



ICC-ES Evaluation Report ESR-2049

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The Steel Network, Inc.

www.steelnetwork.com

1-888-474-4876



DIVISION: 05 00 00—METALS

Section: 05 05 23—Metal Fastenings

Section: 05 40 00—Cold-Formed Metal Framing

DIVISION: 09 00 00—FINISHES

Section: 09 22 16.13—Non-Structural Metal Stud Framing

REPORT HOLDER:

THE STEEL NETWORK, INC.
2012 T.W. ALEXANDER DRIVE
POST OFFICE BOX 13887
DURHAM, NORTH CAROLINA 27709
(919) 845-1025

www.steelnetwork.com
support@steelnetwork.com

EVALUATION SUBJECT:

VERTICLIP®, DRIFTCLIP® AND DRIFTTRAK® EXTERIOR CURTAIN WALL AND INTERIOR HEAD-OF-WALL STEEL STUD CONNECTORS

1.0 EVALUATION SCOPE

Compliance with the following code:

2012, 2009 and 2006 *International Building Code*® (IBC)

Properties evaluated:

Structural

2.0 USES

2.1 VertiClip® Exterior Curtain Wall Connectors:

The VertiClip® SL, SLB, SLS, and SLT cold-formed steel connectors are used to attach the steel studs of a building's exterior curtain wall to structural members, and are designed to transfer wind or seismic loads acting perpendicular to the exterior curtain wall and to accommodate vertical movement between exterior wall elements and the primary structure.

2.2 DriftClip® and DriftTrak® Exterior Curtain Wall Connectors:

The DriftClip® DSLB, DSLS, and DSL, and DriftTrak® DTSLB and DTSL, cold-formed steel connectors are used to attach the steel studs of a building's exterior curtain wall to structural members, to transfer wind or seismic loads acting perpendicular to the exterior curtain wall and to accommodate vertical movement and horizontal (in-plane of wall) movement between exterior wall elements and the primary structure.

2.3 VertiClip® Interior Top-of-wall Connector:

The VertiClip® SLD cold-formed steel connector is used to attach the top of interior nonload-bearing steel studs (top-of-wall connection) to the building's structural floor/ceiling or roof/ceiling deck, and is designed to transfer loads acting perpendicular to the interior nonload-bearing wall and to accommodate vertical movement of the building's floor/ceiling or roof/ceiling deck.

2.4 DriftClip® Interior Top-of-wall Connector:

The DriftClip® DSLD cold-formed steel connector is used to attach the top of interior nonload-bearing steel studs (top-of-wall connection) to the building's structural floor/ceiling or roof/ceiling deck, to transfer loads acting perpendicular to the interior nonload-bearing wall and to accommodate vertical movement and horizontal (in-plane of wall) movement of the building's floor/ceiling or roof/ceiling deck.

3.0 DESCRIPTION

3.1 VertiClip® SL, SLB, SLS, and SLT Exterior Curtain Wall Stud Connectors:

3.1.1 General: VertiClip model numbers correspond to the depth of the cold-formed steel stud attached to the VertiClip; e.g., a VertiClip connector with a model number 362 is designed to be attached to a 3 5/8-inch-deep (92 mm) steel stud, where the depth of the steel stud is rounded to 3.62 and is reported as 362. Each VertiClip exterior curtain wall stud connector has two or more vertical slots with factory-installed bushings located in the center of each slot, through which a #12 self-drilling, tapping steel screw is installed to attach the clip to the stud, allowing horizontal loads to be transferred from the stud web to the supporting structure while allowing vertical movement of the structure with negligible friction. The Steel Network, Inc., supplies the required number of screws with each clip for attachment to steel studs. Fasteners used to attach the clips to the supporting structure must be designed and specified by a registered design professional.

3.1.2 VertiClip® SL: VertiClip SL362, 600 and 800 are L-shaped angles that connect 3 5/8-, 6- and 8-inch-deep (92, 152, and 203 mm) exterior curtain wall steel studs, respectively, at head of wall to the building's structural frame while allowing for a maximum of 1 1/2 inches (38.1 mm) of vertical movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clips is 0.0677 inch (1.7 mm). The long leg of the VertiClip SL362, SL600 and SL800 connectors, which is fastened to the curtain wall stud, has two or three vertical slots, each 3/8 inch (9.5 mm) wide by 1 7/8 inches (47.6 mm) long. Refer to Figure 1 for overall dimensions of each VertiClip SL connector and a typical installation detail.

3.1.3 VertiClip® SLB: The VertiClip SLB600 is an L-shaped angle that connects 6-inch-deep (152 mm) exterior curtain wall steel studs to a concrete floor slab's pour stop angle while allowing a maximum of 2 inches (51 mm) of vertical movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clip is 0.0677 inch (1.7 mm). The long leg of the connector, which is fastened to the curtain wall stud, has three vertical slots, each 3/8 inch (9.5 mm) wide by 2 3/8 inches (60.3 mm) long. Refer to Figure 2 for overall dimensions of the VertiClip SLB600 connector and a typical installation detail.

3.1.4 VertiClip® SLS: The VertiClip SLS600-12 is an L-shaped angle that connects 6-inch-deep (152 mm) exterior curtain walls to a building's structural steel spandrel beam or structural concrete floor slab, while allowing for a maximum of 1 1/2 inches (38 mm) of vertical movement between exterior wall elements and the

primary structure. The minimum base-metal thickness of the clip is 0.0677 inch (1.7 mm). The designation "-12" following the model number SLS600, represents the total length, in inches, of the connector. The end of the connector that is attached to the curtain wall framing members has two or three vertical slots, each $\frac{3}{8}$ inch (9.5 mm) wide by $1\frac{7}{8}$ inches (47.6 mm) long. Refer to Figure 3 for overall dimensions of the VertiClip SLS600-12 connector and a typical installation detail.

