

BRAC – UPGRADE F-15 CIRF

Naval Air Station – Joint Reserve Base · New Orleans, Louisiana

SPECIFICATION/PRODUCT DATA

SECTION 09 22 16

NON-LOAD BEARING STEEL FRAMING

BRAC – UPGRADE F-15 CIRF

Naval Air Station – Joint Reserve Base · New Orleans, Louisiana

SECTION 09 22 16 - NON-LOAD BEARING STEEL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including Division 1 specification sections, prepared by the Government and issued in the Solicitation documents, apply to this section.

1.2 SUMMARY

- A. Scope: The work included in this section of the specifications includes all labor, materials, equipment, and services necessary to furnish and install non-loading-bearing steel framing as required by drawings and as herein specified.
- B. This Section includes non-load-bearing steel framing members for the following applications:
 - 1. Interior framing systems for partition walls.

1.3 LEED PERFORMANCE REQUIREMENTS

- A. Steel products of this section shall contain a minimum of 25% overall recycled content (calculated as combined % post-consumer recycled content and ½% pre-consumer recycled content).
- B. Steel products of this section that are extracted, harvested or recovered, as well as manufactured, from within 500 miles of the project site shall be submitted according to LEED submittal requirements.
- C. Field-applied, interior adhesives and sealants of this section shall not exceed the LEED VOC limits set forth in *Section 01 81 13 LEED Requirements*.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. LEED Submittal:
 - 1. Include completed Sustainable Materials Reporting Form (SMRF) including total material cost (excluding labor and equipment), applicable LEED material performance information and backup documentation from the manufacturer.

PART 2 - PRODUCTS

2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL

- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
 - 1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
 - 2. Protective Coating: ASTM A 653/A 653M, G40 (Z90), hot-dip galvanized, unless otherwise indicated.

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2.2 STEEL FRAMING FOR FRAMED ASSEMBLIES

- A. Steel Studs and Runners: ASTM C 645.
 - 1. Minimum Base-Metal Thickness: 20 ga.
 - 2. Depth: 6" min. or as required for spans indicated on drawings.
- B. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
 - 1. Minimum Base-Metal Thickness: 18 ga.
- C. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
 - 1. Minimum Base Metal Thickness: 0.0179 inch (0.45 mm).
 - 2. Depth: As indicated on Drawings.

2.3 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.
- B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, or similar construction.
- C. Install bracing at terminations in assemblies.
- D. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.3 INSTALLING FRAMED ASSEMBLIES

- A. Install studs so flanges within framing system point in same direction.
 - 1. Space studs as follows: 16 inches o.c.
- B. Install tracks (runners) at top of masonry wall and overhead supports. Extend framing full height to roof deck.

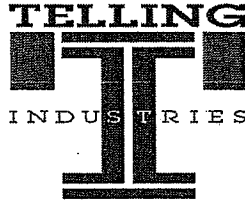
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1. Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.

- C. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

END OF SECTION 09 22 16



October 15, 2009

Commercial Builders Group
Attn: David Souther
235 Jaubert Lane
Laplace, LA 70068

Re: Leeds Information & Requirements – Recycled Content of Light Gauge Steel Framing

Telling Industries produces light gauge steel framing products with a minimum recycled yield content of 48%, of which 67% is post-consumer, 29% pre-consumer, and 4% postindustrial. Telling Industries recycles nearly 100% of our post-industrial scrap. Our recycled content helps qualify your project for LEED Credit MR 4.

Telling Industries is a Member of the United States Green Building Council. To visit their website, go to www.usgbc.org.

With three manufacturing facilities nationwide and our local purchasing of raw materials from right here in the USA, Telling is positioned to service your LEED project. Most projects usually fall within a 500-mile radius of our plant. The proximity of our plant will qualify Telling Industries for LEED Credit MR 5.

If there are any questions or comments, please contact me at your convenience.

Sincerely,

Lauren Cuyler

Territory Manager

Telling Industries

504-710-0585

laurenc@tellingindustries.com

COMPLIANCE IS GUARANTEED

When you use Telling™ Industries, you are using the most up-to-date code compliant framing products available in the World.

