

DriftTrak® DT w/DTSLB

Bypass Slab

The Steel Network, Inc.

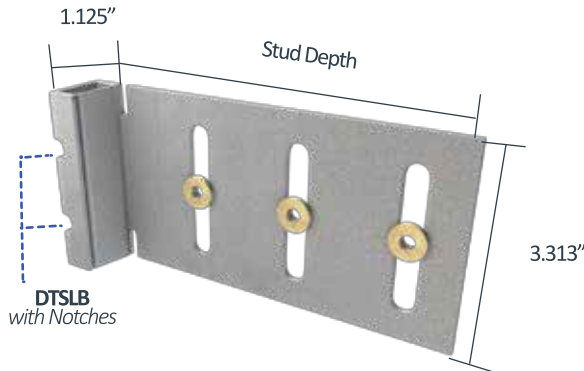
www.steelnetwork.com

1-888-474-4876



Material Composition

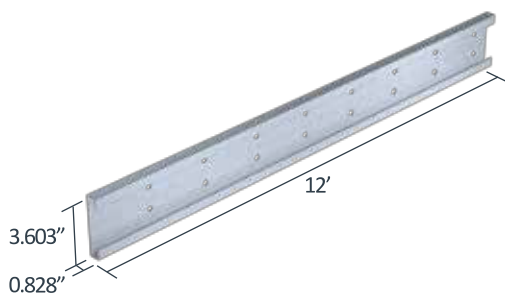
DTSLB Clip Material: ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 68mil minimum thickness (14 gauge, 0.0713" design thickness) with ASTM A653/A653M G90 (Z275) hot dipped galvanized coating.



US Patent #7,503,150

DriftTrak DT w/DTSLB Allowable (Unfactored) Loads

DriftTrak® DT w/ DTSLB, Recommended Allowable Load (lbs): F2					
Stud		DTSLB			
		8" Fastener Spacing in Track to Structure <i>(or welded on each side)</i>		16" Fastener Spacing in Track to Structure <i>(or welded on each side)</i>	
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws
33 (20)	33	376	564	376	564
33 (20)	50	544	808	544	753
43 (18)	33	560	808	560	753
43 (18)	50	808	808	753	753
54 (16)	33	788	808	753	753
54 (16)	50	808	808	753	753
68 (14)	50	808	808	753	753
97 (12)	50	808	808	753	753
Maximum Allowable Clip Load		808		753	



Notes:

- Design loads are for attachment of DriftTrak DT w/ DTSLB 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/ DTSLB allows up to 2" of vertical deflection (1" up and 1" down), and free lateral movement of the structure.
- #12 screws are provided for each step bushing attachment to studs. Load requirements don't always justify use of a third screw.
- Attachment to structure at 8" or 16" spacing to be engineered by others.
- One row of bridging is recommended at a maximum distance of 18" from DriftTrak DT w/ DTSLB to resist torsional effects.
- Notches are standard in DTSLB clips. For greater F2 load capacities, use DTSLB-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.
- Total offset of stud from the edge of slab should not exceed 2" for DriftTrak DT w/ DTSLB362/400 or DTSLB600 clips.
- Total offset of stud from the edge of slab should not exceed 3-1/4" for DriftTrak DT w/ DTSLB800 clips.
- Total offset is measured from the edge of slab to the inside face of the stud.
- For LRFD strengths contact TSN technical services.

Load Direction



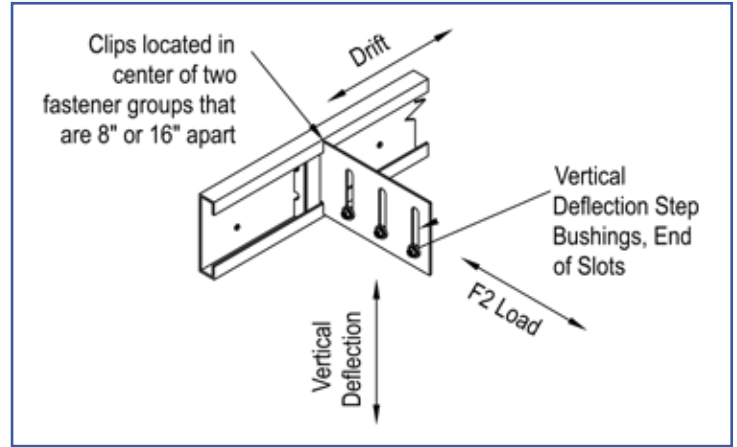
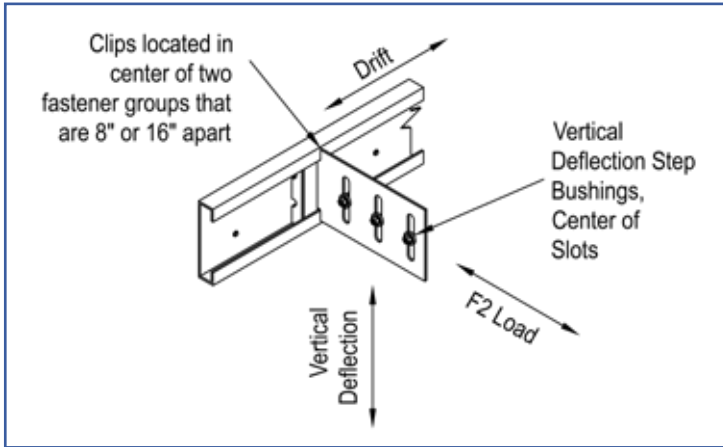
Nomenclature

