Light Steel Framing Connections

QUALITY LIGHT STEEL FRAMING MEMBERS AND CONNECTIONS
Vertical Deflection Product Line

**Head of Wall Connectors**
- VertiClip® SLD Interior
- VertiClip® SL Exterior
- VertiTrack® VTD Interior
- VertiTrack® VTX Exterior

**Bypass Connectors**
- VertiClip® SLB Slab
- VertiClip® SLS Structure
- VertiClip® SLF Top of Slab
- VertiClip® SLT Structure/Slab
- VertiClip® Splice Multi-Stud

Hybrid Vertical Deflection and Rigid Connection Product Line

**Bypass Connectors**
- MasterClip® VLB Slab

**New!**

**Bridging Product Line**

**Wall Connectors**
- BridgeBar® Bridging Channel
- BridgeClip® Secures Channel to Stud
- BuckleBridge® Bridging/Bracing Member
- NotchTrak® NT Bridging Alternative

Rigid Connection Product Line

**Wall & Floor Connectors**
- Stiff Clip® HE Header
- Stiff Clip® HS Header/Sill
- Stiff Clip® LB Bypass Slab
- Stiff Clip® JC Joist Clip
- Stiff Clip® JH Joist Hanger
- Stiff Clip® FS Floor Strap

**Roof & Truss Connectors**
- Stiff Clip® HC Hip Connector
- Stiff Clip® PL Truss Connector
- Stiff Clip® RT Roof Tie
- Stiff Clip® WC Web Connector

Drift Connection Product Line

**Drift & Vertical Deflection Connectors**
- DriftClip® DSLB Exterior Bypass Slab
- DriftClip® DSLS Exterior Bypass Structure
- DriftClip® DSLD Interior Head of Wall
- DriftClip® DSL Exterior Head of Wall

**Drift Tracks & Connectors**
- DriftTrak® DTSL Head of Wall
- DriftTrak® DTSLB Bypass
- DriftTrak® DTLB Bypass (rigid connection at stud)
- DriftTrak® Headed Stud Slab
- DriftTrak® Headed Stud - PTS Post Tensioned Concrete Slab

Heavy Duty Products

**Alternative Seismic Connectors**
- VertiClip® SLB-HD Bypass Slab
- Stiff Clip® LB-HD Bypass Slab

**Specialty Products**

**Non-Loadbearing**
- GripClip® Column/Beam Connector
- CircleTrak® Curved Wall Track
- BackIt® Wall Backing
- Common Clip Angle All Applications
- Custom Connections All Applications
Vertical Deflection Product Line

Introduction:
All of TSN’s vertical head of wall connections connect metal studs at the top of wall to the deck or primary frame while allowing up to 1 ½” vertical deflection (¾” up and ¾” down). VertiClip’s unique design provides both an anti-friction and anti-seizure connection between the clip and the stud web surface, thereby preventing a transfer of vertical forces into curtain wall or drywall partition framing, which is not engineered to support axial loads.

Quality
• Load-rated positive mechanical attachment at each stud
• Utilizes only certified, 50ksi steel
• Meets all building code criteria
• Friction-free movement with TSN’s Step Bushing Technology*

Features
• Step Bushings pre-installed for accurate placement
• Load rated screws provided for each connection
• Eliminates loose friction-held track assemblies and temporary screws
• Adaptable for multiple configurations
• Top of wall bridging or strapping is eliminated

VertiClip® SLD Interior

VertiClip SLD Features
• Component in VertiTrack VTD, TSN’s pre-assembled interior deflection track
• UL classified for all approved dynamic assemblies and finish combinations with 1 ½” deflection and 1-2 hour fire-ratings

Nomenclature
VertiClip SLD is designated by type (SLD), followed by stud depth in inches multiplied by 100.
Example: 6” stud
Designate: VertiClip® SLD600

* Strengthening ribs and guide holes are present in 3 ⅜” and 6” sizes.
** Options for deflection requirements greater than ¾” (up and down) are available.

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VertiClip® SL Exterior

VertiClip SL Features
• Component of VertiTrack VTX, TSN’s pre-assembled exterior deflection track
• Helps protect liability with use over friction-fit track assemblies

Nomenclature
VertiClip SL is designated by type (SL), followed by stud depth in inches multiplied by 100.
Example: 6” stud
Designate: VertiClip® SL600

* Strengthening ribs and guide holes are present in 3 ⅜” and 6” sizes.
** Options for deflection requirements greater than ¾” (up and down) are available.

Order Information

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Approved ICC-ES Screws Provided with Each Clip!
VertiTrack® VTD Interior

VertiTrack VTD Features
• Composed of VertiClip® SLD pre-attached to a top runner track at pre-designated stud spacing
• Use over friction-fit track assemblies minimizes liability through the utilization of positive mechanical attachments to the web of the stud
• Track lightweight for easy handling
• Utilize clips for wall layout

Nomenclature
VertiTrack VTD is manufactured in 12 ft. lengths. VertiTrack is designated by type (VTD), followed by study depth in inches multiplied by 100 and stud spacing.

Example: 6" deep stud, 16" on center
Designate: VertiTrack® VTD600-16

* Strengthening ribs are present in 3 ½” and 6” sizes.
** Track leg length = 1½"

Order Information

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VertiTrack® VTX Exterior

VertiTrack VTX Features
• Composed of VertiClip® SL pre-attached to a top runner track at pre-designated stud spacing
• Use over friction-fit track assemblies minimizes liability through the utilization of positive mechanical attachments to the web of the stud
• Track lightweight for easy handling
• Utilize clips for wall layout

Nomenclature
VertiTrack VTX is manufactured in 12 ft. lengths. VertiTrack is designated by type (VTX), followed by study depth in inches multiplied by 100 and stud spacing.

Example: 6" deep stud, 16" on center
Designate: VertiTrack® VTX600-16

* Strengthening ribs are present in 3 ½” and 6” sizes.
** Track leg length = 1½"

Order Information

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**Vertical Deflection Product Line**

**Introduction:**
All of TSN’s vertical bypass connections connect exterior curtain wall studs, bypassing the building structure, while allowing vertical deflection of the structure. VertiClip’s unique design provides both an anti-friction and anti-seizure connection between the clip and the stud web surface, thereby preventing a transfer of vertical forces into curtain wall or drywall partition framing, which is not engineered to support axial loads.

