

DriftClip® DSL

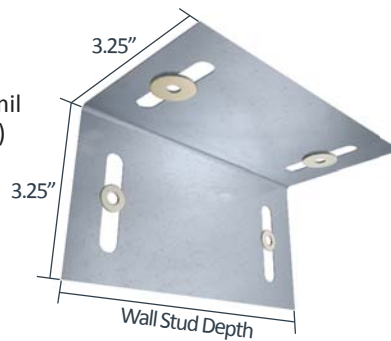
Exterior Head of Wall



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 1/4" 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 Patents #6,612,087 & #7,104,024

DriftClip DSL Allowable (Unfactored) Loads¹

| 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 | 1041 | 129 | 418 | 418 | 810 | 1,041 | |
| 54 (16) | 33 | 357 | 776 | 776 | 789 | 1041 | 129 | 418 | 418 | 789 | 1,041 | |
| 54 (16) | 50 | 357 | 776 | 776 | 1041 | 1041 | 129 | 418 | 418 | 1,041 | 1,041 | |
| 68 (14) | 50 | 357 | 776 | 776 | 1041 | 1041 | 129 | 418 | 418 | 1,041 | 1,041 | |
| 97 (12) | 50 | 357 | 776 | 776 | 1041 | 1041 | 129 | 418 | 418 | 1,041 | 1,041 | |
| Max Allowable Clip Load | | 357 | 776 | 776 | 1041 | 1041 | 129 | 418 | 418 | 1,041 | 1,041 | |

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 1/4" - 20 size with various plate thickness.

¹ 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

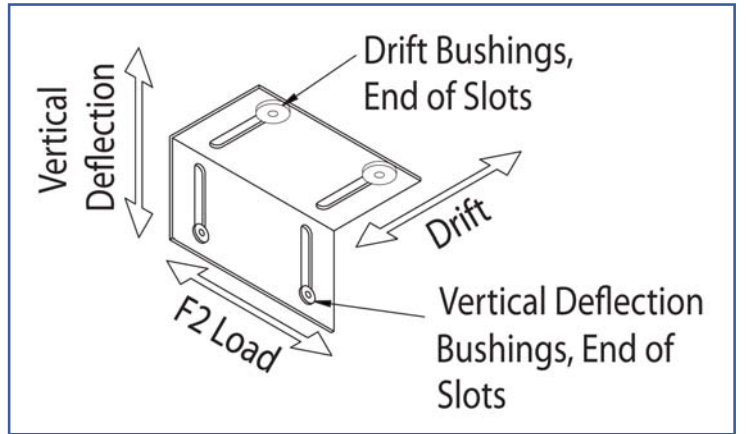
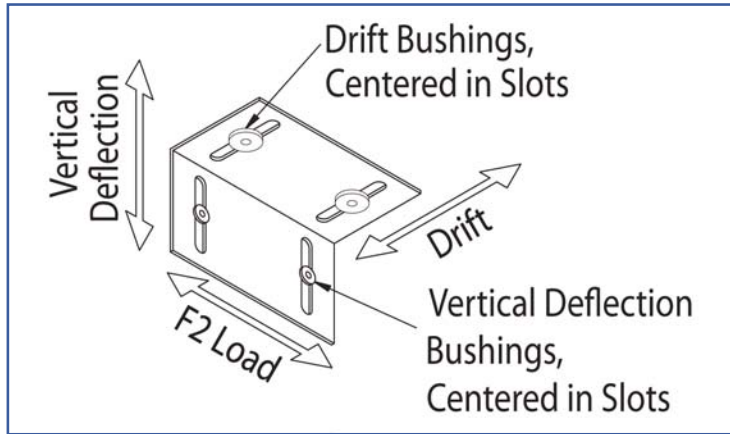
Designate: DriftClip® DSL600

* 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.

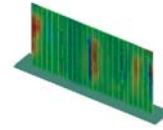
Fastener Pattern 2 replicates a condition of out-of-plane wind or seismic force with full vertical live load deflection and full in-plane drift.



DriftClip DSL
ICC-ESR-2049
www.icc-es.org



DriftClip DSL Series
LARR #25781
www.ladbs.org



DriftClip DSL Series
Blast and Seismic Design data
www.steelnetwork.com

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