

# DriftTrak® DT w/DTLB

Bypass Slab

The Steel Network, Inc.

www.steelnetwork.com

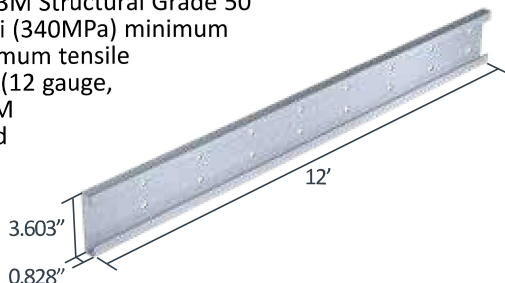
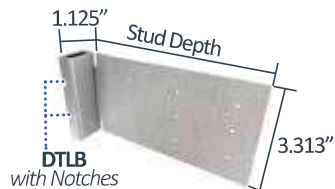
1-888-474-4876



## Material Composition

**Clip Material:** ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 97mil minimum thickness (12 gauge, 0.1017" design thickness) with ASTM A653/A653M G90 (Z275) hot dipped galvanized coating.

**Track Material:** ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 97mil minimum thickness (12 gauge, 0.1017" design thickness) with ASTM A653/A653M G60 (Z180) hot dipped galvanized coating.



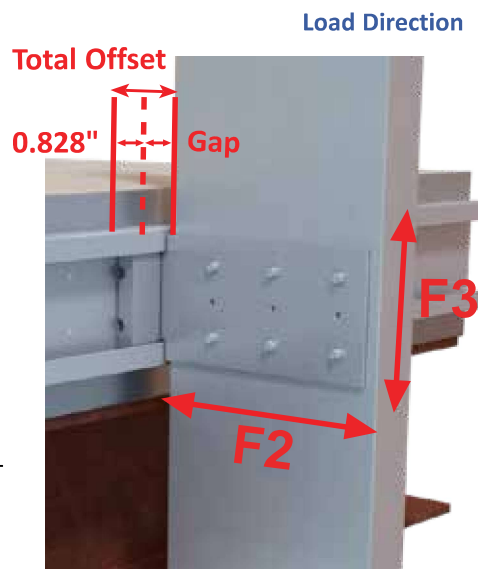
US Patent #7,503,150

## DriftTrak DT w/ DTLB Allowable (Unfactored) Loads

DriftTrak® DT w/ DTLB, Recommended Allowable Load (lbs): F2 & F3													
Screw Patterns with #12 Screws	F2 Load Direction						F3 Load Direction						
	DTLB362/400 Max Offset = 1"		DTLB600 & DTLB800 Max. Offset = 1" for DTLB600 Max. Offset = 1" for DTLB800 w/ 8" Studs Max. Offset = 3" for DTLB800 w/ 6" Studs			DTLB362/400 Max. Offset = 1"		DTLB600 Max Offset = 1" Max. Offset = 1" for DTLB800 w/ 8" Studs Max. Offset = 3" for DTLB800 w/ 6" Studs			DTLB800 Max. Offset = 1" for DTLB800 w/ 8" Studs Max. Offset = 3" for DTLB800 w/ 6" Studs		
	4 Screws	6 Screws	4 Screws	6 Screws	9 Screws	4 Screws	6 Screws	4 Screws	6 Screws	9 Screws	4 Screws	6 Screws	9 Screws
33mil (20ga), 33ksi stud	752	1,009	752	1,128	1,197	228	309	258	309	433	226	264	375
33mil (20ga), 50ksi stud	1,009	1,009	1,088	1,197	1,197	330	448	373	447	627	327	382	543
43mil (18ga), 33ksi stud	1,009	1,009	1,120	1,197	1,197	340	461	384	460	645	337	393	559
43mil (18ga), 50ksi stud	1,009	1,009	1,197	1,197	1,197	492	667	555	666	933	487	568	809
54mil (16ga), 33ksi stud	1,009	1,009	1,197	1,197	1,197	478	649	540	648	908	474	553	787
54mil (16ga), 50ksi stud	1,009	1,009	1,197	1,197	1,197	691	937	780	936	1,312	685	799	1,136
68mil (14ga), 50ksi stud	1,009	1,009	1,197	1,197	1,197	870	1,163	982	1,179	1,653	863	1,006	1,272
97mil (12ga), 50ksi stud	1,009	1,009	1,197	1,197	1,197	870	1,163	982	1,179	1,653	863	1,006	1,272
<b>Max Allowable Clip Load</b>	<b>1,009</b>		<b>1,197</b>			<b>1,163</b>		<b>1,750</b>			<b>1,272</b>		

### Notes:

- Design loads are for attachment of DriftTrak DT w/ DTLB to stud only.
- Allowable loads have not been increased for wind, seismic, or other factors.
- Clips are manufactured to fit into DriftTrak DT. DriftTrak DT w/ DTLB provides a rigid connection to the stud while allowing free lateral movement of the structure.
- Torsional effects are considered on screw group for F3 allowable loads. It is assumed that all of the torsional moment is taken by the connection to the stud.
- Loads listed reflect force in a single direction. When multiple loads act on the connection, it is the responsibility of the designer to check the interaction of forces.
- Attachment to structure at 8" spacing to be engineered by others.
- One row of bridging is recommended at a maximum distance of 18" from DriftTrak DT w/ DTLB if no other stud lateral restraint is present.
- Notches are standard in DTLB clips. For greater F2 load capacities, use DTLB-HD clips without notches. Refer to allowable load tables.
- Allow a minimum of 7/8" from the structure to the inside flange of the bypassing stud to allow for track attachment.
- Maximum total offset of stud from the edge of slab should not exceed 1" for DriftTrak DT w/ DTLB362/400 or DTLB600 clips.
- Maximum total offset of stud from the edge of slab should not exceed 1" for DriftTrak DT w/ DTLB800 clips with 8" studs and 3" for DriftTrak DT w/ DTLB800 clips with 6" studs.
- Maximum total offset is measured as track flange plus the gap from the open face of the track to the inside face of the stud.
- For LRFD strengths contact TSN technical services.