**Quality**
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria
- Friction-free movement with TSN’s Step Bushing Technology®

**Value**
- Step Bushings pre-installed for accurate placement
- Load rated screws provided for each connection
- Eliminates loose friction-held track assemblies and temporary screws
- Adaptable for multiple configurations
- Eliminates shims and scabs
- Aligns wall studs quickly and easily by accounting for construction tolerances

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**VertiClip® SLB Slab**

**VertiClip SLB Features**
- Load transferred from stud web
- Eliminates bridging or strapping within the bridging spacing from the connection
- Eliminates flange-loaded, friction-fit clips, which do not address web-crippling
- Allows up to 2” vertical deflection (1” up and 1” down)
- VertiClip SLB is minimum 14 ga (68 mil) while competitors are 16 ga (54 mil), making it the strongest bypass clip on the market!

**Nomenclature**
VertiClip SLB is designated by type (SLB), followed by stud depth in inches multiplied by 100.

**Example:** 6” stud
**Designate:** VertiClip® SLB600

* Use of strengthening ribs and return bends varies with each clip.

**VertiClip SLB600-10, 600-12, 800-10 and 800-12 accommodate an even greater construction tolerance of studs from structure. The VertiClip SLBxxx-10 is 10” in depth and the VertiClip SLBxxx-12 is 12” in depth with slot spacings designed for a 6” or 8” stud

**Order Information**

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**VertiClip® SLS Structure**

**VertiClip SLS Features**
- Lightweight assembly
- Eliminates bridging or strapping within the bridging spacing from the connection

**Nomenclature**
VertiClip SLS is designated by type (SLS), followed by stud depth and clip length required. Clip length includes a minimum of 3” for steel (5.5” for concrete) of clip material for attachment to structure added to stud depth, plus the distance of the stud from the structure.

**Example:** 6” stud, 6” tolerance, 3” to structure
**Designate:** VertiClip® SLS600-15

* Use with either 3 5/8” or 4” studs.

**Order Information**

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* Use with either 3 5/8” or 4” studs.
VertiClip® SLF Top of Slab

VertiClip SLF Features
- Screw connection can be made from the decking through the stud flange when screw gun access to the web is not possible.
- Symmetric design allows clip to work with studs facing either direction.
- Allows up to 1 1/2" of vertical deflection (1/4" up and 3/4" down) and up to 1 1/2" of offset between the stud and building structure.

Nomenclature
VertiClip SLF is available in one size for all stud depths with 1 1/4" flanges and is designated VertiClip® SLF162.

*VertiClip SLF for use with 2" stud flanges can be made as a custom part.

Application Images on Right
Top right: VertiClip SLF used with TSN’s BridgeBars & BridgeClip installed within 12" from the clip.
Bottom right: VertiClip SLF used with one flat strap bracing on the outer flange of studs to resist torsional effects.

Great for Pre-Fabricated Panels!

VertiClip® SLT Structure/Slab

VertiClip SLT Features
- Allows up to 1" of vertical deflection (1/8" up and down for SLT and 1.875" (0.938") up and down for SLT(L)).
- Attaches to horizontal surfaces, eliminating heavy reinforced slab closure plates.
- Provides for tolerance of studs from deck.
- Quick and easy way to plumb studs.
- 97 mil (12 Gauge) material.

Nomenclature
VertiClip SLT is available in a length of 9 1/2". VertiClip SLT(S) is available in a length of 12". VertiClip SLT(L) is available in lengths of 12", 15", and 18". Determine length by adding stud + offset + 3" for steel (5.5" for concrete) and selecting the next largest size.

Example: 6" stud, 4" offset + 3"
Designate: VertiClip® SLT(L)15

VertiClip® Splice Multi-Stud

VertiClip Splice Features
- Guide holes for connections to structure.
- Acts as a web stiffener.
- Reduces labor expense.
- Extensively tested.
- Cost-effective alternative for connecting 2 non-axial load bearing studs to structure.

Nomenclature
VertiClip Splice is designated by multiplying stud depth by 100.

Example: 6" stud.
Designate: VertiClip® Splice600

* Clip shown is a left version of VertiClip Splice. Right side versions can be made as a custom part.

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US Patent # 8,511,032

US Patents #5,467,566 & #5,906,080

US Patents #5,467,566 & #5,906,080

US Patent # 5,906,080

Hutto, TX Phone: (512) 642-9603
LasVegas, NV Phone: (702) 643-4330
Durham, NC (Headquarters) Phone: (919) 845-1025
Toll Free Nationwide Phone: (888) 474-4876

www.steelnetwork.com
Introduction:
The Steel Network is excited to introduce our new MasterClip® VLB product line to the light steel framing industry!

MasterClip VLB, which can be used in slab bypass conditions, is the absolute first of its kind, having the ONLY self-contained, breakaway step bushings on the market. The integrated breakaway bushing ensures quick installation, while maintaining optimum performance of the connector during deflection.

The new clip is designed to simplify your ordering and installation processes by incorporating two products in one with its integrated bushings, for vertical deflection, and guide holes for optional rigid connection. There is no reason to improvise on the jobsite, because MasterClip will adapt to your condition.

See more on this high quality, easy to install, value priced product at: http://www.steelnetwork.com/Product/MasterClipVLB

Quality
- Load-rated positive mechanical attachment at each stud
- Stamped bushings for Friction-free movement with TSN's Step Bushing Technology™
- Guide holes for attachment to structure (and stud for optional rigid connection)
- Utilizes only certified, 50ksi steel
- Meets all building code criteria

Value
- Simplify ordering process and reduce inventory line items
- Bushings are integrated for accurate placement and ease of installation
- Rated screws provided for vertical deflection connection to stud web
- Eliminates loose friction-held track assemblies and temporary screws
- Adaptable for multiple configurations
- Eliminates shims and scabs
- Aligns wall studs quickly and easily by accounting for construction tolerances

Order Information
- VLB Currently only offered for 6” stud depths

Example Details
- Load transferred from stud web
- Allows up to 2” vertical deflection (1” up and 1” down)
- MasterClip VLB used for Vertical Deflection
- MasterClip VLB used as Rigid Connection

US Patents #8,181,419, #8,683,770 & Pending

Nomenclature
MasterClip VLB is designated by type (VLB), followed by stud depth in inches multiplied by 100.
- Example: 6” stud
- Designate: MasterClip® VLB600

* VLB Currently only offered for 6” stud depths

Designation Qty/Box Lbs/Box Qty/Skid Lbs/Skid
VLB600 50 38 4,500 3,420

Bypass Connectors

MasterClip® VLB Bypass Slab
MasterClip VLB
- MasterClip VLB is minimum 14 ga (68 mil) while competitors are 16 ga (54 mil), making it one of the strongest bypass clips on the market! The only other clip that compares is TSN's own VertiClip® SLB, the only true equal!
- Eliminates flange-loaded, friction-fit clips, which do not address web-cripling
- Eliminates bridging or strapping within the bridging spacing from the connection
- Allows up to 2” vertical deflection (1” up and 1” down)
- Load transferred from stud web

Example Details
- MasterClip® VLB used for Vertical Deflection
- MasterClip® VLB used as Rigid Connection

2 connectors in one!
Rigid Connection Product Line

**Introduction:**
TSN’s StiffClip line of products offer a variety of wall and floor connectors for all rigid connection applications.