3.1.5 VertiClip® SLT: VertiClip SLT-9.5 and SLT(L)-18 are formed steel plates having one upward and one downward vertical leg at the end of the connectors that attach to the curtain wall framing members. The minimum base-metal thickness of the plates is 0.0966 inch (2.5 mm). Each leg of the SLT-9.5 is $1\frac{1}{2}$ inches (38 mm) wide by $2\frac{1}{4}$ inches (57 mm) high, and has one vertical slot measuring $\frac{5}{16}$ inch (8 mm) wide by $1\frac{3}{8}$ inches (35 mm) long, allowing for a maximum 1-inch (25.4 mm) vertical movement of the framing members. Each leg of the SLT(L)-18 is $2\frac{13}{16}$ inches (71 mm) wide by $3\frac{1}{8}$ inches (79 mm) high, and has two vertical slots measuring $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{1}{4}$ inches (57 mm) long, allowing for a maximum of $1\frac{7}{8}$ inches (47.6 mm) of vertical movement between exterior wall elements and the primary structure. The bend in the steel plate at the vertical legs of the SLT(L)-18 is reinforced with two $\frac{3}{8}$ -inch-by- $\frac{5}{8}$ -inch (9.5 mm by 15.9 mm) L-shaped steel angles that are factory-attached with four $\frac{3}{16}$ -inch-diameter (4.8 mm) rivets. The angle reinforcement is $4\frac{3}{8}$ inches (111 mm) long and has a minimum base-metal thickness of 0.0677 inch (1.7 mm). Refer to Figure 4 for overall dimensions of the VertiClip SLT-9.5 and SLT(L)-18 connectors and a typical installation detail.

3.2 VertiClip® SLD Interior Wall Stud Connector:

The VertiClip SLD600 is an L-shaped angle that connects the top end of 6-inch-deep (152 mm) interior wall steel studs to a metal deck above, while allowing for a maximum $1\frac{1}{2}$ -inch (38 mm) vertical movement. The minimum base-metal thickness of the clip is 0.0329 inch (0.8 mm). The long leg of the VertiClip SLD600 connector, which is fastened to the web of the interior wall steel stud, has two vertical slots, each $\frac{3}{8}$ inch (9.5 mm) wide by $1\frac{7}{8}$ inches (47.6 mm) long. Each vertical slot has a factory-installed bushing located in the center of the slot, through which a #8 self-drilling, tapping steel screw is installed to attach the clip to the stud, allowing horizontal loads to be transferred from the stud web to the supporting structure while permitting for vertical movement of the structure with negligible friction. The Steel Network, Inc., supplies the required number of steel screws with each clip for attaching it to the steel studs. Refer to Figure 5 for overall dimensions of the VertiClip SLD600 connector and a typical installation detail.

3.3 DriftClip® DSLB, DSLS, and DSL and DriftTrak® DTSLB and DTSL, Exterior Curtain Wall Stud Connectors:

3.3.1 General: DriftClip® and DriftTrak® model numbers correspond to the depth of the cold-formed steel stud attached to the DriftClip®. For example, a DriftClip® connector with a model number 362 is designed to be attached to a $3\frac{5}{8}$ -inch-deep (92 mm) steel stud, where the depth of the steel stud is rounded to 3.62 inches (92 mm) and is reported as 362. Each DriftClip® and DriftTrak® exterior stud connector has two or more vertical slots with factory-installed bushings located in the center of each slot, through which a No.12, self-drilling/self-tapping steel screw supplied by the Steel Network, Inc., is installed to attach the clip to

the stud, allowing horizontal loads to be transferred from the stud web to the supporting structure while allowing vertical movement of the structure with negligible friction. Each DriftClip® also has two or more horizontal slots with factory-installed bushings located in the center of each slot, through which a $\frac{1}{4}$ -inch-diameter (6.4 mm) fastener designed and specified by a registered design professional, and not supplied by The Steel Network, Inc., is installed to attach the clip to the structure, allowing horizontal loads to be transferred from the stud web to the supporting structure while allowing horizontal (in-plane of wall) movement of the structure with negligible friction. DriftTrak® consists of a clip that slides into a track component that is attached to the structure with fasteners designed and specified by a registered design professional, not supplied by the Steel Network Inc., that allows the clip component to move freely in-plane along the track allowing horizontal loads to be transferred from the stud web to the supporting structure while allowing horizontal (in-plane of wall) movement of the structure with negligible friction.

3.3.2 DriftClip® DSLB: DriftClip® DSLB362/400, 600 and 800 are L-shaped angles that connect $3\frac{5}{8}$ - or 4-, 6- and 8-inch-deep (92 or 102, 152, and 203 mm) exterior curtain wall steel studs, respectively, to a concrete floor slab's pour stop angle while allowing a maximum of 2 inches (51 mm) of vertical and horizontal movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clips is 0.0966 inch (2.5 mm). The leg which matches the wall depth and is fastened to the curtain wall stud has two or three slots parallel to the heel of the angle, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long with a bushing designed for No. 12 self-drilling/self-tapping steel screw installed in the centers of the slots. The $3\frac{3}{4}$ -inch (95 mm) leg, which is fastened to the structure, has bushings designed a for $\frac{1}{4}$ -inch-diameter (6.4 mm) fastener installed in the center of each slot. Refer to Figure 6 for overall dimensions of each DriftClip® DSLB connector and a typical installation detail.

