

# DriftClip® DSL

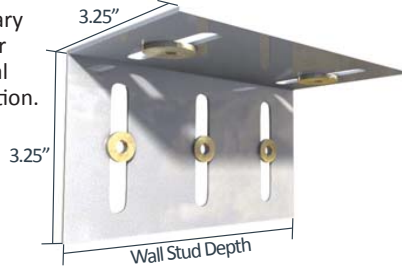
Exterior Head of Wall



**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 DSL 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 DSL Allowable (Unfactored) Loads<sup>1</sup>**

DriftClip® DSL, Recommended Allowable Load (lbs): F2											
Stud		Fastener Pattern 1					Fastener Pattern 2				
Thickness Mils (ga)	Yield Strength (ksi)	DSL362 w/2 #12 Screws	DSL600 w/2 #12 Screws	DSL600 w/3 #12 Screws	DSL800 w/2 #12 Screws	DSL800 w/3 #12 Screws	DSL362 w/2 #12 Screws	DSL600 w/2 #12 Screws	DSL600 w/3 #12 Screws	DSL800 w/2 #12 Screws	DSL800 w/3 #12 Screws
33 (20)	33	357	377	565	377	565	129	377	418	377	565
33 (20)	50	357	544	776	544	817	129	418	418	544	817
43 (18)	33	357	561	776	561	841	129	418	418	560	841
43 (18)	50	357	776	776	810	1,041	129	418	418	810	1,041
54 (16)	33	357	776	776	789	1,041	129	418	418	789	1,041
54 (16)	50	357	776	776	1,041	1,041	129	418	418	1,041	1,041
68 (14)	50	357	776	776	1,041	1,041	129	418	418	1,041	1,041
97 (12)	50	357	776	776	1,041	1,041	129	418	418	1,041	1,041
<b>Max Allowable Clip Load</b>		<b>357</b>	<b>776</b>		<b>1,041</b>		<b>129</b>	<b>418</b>		<b>1,041</b>	

**Notes:**

- Design loads are for attachment of DriftClip DSL to stud only. Load tables reflect horizontal loads (F2).
- Attachment to structure engineered by others.
- Allowable loads have not been increased for wind, seismic, or other factors.
- Two (2) #12 screws are provided with each DriftClip DSL for attachment to stud.
- DriftClip DSL 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.
- Attachment to structure engineered by others. As a design reference, follow ICC-ESR-3332 for allowable loads for screw fasteners of ¼" - 20 size with various plate thickness.

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

**Load Direction**



**Nomenclature**

DriftClip DSL is classified by multiplying stud depth by 100.

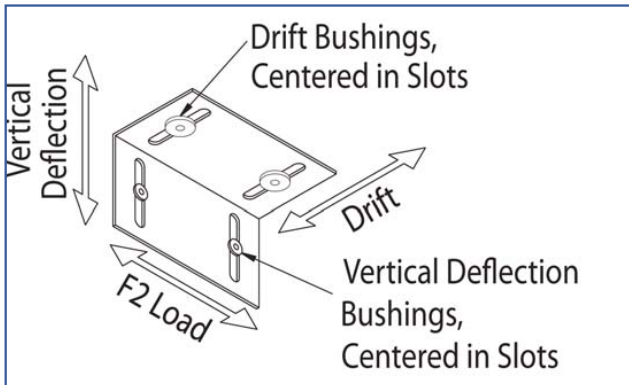
*Example: 6" stud depth*

*Designate: DriftClip® DSL600*

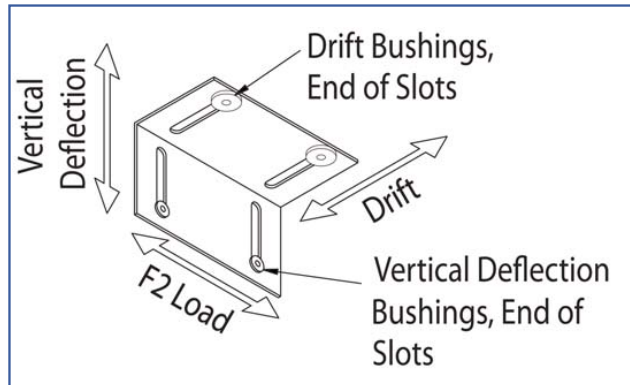
- \* If more than 2" lateral drift is required, contact TSN engineering.
- \*\* One row of bridging is recommended at a maximum distance of 12" from DriftClip to resist torsional effects.
- \*\*\* Three screws & step bushings are available in 6" sizes and higher. Specify that 3 slots are needed when placing order.



**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.

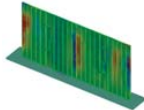


**Fastener Pattern 2** replicates a condition of out-of-plane wind or seismic force with full vertical live load deflection and full in-plane drift.



DriftClip DSL362/400,  
DSL600 & DSL800

ICC-ESR-2049



DriftClip DSL Series  
Blast and Seismic Design data

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