



CURTAINWALL DEFLECTION SOLUTIONS

PRODUCT CATALOG



**COMMITTED TO PRODUCING QUALITY
STEEL FRAMING COMPONENTS & ACCESSORIES
FOR THE CONSTRUCTION OF COMMERCIAL,
INSTITUTIONAL AND RESIDENTIAL STRUCTURES.**

WWW.BUYSUPERSTUD.COM
800-477-7883



Company Overview

Since 1973, Super Stud Building Products, Inc. has been a proud manufacturer of the industry's most diverse offering of steel framing components and accessories for use in construction of commercial, institutional and residential structures.

Our commitment to quality products and prompt service has allowed us to expand to markets including the entire East coast and beyond. Our team of professionals in sales, customer service and production are committed to furnishing competitive pricing and timely deliveries throughout your project.

At Super Stud Building Products we realize your reputation is the key to success, and our guarantee to you, is to provide superior quality products.

Contact us today

- Product information
 - Ordering & Shipping
 - Green Building & Safety Information
 - AIA Continuing Education
 - Submittal Builder
 - Specifications
 - Contract Ready Documentation
- buysuperstud.com or dial 800-477-7883

Super Stud Building Products Provides Comprehensive Technical Engineering Services that Support Your Project Goals. Call us at (732)-662-6200 or email us at technical@buysuperstud.com

TERMS & CONDITIONS OF SALE

Product Use

Products in this catalog are designed and manufactured for a specific purpose; therefore:

- a) products should not be used with other connectors not approved by a qualified designer.
- b) product modification or modifications made in installation procedures should only be made by a qualified designer.

Note: It becomes the sole responsibility of the designer when such alterations or modifications as mentioned above are in place.

Indemnity

Customers modifying products or installation procedures, or designing non-catalog products for fabrication by Super Stud Building Products, Inc., shall, regardless of a specific instruction to the user, indemnify, defend and hold harmless Super Stud Building Products Inc., for any and all claimed loss or damage occasioned in whole or in part by non-catalog or modified products.

Non-Catalog and Modified Products

Super Stud Building Products, Inc. should be consulted for any and all product applications requiring modification: particularly:

- a) connectors in hostile environments
- b) evidence of abnormal loading or erection requirements

Please Note the Following:

Super Stud Building Products, Inc., will:

- a) fabricate non-catalog products designed by the customer according to customer specifications.
- b) not provide a warranty, express or implied, on non-catalog products.
- c) not and does not make any representations regarding the stability of use or load carrying capacities on non-catalog products.
- d) require specific instructions regarding the modification product specifications, installation and use; by any and all of the parties modifying its products.

General Notes

- a) The selection of steel used by Super Stud Building Products, Inc. is based on the products steel specifications, including weld-ability, form-ability, strength, thickness and finish. Unless otherwise specified, dimensions are in inches and loads are in lbs., our factory may be contacted for information regarding specific products.
- b) Prior approval for the manufacture of non-catalog products must be obtained from Super Stud Building Products and submitted together with an engineered drawing for such products ordered.
- c) All references are to self-drilling screws.
- d) Stripped fastener connections. A screw fastener that strips the steel or screw threads will not take the design load. Prevent stripping by limiting torque applied and determine if the connection will perform as required.

Precautions:

The following will jeopardize connections:

- a) Do not overload by exceeding catalog loads.
- b) Do not bend steel when installing; this may result in a fracture at the bend line. Fractured steel will not carry the load and must be replaced.
- c) Please Note: Super Stud Building Products, Inc., reserves the right to change models, designs and/or specifications without notice or liability for such changes.

Testing Procedures:

Super Stud Building Products, Inc. participates in an extensive product testing program. This testing ensures that all published product loads are correct. Testing was conducted under the supervision of Roger A. La Boube, Ph.D., P.E. Refer to page two of our catalog for more information regarding test procedures.

Instructions to the Installer

- a) All specified fasteners must be installed according to the instructions in this catalog. Incorrect fastener quantity, size, type, material, or finish may cause the connection to fail. Install all specified fasteners before loading the connection.
- b) The use of proper safety equipment is essential.
- c) Welding galvanized steel may produce harmful fumes follow proper welding procedures and safety precautions.

Instructions to the Designer

- a) All of the products in this catalog were tested to failure. Three duplicate tests were performed for each material thickness and yield strength. The published loads are the SERVICEABLE ratings and are based on a maximum deflection limit of 1/8".
- b) Stud Building Products strongly recommends the following addition to construction drawings and specifications: "Substitutions for Super Stud Building Products, Inc. deflection chips must be pre-approved in writing by the designer". A detailed accounting of substitutions being used must be added to the construction drawings and specifications.

