

NotchTrak® NT

Rigid Wall Backing & Bridging Alternative

The Steel Network, Inc.

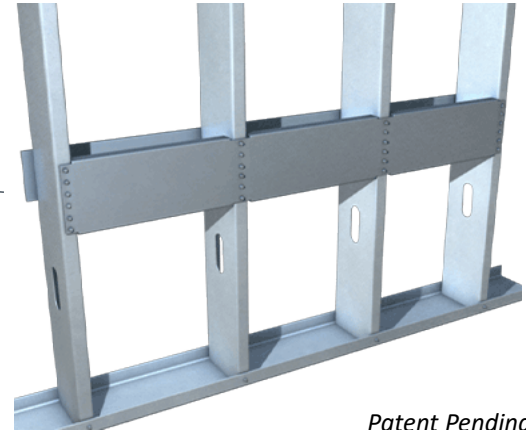
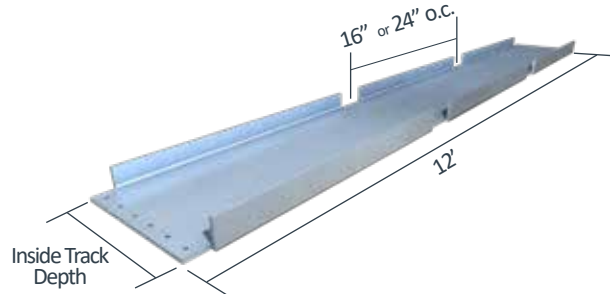
www.steelnetwork.com

1-888-474-4876



Material Composition

ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, with ASTM A653/A653M G60 (Z180) hot dipped galvanized coating, or equivalent.



Patent Pending

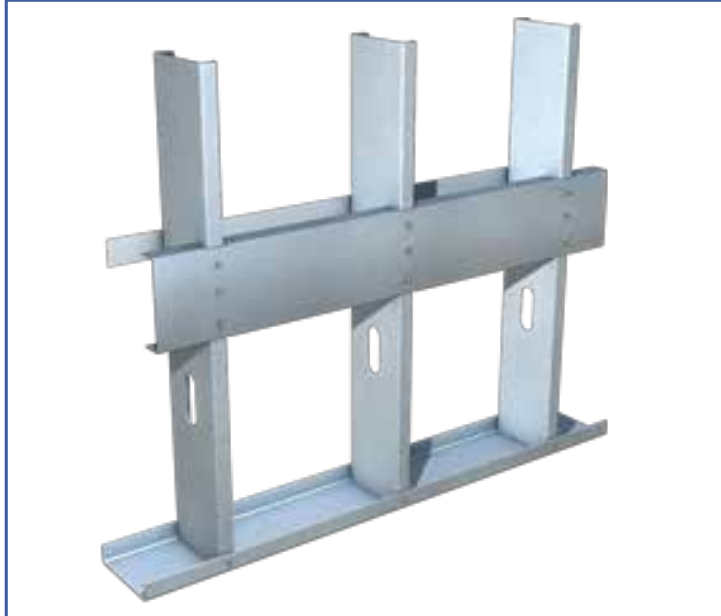
Material Analysis

NotchTrak® NT Section Properties																		
Designation	Gross Properties													Effective Properties 50 ksi				
	Area (Full)	Area (Notch)	I_x	S_x	R_x	I_y	R_y	$J \times 10^3$	C_w	R_o	X_o	m	β	A_e (Full)	I_x^1	S_x	M_{xa}	V_a
	(in ²)	(in ²)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ⁶)	(in)	(in)	(in)		(in ²)	(in ⁴)	(in ³)	(lbs-in)	(lbs)
600NT125-43	0.383	0.262	1.861	0.604	2.205	0.044	0.337	0.260	0.307	2.289	-0.513	0.335	0.950	0.159	1.745	0.403	12,060	1,380
600NT125-54	0.480	0.329	2.345	0.757	2.209	0.054	0.335	0.513	0.384	2.292	-0.508	0.332	0.951	0.243	2.300	0.593	17,760	2,730
600NT125-68	0.605	0.414	2.971	0.951	2.216	0.067	0.332	1.025	0.483	2.296	-0.503	0.329	0.952	0.370	2.971	0.859	25,730	5,350
800NT125-43	0.473	0.352	3.773	0.925	2.824	0.046	0.311	0.321	0.589	2.874	-0.436	0.292	0.977	0.162	3.402	0.553	16,550	1,030
800NT125-54	0.594	0.442	4.747	1.158	2.828	0.057	0.309	0.634	0.735	2.877	-0.432	0.289	0.977	0.248	4.617	0.824	24,680	2,040
800NT125-68	0.748	0.557	6.001	1.455	2.833	0.070	0.307	1.267	0.920	2.882	-0.427	0.286	0.978	0.381	6.001	1.217	36,430	4,090

¹Effective moment of inertia, I_x , is calculated at a stress level equal to 0.6 F_y (service load level).