3.3.3 DriftClip® DSLS: DriftClip® DSLS600-12 and DSLS600-15 are L-shaped angles that connect 6-inch-deep (152 mm) cold-formed steel framing of exterior curtain walls to a building's structural steel spandrel beam or structural concrete floor slab, while allowing a maximum of 2 inches (51 mm) of vertical and horizontal movement between curtain wall elements and the primary structure. The minimum base-metal thickness of the clips is 0.0966 inch (2.5 mm). The -12 and -15 following the model number DSLS600 represent the total length, in inches, of the connector. The two legs of the DriftClip® DSLS600-12 and -15 connectors are equal in length, and each has two or three slots perpendicular to the heel of the angle, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long. The leg that is fastened to the curtain wall stud has bushings designed for No. 12 self-drilling/self-tapping steel screws installed in the centers of the slots. The other leg, which is fastened to the structure, has bushings designed for $\frac{1}{4}$ -inch-diameter (6.4 mm) fasteners installed in the centers of the slot. Refer to Figure 7 for overall dimensions of each DriftClip® DSLS connector and a typical installation detail.

3.3.4 DriftClip® DSL: DriftClip® DSL362/400, 600 and 800 are L-shaped angles that connect $3\frac{5}{8}$ - or 4-, 6- and 8-inch-deep (92 or 102, 152, and 203 mm) exterior curtain wall steel studs, respectively, at head of wall to the building's structural frame while allowing for a maximum of 2 inches (51 mm) of vertical, and horizontal movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clips is 0.0966 inch (2.5 mm). The two

legs of the DriftClip® DSL362/400, 600 and 800 connectors are equal in length, and each has two or three slots perpendicular to the heel of the angle, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long. The leg that is fastened to the curtain wall stud has bushings designed for No. 12 self-drilling/self-tapping steel screws installed in the center of each slot. The other leg, which is fastened to the structure, has bushings designed for $\frac{1}{4}$ -inch-diameter (6.4 mm) fasteners installed in the centers of the slots. Refer to Figure 8 for overall dimensions of each DriftClip® DSL connector and a typical installation detail.

3.3.5 DriftTrak® DTSLB: DriftTrak® DTSLB362/400, 600 and 800 are L-shaped angle and track combinations that connect $3\frac{5}{8}$ - or 4-, 6- and 8-inch-deep (92 or 102, 152, and 203 mm) exterior curtain wall steel studs, respectively, to a concrete floor slab's pour-stop angle while allowing a maximum of 2 inches (51 mm) of vertical movement, and free horizontal movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clip is 0.0677 inch (1.7 mm), and the minimum base-metal thickness of the track is 0.0966 inch (2.5 mm). The long leg of the DriftTrak® DTSLB connector, which is fastened to the curtain wall stud, has two or three vertical slots, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long and has bushings designed for No. 12 self-drilling/self-tapping steel screws installed in the centers of the slots. Refer to Figure 9 for overall dimensions of each DriftClip® DTSLB connector and a typical installation detail.

3.3.6 DriftTrak® DTSL: The DriftTrak® DTSL is an L-shaped angle and track combination that connects exterior curtain wall steel studs of various depths at head of wall to the building's structural frame while allowing for a maximum of 2 inches (51 mm) of vertical movement, and free horizontal movement between exterior wall elements and the primary structure. The minimum base-metal thickness of the clip is 0.0677 inch (1.7 mm) and the minimum base-metal thickness of the track is 0.0966 inch (2.5 mm). The long leg of the DriftTrak® DTSL connector, which is fastened to the curtain wall stud, has two vertical slots, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long, and has bushings designed for No. 12 self-drilling/self-tapping steel screws installed in the centers of the slots. Refer to Figure 10 for overall dimensions of each DriftTrak® DTSL connector and a typical installation detail.

3.4 DriftClip® DSLD Interior Top-of-Wall Stud Connectors:

DriftClip® DSLD362/400, 600 and 800 are L-shaped angles that connect $3\frac{5}{8}$ - or 4-, 6- and 8-inch-deep (92 or 102, 152, and 203 mm) interior wall steel studs, respectively, at head of wall to a metal deck above, while allowing for a maximum of 2 inches (51 mm) of vertical movement, and horizontal (in-plane of wall) movement between interior wall elements and the primary structure. The minimum base-metal thickness of the clips is 0.0329 inch (0.8 mm). The two legs of the DriftClip® DSLD362/400, 600 and 800 connectors are equal in length, and each has two or three slots perpendicular to the heel of the angle, each $\frac{3}{8}$ inch (9.5 mm) wide by $2\frac{3}{8}$ inches (60 mm) long, with bushings designed for No. 8 self-drilling/self-tapping steel screws installed in the centers of the slots. Refer to Figure 11 for overall dimensions of each DriftClip® DSLD connector and a typical installation detail.

3.5 Materials:

3.5.1 VertiClip®, DriftClip® and DriftTrak®: The VertiClip®, DriftClip® and DriftTrak® connectors described in this report are manufactured from ASTM A1003-13, Structural Grade 50 (ST50H) steel.

There is a minimum G90 zinc-coating designation for VertiClip® SL, SLB, SLS, and SLT Exterior Curtain Wall Stud Connectors, and a minimum G60 zinc-coating designation for the VertiClip® SLD Interior Wall Stud Connector.

There is a minimum G90 zinc-coating designation for DriftClip® DSL, DSLB, DSLS and the clip component of the DriftTrak® DTSL and DTSLB Exterior Curtain Wall Stud Connectors, and a minimum G60 zinc-coating designation for the DriftClip® DSLD Interior Curtain Wall Stud Connectors and the track component of the DriftTrak® DTSL and DTSLB.

3.5.2 Bushings: The bushings are proprietary and factory-installed on each VertiClip®, DriftClip® and DriftTrak® product, and are not available separately for field installation.