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

Example: Track fastened at 8" or 16", 6" stud depth, with an outward load (F2) of 1,000 lbs

Designate: DriftTrak® DT w/ DTSLB600

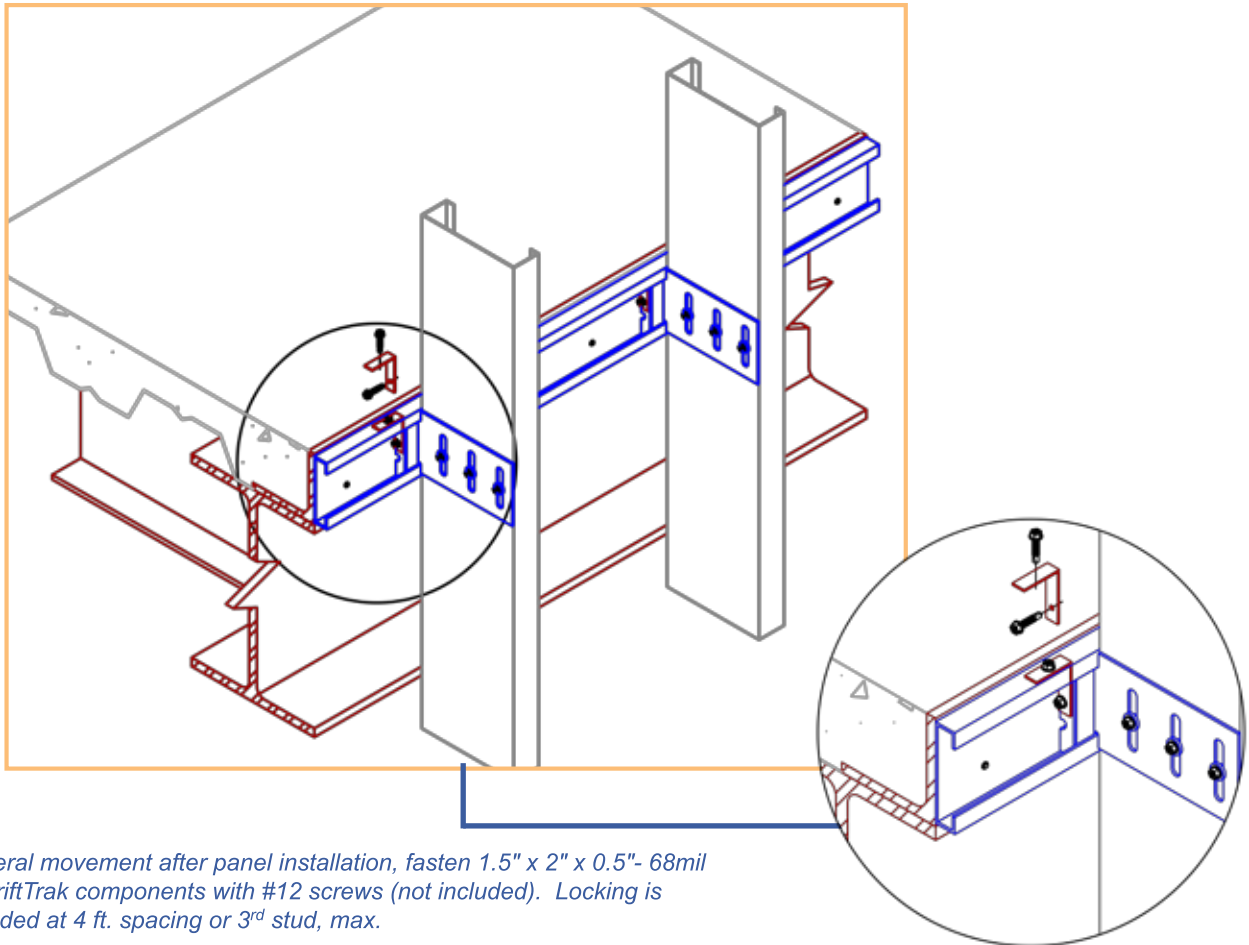
Fastener Patterns



Fastener Pattern 1 replicates a condition of out-of-plane wind or seismic force with no vertical live load deflection and full in-plane drift.

Fastener Pattern 2 replicates a condition of out-of-plane wind or seismic force with full vertical live load deflection and full in-plane drift.

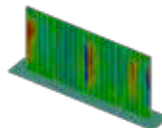
Locking of Lateral Movement After Panel Installation



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 3rd stud, max.



DriftTrak DT w/ DTSLB362/400,
DTSLB600 & DTSLB800
ICC-ESR-2049
www.icc-es.org



DriftTrak DT w/ DTSLB Series
Blast and Seismic Design Data
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DriftTrak® DT w/DTSLB-HD

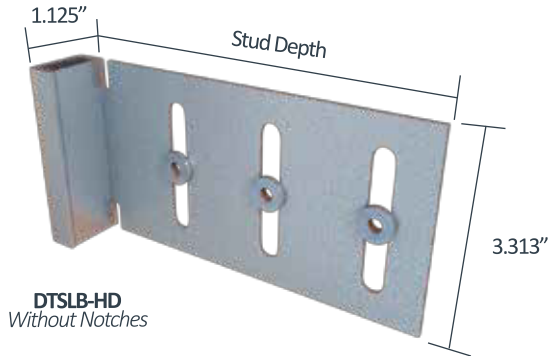
