

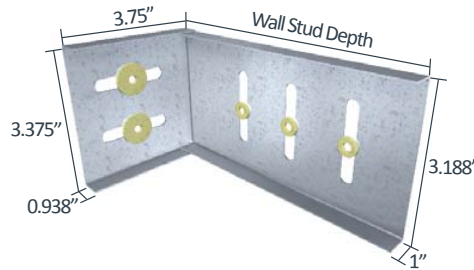
# DriftClip® DSLB

Bypass Slab

## Material Composition

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.

The attachment of DriftClip DSLB to the primary structure may be made with PAFs, screws, or bolt anchors depending on the base material (steel or concrete) and the design configuration. The step bushings used for attachment to structure are designed for use with ¼" maximum diameter fasteners. Designing this connection is the responsibility of the Structural Engineer of Record, and a minimum of two fasteners must be used.



US Patent #6,612,087

## DriftClip DSLB Allowable (Unfactored) Loads<sup>1</sup>

DriftClip® DSLB362, 600 & 800 Recommended Allowable Load (lbs): F2					
Stud		Fastener Pattern 1		Fastener Pattern 2	
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	377	565	377	565
33 (20)	50	544	817	544	572
43 (18)	33	561	841	561	572
43 (18)	50	810	917	572	572
54 (16)	33	917	917	572	572
54 (16)	50	917	917	572	572
68 (14)	50	917	917	572	572
97 (12)	50	917	917	572	572
<b>Max Allowable Clip Load</b>		<b>917</b>		<b>572</b>	

## Allowable Screw Pullout

Section Thickness	Pullout 1/4" - 20 Screws* (lbs)
0.0566"	206
0.0713"	260
0.1017"	500
1/8"	765
3/16"	1,045
1/4"	1,215
5/16"	1,275

\* Limited by the allowable F2 loads shown in the table on the left.

## Notes:

- Design loads are for attachment of DriftClip DSLB to stud only.
- Attachment to structure engineered by others. As a design reference for the structure attachment, follow ICC-ESR-3332 for allowable loads for screw fasteners of ¼" - 20 size with various plate thickness.
- Allowable loads have not been increased for wind, seismic, or other factors.
- #12 screws are provided with each step bushing for attachment to stud. Load requirements don't always justify use of a third screw.
- DriftClip DSLB allows up to 2" of vertical deflection (1" up and 1" down), and 2" lateral drift (1" left and 1" right in plane). Deflection requirements greater than 2" lateral drift are available.
- One row of bridging is recommended at a maximum distance of 12" from DriftClip to resist torsional effects.

<sup>1</sup> For LRFD Design Strengths refer to ICC-ESR-2049.

\* Three screws are not applicable to DriftClip DSLB362.

## Nomenclature

DriftClip DSLB is classified by multiplying stud depth by 100.

**Example:** 6" stud depth

**Designate:** DriftClip® DSLB600

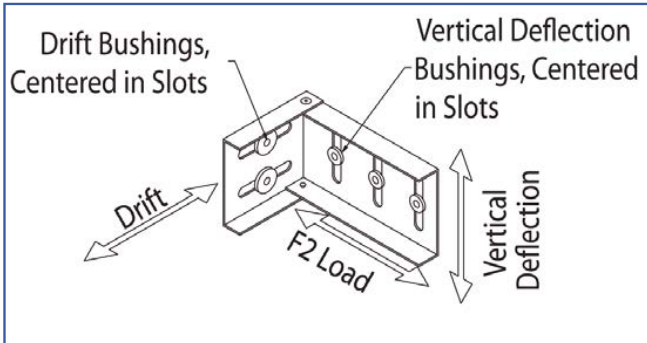
\* If more than 2" lateral drift is required, contact TSN engineering.

\*\* One row of bridging is recommended at a maximum distance of 12" from DriftClip to resist torsional effects.

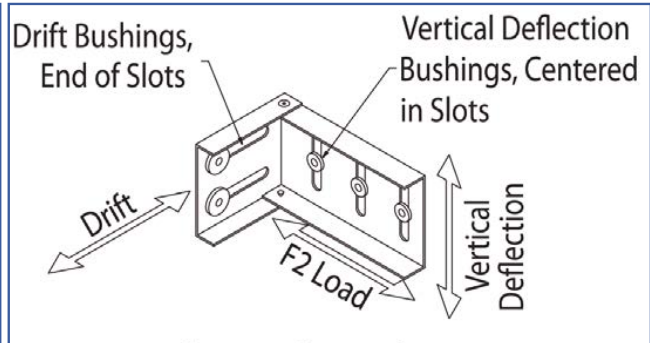
## Load Direction



Fastener Patterns



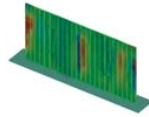
**Fastener Pattern 1** replicates a condition of out-of-plane wind or seismic force with no vertical live load deflection or in-plane drift.



**Fastener Pattern 2** replicates a condition of out-of-plane wind or seismic force with or without full vertical live load deflection and full in-plane drift.



DriftClip DSLB362/400,  
 DSLB600 & DSLB800  
 ICC-ESR-2049  
 www.icc-es.org



DriftClip DSLB Series  
 Blast and Seismic Design data



The Steel Network, Inc.