Definitions

Allowable Load: The maximum design load that can be imposed on a connection. Loads in excess of the allowable load can cause unacceptable deformations.

Deflection: The distance a point, defined at test set-up, moves when a load is applied to a product.

Design Load: This calculates the maximum load imposed on a connection during the life of a structure.



Deflection Clip Quick Comparison Chart

| Style | NOTES | SSBP Old Clip | SSBP New Clip | ClarkDietrich | Marino/Ware | Simpson Strong-Tie | Steel Network |
|------------------------------|-----------------------|---------------|-------------------------|---------------|-----------------|-----------------------------------|---------------|
| BYPASS DEFLECTION CLIP | 3.625 | DC 1500* | SSDB 362 | FCSC 3.5 | WSC 362 | SCB43.5 | SLB 362/400 |
| | 5.5 | DC 1500* | SSDB362 or SSTB600 | FCSC 5.5 | | SCB45.5 | |
| | 6 | DC 1500* | SSTB 600 | FCEC 6 | WSC 600 | SCB45.5 | SLB 600 |
| | 8 | DC 1500* | SSTB 800 | FCEC 8 | WSC 800 | SCB47.5 | SLB 800 |
| | 10 | DC 1500* | SSTB 1000 | FCEC 10 | WSC 1000 | SCB49.5 | SLB 1000 |
| | 12 | DC 1500* | SSTB 1200 | FCEC 12 | WSC 1200 | SCB411.5 | SLB 1200 |
| DEFLECTIO N STRUT | 12" OFFSET | DS 1500 16"* | SSDS 1600 | FS 12 (12") | OUTRIGGER (18") | SSB3.518 (3.5" tall, 18" long) | SLS 12 (12") |
| | 16" OFFSET | DS 1500 16"* | SSDS 1600 | FS 15 (15") | OUTRIGGER (18") | | SLS 15 (15") |
| | 18" OFFSET | DS 1700 16"* | | | OUTRIGGER (18") | | SLS 18 (18") |
| | 20" OFFSET | DS 1500 24"* | | | | | SLS 20 (20") |
| STRUCTURAL HEAD-OF-WALL | FOR 3.625-4" STUDS | ETTC 1500* | SST 362 ¹ | FTC3 | 3T1000 | SCW3.25 | SL362 |
| | | ETTC 1500* | SSTX 362 ^{1,3} | | | | SL400 |
| | FOR 6-8" STUDS | ETTC 1500* | SST 600 ² | FTC5 | 6T1000 | SCW5.5 (legs 4" x 1.5") | SL600 |
| | | ETTC 1500* | SSTX 600 ^{2,3} | | | | SL800 |
| | FOR 10-12" STUDS | ETTC 1500* | SST 600 ² | | | | SL1000 |
| | | ETTC 1500* | SST 600 ² | | | | SL1200 |
| INTERIOR HEAD-OF- WALL | FOR 1.625" STUD | ITTC 450 | ITTC 450 (no change) | FTC3 | 3T1000 | SCW3.25 | SLD150 |
| | FOR 2.5" STUD | ITTC 450 | ITTC 450 (no change) | | | | SLD 250 |
| | FOR 3.625/4 STUD | ITTC 450 | ITTC 450 (no change) | FTC5 | 6T1000 | SCW5.5 (same as above) | SLD362/400 |
| | FOR 6" STUD | ITTC 450 | ITTC 450 (no change) | | | | SLD600 |
| | FOR 8" STUD | ITTC 450 | ITTC 450 (no change) | (same) | (same as above) | | SLD800 |

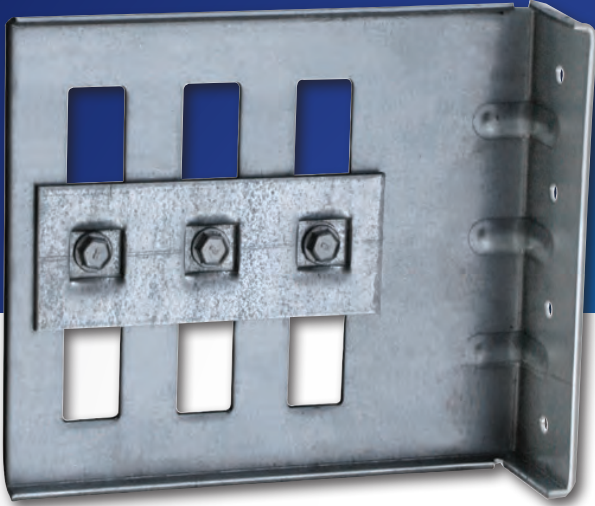
* No longer available.