Bypass Slab

Material Composition

DTSLB-HD Clip and 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.

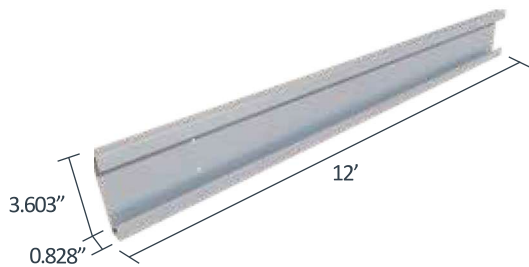


US Patent #7,503,150



DTSLB-HD
Without Notches

Coordinate location of clips and studs with locations of anchors.



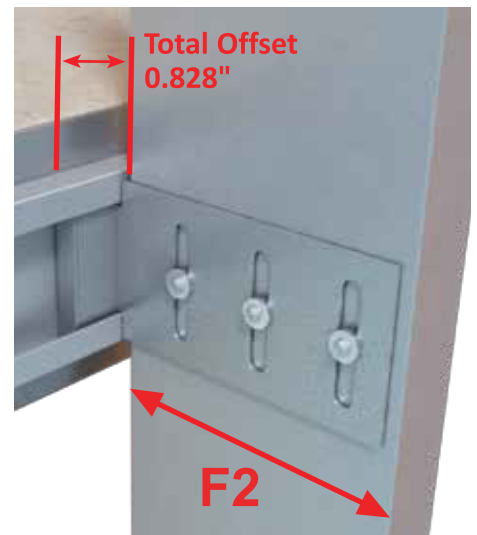
DriftTrak DT w/ DTSLB-HD Allowable (Unfactored) Loads¹

DriftTrak® DT w/ DTSLB-HD, Recommended Allowable Load (lbs): F2					
Stud		DTSLB-HD			
		8" Fastener Spacing in Track to Structure (or welded on each side)		16" Fastener Spacing in Track to Structure (or welded on each side)	
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws
33 (20)	33	376	564	376	564
33 (20)	50	544	816	544	816
43 (18)	33	560	840	560	840
43 (18)	50	810	1,215	753	953
54 (16)	33	788	1,182	753	953
54 (16)	50	1,138	1,618	753	953
68 (14)	50	1,434	1,618	753	953
97 (12)	50	1,434	1,618	753	953
Maximum Allowable Clip Load		1,618		953	

Notes:

