

## Fast Top™ Clip

### Head-of-wall connection

#### Head-of-wall deflection conditions for exterior curtain wall and interior, nonload-bearing walls

ClarkDietrich Fast Top™ Clips are used in head-of-wall deflection conditions for in-fill curtain wall assemblies and/or interior nonload-bearing partitions to provide for vertical movement. These clips are used in place of, or in combination with, deflection track. They also make a positive attachment and eliminate the need to install bridging continuously throughout the upper-most punchouts. The Fast Top clip connectors can be attached to the underside of structural members, concrete decks or floor assemblies. Studs must be cut less than full height to enable vertical movement up to 2-1/2" (1-1/4" up and down). Fast Top clips install quickly with welds, drill-in concrete anchors, screws or powder-actuated fasteners. Proprietary Deflection Screws are used to attach the clip to the cold-formed framing and to ensure frictionless deflection. These clips are also embossed with fastening patterns to ensure accurate placement of fasteners.

#### MATERIAL SPECIFICATIONS

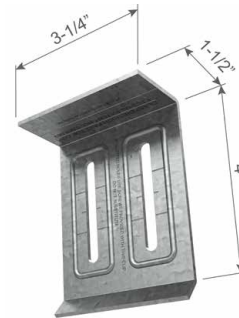
**Gauge:** 14 gauge (68mils)  
**Design Thickness:** 0.0713 inches  
**Coating:** G90  
**Yield Strength:** 50ksi

#### CODE APPROVALS AND PERFORMANCE STANDARDS

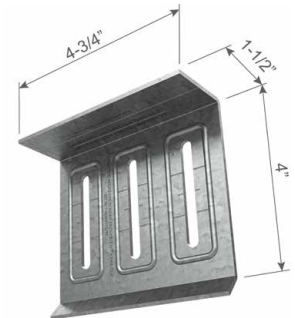
IAPMO ER-729  
 AISI S100

#### ALTERNATIVE PRODUCTS

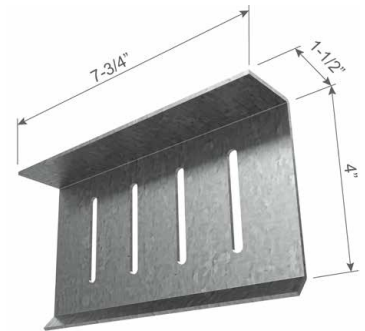
MaxTrak® Slotted Deflection Track



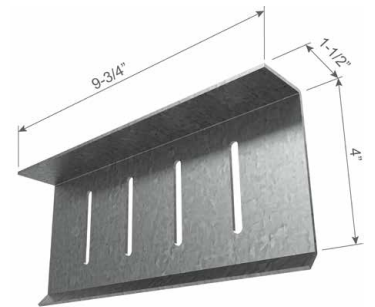
FTC3



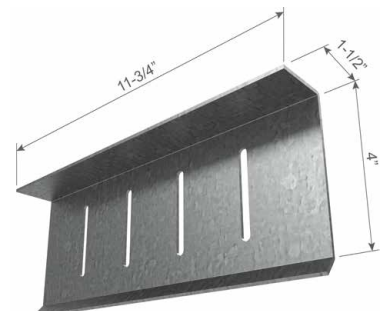
FTC5



FTC8



FTC10



FTC12



Proprietary  
Deflection Screw

#### Fast Top™ Clip (FTC)

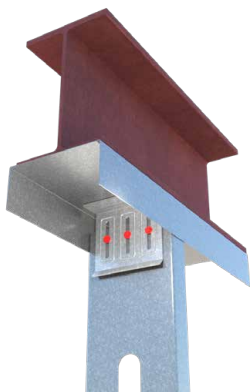
| Clip Designation | Product Thickness |                       | Size (in)          | Packaging Pcs./Bucket |
|------------------|-------------------|-----------------------|--------------------|-----------------------|
|                  | mils (ga)         | Design Thickness (in) |                    |                       |
| FTC3             | 68 (14)           | 0.0713                | 1-1/2 x 4 x 3-1/4  | 25                    |
| FTC5             | 68 (14)           | 0.0713                | 1-1/2 x 4 x 4-3/4  | 30                    |
| FTC8             | 68 (14)           | 0.0713                | 1-1/2 x 4 x 7-3/4  | 25                    |
| FTC10            | 68 (14)           | 0.0713                | 1-1/2 x 4 x 9-3/4  | 25                    |
| FTC12            | 68 (14)           | 0.0713                | 1-1/2 x 4 x 11-3/4 | 25                    |

FTC3 includes 55 Proprietary Deflection Screws per carton.  
 FTC5 includes 110 Proprietary Deflection Screws per carton.  
 FTC8 includes 110 Proprietary Deflection Screws per carton.  
 FTC10 includes 110 Proprietary Deflection Screws per carton.  
 FTC12 includes 110 Proprietary Deflection Screws per carton.

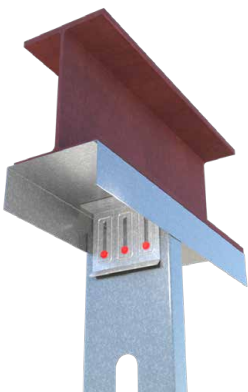
U.S. Patent No. 6,688,069

INSTALLATION

Connections to the building can be made with screws, powder-actuated fasteners, drill-in concrete anchors or welding. Mechanical fasteners shall be equally spaced along the center of the 1-1/2" flange. When using the tabulated allowable loads in the tables on the opposite page, connections to the building structure must be made according to the notes. Proprietary Deflection Screws are used to attach the clip to the cold-formed steel framing. Screws shall be driven through the slotted holes and positioned to allow for the appropriate building deflection. Two deflection screws are required with the FTC3, three deflection screws are required with the FTC5, and four deflection screws are required with the FTC8, FTC10, FTC12.