2006 International Building Code/2004 AISI-NASPEC

- ICC-ESR 2281
 - ICC-ES Certified
 - Internationally recognized
- Verified by ICC Certified Inspectors at all facilities
 - Cambridge, Ohio
 - Osceola, Arkansas
 - Kingman, Arizona



ASTM International

Telling meets or exceeds all applicable ASTM Framing Standards.

- A 1003-05
 - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members
- A 653-07
 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - *Note: even though A 653-07 does allow for the use of Galvannealed, Telling™ DOES NOT supply Galvannealed steel.*
- C 645-07
 - Standard Specification for Nonstructural Steel Framing Members
- C 754-04
 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products
- C 955-06
 - Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases
- C 1007-04
 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories

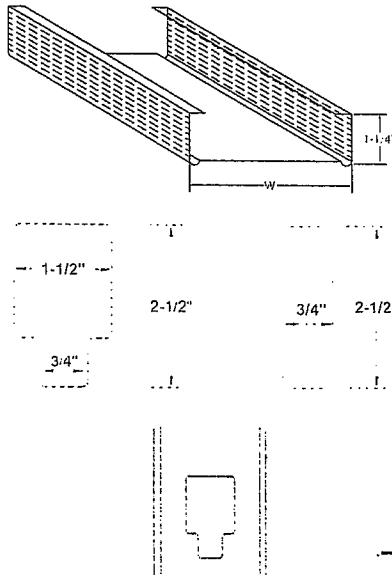
Industry Affiliations

- SSMA: Telling is an active member of The Steel Stud Manufacturers Association
- Participating in the SSMA Certification Program which begins for all members in 2009
- USGBC: Telling is an active Member of The United States Green Building Council
- Many More: SFA, AWCI, AISI, ASTM and LGSEA



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	Depth Thickness (in)	Basic Properties						33ksi Effective Properties						Nominal Properties					
		Area (in ²)	Weight (lb/ft)	I_x (in ⁴)	I_y (in ⁴)	J (in ⁶)	r_x (in)	r_y (in)	r_z (in)	S_x (in ³)	S_y (in ³)	S_z (in ³)	V_x (in ³)	V_y (in ³)	V_z (in ³)	J (in ⁶)	C_x (in)	C_y (in)	C_z (in)
162S125-18	0.018	0.080	0.27	0.038	0.686	0.016	0.447	0.034	0.031	0.81	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	190	2.175	0.014	0.043	-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		
400S125-18	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	916	2.252	0.091	0.115	-0.757	1.752	0.813		
550S125-18	0.018	0.153	0.52	0.630	2.029	0.023	0.390	-	-	-	-	-	0.018	0.138	-0.666	2.171	0.905		
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	0.896	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		
600S125-18	0.018	0.162	0.55	0.778	2.189	0.024	0.382	-	-	-	-	-	0.019	0.169	-0.637	2.312	0.924		
600S125-27	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/100ins)	GA (in/100ins)	5 PSF Interior Wind Load				7.5 PSF Interior Wind Load				10 PSF Interior Wind Load						
			1/2" Layer Gypsum Board Each Side				1/2" Layer Gypsum Board Each Side				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.	16" O.C.	24" O.C.	16" O.C.	24" O.C.	16" O.C.	24" O.C.			
162S125-18	1-5/8", (162)	25, (18)	10' 7"	8' 4"	-	9' 9"	7' 11"	-	8' 10"	-	-	8' 0"	-	-	8' 4"	-	-
162S125-27	25, (18)	22, (27)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
162S125-30	20, (30)	20, (30)	11' 9"	9' 4"	-	10' 9"	8' 7"	-	-	-	-	-	-	-	-	-	-
162S125-33	20, (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"	11' 3"	9' 10"	11' 10"	10' 7"	9' 3"	10' 10"	9' 10"	8' 7"	9' 7"	7' 8"	-	9' 5"	8' 11"	8' 5"
250S125-27	22, (27)	20, (30)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250S125-30	20, (30)	20, (30)	15' 9"	12' 6"	10' 10"	14' 2"	11' 4"	9' 10"	-	-	-	-	-	-	-	-	-
250S125-33	20, (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"
362S125-18	3-5/8", (362)	25, (18)	15' 4"	14' 4"	12' 4"	13' 9"	13' 5"	11' 7"	12' 5"	12' 5"	10' 10"	11' 0"	11' 0"	10' 1"	10' 9"	10' 9"	9' 9"
362S125-27	22, (27)	20, (30)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362S125-30	20, (30)	20, (30)	19' 7"	16' 0"	13' 10"	17' 6"	14' 6"	12' 6"	-	-	-	-	-	-	-	-	-
362S125-33	20, (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"
400S125-18	4", (400)	25, (18)	17' 2"	15' 4"	13' 4"	15' 1"	14' 2"	12' 4"	13' 10"	13' 4"	11' 8"	12' 11"	12' 11"	10' 9"	11' 11"	11' 11"	10' 6"
400S125-27	22, (27)	20, (30)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400S125-30	20, (30)	20, (30)	21' 10"	17' 8"	15' 4"	19' 7"	15' 11"	13' 10"	-	-	-	-	-	-	-	-	-
400S125-33	20, (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"
600S125-18	6", (600)	25, (18)	19' 9"	17' 11"	16' 9"	16' 9"	16' 9"	-	16' 2"	16' 2"	15' 7"	13' 5"	13' 5"	13' 5"	14' 0"	14' 0"	13' 10"
600S125-27	22, (27)	20, (30)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
600S125-30	20, (30)	20, (30)	28' 7"	23' 6"	20' 7"	25' 1"	20' 7"	18' 4"	-	-	-	-	-	-	-	-	-
600S125-33	20, (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"