- Design loads are for attachment of DriftTrak DT w/ DTSLB-HD 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/ DTSLB-HD allows up to 2" of vertical deflection (1" up and 1" down), and free lateral movement of the structure.
- #12 screws are provided for each step bushing attachment to studs. Load requirements don't always justify use of a third screw.
- Attachment to structure at 8" or 16" spacing to be engineered by others.
- One row of bridging is recommended at a maximum distance of 18" from DriftTrak DT w/ DTSLB-HD to resist torsional effects.
- Allow a minimum of 7/8" from the structure to the inside flange of the bypassing stud to allow for track attachment.
- Total offset of stud from the edge of slab should not exceed 2" for DriftTrak DT w/ DTSLB362/400-HD or DTSLB600-HD clips.
- Total offset of stud from the edge of slab should not exceed 3-1/4" for DriftTrak DT w/ DTSLB800-HD clips.
- Total offset is measured from the edge of slab to the inside face of the stud.
- For LRFD strengths contact TSN technical services.

Load Direction



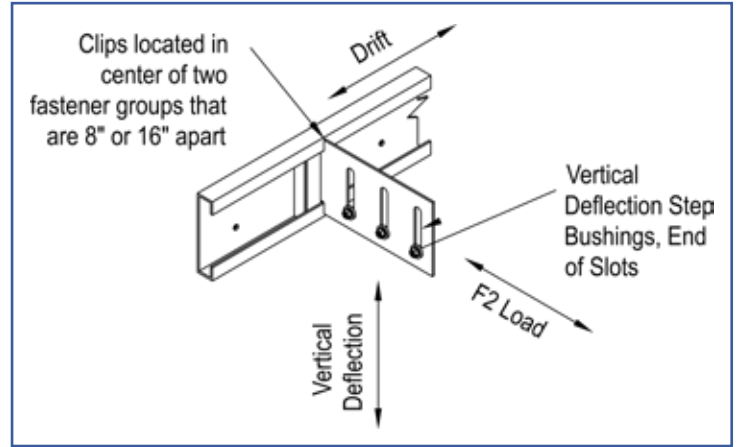
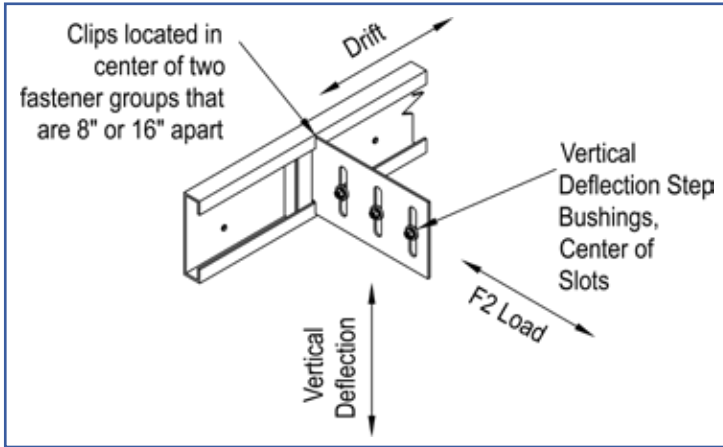
Nomenclature

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

Example: Track fastened at 8" or 16", 6" stud depth, with an outward load (F2) of 1,000 lbs