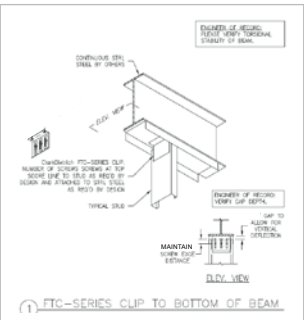
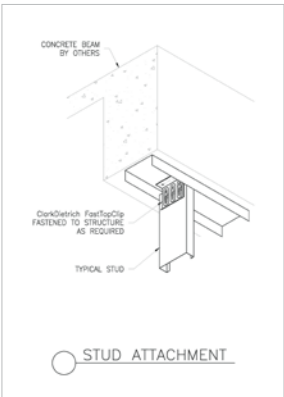


FRAMING CENTERED CONNECTION



FRAMING OFFSET CONNECTION

TYPICAL CONSTRUCTION DETAILS



Visit our CAD Library at [cad.clarkdietrich.com](http://cad.clarkdietrich.com) to view or download construction details in .dwg, .dxf, and .pdf formats.

## Fast Top™ Clip

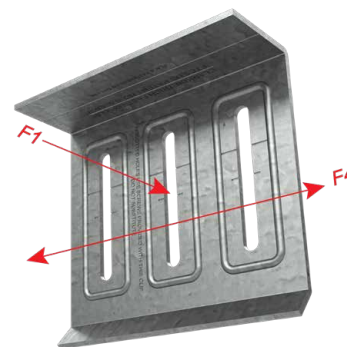
## Head-of-wall connection

ATTACHMENT TO STRUCTURE: **DESIGNED BY OTHERS**

| Clip Designation | Framing Member Details |                          |                                     | Load Capacities (lbs)  |          |           |                     |              |          |           |
|------------------|------------------------|--------------------------|-------------------------------------|------------------------|----------|-----------|---------------------|--------------|----------|-----------|
|                  | Stud Depth (in)        | Stud Thickness mils (ga) | Yield Strength F <sub>y</sub> (ksi) | In-Plane (F1) - Center |          |           | Shear (F4) - Center |              |          |           |
|                  |                        |                          |                                     | Nominal Load           | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load |
| FTC3             | 3-5/8                  | 33 (20)                  | 33                                  | 160                    | 80       | 130       | 645                 | 905          | 405      | 610       |
|                  |                        | 43 (18)                  | 33                                  | 220                    | 115      | 180       | 720                 | 1230         | 605      | 905       |
|                  |                        | 54 (16)                  | 50                                  | 270                    | 140      | 225       | 740                 | 1560         | 800      | 1285      |
|                  |                        | 68 (14)                  | 50                                  | 290                    | 150      | 235       | 740                 | 1565         | 805      | 1285      |
|                  |                        | 97 (12)                  | 50                                  | 325                    | 165      | 265       | 740                 | 1695         | 870      | 1395      |
| FTC5             | 6                      | 33 (20)                  | 33                                  | 180                    | 90       | 150       | 1355                | 1245         | 610      | 910       |
|                  |                        | 43 (18)                  | 33                                  | 240                    | 125      | 200       | 1735                | 1820         | 905      | 1360      |
|                  |                        | 54 (16)                  | 50                                  | 350                    | 180      | 290       | 1735                | 2700         | 1390     | 2220      |
|                  |                        | 68 (14)                  | 50                                  | 390                    | 200      | 320       | 1735                | 2745         | 1410     | 2260      |
|                  |                        | 97 (12)                  | 50                                  | 420                    | 215      | 345       | 1735                | 3235         | 1660     | 2660      |
| FTC8             | 6                      | 33 (20)                  | 33                                  | 220                    | 115      | 180       | 1640                | 1740         | 810      | 1215      |
|                  |                        | 43 (18)                  | 33                                  | 300                    | 155      | 245       | 2940                | 2415         | 1205     | 1810      |
|                  |                        | 54 (16)                  | 50                                  | 470                    | 240      | 385       | 3495                | 3510         | 1805     | 2885      |
|                  |                        | 68 (14)                  | 50                                  | 575                    | 295      | 475       | 4340                | 4475         | 2300     | 3675      |
|                  |                        | 97 (12)                  | 50                                  | 700                    | 360      | 575       | 4635                | 6250         | 3210     | 4815      |
| FTC10            | 6                      | 43 (18)                  | 33                                  | 405                    | 210      | 330       | 3475                | 2865         | 1205     | 1810      |
|                  |                        | 54 (16)                  | 50                                  | 525                    | 270      | 430       | 4880                | 4435         | 2280     | 3645      |
|                  |                        | 68 (14)                  | 50                                  | 675                    | 345      | 555       | 5610                | 5255         | 2700     | 4320      |
|                  |                        | 97 (12)                  | 50                                  | 920                    | 470      | 755       | 5985                | 8205         | 2825     | 4520      |
| FTC12            | 6                      | 54 (16)                  | 50                                  | 595                    | 305      | 490       | 5315                | 4455         | 2285     | 3660      |
|                  |                        | 68 (14)                  | 50                                  | 785                    | 400      | 645       | 6035                | 5320         | 2735     | 4375      |
|                  |                        | 97 (12)                  | 50                                  | 1090                   | 560      | 895       | 7110                | 8925         | 3070     | 4815      |

**Notes:**

- 1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- 2 Fast Top Clip attachment to structure designed by others. Listed capacities are applicable for Fast Top Clip to stud only (framing connection).
- 3 ClarkDietrich Proprietary Deflection Screws (0.25" dia) are designed to secure clips to framing members via the slotted holes provided.
- 4 The listed load capacities assume that the framing screws are positioned at the center of the slots.
- 5 A maximum deflection gap of 1-1/4" shall be maintained between the clip structural attachment and end/edge of framing member.
- 6 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 7 The ClarkDietrich Proprietary Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 8 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.
- 9 It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installation.
- 10 Other framing members may be used with these clips; however, it is the responsibility of the design professional to verify the framing members' capacities and potential failure modes.

