



# Product Specification and Submittal Form

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## UNIVERSAL TRACK, EU- 30

### MANUFACTURER

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### DESCRIPTION

Universal Tracks are fabricated in 1-5/8", 2-1/2", 3-1/2", 3-5/8" and 4" widths, from 24 mil 50ksi steel. The Flange sizes are 1", 1-1/4", 1-1/2". The Webs are 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.

### RECOGNITION

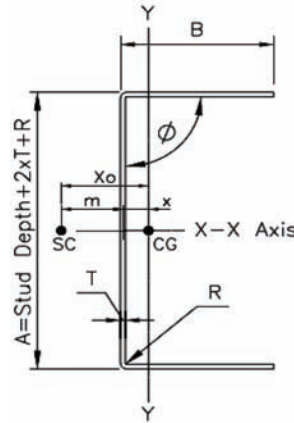
ICC-ES REPORT ESR-2054

### MATERIALS

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

### COLOR CODE

Brown, painted on ends.



STEELER 24 mil T-Track Dimensions				
Member ID Designation	Dimensions, in			
	A	B	R	T
162 T100-024 (50ksi)	1.756	1.00	0.0814	0.0247
162 T125-024 (50ksi)	1.756	1.25	0.0814	0.0247
162 T150-024 (50ksi)	1.756	1.50	0.0814	0.0247
250 T100-024 (50ksi)	2.631	1.00	0.0814	0.0247
250 T125-024 (50ksi)	2.631	1.25	0.0814	0.0247
250 T150-024 (50ksi)	2.631	1.50	0.0814	0.0247
350 T100-024 (50ksi)	3.631	1.00	0.0814	0.0247
350 T125-024 (50ksi)	3.631	1.25	0.0814	0.0247
350 T150-024 (50ksi)	3.631	1.50	0.0814	0.0247
362 T100-024 (50ksi)	3.756	1.00	0.0814	0.0247
362 T125-024 (50ksi)	3.756	1.25	0.0814	0.0247
362 T150-024 (50ksi)	3.756	1.50	0.0814	0.0247
400 T100-024 (50ksi)	4.131	1.00	0.0814	0.0247
400 T125-024 (50ksi)	4.131	1.25	0.0814	0.0247
400 T150-024 (50ksi)	4.131	1.50	0.0814	0.0247

### Legend

A=Depth of Track  
B=Flange width  
T=Design Thickness  
R=Inside Radius  
SC=Shear Center  
CG=Center of Gravity  
Xo=Negative direction measure from CG to SC

### SECTION PROPERTIES--STEELER 24 mil T-Tracks

Member ID Designation	Design T in	Min t in	Full Properties							Torsional Properties				Effective Properties				
			Area in <sup>2</sup>	Wt. lb/ft	I <sub>x</sub> in <sup>4</sup>	r <sub>x</sub> in	I <sub>y</sub> in <sup>4</sup>	r <sub>y</sub> in	J 10 <sup>-3</sup> in <sup>4</sup>	C <sub>w</sub> in <sup>6</sup>	r <sub>o</sub> in	X <sub>o</sub> in	Max <sub>o</sub> k-in	I <sub>xe</sub> in <sup>4</sup>	S <sub>xe(t)</sub> in <sup>3</sup>	V <sub>ay</sub> k	A <sub>e</sub> in <sup>2</sup>	
162 T100-024 (50ksi)	0.0247	0.0235	0.090	0.305	0.046	0.714	0.009	0.323	0.018	0.005	1.026	-0.661	0.977	0.034	0.033	0.644	0.048	
162 T125-024 (50ksi)	0.0247	0.0235	0.102	0.347	0.055	0.734	0.017	0.410	0.021	0.009	1.220	-0.884	1.016	0.037	0.034	0.644	0.048	
162 T150-024 (50ksi)	0.0247	0.0235	0.114	0.389	0.064	0.750	0.028	0.495	0.023	0.014	1.431	-1.113	1.046	0.039	0.035	0.644	0.048	
250 T100-024 (50ksi)	0.0247	0.0235	0.111	0.379	0.116	1.021	0.011	0.309	0.023	0.012	1.209	-0.569	1.790	0.090	0.060	0.557	0.049	
250 T125-024 (50ksi)	0.0247	0.0235	0.124	0.421	0.137	1.052	0.020	0.399	0.025	0.023	1.366	-0.774	1.862	0.097	0.062	0.557	0.050	
250 T150-024 (50ksi)	0.0247	0.0235	0.136	0.463	0.158	1.078	0.032	0.487	0.028	0.037	1.542	-0.989	1.837	0.101	0.061	0.557	0.050	
350 T100-024 (50ksi)	0.0247	0.0235	0.136	0.463	0.249	1.353	0.012	0.292	0.028	0.027	1.469	-0.492	2.582	0.184	0.086	0.394	0.050	
350 T125-024 (50ksi)	0.0247	0.0235	0.148	0.505	0.289	1.396	0.022	0.381	0.030	0.049	1.599	-0.680	2.574	0.193	0.086	0.394	0.051	
350 T150-024 (50ksi)	0.0247	0.0235	0.161	0.547	0.329	1.431	0.036	0.471	0.033	0.080	1.745	-0.880	2.567	0.201	0.086	0.394	0.051	
362 T100-024 (50ksi)	0.0247	0.0235	0.139	0.473	0.270	1.393	0.012	0.290	0.028	0.029	1.503	-0.484	2.667	0.197	0.089	0.380	0.050	
362 T125-024 (50ksi)	0.0247	0.0235	0.152	0.515	0.313	1.438	0.022	0.379	0.031	0.053	1.631	-0.670	2.663	0.207	0.089	0.380	0.051	
362 T150-024 (50ksi)	0.0247	0.0235	0.164	0.557	0.356	1.474	0.036	0.469	0.033	0.087	1.774	-0.868	2.658	0.216	0.089	0.380	0.051	
400 T100-024 (50ksi)	0.0247	0.0235	0.148	0.505	0.340	1.514	0.012	0.284	0.030	0.036	1.608	-0.461	2.734	0.234	0.091	0.344	0.051	
400 T125-024 (50ksi)	0.0247	0.0235	0.161	0.547	0.392	1.562	0.022	0.373	0.033	0.066	1.729	-0.642	2.930	0.254	0.098	0.344	0.051	
400 T150-024 (50ksi)	0.0247	0.0235	0.173	0.589	0.445	1.602	0.037	0.462	0.035	0.109	1.865	-0.835	2.932	0.264	0.098	0.344	0.051	

### Legend:

Max<sub>o</sub>: Allowable moment capacity  
I<sub>x</sub>: Gross moment of inertia  
I<sub>xe</sub>: Effective moment of inertia  
S<sub>xe(t)</sub>: Effective section property (top)  
V<sub>ay</sub>: Allowable web shear capacity  
A<sub>e</sub>: Effective area  
T: Design thickness of base metal.  
t: Minimum base metal thickness  
ksi: kips per square inch, kip=1000 lbs

### Notes:

1. Section properties are per 2007 NASPEC, North American Specification for cold-formed steel members.
2. Section properties include standard web punchouts.
3. Steeler Slotted Stud Section Properties N-Studs are the same as S-Studs
4. Minimum base metal thickness equals 95% of design thickness.
5. For standard galvanized coating of G40, adds 0.0007 inches to base metal thickness