Designate: DriftTrak® DTSLB600

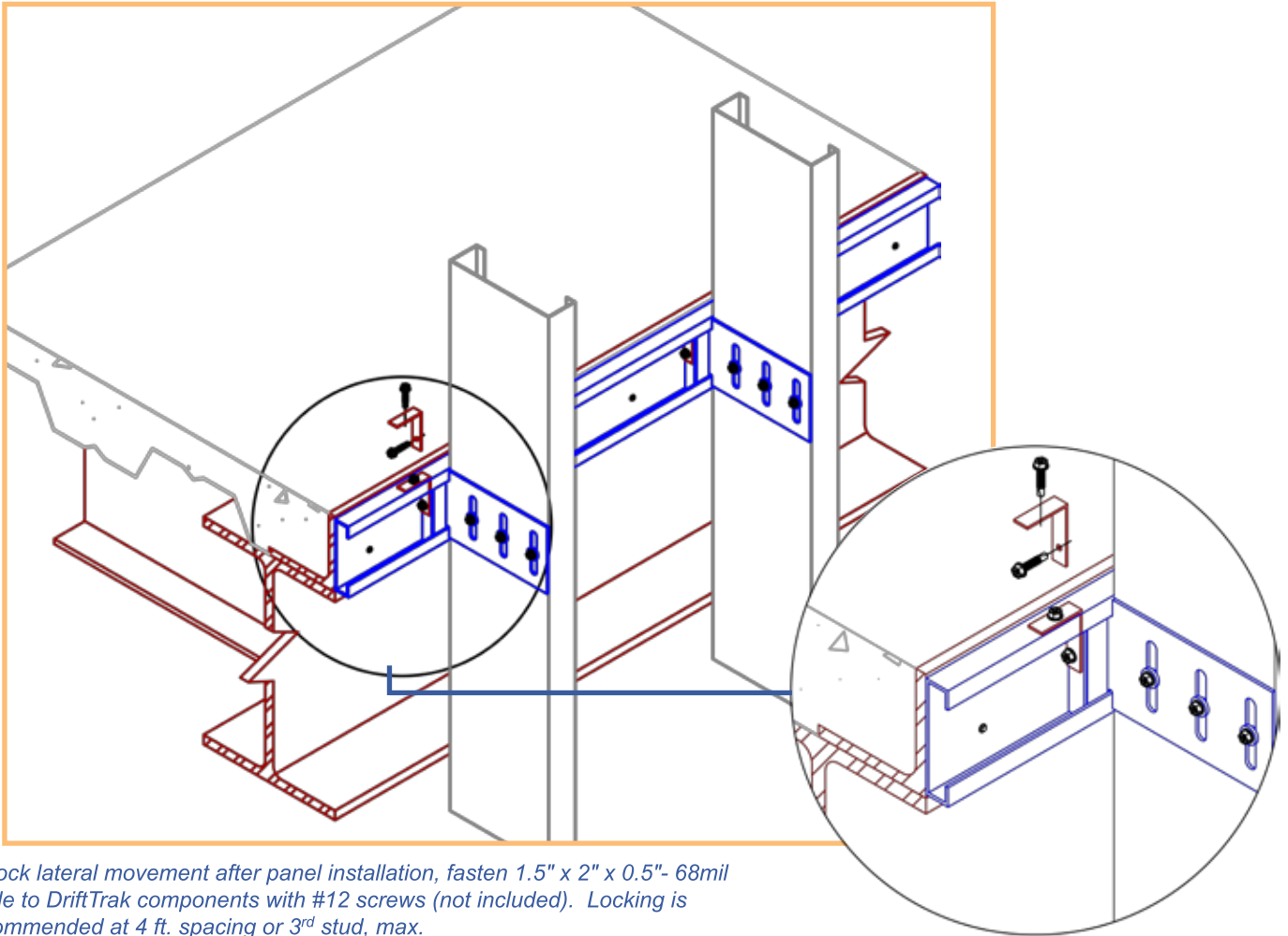
Fastener Patterns



Fastener Pattern 1 replicates a condition of out-of-plane wind or seismic force with no vertical live load deflection and full in-plane drift.

Fastener Pattern 2 replicates a condition of out-of-plane wind or seismic force with full vertical live load deflection and full in-plane drift.

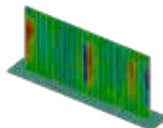
Locking of Lateral Movement After Panel Installation



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 3rd stud, max.



DriftTrak DT w/ DTSLB-HD362/400,
DTSLB600 & DTSLB800
ICC-ESR-2049
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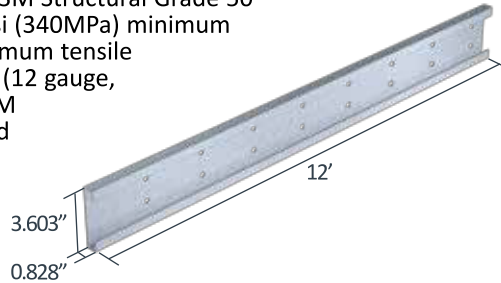
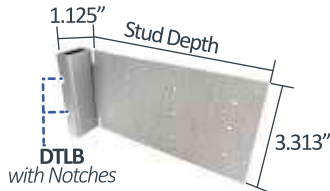
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Material Composition

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.