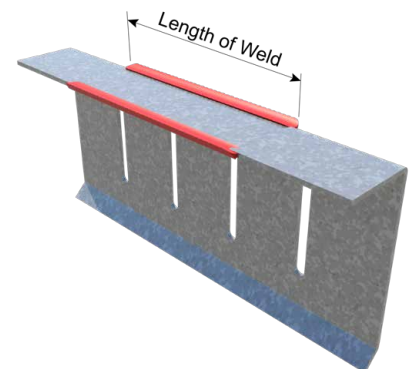
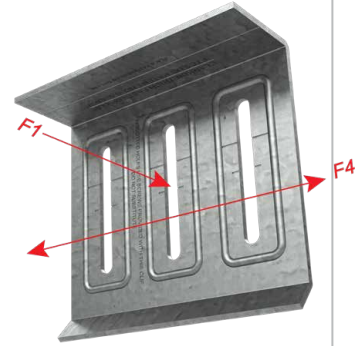


## ATTACHMENT TO STRUCTURE: WELD TO 3/16" STEEL

| Clip Designation | Framing Member Details |                         | Mechanically Anchored to Structure                                                                | Load Capacities (lbs) / Clip |          |           |                     |              |          |           |                     |              |          |           |
|------------------|------------------------|-------------------------|---------------------------------------------------------------------------------------------------|------------------------------|----------|-----------|---------------------|--------------|----------|-----------|---------------------|--------------|----------|-----------|
|                  | Thickness<br>mils (ga) | Yield Strength<br>(ksi) |                                                                                                   | In-Plane (F1)                |          |           | Shear (F4) - Center |              |          |           | Shear (F4) - Offset |              |          |           |
|                  |                        |                         |                                                                                                   | Nominal Load                 | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load |
| FTC3             | 33 (20)                | 33                      | (2) 3" Welds - along each edge of the short leg (each weld equally distanced from center of clip) | 160                          | 80       | 130       | 645                 | 905          | 405      | 610       | 645                 | 905          | 405      | 610       |
|                  | 43 (18)                | 33                      |                                                                                                   | 220                          | 115      | 180       | 720                 | 1230         | 605      | 905       | 720                 | 1230         | 605      | 905       |
|                  | 54 (16)                | 50                      |                                                                                                   | 270                          | 140      | 225       | 740                 | 1560         | 800      | 1285      | 740                 | 1560         | 800      | 1285      |
|                  | 68 (14)                | 50                      |                                                                                                   | 290                          | 150      | 235       | 740                 | 1565         | 805      | 1285      | 740                 | 1565         | 805      | 1285      |
|                  | 97 (12)                | 50                      |                                                                                                   | 325                          | 165      | 265       | 740                 | 1695         | 870      | 1395      | 740                 | 1695         | 870      | 1395      |
| FTC5             | 33 (20)                | 33                      | (2) 4" Welds - along each edge of the short leg (each weld equally distanced from center of clip) | 180                          | 90       | 150       | 1245                | 1245         | 610      | 910       | 1245                | 1245         | 610      | 910       |
|                  | 43 (18)                | 33                      |                                                                                                   | 240                          | 125      | 200       | 1735                | 1820         | 905      | 1360      | 1735                | 1820         | 905      | 1360      |
|                  | 54 (16)                | 50                      |                                                                                                   | 350                          | 180      | 290       | 1735                | 2700         | 1390     | 2220      | 1735                | 2700         | 1390     | 2220      |
|                  | 68 (14)                | 50                      |                                                                                                   | 390                          | 200      | 320       | 1735                | 2745         | 1410     | 2260      | 1735                | 2745         | 1410     | 2260      |
|                  | 97 (12)                | 50                      |                                                                                                   | 420                          | 215      | 345       | 1735                | 3235         | 1660     | 2660      | 1735                | 3235         | 1660     | 2660      |
| FTC8             | 33 (20)                | 33                      | (2) 5" Welds - along each edge of the short leg (each weld equally distanced from center of clip) | 220                          | 115      | 180       | 1640                | 1740         | 810      | 1215      | 1640                | 1740         | 810      | 1215      |
|                  | 43 (18)                | 33                      |                                                                                                   | 300                          | 155      | 245       | 2415                | 2415         | 1205     | 1810      | 2415                | 2415         | 1205     | 1810      |
|                  | 54 (16)                | 50                      |                                                                                                   | 470                          | 240      | 385       | 3495                | 3510         | 1805     | 2885      | 3495                | 3510         | 1805     | 2885      |
|                  | 68 (14)                | 50                      |                                                                                                   | 575                          | 295      | 475       | 4340                | 4475         | 2300     | 3675      | 4340                | 4475         | 2300     | 3675      |
|                  | 97 (12)                | 50                      |                                                                                                   | 700                          | 360      | 575       | 4635                | 6250         | 3210     | 5135      | 4635                | 5480         | 2740     | 4110      |
| FTC10            | 43 (18)                | 33                      |                                                                                                   | 405                          | 210      | 330       | 2865                | 2865         | 1205     | 1810      | 2865                | 2865         | 1205     | 1810      |
|                  | 54 (16)                | 50                      |                                                                                                   | 525                          | 270      | 430       | 4435                | 4435         | 2280     | 3645      | 4435                | 4435         | 2280     | 3645      |
|                  | 68 (14)                | 50                      |                                                                                                   | 675                          | 345      | 555       | 5255                | 5255         | 2700     | 4320      | 5255                | 5255         | 2700     | 4110      |
|                  | 97 (12)                | 50                      |                                                                                                   | 920                          | 470      | 755       | 5985                | 7610         | 2825     | 4520      | 5480                | 5480         | 2740     | 4110      |
| FTC12            | 54 (16)                | 50                      |                                                                                                   | 595                          | 305      | 490       | 4455                | 4455         | 2285     | 3660      | 4455                | 4455         | 2285     | 3660      |
|                  | 68 (14)                | 50                      |                                                                                                   | 785                          | 400      | 645       | 5320                | 5320         | 2735     | 4375      | 5320                | 5320         | 2735     | 4110      |
|                  | 97 (12)                | 50                      |                                                                                                   | 1090                         | 560      | 895       | 7110                | 7610         | 3070     | 4915      | 5480                | 5480         | 2740     | 4110      |