The bushings through which the attachment to the stud is made for all VertiClip®, DriftClip® and DriftTrak® clips are manufactured from carbon steel conforming to ASTM B783-04 (F-0008-35) as stipulated in the approved quality control manual.

The bushings through which the attachment to the structure is made for DriftClip® DSLD are manufactured from carbon steel conforming to ASTM B783-04, F-0008-35 as stipulated in the approved quality control manual.

The bushings through which the attachment to the structure is made for DriftClip® DSL, DSLB, and DSLS are manufactured from ASTM A576, Grade 12L14 steel as stipulated in the approved quality control manual.

3.5.3 Screws: Screws used with VertiClip®, DriftClip® and DriftTrak® series for the attachment to the stud must be self-drilling/self-tapping steel screws, as follows:

- a. The #8 self-drilling, tapping metal screws used with the VertiClip® SLD600 must have a minimum nominal screw shear strength, P_{SS} , of 1,340 pounds.
- b. The #12 self-drilling, tapping metal screws used with the VertiClip® SLS600-12, SLB600, SL362, SL600, SL800, SLT-9.5 and SLT(L)-18 must have a minimum nominal screw shear strength, P_{SS} , of 2,210 pounds.
- c. The No. 8 self-drilling tapping screws used with the DriftClip® DSLD362/400, DSLD600, and DSLD800 must have a minimum nominal screw shear strength, P_{SS} , of 1,330 pounds.
- d. The No. 12 self-drilling tapping screws used with the DriftClip® DSLB362/400, DSLB600, DSLB800, DSLS600-12, DSLS600-15, DSL362/400, DSL600, DSL800, and DriftTrak® DTSLB362/400, DTSLB600, DTSLB800 and DTSL, must have a minimum nominal screw shear strength, P_{SS} , of 2,400 pounds.

3.5.4 Cold-formed Steel Studs: The available strength loads specified in Table 1 are applicable to connections with steel studs fabricated from cold-formed steel complying with ASTM A1003-13/A 1003M Grade ST50H, having a minimum base-metal thickness of 0.0966 inch (2.5 mm).

4.0 DESIGN AND INSTALLATION

Installation of the VertiClip®, DriftClip® and DriftTrak® products must comply with this report and the manufacturer's published installation instructions. See footnotes to Table 1 for design requirements.

5.0 CONDITIONS OF USE

The VertiClip®, DriftClip® and DriftTrak® products described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Drawings and design details verifying compliance with this report must be submitted to the building official for approval. The drawings and calculations must be prepared by a registered design professional when required by the statutes of the jurisdiction in which the project is to be constructed.

5.2 The products must be installed in accordance with this report and the manufacturer's published installation instructions. If there is a conflict between this report and the manufacturer's published installation instructions, this report governs.

is a conflict between this report and the manufacturer's published installation instructions, this report governs.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Connectors Used with Cold-formed Steel Structural Members (AC261), dated October 2011 (editorially revised August 2013).

7.0 IDENTIFICATION

The VertiClip®, DriftClip® and DriftTrak® products described in this report must be stamped, labeled, or inked with the product designation and the company name (The Steel Network, Inc., or TSN). Each box label must include the company name (The Steel Network, Inc.), product designation/part name, quantity, the ICC-ES evaluation report number (ESR-2049), and a traveler (tracing) number.

TABLE 1

VERTICLIP®, DRIFTCLIP® AND DRIFTTRAK® ALLOWABLE STRESS DESIGN (ASD), LOAD RESISTANCE FACTOR DESIGN (LRFD) STRENGTH, AND DEFLECTION SERVICE LIMIT LOADS ^{1, 2, 3, 7}					
MODEL	SCREWS TO STUD (Quantity) AND SIZE ⁴	FIGURE	ASD ALLOWABLE STRENGTH ⁵ (lbs)	LRFD DESIGN STRENGTH ⁵ (lbs)	SERVICE LIMIT LOAD (lbs) ⁶
VertiClip® SL362	(2) #12	1	790	1,700	790
VertiClip® SL600	(3) #12	1	1,680	2,690	3,440
VertiClip® SL800	(3) #12	1	1,870	2,990	4,570
VertiClip® SLB600	(3) #12	2	1,600	2,560	1,680
VertiClip® SLS600-12	(3) #12	3	2,070	3,315	3,240
VertiClip® SLT-9.5	(2) #12	4	510	820	1,280
VertiClip® SLT(L)-18	(4) #12	4	700	1,120	1,440
VertiClip® SLD600	(2) #8	5	405	650	1,170
DriftClip® DSLB362/400, 600, 800	(2) #12 for DSLB362/400 (3) #12 for DSLB600, 800	6	572	916	735
DriftClip® DSLS600-12	(3) #12	7	1,742	2,787	2,084
DriftClip® DSLS600-15	(3) #12	7	1,903	3,044	2,958
DriftClip® DSL362/400	(2) #12	8	248	397	129
DriftClip® DSL600	(3) #12	8	776	1,241	418
DriftClip® DSL800	(3) #12	8	1,041	1,665	1,510
DriftClip® DSLD362/400	(2) #8	11	53	85	27
DriftClip® DSLD600	(2) #8	11	178	285	107
DriftClip® DSLD800	(2) #8	11	183	294	325
DriftTrak® DTSLB362/400, 600, 800	(2) #12 for DTSLB362/400 (3) #12 for DTSLB600, 800	9	808	1,293	1,304
DriftTrak® DTSL	(2) #12	10	482	771	492

Notes:

¹ Refer to Figures 1 through 11 for direction of load.