**Quality**
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria

**Value**
- Aligns wall studs quickly and easily by accounting for construction tolerances with pre-punched guide holes for attachment
- Adaptable for multiple configurations
- Eliminates shims and scabs

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**StiffClip® LB Bypass Slab**

**StiffClip LB Features**
- Leg stiffeners increase bending strength
- Various lengths allow for construction tolerance
- Replaces expensive bracing
- Resists vertical and horizontal loads

**Nomenclature**
StiffClip LB is available for various stud depths. To specify, multiply stud depth by 100.

*Example: 6" stud depth*

*Designate: StiffClip® LB600*

*Use of strengthening ribs varies for different clip lengths. Return lip added to clips 10" and longer for added strength.*

**Order Information**

<table>
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<th>Qty/Skid</th>
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<td>33</td>
<td>1,125</td>
<td>1,485</td>
</tr>
</tbody>
</table>

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**Available Now: StiffClip® LB-HD**

**Introducing TSN’s New Line for Seismic Conditions**
For bypass applications that don’t allow PAF’s, TSN’s new Heavy Duty StiffClip LB-HD can be utilized to connect curtain wall studs, bypassing the building structures to the concrete deck of the primary structure using two ¼” concrete screw anchors. Not only does this meet the seismic building code requirement, but it also eliminates the need for welding, saving you both time and money!

**Order Information**

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<td>1,710</td>
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</table>

Call TSN today for more information!

---

**Did You Know?**

- The Steel Network is the ONLY manufacturer that holds an ICC-ES evaluation report for clip products utilized for vertical deflection and lateral drift applications!
- TSN products have undergone extensive field and laboratory testing in accordance with ICC-ES AC261 to achieve complete solutions for both designers and installers.
- Evaluation Report ESR# 2049 certifies that TSN’s VertiClip®, DriftClip® and DriftTrak® products are in compliance with International Building Code (IBC).

Call TSN today for more information!
**Rigid Connection Product Line**

**Introduction:**
TSN's StiffClip line of products offer a variety of wall and floor connectors for all rigid connection applications.

**Value**
- Aligns wall studs quickly and easily by accounting for construction tolerances with pre-punched guide holes for attachment
- Adaptable for multiple configurations
- Eliminates shims and scabs

**Quality**
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria

---

**StiffClip® HE Header**

**StiffClip HE Features**
- Protects the header ends from the effects of web crippling
- Reduces material and labor expenses (no jack studs or caps required)
- Connects either beams to columns or headers to jambs
- Acts as web stiffener
- Resists vertical and horizontal loads
- Tabs to hold header during installation

**Use with a single TSN JamStud as the header**

**Nomenclature**
StiffClip HE is available in two thicknesses. The StiffClip HE(L) is 43mil (18ga), and the StiffClip HE(H) & HE(S) are both 68mil (14ga).

* Clips are packaged as pairs. Four StiffClip HE clips are used at each opening: Two left-hand and two right-hand clips attach the complete header to the jamb.

---

**StiffClip® HS Header/Sill**

**StiffClip HS Features**
- Guide holes for connections to column and JamStud, box header or sill
- Resists vertical and horizontal loads
- Acts as a web stiffener
- Quick installation
- Reduces labor expense
- Reduces material (no jack studs or caps required)

**Nomenclature**
StiffClip HS is available for attachment to 3 ⅝, 6, or 8" jambs, and for use with JamStuds with 2 ½, 3" or 3 ½" flanges. To specify, multiply jamb width and header flange width by 100.

* Example: 6" jamb and a header flange width of 2 ½" Designate: StiffClip HS600-250

---

**Order Information**

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<td>HE(H) 25 pair 43</td>
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**Use with Headers & Sills!**
StiffClip® JC Joist Clip

StiffClip JC Features
- Connects floor joists to beams and other structural components
- Resists vertical loads
- Joist flange rests on angle leg with support flange for fast joist installation

Nomenclature
StiffClip JC is designated by listing the joist depth in inches, followed by the required clip thickness in mils that will accommodate anticipated loads. (see technical sheet for load tables)

Example: 6" joist, 3,000 lbs. load
Designate: StiffClip® JC600x68

Order Information

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* Guide holes located ½" from each end, with ¾" edge distance at 2" o.c. staggered for FS275 and ¾" edge distance at 2" o.c. staggered for FS275. Additional guide holes for fasteners available upon request.

* * Sizes shown on right are typical, but can vary. StiffClip FS is usually made to order. Contact TSN for additional pricing, quantity and order information

Order Information

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<tr>
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<td>JH1200x200-68 25 66 375 990</td>
</tr>
<tr>
<td>JH1200x200-97 15 57 375 1,425</td>
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</table>

StiffClip® JH Joist Hanger

StiffClip JH Features
- Connects floor joists to beams
- Resists vertical loads
- Faster joist installation
- Engineered for steel joist
- Eliminates need for joist web stiffener at clip connection

Nomenclature
StiffClip JH is designated by listing the joist depth in inches, followed by the inside flange dimension in inches x 100 (2" flange is standard, and will also service 1 5/8" flange), and the required clip thickness in mils that will accommodate anticipated loads. (see technical sheet for load tables)

Example: 6" joist, 2" flange, 2,250 lbs. load
Designate: StiffClip® JH600x200-68

Order Information

<table>
<thead>
<tr>
<th>Designation Qty/Box Lbs/Box Qty/Skid Lbs/Skid</th>
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</thead>
<tbody>
<tr>
<td>JH600x200-68 25 30 375 450</td>
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<td>JH800x200-68 25 49 375 735</td>
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<td>JH1000x200-68 25 58 375 870</td>
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<tr>
<td>JH1000x200-97 15 50 375 1,250</td>
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<td>JH1200x200-68 25 66 375 990</td>
</tr>
<tr>
<td>JH1200x200-97 15 57 375 1,425</td>
</tr>
</tbody>
</table>

StiffClip® FS Floor Strap

StiffClip FS Features
- Connects wall studs for a vertical uplift transfer through the floor system
- Resists tension forces only

Nomenclature
StiffClip FS is designated by the width of the strap in inches followed by strap thickness in mils.

Example: 16ga, 2¾" strap, 24" long
Designate: StiffClip® FS275-54-24

Order Information

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<td>43 18 0.0451</td>
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<td>68 14 0.0713</td>
</tr>
<tr>
<td>97 12 0.1017</td>
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</tbody>
</table>
Rigid Connection Product Line

Introduction:
TSN’s StiffClip line of products offer a variety of roof and truss connectors for all rigid connection applications.