**Notes:**

- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- Tabulated load capacities are based on the following considerations:
  - Framing Connection: ClarkDietrich Proprietary Deflection Screws (0.25" dia).
  - Connection to Structure: weld along each edge of the structural connection leg (equally spaced from center of the clip) to 3/16" thick ASTM A36 Steel. Refer to table for length of weld.
  - Listed capacities have not been increased for wind, seismic, or other factors.
  - E70XX (min) electrode weld.
- ASD and LRFD loads are based on nominal capacities only. Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- ClarkDietrich Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities were based on framing screws installed at the center and off-center of the slots.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- The ClarkDietrich Proprietary Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installations.

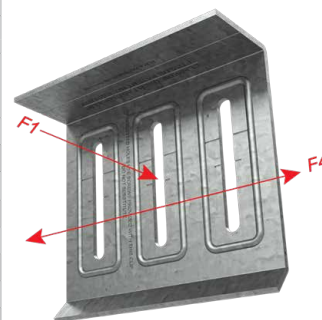


## Fast Top™ Clip

## Head-of-wall connection

## ATTACHMENT TO STRUCTURE: #12 SCREWS TO 3/16" STEEL

| Clip Designation | Framing Member Details |                      | Mechanically Anchored to Structure | Load Capacities (lbs) / Clip |          |           |                     |              |          |           |                     |              |          |           |
|------------------|------------------------|----------------------|------------------------------------|------------------------------|----------|-----------|---------------------|--------------|----------|-----------|---------------------|--------------|----------|-----------|
|                  | Thickness mils (ga)    | Yield Strength (ksi) |                                    | In-Plane (F1)                |          |           | Shear (F4) - Center |              |          |           | Shear (F4) - Offset |              |          |           |
|                  |                        |                      |                                    | Nominal Load                 | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load |
| FTC3             | 33 (20)                | 33                   | 2                                  | 160                          | 80       | 130       | 645                 | 905          | 405      | 610       | 645                 | 905          | 405      | 610       |
|                  |                        |                      | 3                                  | 160                          | 80       | 130       | 645                 | 905          | 405      | 610       | 645                 | 905          | 405      | 610       |
|                  | 43 (18)                | 33                   | 2                                  | 220                          | 115      | 180       | 720                 | 1230         | 605      | 905       | 720                 | 1230         | 605      | 905       |
|                  |                        |                      | 3                                  | 220                          | 115      | 180       | 720                 | 1230         | 605      | 905       | 720                 | 1230         | 605      | 905       |
|                  | 54 (16)                | 50                   | 2                                  | 270                          | 140      | 225       | 740                 | 1560         | 690      | 1040      | 740                 | 1385         | 460      | 690       |
|                  |                        |                      | 3                                  | 270                          | 140      | 225       | 740                 | 1560         | 800      | 1285      | 740                 | 1560         | 740      | 1115      |
|                  | 68 (14)                | 50                   | 2                                  | 290                          | 150      | 235       | 740                 | 1565         | 690      | 1040      | 740                 | 1385         | 460      | 690       |
|                  |                        |                      | 3                                  | 290                          | 150      | 235       | 740                 | 1565         | 805      | 1285      | 740                 | 1565         | 740      | 1115      |
|                  | 97 (12)                | 50                   | 2                                  | 325                          | 165      | 265       | 740                 | 1695         | 690      | 1040      | 740                 | 1385         | 460      | 690       |
| 3                |                        |                      | 325                                | 165                          | 265      | 740       | 1695                | 870          | 1395     | 740       | 1695                | 740          | 1115     |           |
| FTC5             | 33 (20)                | 33                   | 2                                  | 180                          | 90       | 150       | 1245                | 1245         | 610      | 910       | 1245                | 1245         | 540      | 810       |
|                  |                        |                      | 3                                  | 180                          | 90       | 150       | 1245                | 1245         | 610      | 910       | 1245                | 1245         | 610      | 910       |
|                  |                        |                      | 4                                  | 180                          | 90       | 150       | 1245                | 1245         | 610      | 910       | 1245                | 1245         | 610      | 910       |
|                  | 43 (18)                | 33                   | 2                                  | 240                          | 125      | 200       | 1735                | 1820         | 810      | 1215      | 1620                | 1620         | 540      | 810       |
|                  |                        |                      | 3                                  | 240                          | 125      | 200       | 1735                | 1820         | 905      | 1360      | 1735                | 1820         | 905      | 1360      |
|                  |                        |                      | 4                                  | 240                          | 125      | 200       | 1735                | 1820         | 905      | 1360      | 1735                | 1820         | 905      | 1360      |
|                  | 54 (16)                | 50                   | 2                                  | 350                          | 180      | 290       | 1735                | 2425         | 810      | 1215      | 1620                | 1620         | 540      | 810       |
|                  |                        |                      | 3                                  | 350                          | 180      | 290       | 1735                | 2700         | 1300     | 1950      | 1735                | 2550         | 905      | 1360      |
|                  |                        |                      | 4                                  | 350                          | 180      | 290       | 1735                | 2700         | 1390     | 2220      | 1735                | 2700         | 1280     | 1960      |
|                  | 68 (14)                | 50                   | 2                                  | 390                          | 200      | 320       | 1735                | 2425         | 810      | 1215      | 1620                | 1620         | 540      | 810       |
|                  |                        |                      | 3                                  | 390                          | 200      | 320       | 1735                | 2745         | 1300     | 1950      | 1735                | 2550         | 905      | 1360      |
|                  |                        |                      | 4                                  | 390                          | 200      | 320       | 1735                | 2745         | 1410     | 2260      | 1735                | 2745         | 1280     | 1960      |
|                  | 97 (12)                | 50                   | 2                                  | 420                          | 215      | 345       | 1735                | 2425         | 810      | 1215      | 1620                | 1620         | 540      | 810       |
|                  |                        |                      | 3                                  | 420                          | 215      | 345       | 1735                | 3235         | 1300     | 1950      | 1735                | 2550         | 905      | 1360      |
|                  |                        |                      | 4                                  | 420                          | 215      | 345       | 1735                | 3235         | 1590     | 2380      | 1735                | 3010         | 1280     | 1960      |
| FTC8             | 33 (20)                | 33                   | 3                                  | 220                          | 115      | 180       | 1640                | 1740         | 810      | 1215      | 1640                | 1740         | 810      | 1215      |
|                  |                        |                      | 4                                  | 220                          | 115      | 180       | 1640                | 1740         | 810      | 1215      | 1640                | 1740         | 810      | 1215      |