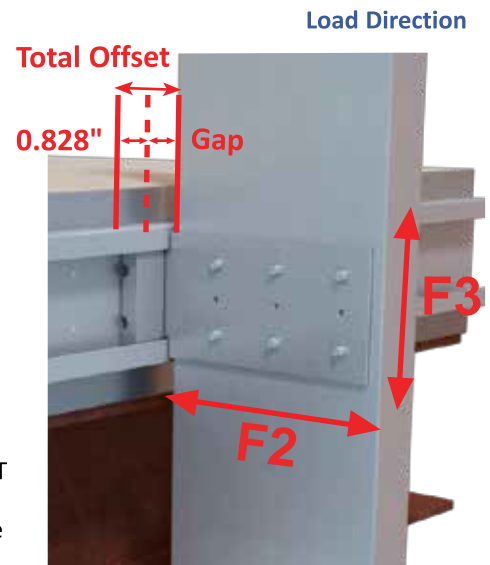
US Patent #7,503,150

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" 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
Max Allowable Clip Load	1,009		1,197			1,163		1,750			1,272		

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



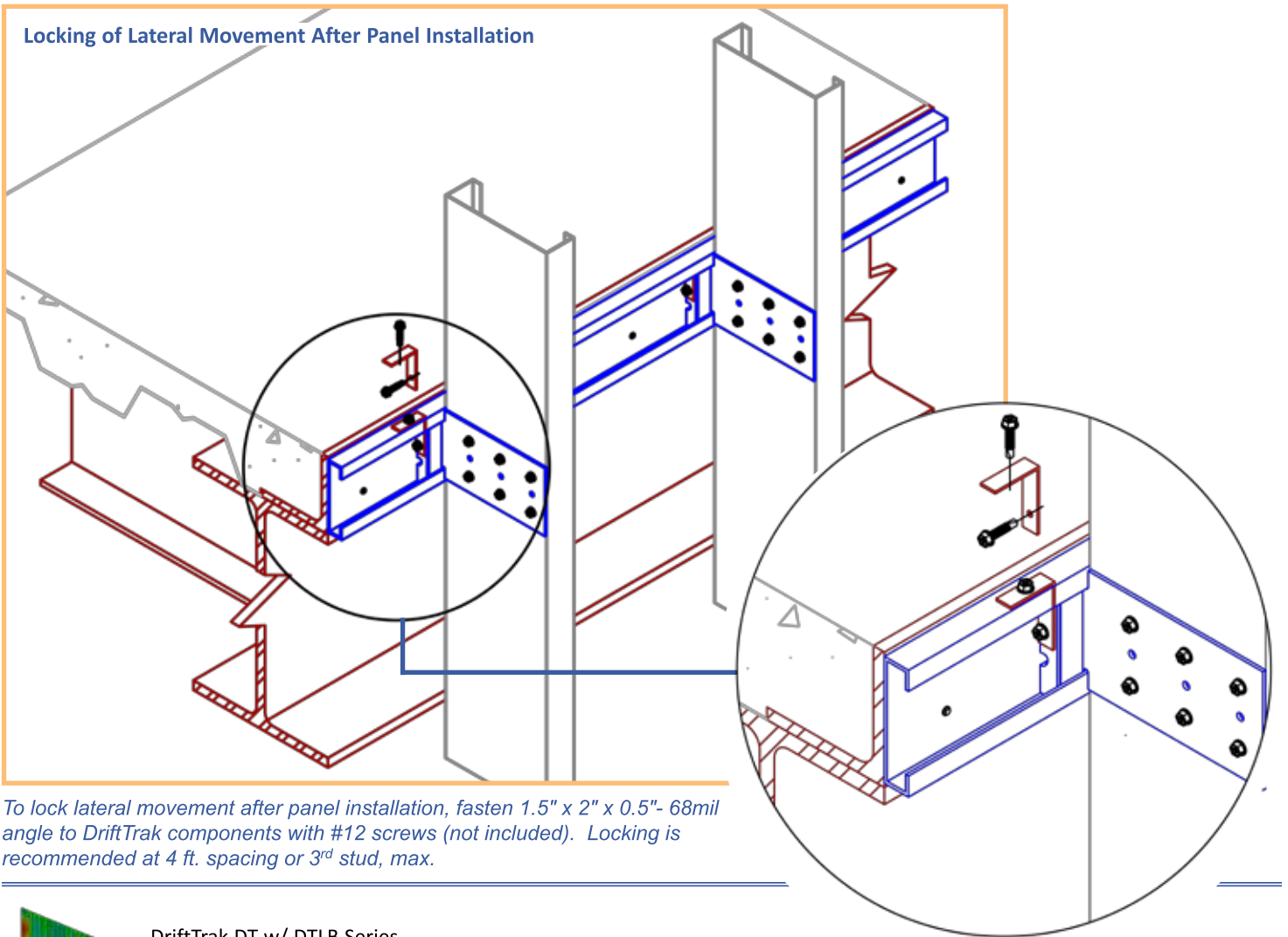
4 Hole Fastener Pattern

6 Hole Fastener Pattern

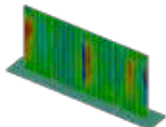
4 Hole Fastener Pattern

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 3rd stud, max.



