

# DriftTrak® DTLB

## Bypass Slab

The Steel Network, Inc.

www.steelnetwork.com

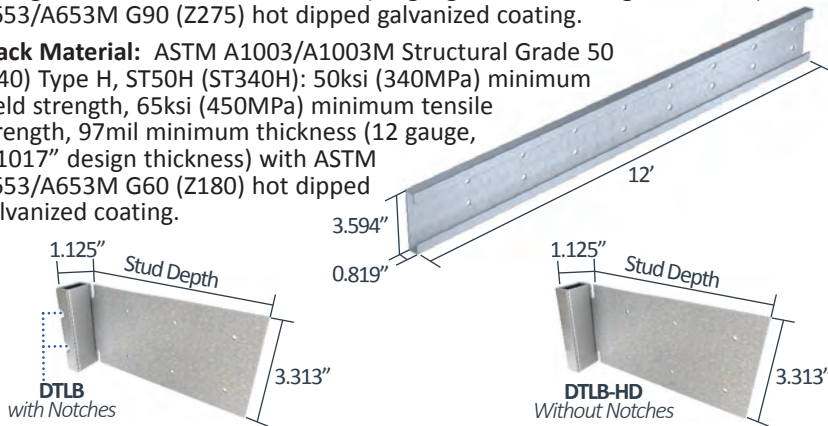
1-888-474-4876



### 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.



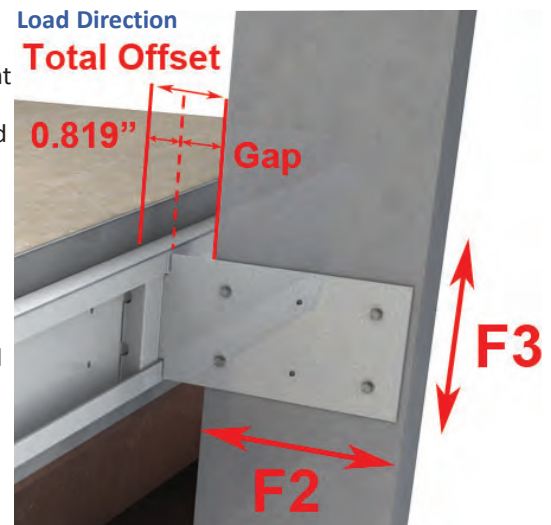
US Patent #7,503,150

### DriftTrak DTLB Allowable (Unfactored) Loads

DriftTrak® DTLB & DTLB-HD, Recommended Allowable Load (lbs): F2 & F3										
Screw Patterns with #12 Screws	F2 Load Direction						F3 Load Direction			
	DTLB362/400 with Notches	DTLB362/400-HD w/o Notches	DTLB600 & DTLB800 with Notches	DTLB600-HD & DTLB800-HD w/o Notches	DTLB362/400 & DTLB362/400-HD Total Offset = 1"	DTLB600 & DTLB600-HD Total Offset = 1"	DTLB800 & DTLB800-HD Total Offset for 8" Studs = 1" Total Offset for 6" Studs = 3"			
	4 Screws	4 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws	4 Screws 6 Screws
33mil (20ga), 33ksi stud	752	752	752 1,128	752 1,128	752 1,128	752 1,128	227	258 308	226 263	226 263
33mil (20ga), 50ksi stud	1,009	1,088	1,088 1,197	1,088 1,197	1,088 1,197	1,088 1,197	329	373 446	326 381	326 381
43mil (18ga), 33ksi stud	1,009	1,120	1,120 1,197	1,120 1,197	1,120 1,197	1,120 1,197	339	384 459	336 392	336 392
43mil (18ga), 50ksi stud	1,009	1,316	1,197 1,197	1,197 1,197	1,620 1,749	1,620 1,749	490	555 664	486 567	486 567
54mil (16ga), 33ksi stud	1,009	1,316	1,197 1,197	1,197 1,197	1,576 1,749	1,576 1,749	477	540 646	473 552	473 552
54mil (16ga), 50ksi stud	1,009	1,316	1,197 1,197	1,197 1,197	1,749 1,749	1,749 1,749	688	780 933	683 797	683 797
68mil (14ga), 50ksi stud	1,009	1,316	1,197 1,197	1,197 1,197	1,749 1,749	1,749 1,749	940	1,064 1,274	932 1,088	932 1,088
97mil (12ga), 50ksi stud	1,009	1,316	1,197 1,197	1,197 1,197	1,749 1,749	1,749 1,749	940	1,064 1,274	932 1,088	932 1,088
Max Allowable Clip Load	1,009	1,316	1,197	1,749	1,163	1,750	1,272			