1. SST 362 and SSTX 362 are 3-1/2" wide to fit into a 3-5/8" stud, and have two slots per clip.
2. SST 600 and SSTX 600 are 5-1/2" wide and have 3 slots per clip.
3. SSTX Clips extend an additional 2.5" vertically to allow for spray-on fireproofing

updated 2/1/2016

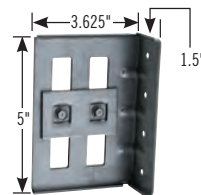
CURTAINWALL VERTICAL DEFLECTION CLIPS

SSTB-SERIES

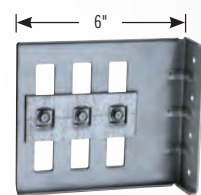


Double & Triple Bypass Clips covered by US patent 6213679

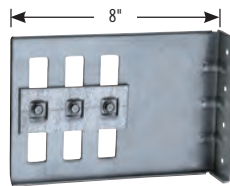
The Super Stud Double Bypass and Triple Bypass clips are used to support exterior wall studs that extend past a roof or floor. The short leg is connected to the edge of the slab or perimeter beam, and standard #12 screws inserted through the patented Glide Plate™ hold the slotted leg of the clip to the exterior wall stud. This allows for up to 3" of total vertical movement of the floor or roof without any additional axial load on the stud.