Quality
• Load-rated positive mechanical attachment at each stud
• Attaches to structure with PAF or welds
• Utilizes only certified, 50ksi steel
• Meets all building code criteria

Value
• Aligns wall studs quickly and easily by accounting for construction tolerances with pre-punched guide holes for attachment
• Adaptable for multiple configurations
• Eliminates shims and scabs

StiffClip® HC Hip Connector
StiffClip HE Features
• Connects roof joist framing members to the hip beam
• Engineered for steel members

Nomenclature
StiffClip HC is designated by multiplying joist depth by 100, then listing material thickness.

Example: 6” stud depth, 68mil steel thickness
Designate: StiffClip® HC600-68

*Standard angle bend is 135°. Other angle shapes are available.

Order Information

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<td>1,680</td>
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StiffClip® PL Truss Connector
StiffClip PL Features
• Connects truss framing members in the same plane
• Optional pre-punched holes accurately and consistently maintain minimum edge distance and overall screw placement
• No time or expense spent cutting steel shapes

Nomenclature
StiffClip PL is available in many different shapes and is designated as width x length - material thickness.

Example: 10” wide x 24” long with 68 mil thickness
Designate: StiffClip® PL10x24-68

*Clip sizes vary within each application
**StiffClip PL are typically made to order per project specifications.
***Call TSN today for pricing and order information!

Available Thicknesses

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<tr>
<th>Mils</th>
<th>Gauge</th>
<th>Decimal (in)</th>
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<td>118</td>
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TSN's Rigid Roof & Truss Connectors meet all building code criteria!
StiffClip® RT Roof Tie

StiffClip RT Features
- Connects truss framing web members to chord members
- Incorporates stiffened legs to increase compressive strength and resist horizontal, lateral and uplift loads
- Engineered for steel members

Nomenclature
StiffClip RT650 is 6½” long, and may be used when wall studs do not align with roof framing member. The RT1300 is 13” long, and is used when wall studs align with roof framing member. Clips are designated by length, followed by thickness and number of screws used in each leg (determined by load requirements - see technical sheet for load tables).

Example: Stud aligns with roof framing member (see picture on right)
Designate: StiffClip® RT1300

StiffClip® WC Web Connector

StiffClip WC Features
- Connects truss framing web members to chord members
- Stiffened ribs for added strength
- No time or expense spent cutting steel shapes

Nomenclature
StiffClip WC is designated by multiplying stud depth in inches by 100, then listing material, thickness and length.

Example: 3½” stud depth, 54mil steel thickness, 10” long
Designate: StiffClip® WC350-54,10”-lg

Example Details

Order Information

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<th>Qty/Skid</th>
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Product Spotlight: Check Out VertiClip® Splice!

- Cost-effective alternative for connecting 2 non-axial load bearing studs to structure
- Load-rated positive mechanical attachment at each stud
- Connects a bypass rigid stud to structure while simultaneously attaching another wall stud below

Call TSN Today for More Information!

For more information on this and all of our other quality products, visit www.steelnetwork.com

US Patent # 5,906,080
**Rigid Connection Product Line**

**Introduction:**
TSN's StiffClip line of products offer a variety of uplift & multi-purpose connectors for all rigid connection applications.

**Quality**
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria
- Extensively tested

**Value**
- Aligns wall studs quickly and easily by accounting for construction tolerances with pre-punched guide holes for attachment
- Adaptable for multiple configurations
- Eliminates shims and scabs
- Reduces liability concerns associated with use of untested, miscellaneous untraceable material

---

**StiffClip® AL Multi-Purpose**

**StiffClip AL Features**
- Connects floor joists to beams and other structural components
- Stiffeners for additional strength
- No labor spent cutting scrap angle
- Used in a variety of applications

**Nomenclature**
StiffClip AL is available for various stud depths. To specify, multiply stud depth by 100.*

*Example:* 6” stud depth
*Designate:* StiffClip® AL600

*The AL362 fits 3 3/8” and 4” member depths
**Stiffening ribs are not present in the AL800.

**Example Details**

---

**StiffClip® LS Spandrel/Multi-Purpose**

**StiffClip LS Features**
- Utilized when connecting framing members in various applications
- Resists axial tension and compression loads
- Incorporate a stiffening lip, or ribs to increase compressive strength
- Various lengths allow flexibility
- Eliminates shims and scabs to accommodate stud tolerance from structure in spandrel walls

**Nomenclature**
StiffClip LS is available in various lengths. To calculate length for spandrel wall connectors, add stud depth, 3” for attachment to steel (5.5” for attachment to concrete), and the distance of construction tolerance. For other applications, simply designate length (in.) multiplied by 100.

*Example:* 6” stud depth, 4” attachment to structure, 2” tolerance (6+4+2=12)
*Designate:* StiffClip® LS1200

*Return lip added to clips longer than 20” for strength
**Special Product drawing is required

**Example Details**

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**Order Information**

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**Order Information**

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**StiffClip® CL Floor Tie**

**StiffClip CL Features**
- Connects steel studs to the building’s structure
- Incorporates stiffened legs of a 90° angle to increase bending strength
- Resists vertical, horizontal and torsional loads
- Reduces material (replaces heavy steel angles)
- Guide holes for connections to stud and deck

**Nomenclature**
To specify StiffClip CL on drawings, multiply stud depth by 100, followed by the appropriate material thickness, based on strength required (see technical sheet for load tables). The StiffClip CL118(H) utilizes a plate in the 1½” leg (shown below and in application image on right).

*Example*: 6” stud, uplift load of 650lbs
*Designate*: StiffClip CL600-68

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**MidWall™ Partial Wall Framing**

**MidWall Features**
- Tested alternative in partial wall assemblies
- 3.625” and 6” meets IBC 2018 criteria Section 1607.8.1
- Loads are transferred to the floor system through a ½” thick plate nested in the flanges of the member
- May be used in place of standard framing members, or in conjunction with them to frame the wall
- Replaces labor/coordination of placing embedded angle into floor system
- Designed to support out-of-plane loading in cantilevered partial wall systems that are unsupported at the top track
- Test data for 2.5” depth MidWall is available

**Nomenclature**
MidWall is currently available in two heights and three depths. Product nomenclature lists the member depth first followed by the height in inches. Custom lengths available on request.

