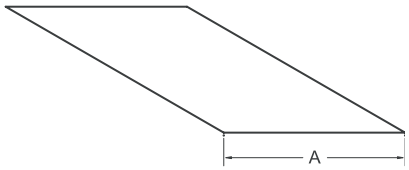
(RA) Rolled Angles



Product Data:
- Stock Sizes and Gauges
- Sizes: 90 degrees, 1 1/2″ and 2″ stock.
- Gauges: 25 and 20 ga. stock
- Lengths: 10′ Standard

Note: Many custom size, gauge, length and angle(degrees) configurations are available upon request.

(FS) Flat Strapping

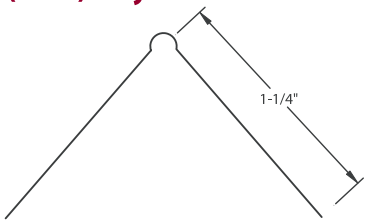


Product Data:
- Designation: FS width and gauge.
- Widths: 2, 4 and 6″ (custom widths and coil available).

Uses:
- Provides tension force resistance in shear wall assemblies.
- Resists racking of prefabricated wall assemblies while handling, transporting, and erecting.

Product	Width (in.)	Gauges	Length
FS	2″, 4″, 6″	25, 22, 20, 18, 16	10′

(DCB) Drywall Corner Bead



Product Data:
- Made of galvanized steel.
- Joint cement adheres easily to knurled flanges and keys into the perforations.
- Exposed nose provides a straight, clean corner definition and guards against damage through impact .

Uses:
- Provides durable protection for drywall external corners.
- Specify hot-dipped for moist or humid conditions.

Product	Size/Depth	Length (ft.)	Pcs./Ctn.	Ft./Ctn.
DCB	1-1/4″ x 1-1/4″	8′, 9′, 10′, 12′	80, 60, 60, 80	640, 540, 600, 960

DRYWALL FRAMING ACCESSORIES

J Bead

L Bead

Product Data:
- Sturdy, channel-type steel casing.
- Joint cement applied to front side.
- L Bead available in both regular and long-leg flange.
- Easily installs to framing or jamb.

Uses:
- Provides maximum protection.
- Adds a finished edge to wallboard at window and door jambs

Product	Size Depth	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
L-50, J-50	1/2" or 5/8"	8', 10'	63, 50 5	04, 500
L-62, J-62	"	"	"	"

Custom lengths and UPC labeling available upon request.

(RT) Reveal Trim

Product Data:
- An economical steel channel.
- No joint cement required.

Uses:
- Provides edge protection around doors and windows or any partition junction openings.

Product	Size Depth	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
RT-50, RT-62	1/2" & 5/8"	8', 10'	63, 50	504, 500

Custom lengths and UPC labeling available upon request.

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093 Expansion Control Joint

Product Data:
- Manufactured from the highest quality pure zinc coil stock for superior corrosion resistance.
- Fits standard 1⁄4" openings.

Uses:
- Product is excellent for interior or exterior applications.

Product	Length(ft.)	Pcs./Ctn.	Ft./Ctn.
093	10'	25	250

TELLING

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