² Tabulated values are only applicable for the connection of the VertiClip®, DriftClip® and DriftTrak® connectors to the cold-formed steel stud. The connection of the VertiClip®, DriftClip® and DriftTrak® connectors to the supporting structure must have a design strength (LRFD) or allowable strength (ASD) not less than the design force for the connection to the cold-formed steel stud.

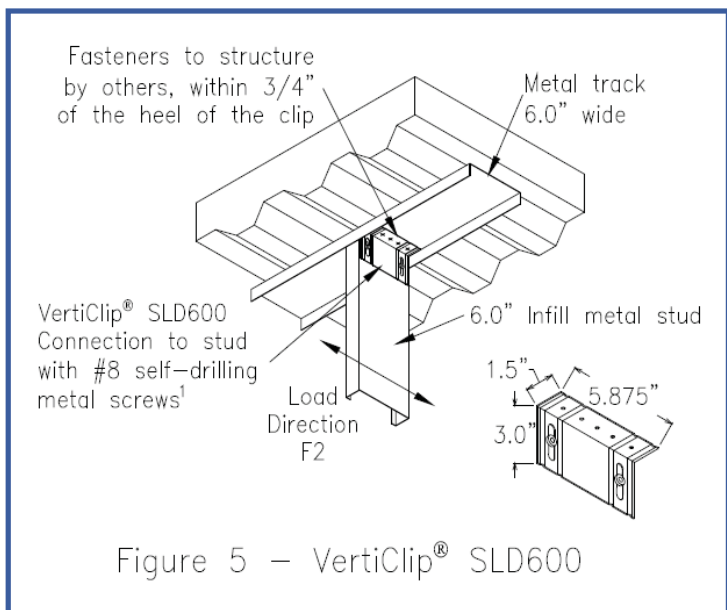
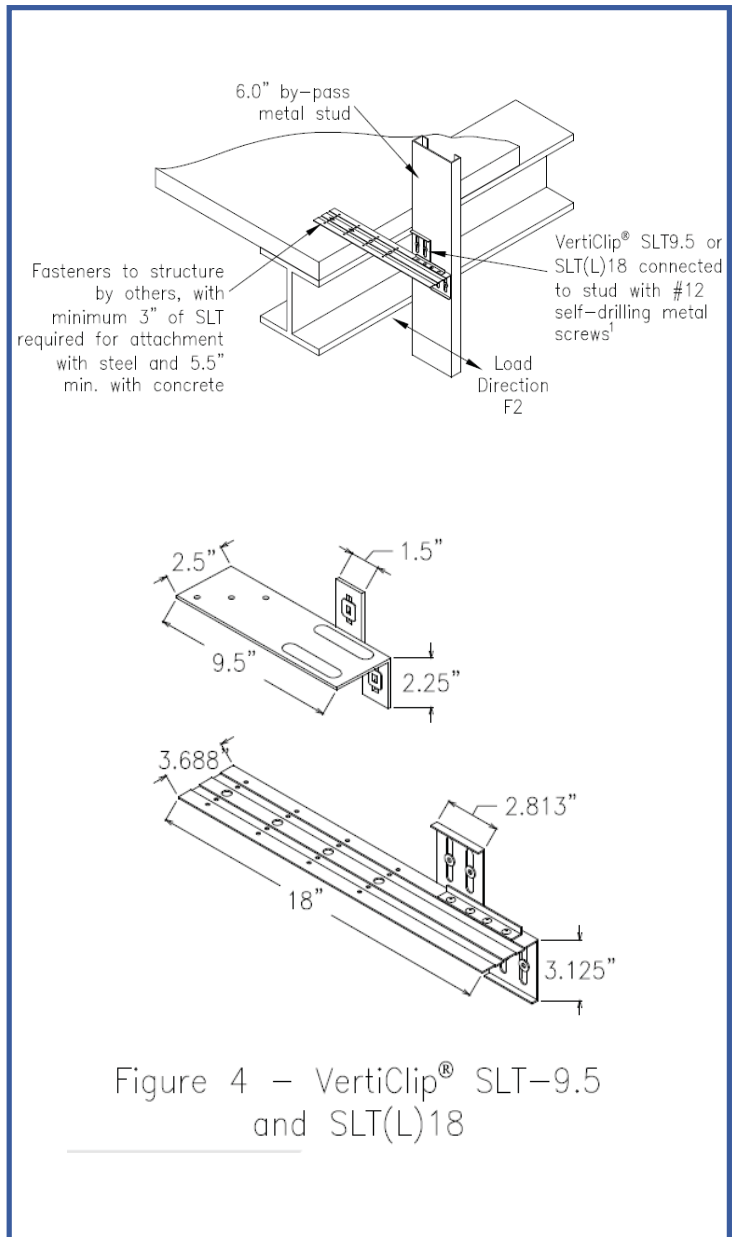
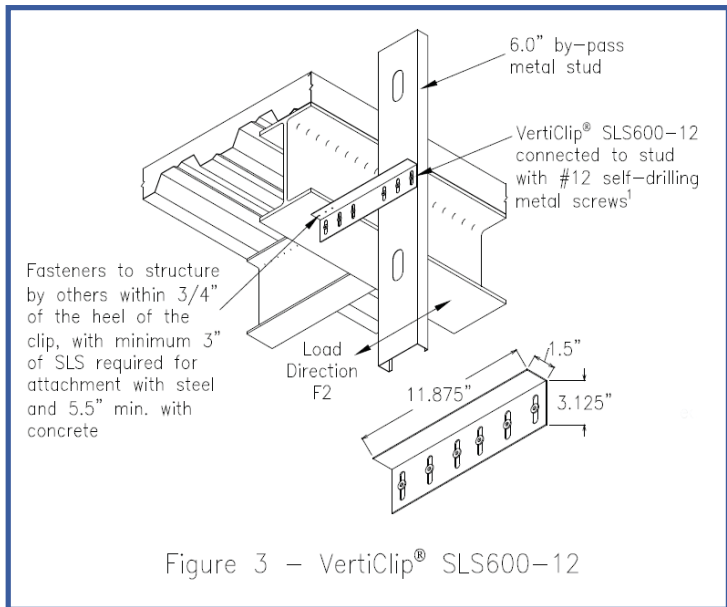
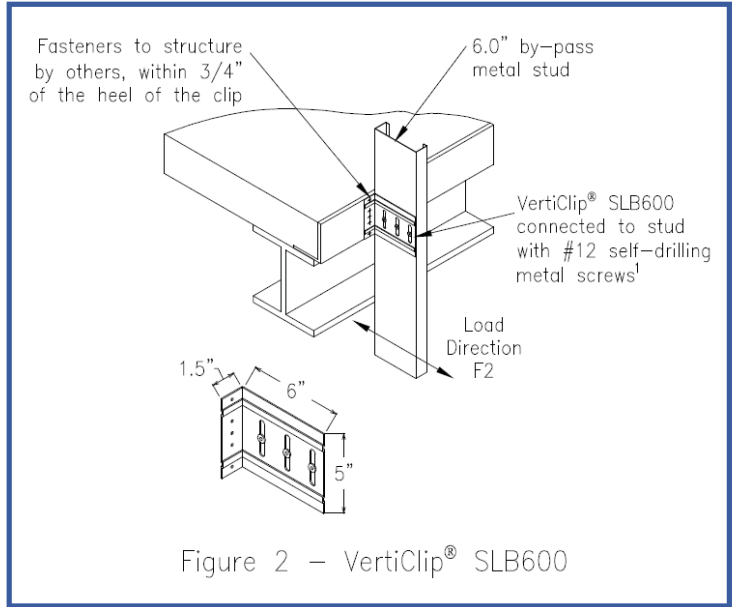
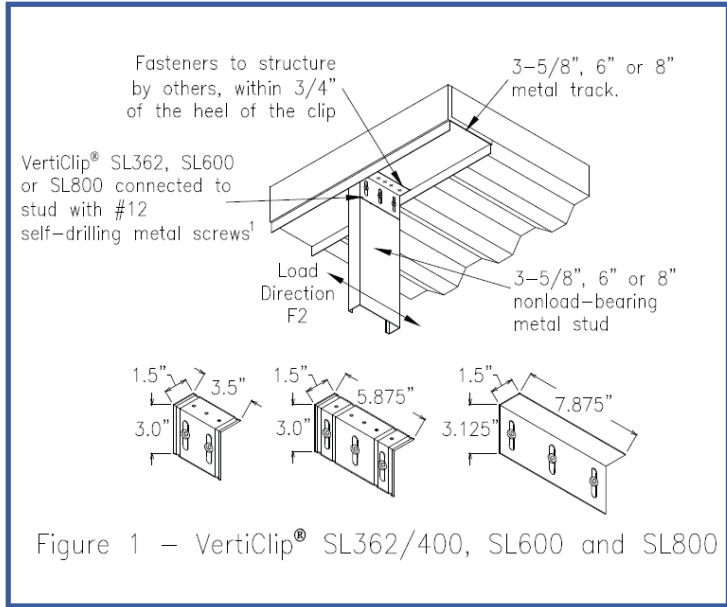
³ If the steel studs connected to VertiClip®, DriftClip® and DriftTrak® connectors have lower base-metal thickness or material strength values than specified in Section 3.5.4, the ASD allowable strength or the LRFD design strength of the steel-stud/connector-screw connection may be calculated according to the AISI cold-formed steel specification referenced by the AISI S100-07/S-02 under the 2012 IBC, AISI S100-07 under the 2009 IBC or NAS-01, including the 2004 Supplement, under the 2006 IBC, but not to exceed the corresponding loads listed in Table 1.

