STEELER® INC.
DRYWALL CONSTRUCTION SUPPLY
Since 1974
Distributors serving the Wall & Ceiling Industry
www.steeler.com

Product Specification and Submittal Form

Corporate Sales: 800-275-2279
Technical Support: 206-760-7100

UNIVERSAL STUD, EU– 30

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DESCRIPTION

Universal Studs are fabricated in 1-5/8", 2-1/2", 3-1/2", 3-5/8", 4" and 6" widths, from 24 mil 50ksi steel. The Flange sizes are 1-1/4", 1-3/8", 1-1/2" and 1-5/8". Universal Studs are available with the web punched or unpunched.

ASTM & Code Standards

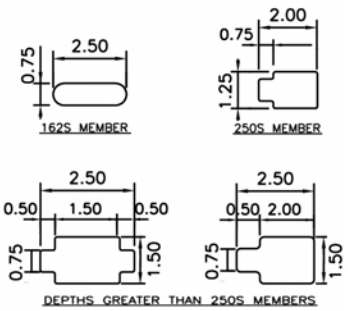
- AISI, North American Specification for the Design of Cold-Formed Steel Structural Members 2001 Edition with 2004 Supplement
- ASTM A370, Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- ASTM A1003, Standard Specification for Sheet Steel, Carbon, Metallic and Non-Metallic Coating for Cold-Formed Framing Members.
- Steeler's structural framing comply with 2006 International Building Code (IBC– 2006)
- ASTM C645, Standard Specification for Nonstructural Steel Framing Members.
- ASTM C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
- ASTM C1513, Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections.

MATERIALS

24 mil section is fabricated from hot dipped galvanized steel conforming to ASTM A653 Grade 50 (steel).

RECOGNITION

ICC-ES REPORT ESR-2054

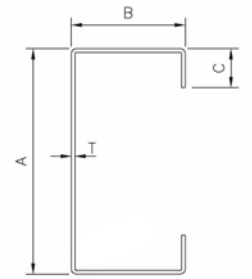


COLOR CODE

Brown, painted on ends.

UTILITY PUNCHOUTS

Universal Studs are available with or without punchouts. . The punchout size for the 1-5/8" section is ¾"wide by 2-1/2" long; 2-1/2" section is 1-1/4" wide by 2" long; and the 3-1/2", 3-5/8", 4" and 6" sections have either a full chevron shape 1-1/2" wide by 2-1/2" long (with ¾" and 1-1/2" dimensions for inside recesses), or a cut-off chevron 1-1/2" by 2-1/2" (with ¾" and 2" inside recesses). Punchouts are spaced 24" on center and a minimum of 10" on center from either end. All are code compliant.



A (WEB): 1.625", 2.50", 3.50", 3.625", 4.00", 6"
B (FLANGE): 1.25", 1.375", 1.50", 1.625"
C (LIP): 0.25", 0.31", 0.34"