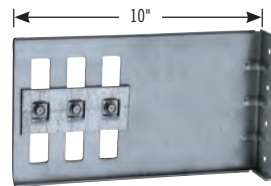
SSDB 362



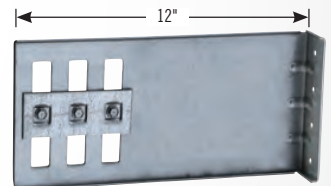
SSTB 600



SSTB 800



SSTB 1000



SSTB 1200

**Super
Stud™**
Building Products, Inc.

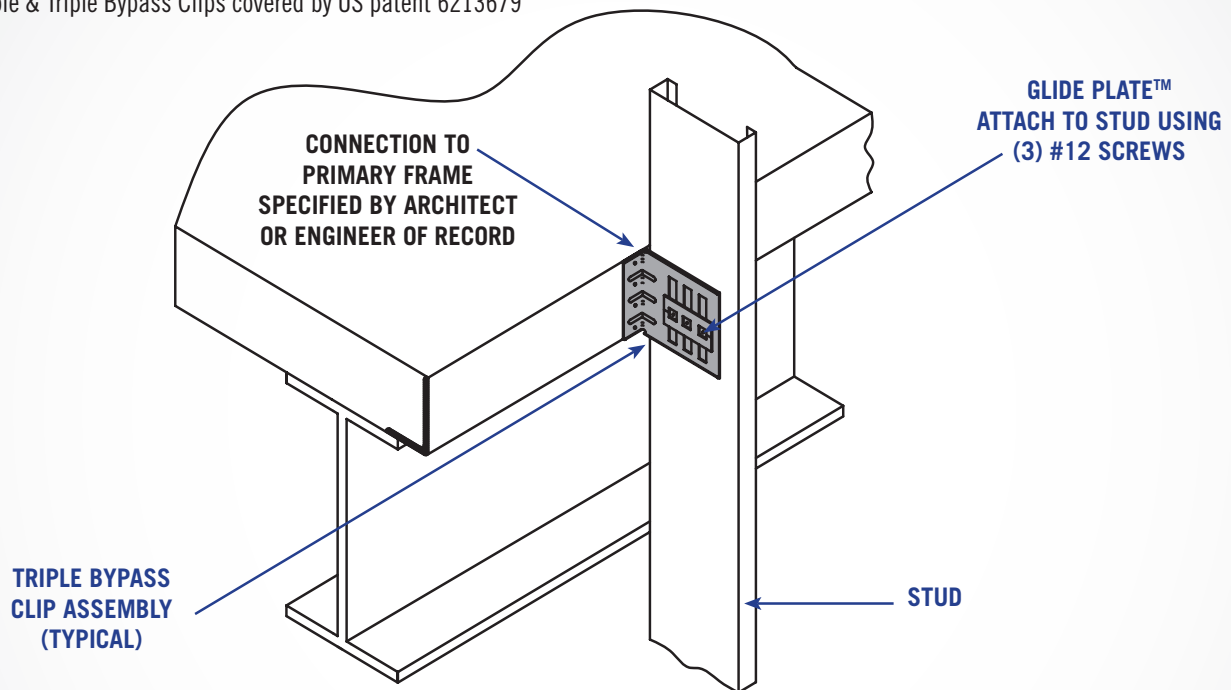
PRODUCT ATTRIBUTES

1. Glide Plate™ allows the use of ANY #12 hex-head or pan-head screw: no special "shouldered" screws required.
2. Heavy-duty construction with thicker steel provides some of the best capacities in the industry for bypass slide clips.
3. No need for the installer to "back off" screws to prevent clamping action: Glide Plate™ allows for screws to be driven fully, saving time and labor.
4. Reversible – doesn't matter which way the stud is turned.
5. Strength and durability: Both Glide Plate™ and clip are made with prime 12 gauge G90 galvanized ASTM A653 steel, with a minimum 50 ksi yield.
6. 3½" tall slots – the tallest in the industry – allow a full 3" of free movement.
7. Glide Plate™ provides a full ½" of bearing along each slot. The Glide Plate™ locks screws together to work as a unit distributing the load and reducing the likelihood of individual screw shear. Even if one or more screws are stripped, the Glide Plate™ allows the clip to perform almost as if no screws were stripped.
8. All holes are pre-punched, and clip is pre-assembled with Glide Plate™ taped to center position of slot.
9. Embossed guide marks on Glide Plate™ allow for perfect alignment at the top, middle, or bottom of slot.

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Suggested Detail for Installation of the Vertical Deflection Clip SSTB & SSDB

Double & Triple Bypass Clips covered by US patent 6213679



Typical 1-1/2" Deflection Up & Down
Position Glide Plate™ at center of slot to allow maximum 1-1/2" deflection of floor or roof up or down.

Total 3" Deflection
Position Glide Plate™ at bottom of slot to allow maximum 3" Deflection in one direction.

ALLOWABLE DESIGN LOADS: SSTB / SSDB

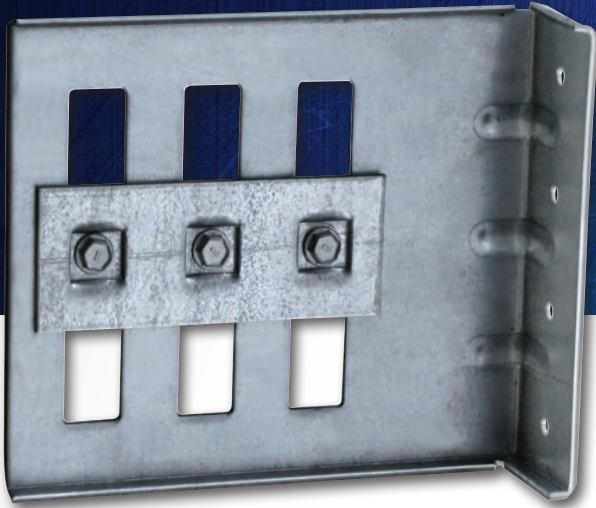
| Stud Material Thickness (Inches / mm.) | Stud Gauge | Fy: Stud Yield Strength (KSI) | Allowable Load Double Bypass 2 slots (Lbs.) | Allowable Load Triple Bypass 3 slots (Lbs.) |
|--|---------------|-------------------------------|---|---|
| 0.033 / 0.84 | Structural 20 | 33 | Results Pending | Results Pending |
| 0.043 / 1.09 | 18 | 33 | Results Pending | Results Pending |
| 0.054 / 1.37 | 16 | 50 | 1200 | 1850 |
| 0.068 / 1.73 | 14 | 50 | 1200 | 1850 |
| 0.097 / 2.46 | 12 | 50 | 1200 | 1850 |

DETAIL TO BE VERIFIED WITH ARCHITECT / ENGINEER OF RECORD PRIOR TO INSTALLATION.

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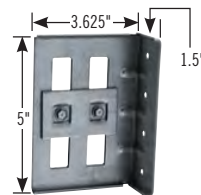
CURTAINWALL VERTICAL DEFLECTION CLIPS

SSTB & SSDB S E R I E S

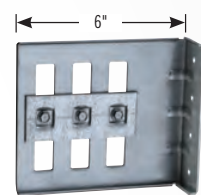


The Super Stud Double Bypass and Triple Bypass clips are used to support exterior wall studs that extend past a roof or floor. The short leg is connected to the edge of the slab or perimeter beam, and standard #12 screws inserted through the patented Glide Plate™ hold the slotted leg of the clip to the exterior wall stud. This allows for up to 3" of total vertical movement of the floor or roof without any additional axial load on the stud.