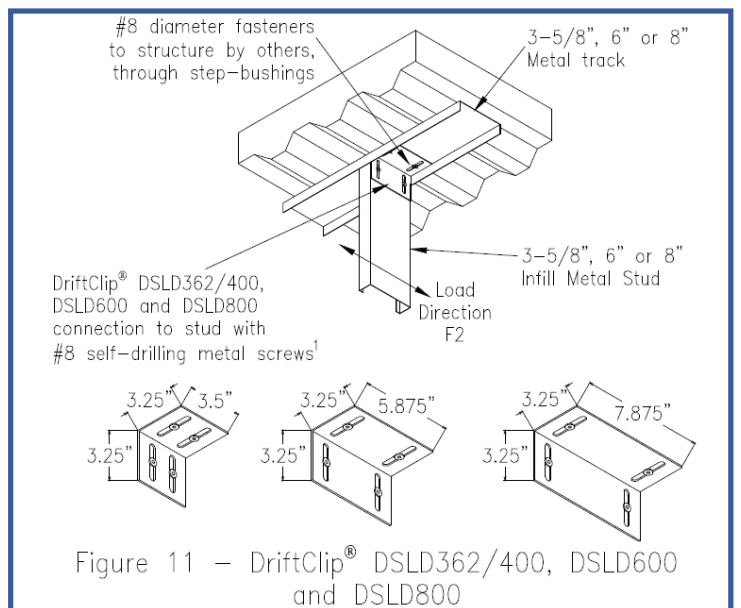
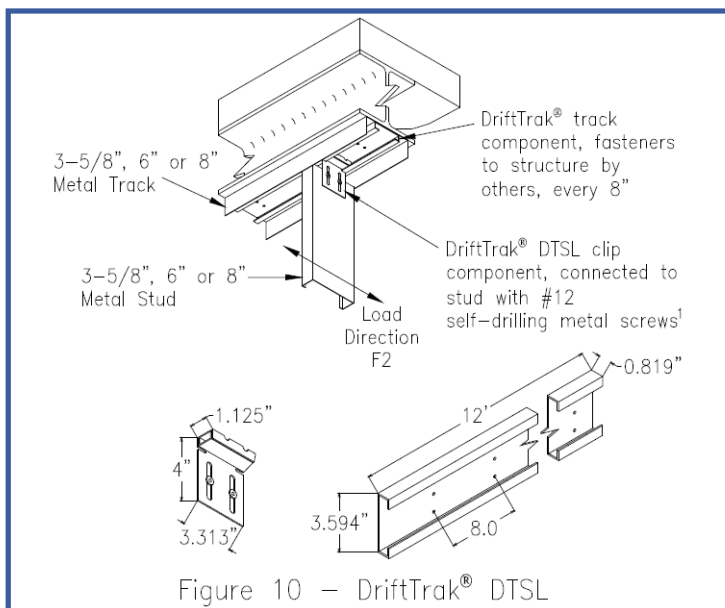
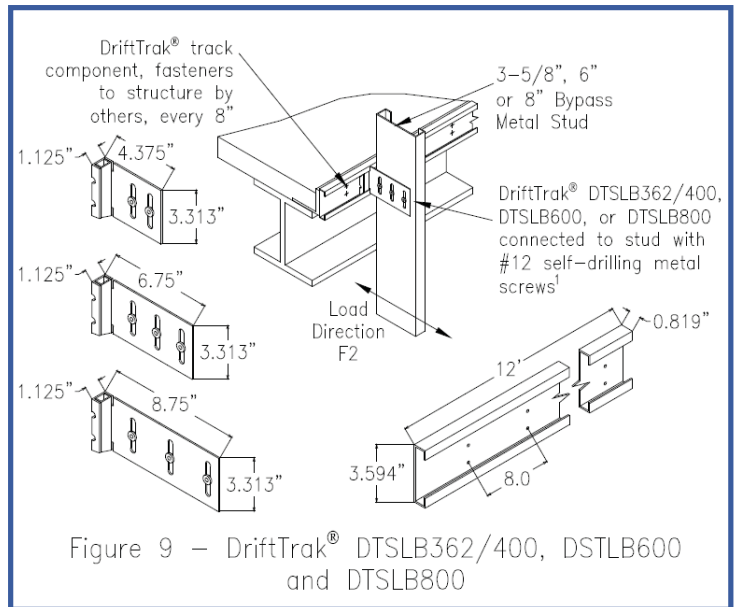
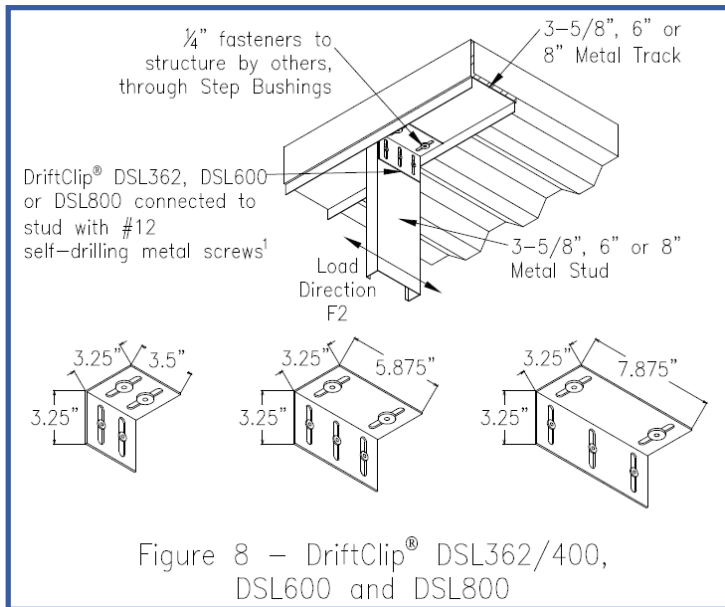
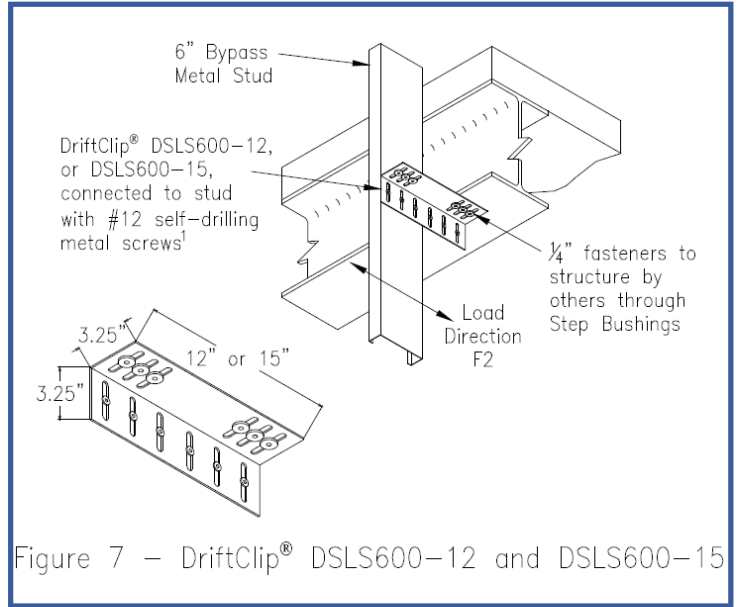
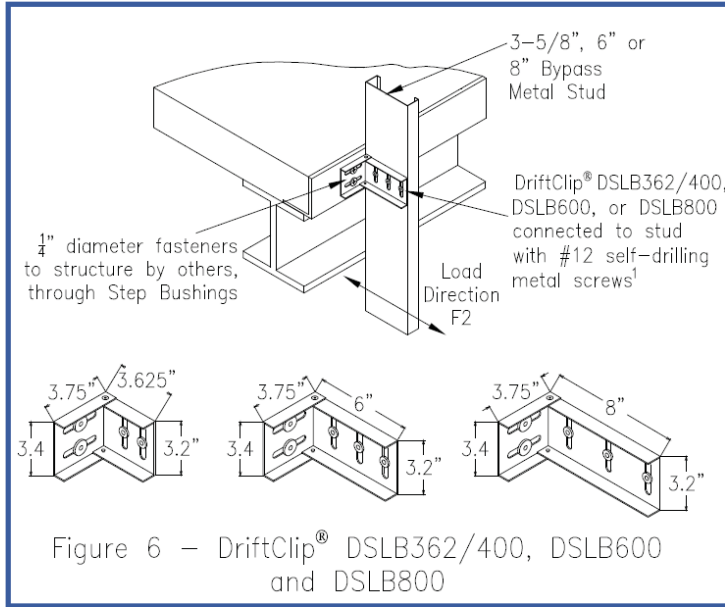
⁴ Screws must comply with Section 3.5.3 of this report, and must be installed in the pre-punched holes and bushings provided in the connectors.