TABLE 2 SECTION PROPERTIES--STEELER 24 mil S-Studs

Member ID Designation	Full Properties						Torsional Properties				Effective Properties					
	Area in^2	Wt. lb/ft	Ix in^4	rx in	Iy in^4	ry in	J 10^{-3} in^4	Cw in^6	r_O in	X_O in	Maxo k-in	Ieff in^4	Ixe in^4	Sxe in^3	Vay k	Ae in^2
162 S125-024 (50ksi)	0.108	0.367	0.0501	0.681	0.023	0.458	0.0220	0.013	1.350	-1.07	1.334	0.0474	0.041	0.045	0.160	0.0630
162 S137-024 (50ksi)	0.117	0.398	0.0549	0.685	0.031	0.511	0.0239	0.020	1.508	-1.24	1.464	0.0518	0.045	0.049	0.160	0.0691
162 S150-024 (50ksi)	0.125	0.424	0.0593	0.689	0.039	0.559	0.0255	0.027	1.648	-1.39	1.543	0.0556	0.048	0.052	0.160	0.0728
162 S162-024 (50ksi)	0.131	0.445	0.0632	0.695	0.047	0.601	0.0267	0.032	1.767	-1.51	1.556	0.0579	0.050	0.052	0.160	0.0730
250 S125-024 (50ksi)	0.130	0.441	0.1327	1.012	0.026	0.451	0.0265	0.0319	1.453	-0.94	2.197	0.1267	0.106	0.073	0.229	0.0647
250 S137-024 (50ksi)	0.139	0.472	0.1449	1.022	0.036	0.508	0.0283	0.0461	1.585	-1.10	2.406	0.1376	0.117	0.080	0.229	0.0708
250 S150-024 (50ksi)	0.146	0.498	0.1557	1.031	0.046	0.558	0.0299	0.0607	1.705	-1.24	2.533	0.1471	0.124	0.085	0.229	0.0745
250 S162-024 (50ksi)	0.153	0.519	0.1651	1.040	0.055	0.602	0.0311	0.0734	1.811	-1.35	2.551	0.1528	0.127	0.085	0.229	0.0747
350 S125-024 (50ksi)	0.154	0.525	0.2882	1.366	0.029	0.436	0.0315	0.067	1.657	-0.83	3.216	0.2794	0.225	0.107	0.274	0.0659
350 S137-024 (50ksi)	0.164	0.556	0.3133	1.384	0.040	0.495	0.0334	0.095	1.765	-0.98	3.515	0.3015	0.245	0.117	0.274	0.0720
350 S150-024 (50ksi)	0.171	0.582	0.3350	1.399	0.051	0.546	0.0349	0.123	1.866	-1.11	3.699	0.3199	0.260	0.124	0.274	0.0757
350 S162-024 (50ksi)	0.177	0.603	0.3537	1.4120	0.062	0.592	0.0362	0.149	1.955	-1.22	3.722	0.3314	0.266	0.124	0.274	0.0759
362 S125-024 (50ksi)	0.157	0.535	0.3128	1.410	0.030	0.434	0.0321	0.073	1.686	-0.82	3.345	0.3038	0.243	0.112	0.283	0.0660
362 S137-024 (50ksi)	0.167	0.566	0.3398	1.428	0.040	0.493	0.0340	0.102	1.792	-0.96	3.656	0.3277	0.265	0.122	0.283	0.0721
362 S150-024 (50ksi)	0.174	0.593	0.3632	1.444	0.052	0.545	0.0356	0.133	1.891	-1.09	3.847	0.3472	0.280	0.128	0.283	0.0758
362 S162-024 (50ksi)	0.180	0.614	0.3832	1.457	0.063	0.590	0.0368	0.161	1.978	-1.20	3.871	0.3596	0.287	0.129	0.283	0.0760
400 S125-024 (50ksi)	0.167	0.567	0.3941	1.538	0.030	0.428	0.0340	0.091	1.778	-0.78	3.734	0.3845	0.302	0.125	0.305	0.0663
400 S137-024 (50ksi)	0.176	0.598	0.4274	1.559	0.042	0.487	0.0359	0.127	1.878	-0.93	4.078	0.4145	0.329	0.136	0.305	0.0724
400 S150-024 (50ksi)	0.184	0.624	0.4560	1.576	0.053	0.539	0.0375	0.165	1.970	-1.05	4.290	0.4375	0.348	0.143	0.305	0.0761
400 S162-024 (50ksi)	0.190	0.645	0.4804	1.591	0.065	0.585	0.0387	0.199	2.053	-1.16	4.317	0.4528	0.356	0.144	0.305	0.0763
600 S125-024 (50ksi)	0.216	0.735	1.0419	2.195	0.034	0.395	0.0441	0.229	2.322	-0.65	6.108	0.9179	0.762	0.204	0.233	0.0669
600 S137-024 (50ksi)	0.225	0.766	1.1191	2.228	0.047	0.454	0.0460	0.317	2.402	-0.77	6.631	0.9832	0.826	0.222	0.233	0.0730
600 S150-024 (50ksi)	0.233	0.792	1.1848	2.255	0.060	0.507	0.0476	0.408	2.474	-0.88	6.957	1.1270	0.869	0.232	0.233	0.0767
600 S162-024 (50ksi)	0.239	0.813	1.2400	2.277	0.073	0.552	0.0488	0.494	2.539	-0.98	7.001	1.1553	0.885	0.234	0.233	0.0769