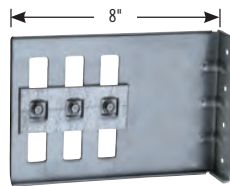
Double & Triple Bypass Clips covered by US patent 6213679



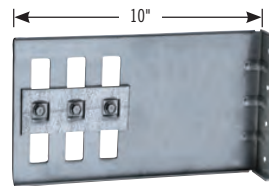
SSDB 362



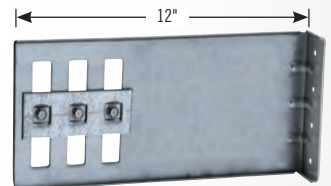
SSTB 600



SSTB 800



SSTB 1000



SSTB 1200

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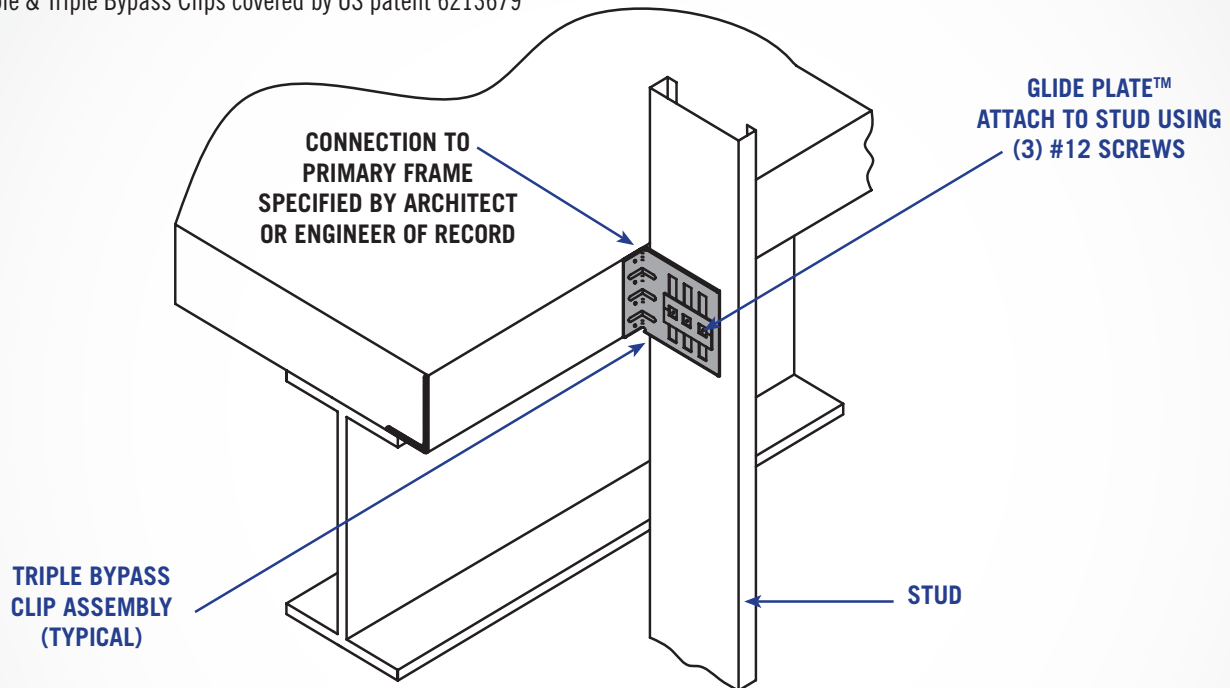
PRODUCT ATTRIBUTES

1. Glide Plate™ allows the use of ANY #12 hex-head or pan-head screw: no special "shouldered" screws required.
2. Heavy-duty construction with thicker steel provides some of the best capacities in the industry for bypass slide clips.
3. No need for the installer to "back off" screws to prevent clamping action: Glide Plate™ allows for screws to be driven fully, saving time and labor.
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7. Glide Plate™ provides a full ½" of bearing along each slot. The Glide Plate™ locks screws together to work as a unit distributing the load and reducing the likelihood of individual screw shear. Even if one or more screws are stripped, the Glide Plate™ allows the clip to perform almost as if no screws were stripped.
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9. Embossed guide marks on Glide Plate™ allow for perfect alignment at the top, middle, or bottom of slot.

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Suggested Detail for Installation of the Vertical Deflection Clip SSTB & SSDB-Series

Double & Triple Bypass Clips covered by US patent 6213679



Typical 1-1/2" Deflection Up & Down
Position Glide Plate™ at center of slot to allow maximum 1-1/2" deflection of floor or roof up or down.

Total 3" Deflection
Position Glide Plate™ at bottom of slot to allow maximum 3" Deflection in one direction.

