ebuildingproducts.com



DriftClip[®] DSLS Bypass Structure

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 DSLS 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. A minimum of 3.5" of DSLS is required for attachment to steel structure and a minimum of 6" is required for attachment to concrete structure.





DriftClip DSLS Allowable (Unfactored) Loads¹

DriftClip [®] DSLS, Recommended Allowable Load (lbs): F2 - Fastener Pattern 1										
Stud		DSLS362/400-9	DSLS362/400-12	DSLS600-10		DSLS600-12		DSLS600-15		
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/2 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	
33 (20)	33	377	377	377	565	377	565	377	565	
33 (20)	50	544	544	544	817	544	817	544	817	
43 (18)	33	561	561	561	841	561	841	561	841	
43 (18)	50	810	810	810	1,204	810	1,215	810	1,215	
54 (16)	33	789	789	789	1,183	789	1,183	789	1,183	
54 (16)	50	961	1,139	1,139	1,204	1,139	1,709	1,139	1,709	
68 (14)	50	961	1,237	1,204	1,204	1,610	1,862	1,610	1,903	
97 (12)	50	961	1,237	1,204	1,204	1,698	1,862	1,698	1,903	
Max Allowable Clip Load		961	1,237	1,204		1,862		1,903		

DriftClip [®] DSLS, Recommended Allowable Load (lbs): F2 - Fastener Pattern 1										
Stud		DSLS600-20		DSLS800-12		DSLS800-15		DSLS800-20		
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/3 #12 Screws							
33 (20)	33	377	565	377	565	377	565	377	565	
33 (20)	50	544	817	544	817	544	817	544	817	
43 (18)	33	561	841	561	841	561	841	561	841	
43 (18)	50	810	1,215	810	1,164	810	1,215	810	1,215	
54 (16)	33	789	1,183	789	1,164	789	1,183	789	1,183	
54 (16)	50	1,139	1,709	1,139	1,164	1,139	1,709	1,139	1,709	
68 (14)	50	1,610	2,236	1,164	1,164	1,610	1,894	1,610	1,822	
97 (12)	50	1,698	2,236	1,164	1,164	1,698	1,894	1,698	1,822	
Max Allowable Clip Load		2,236		1,164		1,894		1,822		

DriftClip [®] DSLS, Recommended Allowable Load (lbs): F2 - Fastener Pattern 2										
Stud		DSLS362/400-9	DSLS362/400-12	DSLS600-10		DSLS600-12		DSLS600-15		
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/2 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	w/2 #12 Screws	w/3 #12 Screws	
33 (20)	33	377	377	377	565	377	565	377	565	
33 (20)	50	544	544	544	817	544	817	544	817	
43 (18)	33	561	561	561	841	561	841	561	841	
43 (18)	50	810	810	810	1,018	810	1,215	810	1,215	
54 (16)	33	789	789	789	1,018	789	1,183	789	1,183	
54 (16)	50	943	1,078	1,018	1,018	1,139	1,709	1,139	1,709	
68 (14)	50	943	1,078	1,018	1,018	1,610	1,742	1,610	1,903	
97 (12)	50	943	1,078	1,018	1,018	1,698	1,742	1,698	1,903	
Max Allowable Clip Load		943	1,078	1.018		1,7	42	1.903		

******DriftClip DSLS Allowable Load tables and important notes continued on next page.

042016

ebuildingproducts.com

DriftClip® DSLS, Recommended Allowable Load (lbs): F2 - Fastener Pattern 2										
Stud		DSLS600-20		DSLS800-12		DSLS800-15		DSLS800-20		
Thickness Mils (ga)	Yield Strength (ksi)	w/2 #12 Screws	w/3 #12 Screws							
33 (20)	33	377	565	377	565	377	565	377	565	
33 (20)	50	544	817	544	817	544	817	544	817	
43 (18)	33	561	841	561	841	561	841	561	841	
43 (18)	50	810	1,215	810	1,158	810	1,198	810	1,215	
54 (16)	33	789	1,183	789	1,158	789	1,183	789	1,183	
54 (16)	50	1,139	1,663	1,139	1,158	1,139	1,198	1,139	1,246	
68 (14)	50	1,610	1,663	1,158	1,158	1,198	1,198	1,246	1,246	
97 (12)	50	1,663	1,663	1,158	1,158	1,198	1,198	1,246	1,246	
Max Allowable Clip Load		1,663		1,158		1,198		1,246		

Notes:

- Design loads are for attachment of DriftClip DSLS to stud only. Load tables reflect horizontal loads (F2)
- Attachment to structure engineered by others. As a design reference, follow ICC-ESR-3332 for allowable loads for screw fasteners of %"- 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.
- One row of bridging is recommended at a maximum distance of 12" from DriftClip to resist torsional effects.
- Return lip added for clips longer than 20".
- DriftClip DSLS 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.

¹ For LRFD Design Strengths for DSLS600-12 and DSLS600-15 refer to ICC-ESR-2049.

Nomenclature

DriftClip DSLS is classified by multiplying stud depth by 100, followed by length.

Example: 6" stud depth, 15" length *Designate:* DriftClip[®] DSLS600-15

- * 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 for attachment to stud 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 DSLS600-12 & DSLS600-15 ICC-ESR-2049 www.icc-es.org



DriftClip DSLS Series Blast and Seismic Design data



The Steel Network, Inc.

042016



info@ebuildingproducts.com