*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 screws 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 allowal. 1: Web-height to thickness ratio exceeds 200. Web stiffeners required at all support points and concentrated loads.

PROJ NAME#:	CIRF 15 & Hush House
CONTRACT #:	N69450-07-C-0062-0003
BRM PROJ #:	3021-70 F-15 CIRF
SUBMITTAL #:	054000.01.01 20 Ga Metal Stud
REVIEWED	
REVIEWED BY:	Clyde Alcon
DATE:	October 21, 2009

DRYWALL TRACK

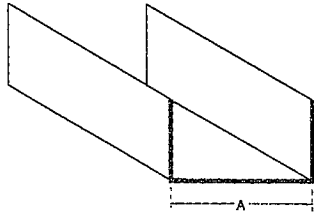
Telling Industries track is used to anchor the partition at the ceiling and floor. Tracks are roll-formed steel in a channel configuration with hemmed or unhemmed legs in 1-1/4" depths. Sections are manufactured to receive the corresponding size of the studs with an overbend for a friction fit. Telling 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

Design Section	Depth Thickness (in)	Area Properties						S.I. Effective Properties						Torsional Properties						
		A _{fl} (in ²)	Weight (lb/ft)	I _x (in ⁴)	I _y (in ⁴)	R _x (in)	R _y (in)	I _x (in ⁴)	I _y (in ⁴)	J (in ⁴)	C _t (in ³)	K _x (in)	K _y (in)	R _c (in)	R _o (in)					
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	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	1.22	0.475	
162T125-33	0.034	0.143	0.49	0.077	0.735	0.024	0.408	0.066	0.058	1.15	663	1.026	0.057	0.013	-0.882	1.219	0.476	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	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	1.431	0.395	
162T150-33	0.034	0.16	0.54	0.09	0.751	0.039	0.494	0.072	0.05	1.19	663	1.07	0.064	0.021	-1.111	1.429	0.395	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	-0.777	1.366	0.679	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	-0.777	1.365	0.679	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	-0.777	1.365	0.68	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	0.588
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	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	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	1.54	0.59	
250T200-18	0.018	0.122	0.42	0.152	1.114	0.053	0.651	-	-	-	-	-	-	-	-	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	0.235	0.76	0.289	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	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	1.5	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	1.599	0.819	
350T125-30	0.031	0.187	0.64	0.385	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	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	1.598	0.820	
350T150-18	0.018	0.142	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	0.288	0.132	2.62	590	2.111	0.049	0.093	-0.88	1.745	0.746	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	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	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	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	2.108	0.048	0.062	-0.67	1.631	0.831	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	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	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	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	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	1.772	0.762	
362T200-18	0.018	0.143	0.49	0.335	1.530	0.090	0.648	-	-	-	-	-	-	-	-	0.017	0.147	-1.29	2.104	0.624
362T200-27	0.028	0.216	0.73	0.508	1.532	0.090	0.648	-	-	-	-	-	-	-	-	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	2.1	0.627	
400T125-18	0.018	0.122	0.42	0.298	1.581	0.017	0.374	-	-	-	-	-	-	-	-	0.014	0.052	-0.65	1.73	0.861
400T125-27	0.028	0.184	0.63	0.449	1.582	0.025	0.372	0.380	0.156	3.08	515	2.306	0.049	0.077	-0.64	1.729	0.862	1.729	0.862	
400T125-30	0.031	0.203	0.69	0.495	1.582	0.028	0.371	0.427	0.176	3.49	689	2.289	0.066	0.085	-0.64	1.729	0.863	1.729	0.863	
400T125-33	0.034	0.225	0.76	0.549	1.583	0.031	0.371	0.484	0.201	3.97	940	2.272	0.090	0.094	-0.64	1.728	0.863	1.728	0.863	
400T150-18	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	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	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	1.863	0.801	
400T200-18	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																			