|                  |                        |                      | 5                                  | 220                          | 115      | 180       | 1640                | 1740         | 810      | 1215      | 1640                | 1740         | 810      | 1215      |
|                  | 43 (18)                | 33                   | 3                                  | 300                          | 155      | 245       | 2415                | 2415         | 1205     | 1810      | 2415                | 2415         | 1090     | 1635      |
|                  |                        |                      | 4                                  | 300                          | 155      | 245       | 2415                | 2415         | 1205     | 1810      | 2415                | 2415         | 1205     | 1810      |
|                  |                        |                      | 5                                  | 300                          | 155      | 245       | 2415                | 2415         | 1205     | 1810      | 2415                | 2415         | 1205     | 1810      |
|                  | 54 (16)                | 50                   | 3                                  | 470                          | 240      | 385       | 3495                | 3510         | 1610     | 2410      | 3270                | 3270         | 1090     | 1635      |
|                  |                        |                      | 4                                  | 470                          | 240      | 385       | 3495                | 3510         | 1805     | 2885      | 3495                | 3510         | 1735     | 2605      |
|                  |                        |                      | 5                                  | 470                          | 240      | 385       | 3495                | 3510         | 1805     | 2885      | 3495                | 3510         | 1805     | 2885      |
|                  | 68 (14)                | 50                   | 3                                  | 575                          | 295      | 475       | 4340                | 4475         | 1610     | 2410      | 3270                | 3270         | 1090     | 1635      |
|                  |                        |                      | 4                                  | 575                          | 295      | 475       | 4340                | 4475         | 2015     | 3025      | 4290                | 4290         | 1735     | 2605      |
|                  |                        |                      | 5                                  | 575                          | 295      | 475       | 4340                | 4475         | 2300     | 3570      | 4340                | 4475         | 2060     | 3090      |
|                  | 97 (12)                | 50                   | 3                                  | 700                          | 360      | 575       | 4635                | 4825         | 1610     | 2410      | 3270                | 3270         | 1090     | 1635      |
|                  |                        |                      | 4                                  | 700                          | 360      | 575       | 4635                | 5545         | 2015     | 3025      | 4290                | 4290         | 1735     | 2605      |
|                  |                        |                      | 5                                  | 700                          | 360      | 575       | 4635                | 6190         | 2380     | 3570      | 4635                | 4885         | 2060     | 3090      |
| FTC10            | 43 (18)                | 33                   | 3                                  | 405                          | 210      | 330       | 2865                | 2865         | 1205     | 1810      | 2865                | 2865         | 1205     | 1810      |
|                  |                        |                      | 4                                  | 405                          | 210      | 330       | 2865                | 2865         | 1205     | 1810      | 2865                | 2865         | 1205     | 1810      |
|                  |                        |                      | 5                                  | 405                          | 210      | 330       | 2865                | 2865         | 1205     | 1810      | 2865                | 2865         | 1205     | 1810      |
|                  | 54 (16)                | 50                   | 3                                  | 525                          | 270      | 430       | 4435                | 4435         | 1720     | 2580      | 4110                | 4110         | 1370     | 2055      |
|                  |                        |                      | 4                                  | 525                          | 270      | 430       | 4435                | 4435         | 2165     | 3250      | 4435                | 4435         | 1905     | 2860      |
|                  |                        |                      | 5                                  | 525                          | 270      | 430       | 4435                | 4435         | 2280     | 3645      | 4435                | 4435         | 2265     | 3400      |
|                  | 68 (14)                | 50                   | 3                                  | 675                          | 345      | 555       | 5165                | 5165         | 1720     | 2580      | 4110                | 4110         | 1370     | 2055      |
|                  |                        |                      | 4                                  | 675                          | 345      | 555       | 5255                | 5255         | 2165     | 3250      | 5030                | 5030         | 1905     | 2860      |
|                  |                        |                      | 5                                  | 675                          | 345      | 555       | 5255                | 5255         | 2560     | 3840      | 5255                | 5255         | 2265     | 3400      |
| 97 (12)          | 50                     | 3                    | 920                                | 470                          | 755      | 5165      | 5165                | 1720         | 2580     | 4110      | 4110                | 1370         | 2055     |           |
|                  |                        | 4                    | 920                                | 470                          | 755      | 5985      | 6345                | 2165         | 3250     | 5030      | 5030                | 1905         | 2860     |           |
|                  |                        | 5                    | 920                                | 470                          | 755      | 5985      | 7030                | 2560         | 3840     | 5690      | 5690                | 2265         | 3400     |           |
| FTC12            | 54 (16)                | 50                   | 3                                  | 595                          | 305      | 490       | 4455                | 4455         | 1810     | 2715      | 4455                | 4455         | 1620     | 2430      |
|                  |                        |                      | 4                                  | 595                          | 305      | 490       | 4455                | 4455         | 2285     | 3425      | 4455                | 4455         | 2045     | 3070      |
|                  |                        |                      | 5                                  | 595                          | 305      | 490       | 4455                | 4455         | 2285     | 3660      | 4455                | 4455         | 2285     | 3645      |
|                  | 68 (14)                | 50                   | 3                                  | 785                          | 400      | 645       | 5320                | 5320         | 1810     | 2715      | 4860                | 4860         | 1620     | 2430      |
|                  |                        |                      | 4                                  | 785                          | 400      | 645       | 5320                | 5320         | 2285     | 3425      | 5320                | 5320         | 2045     | 3070      |
|                  |                        |                      | 5                                  | 785                          | 400      | 645       | 5320                | 5320         | 2665     | 4000      | 5320                | 5320         | 2430     | 3645      |
|                  | 97 (12)                | 50                   | 3                                  | 1090                         | 555      | 850       | 5435                | 5435         | 1810     | 2715      | 4860                | 4860         | 1620     | 2430      |
|                  |                        |                      | 4                                  | 1090                         | 560      | 895       | 6855                | 6855         | 2285     | 3425      | 5705                | 5705         | 2045     | 3070      |
|                  |                        |                      | 5                                  | 1090                         | 560      | 895       | 7110                | 7745         | 2665     | 4000      | 6405                | 6405         | 2430     | 3645      |