DriftTrak DT w/ DTLB Series
Blast and Seismic Design Data
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** 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>

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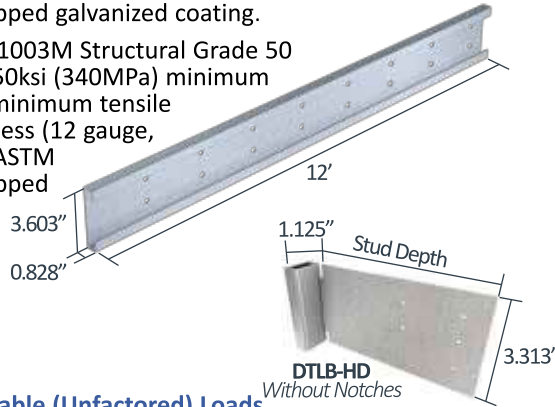
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Material Composition

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.



Coordinate location of clips and studs with locations of anchors.



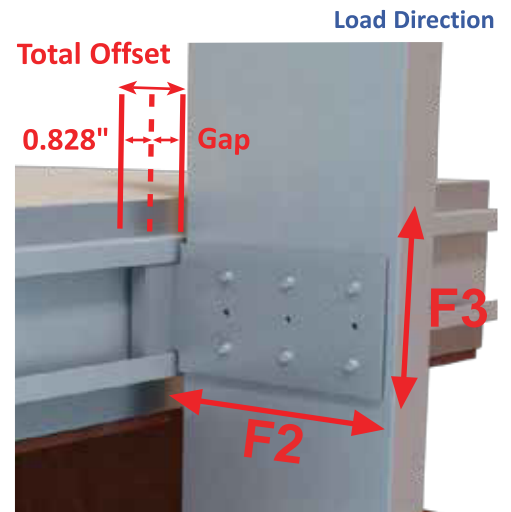
US Patent #7,503,150

DriftTrak DT w/ DTLB-HD Allowable (Unfactored) Loads

DriftTrak® DT w/ DTLB-HD, Recommended Allowable Load (lbs): F2 & F3													
Screw Patterns with #12 Screws	F2 Load Direction						F3 Load Direction						
	DTLB362/400-HD Max. Offset = 1" for DTLB362/400-HD		DTLB600-HD or DTLB800-HD Max. Offset = 1" for DTLB600-HD Max. Offset = 1" for DTLB800-HD w/ 8" Studs Max. Offset = 3" for DTLB800-HD w/ 6" Studs			DTLB362/400-HD Max. Offset = 1" for DTLB362/400-HD		DTLB600-HD Max. Offset = 1" for DTLB600-HD			DTLB800-HD Max. Offset = 1" for DTLB800-HD w/ 8" Studs Max. Offset = 3" for DTLB800-HD 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	1,128	752	1,128	1,692	228	309	258	309	433	226	264	375
33mil (20ga), 50ksi stud	1,088	1,316	1,088	1,632	1,749	330	448	373	447	627	327	382	543
43mil (18ga), 33ksi stud	1,120	1,316	1,120	1,680	1,749	340	461	384	460	645	337	393	559
43mil (18ga), 50ksi stud	1,316	1,316	1,620	1,749	1,749	492	667	555	666	933	487	568	809
54mil (16ga), 33ksi stud	1,316	1,316	1,576	1,749	1,749	478	649	540	648	908	474	553	787
54mil (16ga), 50ksi stud	1,316	1,316	1,749	1,749	1,749	691	937	780	936	1,312	685	799	1,136
68mil (14ga), 50ksi stud	1,316	1,316	1,749	1,749	1,749	870	1,163	982	1,179	1,653	863	1,006	1,272
97mil (12ga), 50ksi stud	1,316	1,316	1,749	1,749	1,749	870	1,163	982	1,179	1,653	863	1,006	1,272
Max Allowable Clip Load	1,316		1,749			1,163		1,750			1,272		

Notes:

- Design loads are for attachment of DriftTrak DT w/ DTLB-HD 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-HD 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-HD if no other stud lateral restraint is present.
- 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-HD or DTLB600-HD clips.
- Maximum total offset of stud from the edge of slab should not exceed 1" for DriftTrak DT w/ DTLB800-HD clips with 8" studs and 3" for DriftTrak DT w/ DTLB800-HD 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/ DTLB600-HD is classified by multiplying stud depth by 100, followed by "HD," based on F2 strength required. Refer to load tables.