*Example*: 6” web depth, 24” tall MidWall
*Designate*: 600MW-24

US Patent #8,387,321

**Order Information**

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<td>600MW-48 18.31 80 1,465</td>
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**StiffClip® TD Uplift Connector**

**StiffClip TD Features**
- Unique design allows for the anchoring of wood or steel studs to the foundation
- Clip utilizes certified, 60ksi steel
- Incorporates a 0.5” steel stiffening plate for strength
- Effective solution in wall stud tie-downs or as the anchorage component in conventional, strap/gusset-plate shear wall construction
- Reduces material (replaces heavy steel angles)
- Resists vertical uplift loads

**Nomenclature**
StiffClip TD is available in one size and utilizes a 0.5” plate on top of the 2.375” leg

*Designate*: StiffClip® TD

**Example Details**

**Order Information**

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Bridging Product Line

Introduction:
TSN's bridging connections work together with almost any stud spacing to resist weak axis buckling and torsional rotation of members. Used in both interior and exterior applications, TSN’s line of bridging products can save hours of installation time and thousands of dollars in a single project.

Quality
- Load-rated positive mechanical attachment at each stud
- Utilizes only certified, 50ksi steel
- Accommodate most wall stud spacing, including 8", 12", 16" & 24" centers

Value
- Fast installation, where no clamping or welding is required
- Guide holes provided for quick and accurate fastener placement
- TSN's bridging products work flawlessly together as a system

BridgeBar® Bridging Channel

BridgeBar Features
- Replaces cold-rolled channel (CRC) for bridging
- Unique grooves that adjust to various stud thicknesses every 4" trap stud web
- 52-inch length allows for 4" lap at joints for continuous walls
- Incorporates stiffeners to resist compressive loads through the plane of the wall
- Use through ¾" and 1½" stud punch outs
- Easily accommodates studs up to 54 mil in thickness

Nomenclature
BridgeBar is available in ¾" and 1½" widths. Designations are BB75 and BB150.

Example: Stud with ¾" knockout
Designate: BB75

BridgeClip® Secures Channel to Stud

BridgeClip Features
- Secures BB 150 or 1½" cold-rolled channel (CRC) to stud
- Resists both lateral and twisting loads
- Rounded edges for safety
- Engineered to accommodate loads that have traditionally been addressed with generic angle
- Laborers are working on installation, not cutting angle

Nomenclature
BridgeClip is recommended for 3 5/8", 6" and 8" wall studs and is designated by the type, BC. Designations are BC-33, BC-43, BC600 & BC800.*

BridgeClip® easily handles up to a 6” stud with 25 PSF loads with only 1 screw!*

Use with BridgeClip® for additional savings!

US Patent #6,701,689

Order Information

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* Refer to allowable load table at www.steelnetwork.com

US Patent #5,904,023

Wall Connectors

Order Information

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* Refer to allowable load table at www.steelnetwork.com

US Patent #6,701,689

Order Information

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US Patent #5,904,023

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US Patent #6,701,689

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US Patent #5,904,023

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US Patent #6,701,689

Order Information

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* Refer to allowable load table at www.steelnetwork.com

US Patent #5,904,023
BuckleBridge® used for Curtain Wall

Proven, field tested and a valuable component in the future of light steel framing construction!

Insert  Click  Done!

* Use (1) #10 screw on alternate sides of the BuckleBridge at 3rd stud (48” o.c.) Use (2) #10 screws at end of wall run.

BuckleBridge® Bridging/Bracing Member

BuckleBridge Features
- Fits in SigmaStud® and standard “ce” stud sections, 6” and 8” web depths
- Guide holes for accurate placement of fasteners to stud
- No threading channels through knockouts
- Meets AISI bridging stiffness requirements
- Tabs lock into slots for continuous system
- Fast installation
- No welding

Nomenclature
BuckleBridge comes in one size and is designated BuckleBridge®. It is used with 16” o.c. member spacing.
* Holes are ¾” diameter

Order Information

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NotchTrak® NT Bridging Alternative

NotchTrak NT Features
- Meets OSHA & IBC load requirements
- Meets OSHPD 2013 CBC Standard Backing Details for Cabinet and Grab Bar (Details ST5.00 and ST5.03)
- Member utilizes only certified, 50ksi steel
- Notches every 16” or 24” o.c. to accommodate most wall stud spacings
- May be used as wall backing or wall bridging as shown

Nomenclature
NotchTrak is manufactured in 12 ft. lengths. NotchTrak is designated by track depth in inches multiplied by 100, followed by type (NT), leg size, mil thickness and notch spacing.

Example:
600 (Inside Track Dimension) NT 125 (Legs) - 43 (Thickness) - 16oc (Notch Spacing) 16” or 24” o.c.

* Special lengths available by request

Order Information

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<td>Notch Size</td>
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Las Vegas, NV Phone: (702) 643-4330
Durham, NC (Headquarters) Phone: (919) 845-1025
Hutto, TX Phone: (512) 642-9603
Toll Free Nationwide Phone: (888) 474-4876

www.steelnetwork.com
Drift Connection Product Line

**Introduction:**
All of TSN's drift & vertical deflection connections accommodate vertical deflection and lateral drift requirements of the structure. DriftClip's unique design provides both an anti-friction and anti-seizure connection between the clip and the stud web surface. The DriftClip line of products offer a variety of drift & vertical deflection connectors for all connection applications.

### Quality
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria
- Friction-free movement with TSN's Step Bushing Technology*

### Value
- Step bushings pre-installed for accurate placement
- Load-rated screws provided with each connection
- Eliminates loose friction-held track assemblies and temporary screws
- Adaptable for multiple configurations
- Eliminates shims and scabs
- Aligns wall studs quickly and easily by accounting for construction tolerances

#### DriftClip® DSLB Exterior Bypass Slab

**DriftClip DSLB Features**
- Load transferred from stud web
- Vertical slots allow up to 2" vertical deflection (1" up and 1" down)
- Horizontal slots accommodate up to 2" lateral drift (1" left and 1" right)**
- Allows attachment to concrete deck with ¼" nominal screw anchors

**Nomenclature**
DriftClip® DSLB is classified by multiplying stud depth by 100.*

**Example:** 6" stud depth
**Designate:** DriftClip® DSLB600

* Parts with the designation “-CA” on the end of the part name includes a special bushing available to allow connection to the side of the concrete slab using two ¼" concrete screw anchors

**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.***

#### Order Information

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#### DriftClip® DSLS Exterior Bypass Structure

**DriftClip DSLS Features**
- Load transferred from stud web
- Vertical slots allow up to 2" vertical deflection (1" up and 1" down)
- Horizontal slots accommodate up to 2" lateral drift (1" left and 1" right)*

**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.

**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.***

#### Order Information

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**Quality**
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with PAF or welds
- Utilizes only certified, 50ksi steel
- Meets all building code criteria
- Friction-free movement with TSN's Step Bushing Technology*

**Value**
- Step bushings pre-installed for accurate placement
- Load-rated screws provided with each connection
- Eliminates loose friction-held track assemblies and temporary screws
- Adaptable for multiple configurations
- Eliminates shims and scabs
- Aligns wall studs quickly and easily by accounting for construction tolerances

---

**US Patent #6,612,087**
DriftClip® DSLD Interior Head of Wall

DriftClip DSLD Features
• Accommodates interior head of wall vertical deflection and lateral drift requirements
• Load transferred from stud web
• Vertical slots allow up to 2" vertical deflection (1" up and 1" down)
• Horizontal slots accommodate up to 2" lateral drift (1" left and 1" right)*

Nomenclature
DriftClip® DSLD is classified by multiplying stud depth by 100.