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)

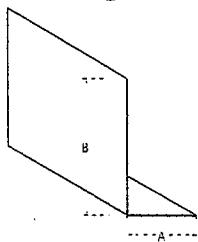
Uses:

- 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)	Area (in ²)	Weight (lb/ft)	Gross				Effective Properties (ksi)			
				I _x (in ⁴)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	M _a (in-k)	V _a (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

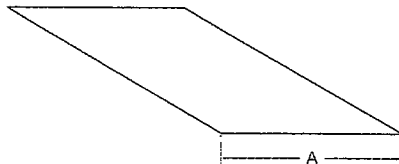


Product Data:

- 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).

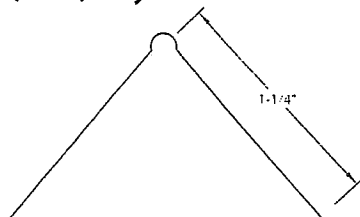
Uses:

- 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.

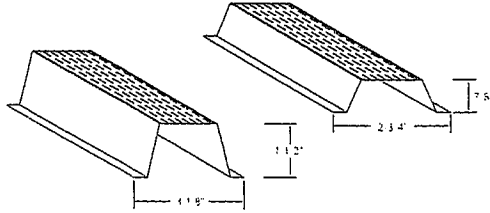
Uses:

- 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

(DWFC) Drywall Furring Channel



Product Data:

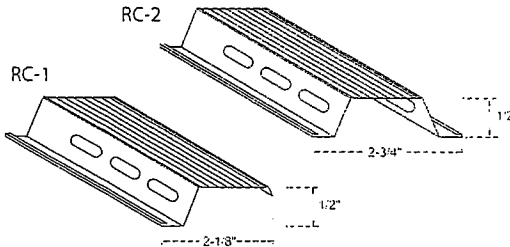
- Available in 7/8" and 1-1/2" sizes.
- Gauge: Standard 25 through 16 gauges.
- Lengths: 12' 0" Stock Length, (other lengths available).
- Consult Telling Industries' Light Gage Structural Framing & Accessories brochure for structural properties and span tables

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	Fy (ksi)	Design Thickness (in)	Area (in ²)	Weight (lb/ft)	Gross Properties				Effective Properties		
					Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)	Ixe (in ⁴)	Sye (in ³)	Me (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:

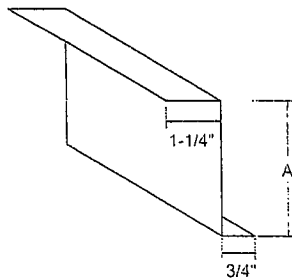
- RC-1: Single Leg • RC-2: Double Leg
- Gauge: Standard 25 gage conforming to ASTM A-653 and C-645.
- Lengths: 12' 0" stock length
- RC-1: Screw attachment, one side only.
- RC-2: Screw attachment, both sides.

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 providing 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