NotchTrak® NT

Rigid Wall Backing & Bridging Alternative

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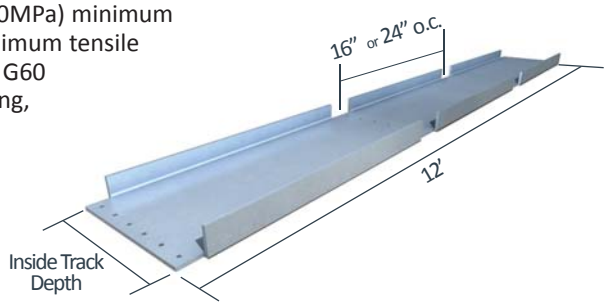
Material Composition

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

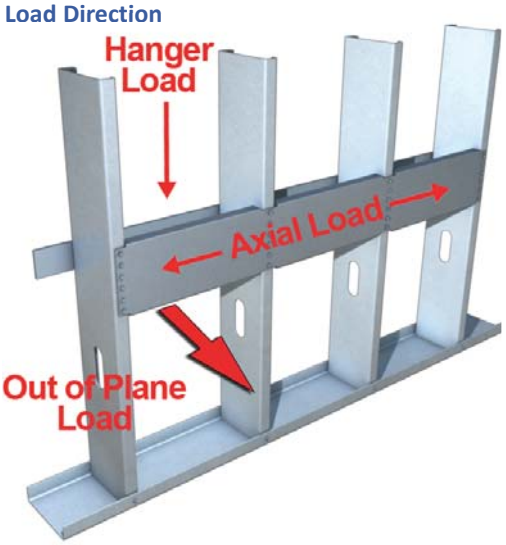
NotchTrak NT Allowable Loads

NotchTrak® NT, Recommended Allowable Load (lbs): Hanger													
Stud		16" o.c. stud spacing						24" o.c. stud spacing					
		NT43		NT54		NT68		NT43		NT54		NT68	
Thickness Mils (ga)	Yield Strength (ksi)	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws
33 (20)	33	1,319	1,030	1,319	1,884	1,319	1,884	1,319	1,030	1,319	1,884	1,319	1,884
33 (20)	50	1,377	1,030	1,905	2,039	1,905	2,722	1,377	1,030	1,905	2,039	1,905	2,722
43 (18)	33	1,377	1,030	1,963	2,039	1,963	2,804	1,377	1,030	1,963	2,039	1,963	2,804
43 (18)	50	1,377	1,030	2,728	2,039	2,836	4,051	1,377	1,030	2,728	2,039	2,836	4,051
54 (16)	33	1,377	1,030	2,728	2,039	2,760	3,943	1,377	1,030	2,728	2,039	2,760	3,943
54 (16)	50	1,377	1,030	2,728	2,039	3,986	4,087	1,377	1,030	2,728	2,039	3,986	4,087
68 (14)	50	1,377	1,030	2,728	2,039	5,350	4,087	1,377	1,030	2,728	2,039	4,135	4,087
97 (12)	50	1,377	1,030	2,728	2,039	5,350	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**	**5,350**	**4,087**	**1,377**	**1,030**	**2,728**	**2,039**	**4,135**	**4,087**

NotchTrak® NT, Recommended Allowable Load (lbs): Axial							
Stud		16" & 24" o.c. stud spacing					
		NT43		NT54		NT68	
Thickness Mils (ga)	Yield Strength (ksi)	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws	6" w/7 #12 Screws	8" w/10 #12 Screws
33 (20)	33	1,319	1,884	1,319	1,884	1,319	1,884
33 (20)	50	1,529	2,064	1,905	2,722	1,905	2,722
43 (18)	33	1,529	2,064	1,963	2,804	1,963	2,804
43 (18)	50	1,529	2,064	2,836	4,051	2,836	4,051
54 (16)	33	1,529	2,064	2,760	3,943	2,760	3,943
54 (16)	50	1,529	2,064	3,022	4,080	3,986	5,695
68 (14)	50	1,529	2,064	3,022	4,080	5,521	7,441
97 (12)	50	1,529	2,064	3,022	4,080	5,521	7,441
Max Allowable Member Load		**1,529**	**2,064**	**3,022**	**4,080**	**5,521**	**7,441**

NotchTrak® NT, Recommended Allowable Out of Plane Load (lbs): Lateral							
Stud		6" w/7 #12 Screws & 8" w/10 #12 Screws					
		16" o.c. stud spacing			24" o.c. stud spacing		
Thickness Mils (ga)	Yield Strength (ksi)	NT43	NT54	NT68	NT43	NT54	NT68
33 (20)	33	73	155	324	48	104	216
33 (20)	50	73	155	324	48	104	216
43 (18)	33	73	155	324	48	104	216
43 (18)	50	73	155	324	48	104	216
54 (16)	33	73	155	324	48	104	216
54 (16)	50	73	155	324	48	104	216
68 (14)	50	73	155	324	48	104	216
97 (12)	50	73	155	324	48	104	216
Max Allowable Member Load		**73**	**155**	**324**	**48**	**104**	**216**

Load Direction



Notes:

- Table data based on 1.25" track leg, but other leg sizes are available to obtain higher capacities.
- NotchTrak NT resists weak axis buckling and torsional rotation of members.
- Meets OSHPD 2013 CBC Standard Backing Details for Cabinet and Grab Bar (Details ST5.00 and ST5.03)
- Meets OSHA & IBC load requirements.

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	$Jx10^3$	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

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

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.*

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