Example: 6" stud depth
Designate: DriftClip® DSLD600

* If more than 2" lateral drift is required, contact TSN engineering.
** Three screws & step bushings are available in 6" sizes and higher. Specify that 3 slots are needed when placing order.

DriftClip® DSL Exterior Head of Wall

DriftClip DSL Features
• Accommodates exterior head of wall vertical deflection and lateral drift requirements
• Load transferred from stud web
• Vertical slots allow up to 2" vertical deflection (1" up and 1" down)
• Horizontal slots accommodate up to 2" lateral drift (1" left and 1" right)**
• Allows attachment to concrete deck with 1/4" nominal screw anchors

Nomenclature
DriftClip® DSL is classified by multiplying stud depth by 100.*

Example: 6" stud depth
Designate: DriftClip® DSL600

* Parts with the designation "-CA" on the end of the part name includes a special bushing available to allow connection to the side of the concrete slab using two 1/4" concrete screw anchors.
** If more than 2" lateral drift is required, contact TSN engineering.
*** Three screws & step bushings are standard in 6" sizes and higher.
**** One row of bridging is recommended at a maximum distance of 12" from DriftClip to resist torsional effects.

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Did You Know?

• The Steel Network is the ONLY manufacturer that holds an ICC-ES evaluation report for clip products utilized for vertical deflection and lateral drift applications!
• TSN products have undergone extensive field and laboratory testing in accordance with ICC-ES AC261 to achieve complete solutions for both designers and installers.
• Evaluation Report ESR# 2049 certifies that TSN’s VertiClip®, DriftClip® and DriftTrak® products are in compliance with International Building Code (IBC).

Call TSN today for more information!
**Drift Connection Product Line**

**Introduction:**
For longer spans of wall, TSN’s line of DriftTrak® products provides greater lateral drift for wall spans than their standard DriftClip® Series. The track is designed to attach directly on the underside of the wide flange beam, or floor slab inside the standard top track for head of wall conditions. For bypass framing, it attaches at the edge of the slab. DriftTrak clips twist easily into the rails of the track and vertical slots attach to the stud. The clip slides freely across the rail of the track, so lateral movement is limited only by the spacing of wall studs.

**Quality Features**
- Load-rated positive mechanical attachment at each stud
- Utilizes only certified, 50ksi steel
- Grooves in 1” leg pass over fastener heads
- Friction-free movement with TSN’s Step Bushing Technology®

**DriftTrak® DTSL Head of Wall**

**DriftTrak DTSL Features**
- Accommodates vertical deflection and lateral drift requirements at the head of wall
- Vertical slots allow up to 2” vertical deflection (1” up and 1” down)

**Nomenclature**
DriftTrak DTSL is available in one size for all stud depths over 3 5/8”.

*Example:* 6” stud depth

*Designate:* DriftTrak® DTSL

*One row of bridging is recommended at a maximum distance of 12” from DriftTrak to resist torsional effects.

*Two top tracks are required for closure of the wall assembly.

**DriftTrak® DTSLB Bypass**

**DriftTrak DTSLB Features**
- Accommodates vertical deflection and lateral drift requirements in a bypass condition
- Vertical slots allow up to 2” vertical deflection (1” up and 1” down)

**Nomenclature**
DriftTrak DTSLB is classified by multiplying stud depth by 100, followed by “HD,” based on F2 strength required. Refer to load tables.*

*Example:* 6” stud depth, with an outward load (F2) of 1,000 lbs

*Designate:* DriftTrak® DTSLB600-HD

*Notches are standard in DriftTrak DTSLB. For greater F2 outward load capacity, use DTSLB-HD clips w/o notches.

Refer to Allowable Load Table.

**Order Information**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Qty/Box</th>
<th>Lbs/Box</th>
<th>Qty/Skid</th>
<th>Lbs/Skid</th>
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<tbody>
<tr>
<td>DriftTrak</td>
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<td>25</td>
<td>100</td>
<td>2,500</td>
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<tr>
<td>DriftTrak DTH-10ft</td>
<td>N/A</td>
<td>23 (per piece)</td>
<td>50</td>
<td>1,150</td>
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<tr>
<td>DriftTrak DTH-12ft</td>
<td>N/A</td>
<td>30 (per piece)</td>
<td>50</td>
<td>1,500</td>
</tr>
</tbody>
</table>

*One row of bridging is recommended at a maximum distance of 12” from DriftTrak to resist torsional effects.

**Toll Free Nationwide Phone:** (888) 474-4876
DriftTrak® DTLB Bypass

**DriftTrak DTLB Features**
- Accommodates lateral drift requirements in a bypass condition with a rigid connection to the stud

**Nomenclature**
DriftTrak DTLB is classified by multiplying stud depth by 100.

**Example:** 6” stud depth  
**Designate:** DriftTrak® DTLB600

*Notches are standard in DriftTrak DTSLB. For greater F2 outward load capacity, use DTLB-HD clips without notches. Refer to Allowable Load Table.

**Clips and track sold separately.**

---

DriftTrak® Headed Stud Slab Integrated Bypass

**DriftTrak Headed Stud Features**
- Can be installed with any DriftTrak bypass clip  
- Headed Studs preinstalled  
- Eliminates the need to attach DriftTrak to the pour stop angle of the slab after it has been formed

**Nomenclature**
DriftTrak® - Headed Stud comes in 10’ or 12’ lengths, with headed studs in a single, centered row. To specify DriftTrak, list “DTH,” followed by the length.

**Example:** 12 ft. length  
**Designate:** DriftTrak® DTH – 12ft.

*Clips and track sold separately.

---

DriftTrak® Headed Stud - PTS Slab Integrated Bypass - Post Tensioned Concrete Slabs

**DriftTrak Headed Stud - PTS Features**
- Fits above or under the high-strength tendon reinforcing at edge of slab  
- Headed Studs preinstalled  
- Eliminates the need to attach DriftTrak to the pour stop angle of the slab after it has been formed

**Track Nomenclature**
DriftTrak® - Headed Stud -PTS comes in 12’ lengths, with headed studs in a single, centered row. To specify DriftTrak - PTS, list “DTH-PTS,” followed by the length.