## Notes:

1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.

2 Tabulated load capacities are based on the following considerations:

a. Framing Connection: ClarkDietrich Proprietary Deflection Screws (0.25" dia).

b. Connection to Structure: #12 HWH Fasteners connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations).

c. Other fasteners may be used to achieve full clip capacity but must be designed separately.

d. Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 ClarkDietrich Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities were based on framing screws installed at the center and off-center of the slots.

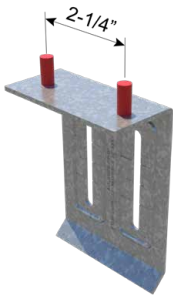
5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.

6 The #12 HWH Fasteners shall have a minimum nominal shear capacity of 2000lbs and minimum nominal tension capacity of 2778lbs according to ESR-1976 and Manufacturer Limits.

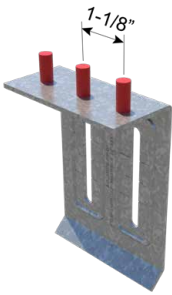
7 The ClarkDietrich Proprietary Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

8 Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.

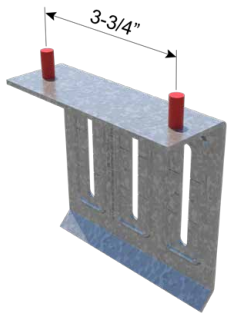
9 It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installation.



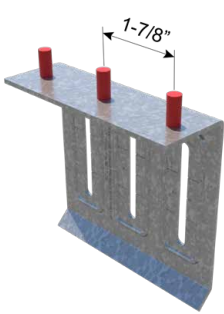
**FTC3**  
**(2) Anchor Condition**



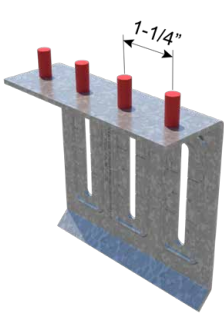
**FTC3**  
**(3) Anchor Condition**



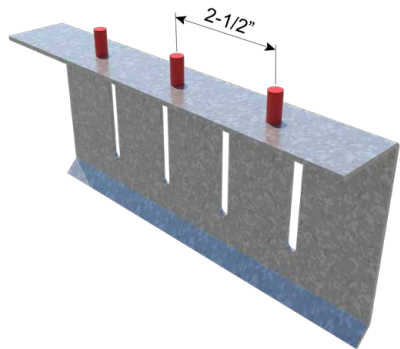
**FTC5**  
**(2) Anchor Condition**



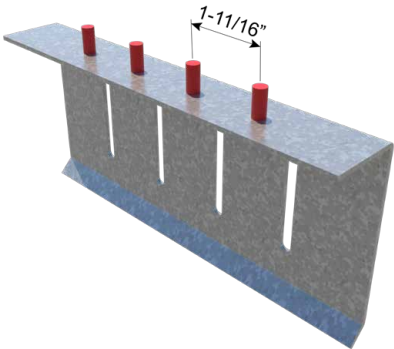
**FTC5**  
**(3) Anchor Condition**



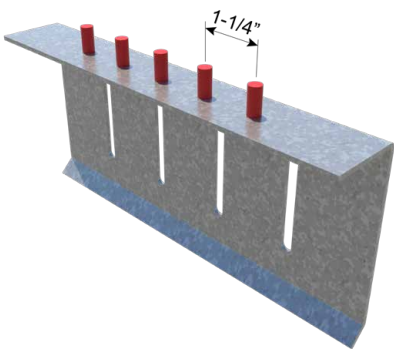
**FTC5**  
**(4) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(3) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(4) Anchor Condition**