### Notes:

- DTLB and DTLB-HD clips are manufactured to fit into the DriftTrak and provide up to 2" of vertical deflection (1" up and 1" down) while allowing free lateral movement of the structure.
- DTLB and DTLB-HD clips are manufactured to fit into the DriftTrak and provide a rigid connection to the stud while allowing free lateral movement of the structure.
- Design loads are for attachment of DriftTrak DTLB and DTLB-HD to stud only. Load tables reflect horizontal loads (F2).
- Design loads are for attachment of DriftTrak DTLB and DTLB-HD to stud only. Load tables reflect horizontal loads (F2) and vertical loads (F3).
- Loads listed reflect force in a single direction. When multiple loads react on the connection, it is the responsibility of the designer to check the interaction of forces.
- 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.
- Attachment to structure engineered by others.
- Allowable loads have not been increased for wind, seismic, or other factors.
- #12 screws are provided with DTLB and DTLB-HD clips for each step bushing for attachment to stud. Load requirements don't always justify use of a third screw.
- Use 8" DriftTrak fastener spacing to structure (or welded on each side of track) for DTLB and DTLB-HD clips. 8" spacing or 16" spacing can be used for DTLB and DTLB-HD clips. Size of fasteners or weld is engineered by others.
- Notches are standard in DriftTrak DTLB and DTLB. For greater F2 and F3 load capacities, use DTLB-HD and DTLB-HD clips w/o notches. Refer to allowable load tables.
- One row of bridging is recommended at a maximum distance of 18" from DriftTrak if no other stud lateral restraint is present.
- Allow a minimum of 0.875" from the structure to the inside flange of the bypassing stud to allow for track attachment.
- Total Offset is measured as track flange width plus the gap from the open face of the track to the inside face of the stud.



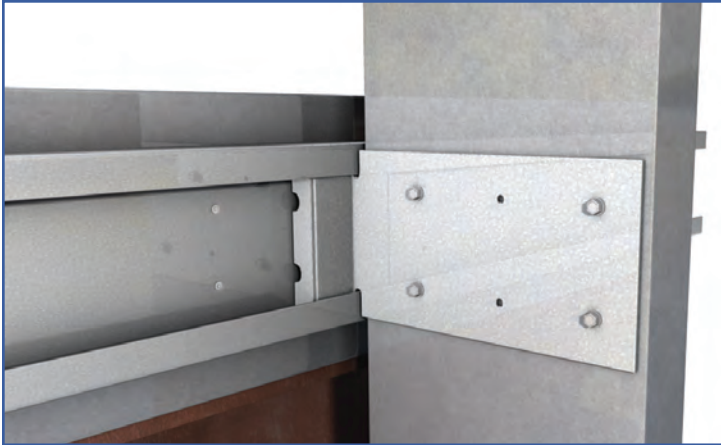
### Nomenclature

DriftTrak DTLB is classified by multiplying stud depth by 100, followed by "HD," based on F2 strength required. Refer to load tables.

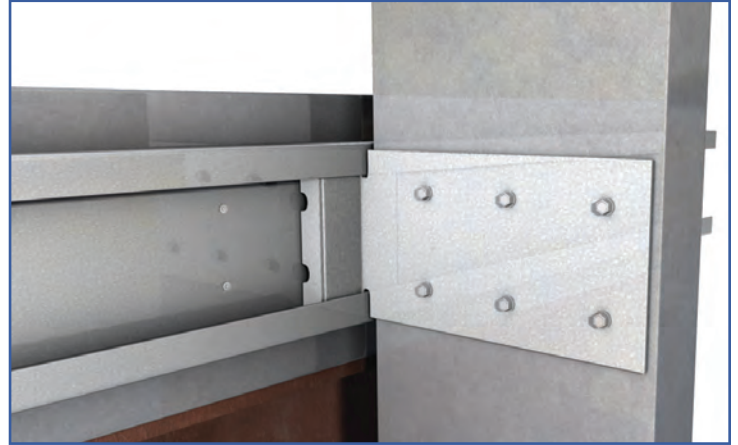
**Example:** 6" stud depth, with an outward load (F2) of 1,000 lbs