**Example:** DriftTrak® DTH-PTS – 12ft.

**Connector Nomenclature**
DriftTrak® DTLB-PTS & DTSLB-PTS are made for 6” studs. They are classified by multiplying stud depth by 100, followed by “PTS.”

**Example:** Vertical Deflection Required  
**Example:** DriftTrak® DTSLB600-PTS-L  
12’

*Clips and track sold separately.
Heavy Duty Products

Introduction:
TSN’s new Heavy Duty (HD) clip line for VertiClip® and StiffClip® is engineered to provide a much needed solution to this challenge. VertiClip SLB-HD & StiffClip LB-HD connect curtain wall studs, bypassing the building structures to the concrete deck of the primary structure using concrete anchors by either two ¼” concrete screw anchors or one ½” expansion anchor (for VertiClip SLB-HD). Not only does this meet the seismic building code requirement, but it also eliminates the need for welding, saving you both time and money.

Quality Features
- Load-rated positive mechanical attachment at each stud
- Attaches to structure with concrete anchors when PAF’s are not allowed
- Utilizes only certified, 50ksi steel
- Meets all building code criteria

Value
- Aligns wall studs quickly and easily by accounting for construction tolerances with pre-punched guide holes for attachment
- Eliminates shims and scabs

VertiClip® SLB-HD Bypass Slab

VertiClip® SLB-HD Features
- Attaches to primary structure slab with either two ¼” concrete screws or one ½” concrete anchor
- Eliminates flange-loaded clips, which do not address web-crippling
- Eliminates loose friction-held track assemblies and temporary screws while providing friction-free movement
- Load rated screws provided for each connection
- Load transferred from stud web
- Step Bushings pre-installed for accurate placement
- Allows up to 2” vertical deflection (1” up and 1” down)
- Eliminates bridging or strapping within the bridging spacing from the connection

Nomenclature
VertiClip SLB-HD is designed to be used with 6” studs and is designated VertiClip® SLB600-HD

Application Images on Right
Top right: VertiClip SLB-HD used with (1) ½” anchor
Bottom right: VertiClip SLB-HD used with (2) ¼” concrete screws

StiffClip LB-HD Bypass Slab

StiffClip LB-HD Features
- Structurally load tested in both horizontal and vertical conditions
- Leg stiffeners increase bending strength
- Attaches to primary structure slab with two ¼” concrete screws
- Replaces expensive bracing
- Resists vertical and horizontal loads

Nomenclature
StiffClip LB-HD is designed to be used with 6” studs and is designated StiffClip LB600-HD

Order Information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Qty/Box</th>
<th>Lbs/Box</th>
<th>Qty/Skid</th>
<th>Lbs/Skid</th>
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<td>SLB600-HD</td>
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<td>2,250</td>
<td>1,710</td>
</tr>
</tbody>
</table>

Order Information

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<th>Designation</th>
<th>Qty/Box</th>
<th>Lbs/Box</th>
<th>Qty/Skid</th>
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</tr>
</thead>
<tbody>
<tr>
<td>LB600-HD</td>
<td>50</td>
<td>38</td>
<td>2,250</td>
<td>1,710</td>
</tr>
</tbody>
</table>
Simplified Design
To Improve Your Bottom Line

Guide Holes for Rigid Attachment.
No need to improvise when deflection is not needed.

Drilled Holes.
Ensure Easy and Accurate Installation.

Breakaway Bushings.
The ONLY self-contained bushings on the market to ensure optimum installation & performance of connector.

Load-Rated.
Strengthening ribs accommodate greater loads than other rigid and vertical deflection connectors.

Prime Steel.
Always Traceable. Always Certified. No Exceptions.

MasterClip®
The Truly Superior Connector
Specialty Products

Introduction:
The Steel Network strives to provide solutions for all standard light steel framing applications, including interior, non-loadbearing applications. Substantial effort has been made by the industry to standardize construction practices to ensure the positive connections of light steel framing components. Toward this end, TSN products have undergone extensive field and laboratory testing to achieve complete solutions for both designers and installers. Aside from standard products, The Steel Network is equipped to manufacture cold-formed steel connections of any size and shape. Our streamlined manufacturing process enables us to meet your conditions with a minimal lead time and competitive cost. Simply tell us what you need and we’ll deliver a custom product with a quick turnaround.

Quality
• Utilizes only certified, 50ksi steel
• Friction-free movement with TSN’s Step Bushing Technology® (where needed)
• Additional testing available by request

Value
• Step bushings & stiffener pre-installed for accurate placement (where needed)
• Simplified installation
• Load rated screws provided for each connection (with step bushings)

GripClip® Column/Beam Connector

GripClip Features
• Grips on flanges of steel columns and beams for gypsum board attachment
• Designed to accept 25ga continuous angle in the snap tabs
• Saves material and time vs. stud framing
• Corner angle snaps into place without using screws
• Accommodates flange thickness from ¼” to 1”
• ‘Snap tabs’ accept the continuous angle for fast installation
• Use in fire-rated and non-fire-rated assemblies

Nomenclature
GripClip is made in one size and is designated GripClip®.

Order Information

GripClip®

<table>
<thead>
<tr>
<th>Designation Qty/Box</th>
<th>Lbs/Box Qty/Skid Lbs/Skid</th>
</tr>
</thead>
<tbody>
<tr>
<td>GripClip® 48 10 2,160 450</td>
<td></td>
</tr>
</tbody>
</table>

CircleTrak® Curved Wall Track

CircleTrak Features
• Enables quick setting and re-setting of the wall curvature
• Provides a simplified installation of curved walls
• Ability to form curves by hand with no additional tools
• Maintains its curved shape until permanently installed
• Simplified installation increases productivity
• Quickly resets after initial installation

Nomenclature
CircleTrak is available in 10’ lengths and is designated by inside web depth x 100, then style (CT), followed by leg length and then material thickness in mils.

Example: 6” inside web depth
Designate: 600CT125-33

Order Information

<table>
<thead>
<tr>
<th>Designation Qty/Box</th>
<th>Lbs/Piece Qty/Skid Lbs/Skid</th>
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<tr>
<td>600CT125-33 12 98 1,176</td>
<td></td>
</tr>
</tbody>
</table>

Value
• Step bushings & stiffener pre-installed for accurate placement (where needed)
• Simplified installation
• Load rated screws provided for each connection (with step bushings)

Bends By Hand!