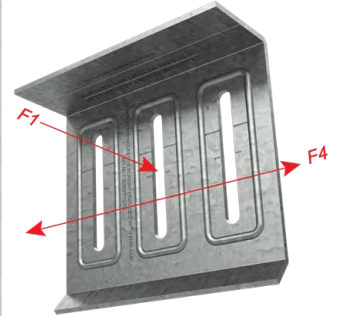
**FTC8, FTC10, FTC12**  
**(5) Anchor Condition**

## Fast Top™ Clip

## Head-of-wall connection

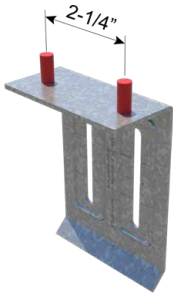
## ATTACHMENT TO STRUCTURE: 0.157" HILTI X-U PINS TO 3/16" STEEL (FS = 5)

| Clip Designation | Framing Member Details |                      | Mechanically Anchored to Structure | Load Capacities (lbs) / Clip   |          |           |                              |              |          |           |                              |              |          |           |
|------------------|------------------------|----------------------|------------------------------------|--------------------------------|----------|-----------|------------------------------|--------------|----------|-----------|------------------------------|--------------|----------|-----------|
|                  | Thickness mils (ga)    | Yield Strength (ksi) |                                    | In-Plane (F1) -Center (FS = 5) |          |           | Shear (F4) - Center (FS = 5) |              |          |           | Shear (F4) - Offset (FS = 5) |              |          |           |
|                  |                        |                      |                                    | Nominal Load                   | ASD Load | LRFD Load | 1/8" Service Load            | Nominal Load | ASD Load | LRFD Load | 1/8" Service Load            | Nominal Load | ASD Load | LRFD Load |
| FTC3             | 33 (20)                | 33                   | 2                                  | 160                            | 80       | 130       | 645                          | 1085         | 355      | 565       | 645                          | 795          | 260      | 420       |
|                  |                        |                      | 3                                  | 160                            | 80       | 130       | 645                          | 1215         | 405      | 610       | 645                          | 1030         | 340      | 540       |
|                  | 43 (18)                | 33                   | 2                                  | 220                            | 115      | 180       | 720                          | 1085         | 355      | 565       | 720                          | 795          | 260      | 420       |
|                  |                        |                      | 3                                  | 220                            | 115      | 180       | 720                          | 1400         | 455      | 730       | 720                          | 1030         | 340      | 540       |
|                  | 54 (16)                | 50                   | 2                                  | 270                            | 140      | 225       | 740                          | 1085         | 355      | 565       | 740                          | 795          | 260      | 420       |
|                  |                        |                      | 3                                  | 270                            | 140      | 225       | 740                          | 1400         | 455      | 730       | 740                          | 1030         | 340      | 540       |
|                  | 68 (14)                | 50                   | 2                                  | 290                            | 150      | 235       | 740                          | 1085         | 355      | 565       | 740                          | 795          | 260      | 420       |
|                  |                        |                      | 3                                  | 290                            | 150      | 235       | 740                          | 1400         | 455      | 730       | 740                          | 1030         | 340      | 540       |
|                  | 97 (12)                | 50                   | 2                                  | 325                            | 165      | 265       | 740                          | 1085         | 355      | 565       | 740                          | 795          | 260      | 420       |
|                  |                        |                      | 3                                  | 325                            | 165      | 265       | 740                          | 1400         | 455      | 730       | 740                          | 1030         | 340      | 540       |
| FTC5             | 33 (20)                | 33                   | 2                                  | 180                            | 90       | 150       | 1355                         | 1510         | 490      | 785       | 1140                         | 1140         | 370      | 595       |
|                  |                        |                      | 3                                  | 180                            | 90       | 150       | 1355                         | 1825         | 610      | 910       | 1355                         | 1480         | 485      | 775       |
|                  |                        |                      | 4                                  | 180                            | 90       | 150       | 1355                         | 1825         | 610      | 910       | 1355                         | 1825         | 600      | 910       |
|                  | 43 (18)                | 33                   | 2                                  | 240                            | 125      | 200       | 1510                         | 1510         | 490      | 785       | 1140                         | 1140         | 370      | 595       |
|                  |                        |                      | 3                                  | 240                            | 125      | 200       | 1735                         | 1980         | 645      | 1030      | 1480                         | 1480         | 485      | 775       |
|                  |                        |                      | 4                                  | 240                            | 125      | 200       | 1735                         | 2440         | 795      | 1270      | 1735                         | 1835         | 600      | 960       |
|                  | 54 (16)                | 50                   | 2                                  | 350                            | 180      | 290       | 1510                         | 1510         | 490      | 785       | 1140                         | 1140         | 370      | 595       |
|                  |                        |                      | 3                                  | 350                            | 180      | 290       | 1735                         | 1980         | 645      | 1030      | 1480                         | 1480         | 485      | 775       |
|                  |                        |                      | 4                                  | 350                            | 180      | 290       | 1735                         | 2440         | 795      | 1270      | 1735                         | 1835         | 600      | 960       |
|                  | 68 (14)                | 50                   | 2                                  | 390                            | 200      | 320       | 1510                         | 1510         | 490      | 785       | 1140                         | 1140         | 370      | 595       |
|                  |                        |                      | 3                                  | 390                            | 200      | 320       | 1735                         | 1980         | 645      | 1030      | 1480                         | 1480         | 485      | 775       |
|                  |                        |                      | 4                                  | 390                            | 200      | 320       | 1735                         | 2440         | 795      | 1270      | 1735                         | 1835         | 600      | 960       |
|                  | 97 (12)                | 50                   | 2                                  | 420                            | 215      | 345       | 1510                         | 1510         | 490      | 785       | 1140                         | 1140         | 370      | 595       |
|                  |                        |                      | 3                                  | 420                            | 215      | 345       | 1735                         | 1980         | 645      | 1030      | 1480                         | 1480         | 485      | 775       |
|                  |                        |                      | 4                                  | 420                            | 215      | 345       | 1735                         | 2440         | 795      | 1270      | 1735                         | 1835         | 600      | 960       |