ALLOWABLE DESIGN LOADS: SSTB / SSDB

| Stud Material Thickness (Inches / mm.) | Stud Gauge | Fy: Stud Yield Strength (KSI) | Allowable Load Double Bypass 2 slots (Lbs.) | Allowable Load Triple Bypass 3 slots (Lbs.) |
|--|---------------|-------------------------------|---|---|
| 0.033 / 0.84 | Structural 20 | 33 | Results Pending | Results Pending |
| 0.043 / 1.09 | 18 | 33 | Results Pending | Results Pending |
| 0.054 / 1.37 | 16 | 50 | 1200 | 1850 |
| 0.068 / 1.73 | 14 | 50 | 1200 | 1850 |
| 0.097 / 2.46 | 12 | 50 | 1200 | 1850 |

DETAIL TO BE VERIFIED WITH ARCHITECT / ENGINEER OF RECORD PRIOR TO INSTALLATION.

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Product Name: SSDS 1600
12 Gauge Bypass Deflection Strut

Product Category:

structural metal stud framing:
specification section 05 40 00

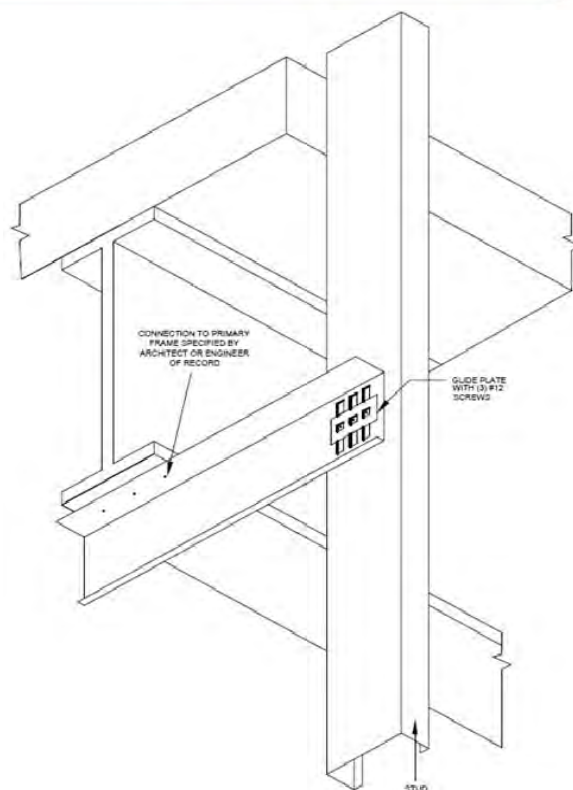
| | |
|----------------------------|---|
| Material: | ASTM A1003 & A653 ST50H, 50 KSI yield strength 65 KSI tensile strength |
| Thickness: | 0.1017" design (12 gauge) |
| Available Coatings: | G90 (standard) |
| Packaging: | 10 pieces triple-banded |
| Connectors: | To stud: (3) Standard #12 screws To structure: Pins or other anchors |
| Dimensions: | 1.5" top (horizontal) leg 5.5" vertical (slotted) leg 0.5" bottom stiffener 16" overall length along bends |

Product Description:

Super Stud bypass deflection strut provides up to 3" of vertical movement, while restraining stud framing against lateral movement. The SSDS 1600 is a full 16 inches long, and can be used with stud depths ranging from 3-5/8" up to 12" deep. Slots at both ends of the clip permit use with studs facing either left or right. The single Glide Plate™ included is taped in one set of slots, but can easily be moved to the other slots for studs turned in the opposite direction.

SYSTEM PROPERTIES

SST clips use the patented Glide Plate® system to allow for up to 3" of vertical movement in 3-1/2" tall vertical slots. The Glide Plate® for the SSDS 1600 requires (3) #12 screws. #10 screws are permitted to be used, but load capacities must be reduced.



CODES & STANDARDS

Members are galvanized in accordance with ASTM A653, G90 minimum. Steel complies with ASTM A1003 for chemical composition and coating. Assemblies comply with ASTM C645, and properly constructed assemblies comply with ASTM C754.

Product Name: SST 362; SST 600
12 Gauge Head-of-wall Deflection Clip

Product Category:

structural metal stud framing:
specification section 05 40 00

| | |
|----------------------------|--|
| Material: | ASTM A1003 & A653 ST50H, 50 KSI yield strength 65 KSI tensile strength |
| Thickness: | 0.1017" design (12 gauge) |
| Available Coatings: | G90 (standard) |
| Packaging: | 25 pieces per box |
| Connectors: | Standard #12 screws (not included) |
| Width - SST 362: | 3-3/8" wide |
| Width - SST 600: | 5-1/2" wide |
| Dimensions (both): | 1.5" top (horizontal) leg 4.75" vertical (slotted) leg |

Product Description:

Super Stud head-of-wall deflection clips provide up to 3" of vertical movement, while restraining the top of studs against lateral movement. The SST 362 clips are 3-3/8" wide, which can be used for studs as shallow as 3-1/2" deep, and are most commonly used on 3-5/8" studs (although these clips may be used on deeper studs as well). SST 600 clips may be used on studs from 6" deep to 12" deep.