**Designate:** DriftTrak® DTLB600-HD

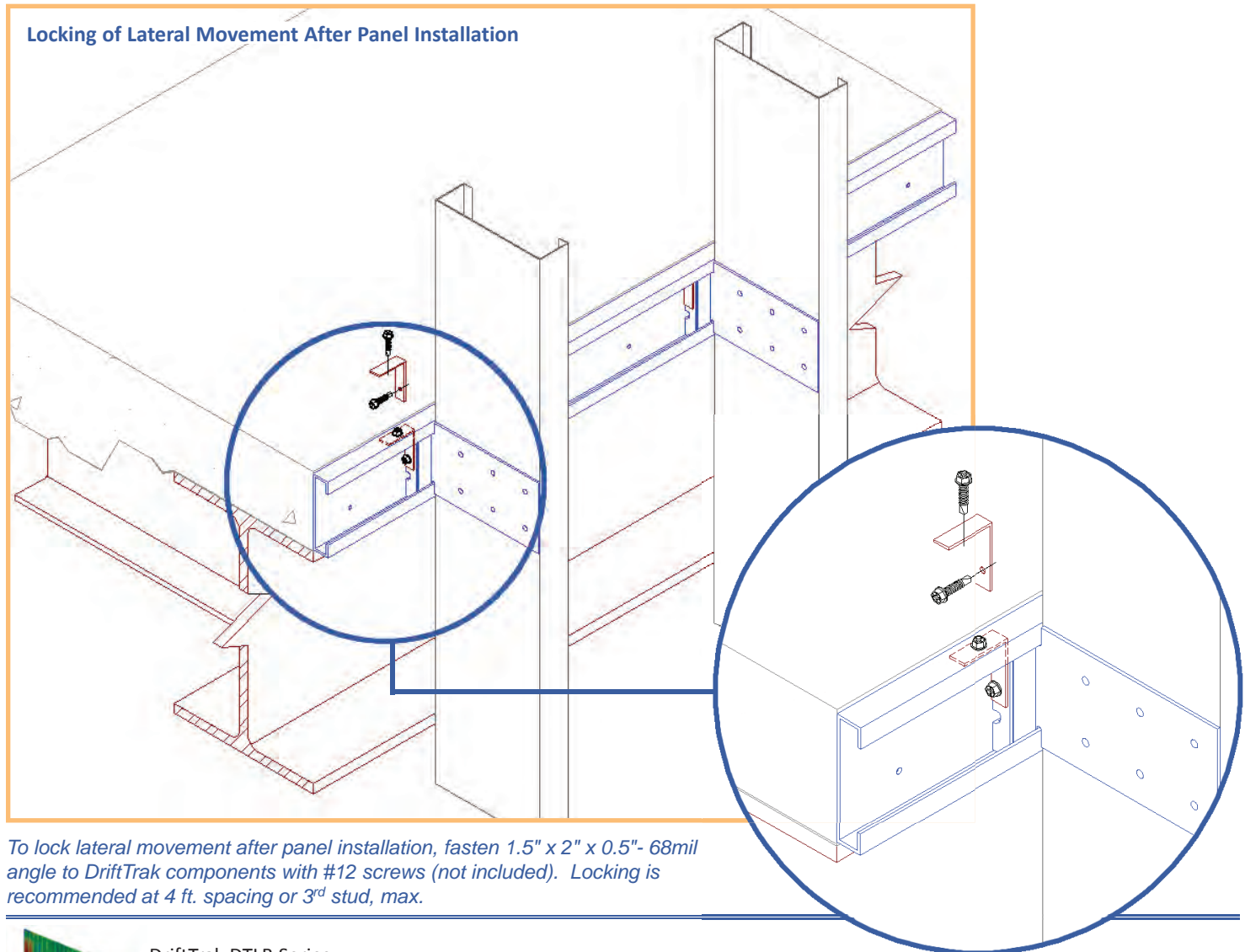
### Fastener Patterns



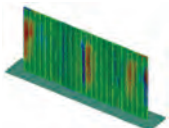
4 Hole Fastener Pattern



6 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 DTLB Series  
Blast and Seismic Design Data  
[www.steelnetwork.com](http://www.steelnetwork.com)

\*\* For more information or to review a copy of this report, please visit our website at <http://www.steelnetwork.com/Site/TechnicalData>