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-HD

DTLB362-HD Fastener Patterns

DTLB600-HD and DTLB800-HD Fastener Patterns



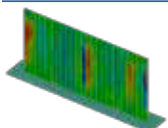
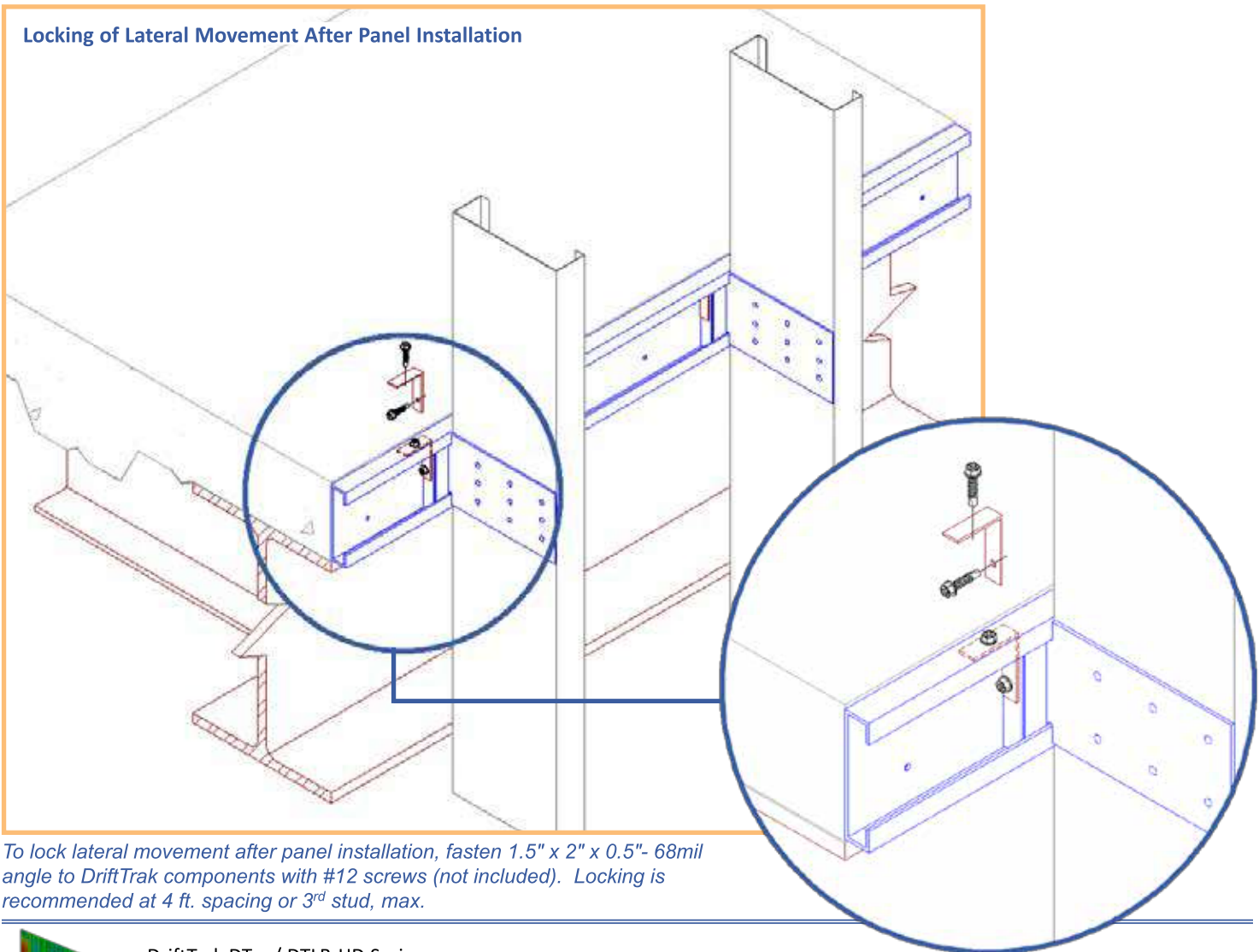
4 Hole Fastener Pattern

6 Hole Fastener Pattern

4 Hole Fastener Pattern

6 Hole Fastener Pattern

9 Hole Fastener Pattern



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