SYSTEM PROPERTIES

SST clips use the patented Glide Plate® system to allow for up to 3" of vertical movement in 3-1/2" tall vertical slots. The Glide Plate® for the SST 600 requires (3) #12 screws, while the Glide Plate® for the SST 362 requires only (2) #12 screws. #10 screws are permitted to be used, but load capacities must be reduced.



SST 362



SST 600

CODES & STANDARDS

Members are galvanized in accordance with ASTM A653, G90 minimum. Steel complies with ASTM A1003 for chemical composition and coating. Assemblies comply with ASTM C645, and properly constructed assemblies comply with ASTM C754.

SST600 Head-Of-Wall Deflection Clip

97 mil (12 gauge) thickness; G90 Coating (standard)

Material: ASTM A1003 & A653 ST50H

Yield Strength: 50 ksi **Tensile strength:** 65 ksi

Design Thickness: 0.1017" • Minimum Thickness: 0.0966" • Mil Thickness: 97 • Gauge: 12

Width: 5.5" wide • **Height:** 4.75" vertical (slotted) leg • **Depth:** 1.5" horizontal (top) leg

Capacities for SST 600 head-of-wall Clip

| | With 3 #12 screws |
|----------------|----------------------|
| 33 mil 33 KSI | 300 |
| 43 mil 33 KSI | 380 |
| 54 mil 50 KSI | 725 |
| 68 mil 50 KSI | 915 |
| 97 mil 50 KSI | 1170 |
| 118 mil 50 KSI | 1170 |



Preliminary clip capacities for SST 600 clip. For SST 350, use 2/3 these values: based on (2) #12 screws. Note that capacities for 43, and 54 mil clips have been interpolated from test data on 33 and 68 mil samples.

These values have been reduced based on AISI North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-12) chapter F safety factors. Field values will likely be higher. Super Stud is in the process of developing 3rd party verified and tested values.

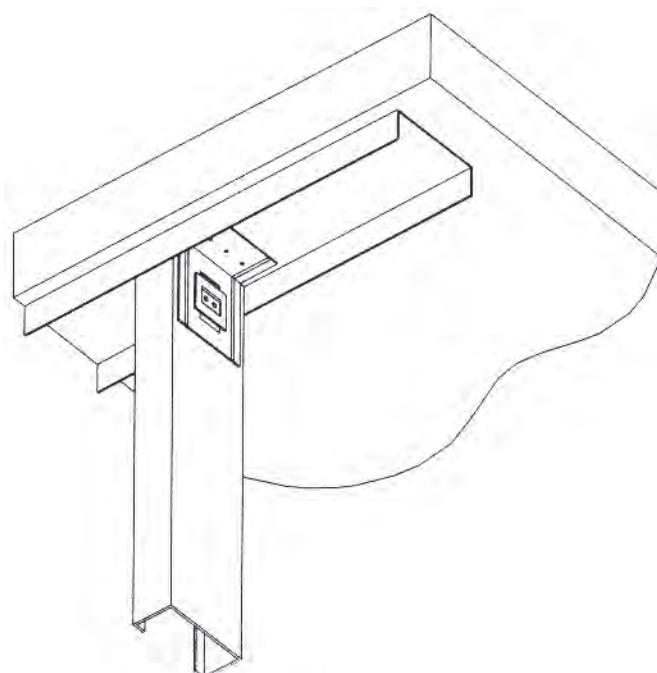
INTERIOR TOP TRACK DEFLECTION CLIP ITTC 450

Product Application:

The Top Track Clip secures interior drywall studs at head of wall which is top of wall to deck or building structural frame and allowing for vertical deflection of 3/4" up and down not designed for axial load.

Product Attributes:

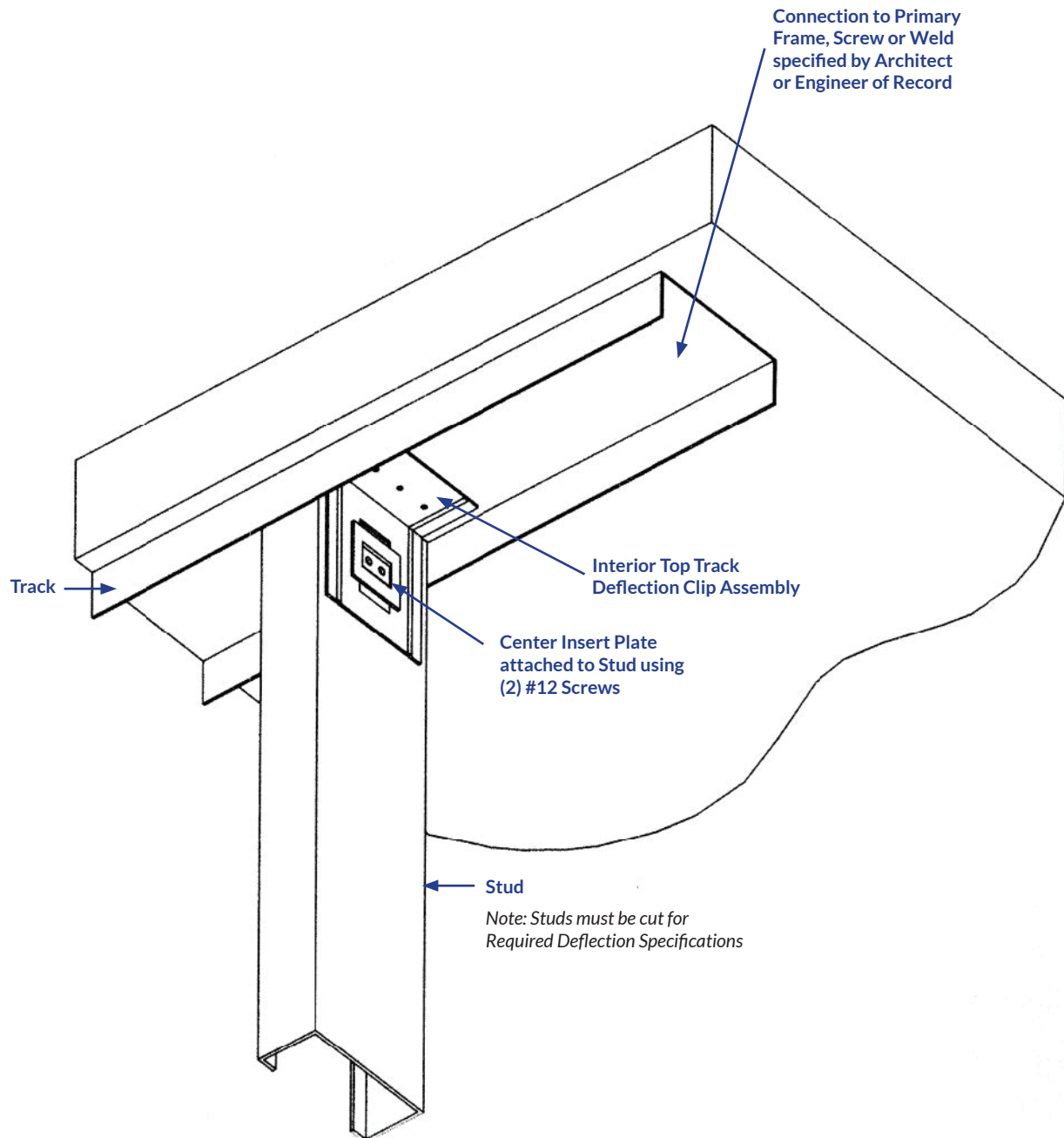
1. Resist horizontal forces in both positive & negative direction.
2. Use of certified steel ASTM A 653-CSB.
3. Ease of installation to top of wall or to primary structural frame is dependent upon base material (concrete or steel) and design configurations.
4. Sliding mechanism screw attachment to stud web.



ALLOWABLE VERTICAL DESIGN LOAD: MODEL NO. ITTC - 450 *(*for 3-1/2" to 6" studs)*

| Stud Material Thickness Inches (Ga). mm. | Stud Yield Strength (Fy). KSI (MPa). | Design Load Lbs. (kN) |
|---|---|--------------------------|
| 0.019 (25) 0.48 | 33 (227) | 180 (0.79) |
| 0.033 (20) 0.84 | 33 (227) | 300 (1.33) |
| 0.043 (18) 1.09 | 33 (227) | 450 (1.99) |


SUGGESTED DETAIL FOR INSTALLATION OF THE INTERIOR TOP TRACK DEFLECTION CLIP 450



**1 - 1/2" TOTAL VERTICAL DEFLECTION ONE WAY
3/4" DEFLECTION UP & DOWN**

DETAIL TO BE VERIFIED WITH ARCHITECT / ENGINEER OF RECORD PRIOR TO INSTALLATION

Patent Pending



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Click here to download Super Stud Build Products' Specification Sections Ready for Contract Documents



Division 5: Structural Metal Framing(Specification section 05 40 00)
Division 9: Nonstructural Metal Framing(Specification section 09 22 16)
Safety Specification for Division 9 (section 09 22 16)

Affiliated Companies to Support A Total Build Concept



Manufacturer of steel framing components, studs, joists and accessories.

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Mississippi Facility
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Hattiesburg, MS 39401
P: 601-584-7550
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