Example Details

NotchTrak® Used For Wall Bridging^{1,2}



NotchTrak® Used For Wall Backing



¹ Use NotchTrak in conjunction with flat strap and blocking where applicable

² Design screw connection of track to stud for actual design load

****NotchTrak® allowable load tables continued on next page.**

Nomenclature

NotchTrak is manufactured in 12 ft. lengths. NotchTrak is designated by track depth in inches multiplied by 100, followed by type (NT), leg size, mil thickness and notch spacing.

Example:

600 NT 125 - 43 - 16oc
(Inside Track Dimension) (NotchTrak) (Leg) (Thickness) (Notch Spacing)

* Special lengths available by request.

NotchTrak NT Allowable Loads

NotchTrak® NT, Recommended Allowable Load (lbs): Hanger Load Direction												
Screw Patterns with #12 Screws	16" O.C. Stud Spacing						24" O.C. Stud Spacing					
	NT43		NT54		NT68		NT43		NT54		NT68	
	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws
33mil (20ga), 33ksi Stud	1,319	1,030	1,319	1,884	1,319	1,884	1,319	1,030	1,319	1,884	1,319	1,884
33mil (20ga), 50ksi Stud	1,377	1,030	1,905	2,039	1,905	2,722	1,377	1,030	1,905	2,039	1,905	2,722
43mil (18ga), 33ksi Stud	1,377	1,030	1,963	2,039	1,963	2,804	1,377	1,030	1,963	2,039	1,963	2,804
43mil (18ga), 50ksi Stud	1,377	1,030	2,728	2,039	2,836	4,051	1,377	1,030	2,728	2,039	2,836	4,051
54mil (16ga), 33ksi Stud	1,377	1,030	2,728	2,039	2,760	3,943	1,377	1,030	2,728	2,039	2,760	3,943
54mil (16ga), 50ksi Stud	1,377	1,030	2,728	2,039	3,986	4,087	1,377	1,030	2,728	2,039	3,986	4,087
68mil (14ga), 50ksi Stud	1,377	1,030	2,728	2,039	5,019	4,087	1,377	1,030	2,728	2,039	4,135	4,087
97mil (12ga), 50ksi Stud	1,377	1,030	2,728	2,039	5,019	4,087	1,377	1,030	2,728	2,039	4,135	4,087
Max Allowable Member Load	1,377	1,030	2,728	2,039	5,019	4,087	1,377	1,030	2,728	2,039	4,135	4,087

NotchTrak® NT, Recommended Allowable Load (lbs): Axial Load Direction						
Screw Patterns with #12 Screws	16" & 24" O.C. Stud Spacing					
	NT43		NT54		NT68	
	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws	6" w/ 7 Screws	8" w/ 10 Screws
33mil (20ga), 33ksi Stud	1,319	1,884	1,319	1,884	1,319	1,884
33mil (20ga), 50ksi Stud	1,529	2,064	1,905	2,722	1,905	2,722
43mil (18ga), 33ksi Stud	1,529	2,064	1,963	2,804	1,963	2,804
43mil (18ga), 50ksi Stud	1,529	2,064	2,836	4,051	2,836	4,051
54mil (16ga), 33ksi Stud	1,529	2,064	2,760	3,943	2,760	3,943
54mil (16ga), 50ksi Stud	1,529	2,064	3,022	4,080	3,986	5,695
68mil (14ga), 50ksi Stud	1,529	2,064	3,022	4,080	5,019	7,170
97mil (12ga), 50ksi Stud	1,529	2,064	3,022	4,080	5,019	7,170
Maximum Allowable Member Load	1,529	2,064	3,022	4,080	5,019	7,170

NotchTrak® NT, Recommended Allowable Out of Plane Load (lbs): Lateral Load Direction						
Screw Patterns with #12 Screws	16" O.C. Stud Spacing			24" O.C. Stud Spacing		
	NT43	NT54	NT68	NT43	NT54	NT68
33mil (20ga), 33ksi Stud	73	155	324	48	104	219
33mil (20ga), 50ksi Stud	73	155	324	48	104	219
43mil (18ga), 33ksi Stud	73	155	324	48	104	219
43mil (18ga), 50ksi Stud	73	155	324	48	104	219
54mil (16ga), 33ksi Stud	73	155	324	48	104	219
54mil (16ga), 50ksi Stud	73	155	324	48	104	219
68mil (14ga), 50ksi Stud	73	155	324	48	104	219
97mil (12ga), 50ksi Stud	73	155	324	48	104	219
Max Allowable Member Load	73	155	324	48	104	219

Notes:

1. NotchTrak NT resists weak axis buckling and torsional rotation of members.
2. Table data is based on 1-1/4" track leg, but other leg sizes are available to obtain higher capacities.
3. Meets OSHA and IBC load requirements.
4. Meets OSHPD 2013 CBC Standard Backing Details for Cabinets and Grab Bars (Details ST5.00 and ST5.03).
5. For LRFD strengths contact TSN technical services.

Load Direction