Patent # 8,132,383
### BackIt® Wall Backing

**BackIt Features**
- Provides solid backing to support handrails, wall-mounted shelving, and other equipment
- Simplified installation through a simple screw connection to the stud flange
- Resists load in the directions recommended by codes
- End your run with a clean corner by using BackIt-End
- Shelf tabs hold wood in place during installation
- May be used with multiple sizes of wood
- No pre-determined stud layout

**Nomenclature**
BackIt is designed to be used with studs having flanges up to 1 1/8" wide, & is designated BackIt®

*Custom clips are available by request for use with studs having flanges greater than 1 1/8”*

---

### Common Clip Angle

**Clip Angle Features**
- Pre-punched holes in clips for fastener efficiency
- Any thickness up to & including 10ga (118mil)
- Custom angles and punch patterns available by request*

**Nomenclature**
Clip Angle can be manufactured to any specifications, however TSN stocks some more common sizes. Angle is classified with the letter “L” followed by (Leg A) x (Leg B) x length (inches), then mil thickness.

*Example: Leg A = 3", Leg B = 3", Length = 5 ¾", 54 mil material
*Designate: L3x3x5.75-54

*Special product drawing is required for all non standard products.
**Common stocked angles come pre-punched for easy installation, though holes are not required.*

---

### Custom Connections All Applications

**TSN’s Custom Product Features**
- Modify any standard product made by TSN to fit your needs
- Place step bushings anywhere in clip slots
- Any angle pitch or slope
- Structural testing available
- Solve problems in new or retrofit construction
- Any shape can be manufactured
- Any thickness up to & including 10ga (118mil)

**Example Details**
- If you can draw it, we can make it!

---

### Order Information

**Designation** | Qty/Box | Lbs/Box | Qty/Skid | Lbs/Skid
--- | --- | --- | --- | ---
BackIt® | 50 | 12.65 | 2,250 | 570
BackIt®-End | 50 | 12.65 | 2,250 | 570

### Nomenclature
- Clip Angle can be manufactured to any specifications, however TSN stocks some more common sizes. Angle is classified with the letter “L” followed by (Leg A) x (Leg B) x length (inches), then mil thickness.

*Example: Leg A = 3", Leg B = 3", Length = 5 ¾", 54 mil material
*Designate: L3x3x5.75-54

*Special product drawing is required for all non standard products.
**Common stocked angles come pre-punched for easy installation, though holes are not required.*

---

### Custom VertiClip® SLS (extra long)

**Custom VertiClip® SLB**

**Custom VertiClip® Splice**

**Custom VertiClip® SLD (with elongated slots)**

---

**Order Information**
Contact your local TSN Sales representative for order information.

*Special product drawing is required for all non-standard products.
**Please allow reasonable time for production.*

### US Patent #7,559,519
Terms, Conditions, and Limited Warranty

Product Use

Products in this catalog are designed and manufactured for the specific purposes shown, and should not be used in other applications unless approved by a qualified design professional. All modifications to products or changes in installation procedures should be made by a qualified design professional. The performance of such modified products or altered installation procedures is the sole responsibility of the design professional or installation contractor. The installation contractor and/or qualified design professional are responsible for installing all products in accordance with relevant specifications and building codes.

Customers modifying products or installation procedures, or designing Custom products for fabrication by The Steel Network, Inc. ("TSN") shall, regardless of specific instructions to the user, indemnify, defend, and hold TSN harmless for any and all claimed loss or damage occasioned in whole or in part by Custom or modified products or installation procedures.

Modifications to TSN products, improper loading or installation procedures, or deviations from recommended applications will affect TSN products' load-carrying capacities. TSN products are fabricated from hot-dipped galvanized steel for corrosion protection but will corrode and lose load-carrying capacity if exposed to salt air, corrosive fire-retardant chemicals, fertilizers, pressure treated wood or other substances that may adversely affect steel or its galvanized coating. This document edition reflects changes in the allowable loads and configurations of some of TSN's products. This information supersedes information in earlier documents or technical reports. All earlier documents or technical reports should be discarded and reference made exclusively to this edition. TSN may correct any clerical or typographical errors. All sales are subject to TSN's standard terms and conditions of sale.

Limited Warranty

TSN warrants its products to be free from defects in material or workmanship at the time of shipment. TSN standard catalog products are warranted for adequacy of design when used in accordance with design limits in this catalog and properly specified and installed. TSN products shall not be substituted with non-TSN products if it is part of a system. Substitution of a TSN product will immediately void any warranty claim made by Purchaser. This warranty excludes uses not in compliance with specific applications and installation procedures set forth in this catalog. Warranty claims must be made by Purchaser in writing within ninety (90) days of receipt of the products.

All warranty obligations of TSN shall be limited, at the sole discretion of TSN, to repair or replace the defective product(s). These remedies shall constitute TSN's sole obligation and sole remedy of purchaser under this warranty. In no event will TSN be responsible for incidental, consequential, indirect, exemplary, incidental, special, consequential, or punitive damages, or other losses or damages however caused, including, but not limited to, installation costs, lost revenue or lost profits. TSN's liability for damages shall in no event exceed the applicable portion of the purchase price for defective product(s).

Product defects that arise from acts of God, accidents, misuse, misapplication, improper installation, storage damage, negligence, or modification to product(s) or its components are specifically excluded from this warranty. Product defects that arise from Purchaser providing incorrect information to TSN, including but not limited to incorrect specifications such as incorrect dimensions, designs and/or loads, are also specifically excluded from this warranty. TSN does not authorize any person or party to assume or create for it any other obligation or liability in connection with Products except as set forth herein.

This Warranty is expressly in lieu of all other warranties, expressed or implied, including any warranties of merchantability or fitness for a particular purpose, all such other warranties being hereby expressly excluded.

Patented Technology

BackIt®, BridgeBar®, BridgeClip®, BuckleBridge®, CircleTrak®, DriftClip®, DriftCorner®, DriftTrak®, GripClip®, 600JAM®, 800JAM®, JamStud®, MidWall™, MasterClip®, NotchTrak®, PrimeWall®, 600SG®, 6000SG®, SigmaStud®, SigmaTrak®, Step-Bushing Technology™, StiffClip®, StiffWall®, ThermaFast®, TightStrap®, VertiClip®, and VertiTrack® are trademarked products, and are patented or patent-pending technologies of TSN. Numerous TSN design configurations are patented and/or patent pending and are protected under US and International patent laws. Patent numbers include: #4,970,411; #4,970,412; #4,970,413; #5,079,710; #5,467,566; #5,904,023; #5,906,080; #6,612,087; #6,701,689; #6,892,504; #7,104,024; #7,503,150; #7,559,519; #7,596,921; #7,634,889; #7,788,878; #7,832,162; #7,836,657; #8,132,383; #8,181,419; #8,205,402; #8,387,321 and #8,683,770.

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