**Nomenclature**

DriftTrak DT w/ DTLB is specified by designating the track section and the clip size by multiplying the stud depth by 100.

**Example:** Track fastened at 8", 6" stud depth, with an outward load (F2) of 1,000 lbs and a gravity load (F3) of 400 lbs

**Designate:** DriftTrak® DT w/ DTLB600

**DTLB362 Fastener Patterns**

**DTLB600 and DTLB800 Fastener Patterns**



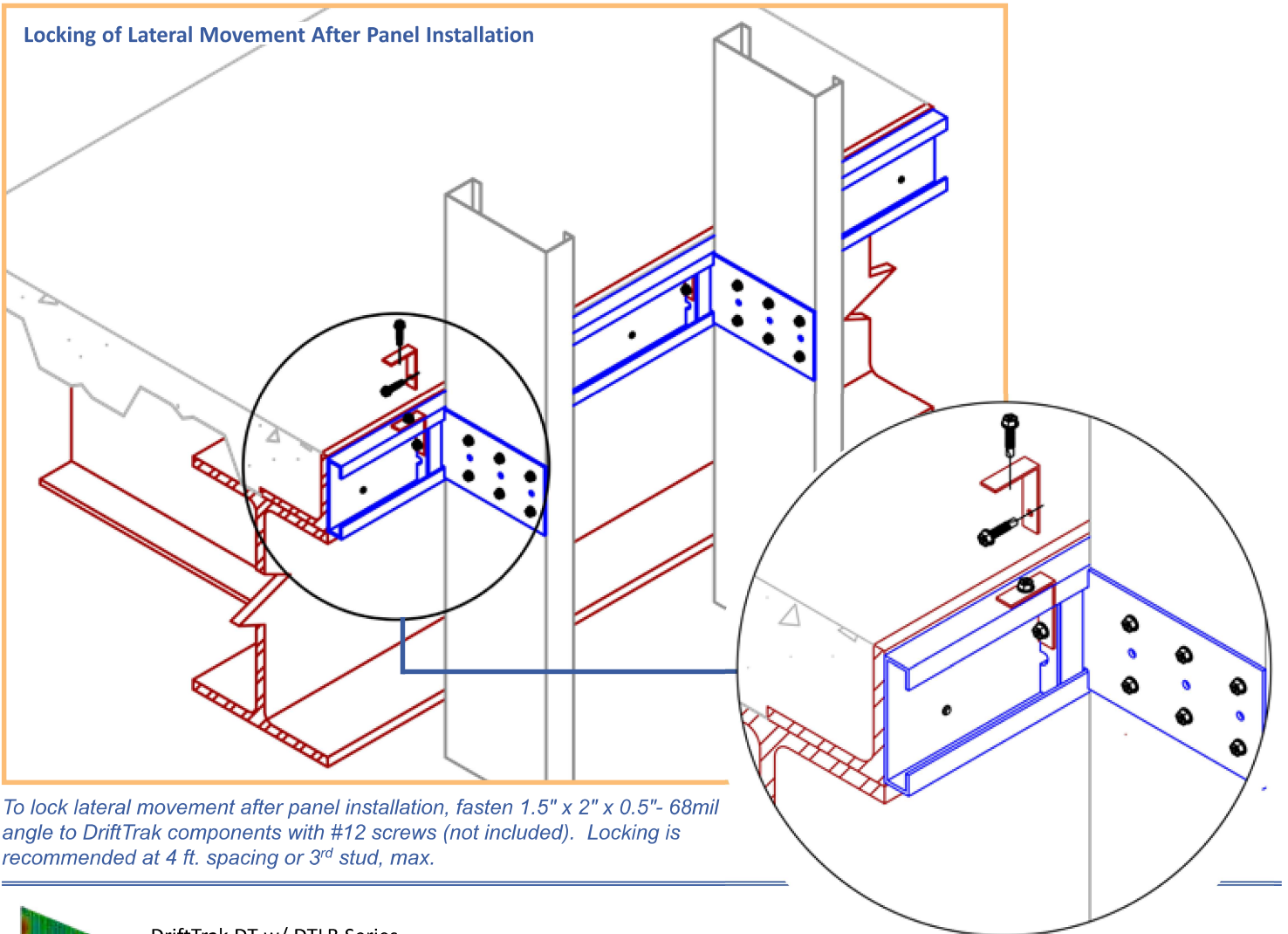
4 Hole Fastener Pattern

6 Hole Fastener Pattern

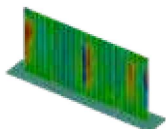
4 Hole Fastener Pattern

6 Hole Fastener Pattern

9 Hole Fastener Pattern



To lock lateral movement after panel installation, fasten 1.5" x 2" x 0.5"- 68mil angle to DriftTrak components with #12 screws (not included). Locking is recommended at 4 ft. spacing or 3<sup>rd</sup> stud, max.



DriftTrak DT w/ DTLB Series  
Blast and Seismic Design Data  
www.steelnetwork.com

\*\* For more information or to review a copy of this report, please visit our website at <http://www.steelnetwork.com/light-steel-framing-design-resources>