⁵ When using the alternate basic load combinations in IBC Section 1605.3.2 that include wind or seismic loads, the tabulated ASD allowable strength for the DriftClip® and DriftTrak® connectors must not be increased by 33 1/3 percent, nor must the alternative basic load combinations be reduced by a factor of 0.75. When using the basic load combinations in accordance with IBC Section 1605.2.1, the LRFD design strength in Table 1 for the DriftClip® and DriftTrak® connectors must not be increased for wind or seismic loading.

⁶ The Service Limit Load is the average test load at a 3/16-inch deflection service limit for DriftClip® (DSLS, DSL, DSLD, and DSLB) connectors and the average test load at a 1/8-inch deflection service limit for VertiClip® (SL, SLB, SLD, SLS and SLT) and DriftTrak® (DTSLB and DTSL) connectors. The service limit is applicable to both ASD and LRFD.

For SI: 1 lbf = 4.45 N.







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2012 T.W. ALEXANDER DRIVE
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EVALUATION SUBJECT:

VERTICLIP®, DRIFTCLIP® AND DRIFTTRAK® EXTERIOR CURTAIN WALL AND INTERIOR HEAD-OF-WALL STEEL STUD CONNECTORS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that The Steel Network, Inc. VertiClip®, DriftClip® and DriftTrak® exterior curtain wall and interior head-of-wall steel stud connectors, recognised in ICC-ES master evaluation report ESR-2049, have also been evaluated for compliance with Chapters 22 and 22A of the code noted below.

Applicable Code Edition:

2013 *California Building Code* (CBC)

2.0 CONCLUSIONS

The Steel Network, Inc. VertiClip®, DriftClip®, and DriftTrak® connectors, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2049, comply with CBC Chapters 22 and 22A, provided the design and installation are in accordance with the *International Building Code*® provisions noted in the master report and the additional requirements of CBC Chapters 22 and 22A, as applicable.

This supplement expires concurrently with the master report reissued December 2015.



ICC-ES Evaluation Report ESR-2049 CBC Supplement

Reissued December 2015

This report is subject to renewal December 2016.

The Steel Network, Inc.

www.steelnetwork.com

1-888-474-4876



DIVISION: 05 00 00—METALS

Section: 05 05 23—Metal Fastenings

Section: 05 40 00—Cold-Formed Metal Framing

DIVISION: 09 00 00—FINISHES

Section: 09 22 16.13—Non-Structural Metal Stud Framing

REPORT HOLDER:

THE STEEL NETWORK, INC.
2012 T.W. ALEXANDER DRIVE
POST OFFICE BOX 13887
DURHAM, NORTH CAROLINA 27709
(919) 845-1025

www.steelnetwork.com
support@steelnetwork.com

EVALUATION SUBJECT:

VERTICLIP®, DRIFTCLIP® AND DRIFTTRAK® EXTERIOR CURTAIN WALL AND INTERIOR HEAD-OF-WALL STEEL STUD CONNECTORS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the VertiClip®, DriftClip® and DriftTrak® connectors, recognised in ICC-ES master evaluation report ESR-2049, have also been evaluated for compliance with the codes noted below.

Applicable Code Editions:

- 2010 *Florida Building Code - Building*
- 2010 *Florida Building Code - Residential*

2.0 CONCLUSIONS

The VertiClip®, DriftClip®, and DriftTrak® connectors, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2049, comply with the 2010 *Florida Building Code - Building* and the 2010 *Florida Building Code - Residential*, provided the design and installation are in accordance with the *International Building Code*® provisions noted in the master report and the following conditions apply:

- The design wind loads must be based on Section 1609 of the 2010 *Florida Building Code - Building* or Section 301.2.1.1 of the 2010 *Florida Building Code - Residential*, as applicable.
- Load combinations must be in accordance with Section 1605.2 or Section 1605.3 of the *Florida Building Code - Building*, as applicable.

Use of the VertiClip®, DriftClip®, and DriftTrak® connectors for compliance with the High-Velocity Hurricane Zone provisions of the 2010 *Florida Building Code - Building* and the 2010 *Florida Building Code - Residential* has not been evaluated, and is outside the scope of this evaluation report.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report reissued December 2015.