|                  | FTC8                   | 33 (20)              | 33                                 | 3                              | 220      | 115       | 180                          | 1640         | 2435     | 810       | 1215                         | 1640         | 2115     | 685       |
| 4                |                        |                      |                                    | 220                            | 115      | 180       | 1640                         | 2435         | 810      | 1215      | 1640                         | 2435         | 810      | 1215      |
| 5                |                        |                      |                                    | 220                            | 115      | 180       | 1640                         | 2435         | 810      | 1215      | 1640                         | 2435         | 810      | 1215      |
| 43 (18)          |                        | 33                   | 3                                  | 300                            | 155      | 245       | 2720                         | 2720         | 875      | 1405      | 2115                         | 2115         | 685      | 1100      |
|                  |                        |                      | 4                                  | 300                            | 155      | 245       | 2940                         | 3420         | 1105     | 1765      | 2660                         | 2660         | 865      | 1385      |
|                  |                        |                      | 5                                  | 300                            | 155      | 245       | 2940                         | 3620         | 1205     | 1810      | 2940                         | 3195         | 1040     | 1660      |
| 54 (16)          |                        | 50                   | 3                                  | 470                            | 240      | 385       | 2720                         | 2720         | 875      | 1405      | 2115                         | 2115         | 685      | 1100      |
|                  |                        |                      | 4                                  | 470                            | 240      | 385       | 3420                         | 3420         | 1105     | 1765      | 2660                         | 2660         | 865      | 1385      |
|                  |                        |                      | 5                                  | 470                            | 240      | 385       | 3495                         | 4090         | 1320     | 2110      | 3195                         | 3195         | 1040     | 1660      |
| 68 (14)          |                        | 50                   | 3                                  | 575                            | 295      | 475       | 2720                         | 2720         | 875      | 1405      | 2115                         | 2115         | 685      | 1100      |
|                  |                        |                      | 4                                  | 575                            | 295      | 475       | 3420                         | 3420         | 1105     | 1765      | 2660                         | 2660         | 865      | 1385      |
|                  |                        |                      | 5                                  | 575                            | 295      | 475       | 4090                         | 4090         | 1320     | 2110      | 3195                         | 3195         | 1040     | 1660      |
| 97 (12)          | 50                     | 3                    | 700                                | 360                            | 575      | 2720      | 2720                         | 875          | 1405     | 2115      | 2115                         | 685          | 1100     |           |
|                  |                        | 4                    | 700                                | 360                            | 575      | 3420      | 3420                         | 1105         | 1765     | 2660      | 2660                         | 865          | 1385     |           |
|                  |                        | 5                    | 700                                | 360                            | 575      | 4090      | 4090                         | 1320         | 2110     | 3195      | 3195                         | 1040         | 1660     |           |
| FTC10            | 43 (18)                | 33                   | 3                                  | 405                            | 210      | 330       | 3080                         | 3080         | 990      | 1585      | 2450                         | 2450         | 795      | 1270      |
|                  |                        |                      | 4                                  | 405                            | 210      | 330       | 3475                         | 3620         | 1205     | 1810      | 3110                         | 3110         | 1005     | 1610      |
|                  |                        |                      | 5                                  | 405                            | 210      | 330       | 3475                         | 3620         | 1205     | 1810      | 3475                         | 3620         | 1205     | 1810      |
|                  | 54 (16)                | 50                   | 3                                  | 525                            | 270      | 430       | 3080                         | 3080         | 990      | 1585      | 2450                         | 2450         | 795      | 1270      |
|                  |                        |                      | 4                                  | 525                            | 270      | 430       | 3905                         | 3905         | 1255     | 2005      | 3110                         | 3110         | 1005     | 1610      |
|                  |                        |                      | 5                                  | 525                            | 270      | 430       | 4680                         | 4680         | 1500     | 2400      | 3745                         | 3745         | 1210     | 1935      |
|                  | 68 (14)                | 50                   | 3                                  | 675                            | 345      | 555       | 3080                         | 3080         | 990      | 1585      | 2450                         | 2450         | 795      | 1270      |
|                  |                        |                      | 4                                  | 675                            | 345      | 555       | 3905                         | 3905         | 1255     | 2005      | 3110                         | 3110         | 1005     | 1610      |
|                  |                        |                      | 5                                  | 675                            | 345      | 555       | 4680                         | 4680         | 1500     | 2400      | 3745                         | 3745         | 1210     | 1935      |
|                  | 97 (12)                | 50                   | 3                                  | 920                            | 385      | 615       | 3080                         | 3080         | 990      | 1585      | 2450                         | 2450         | 795      | 1270      |
| 4                |                        |                      | 920                                | 470                            | 755      | 3905      | 3905                         | 1255         | 2005     | 3110      | 3110                         | 1005         | 1610     |           |
| 5                |                        |                      | 920                                | 470                            | 755      | 4680      | 4680                         | 1500         | 2400     | 3745      | 3745                         | 1210         | 1935     |           |
| FTC12            | 54 (16)                | 50                   | 3                                  | 595                            | 305      | 490       | 3400                         | 3400         | 1090     | 1740      | 2760                         | 2760         | 890      | 1425      |
|                  |                        |                      | 4                                  | 595                            | 305      | 490       | 4325                         | 4325         | 1385     | 2215      | 3515                         | 3515         | 1135     | 1815      |
|                  |                        |                      | 5                                  | 595                            | 305      | 490       | 5175                         | 5175         | 1655     | 2645      | 4235                         | 4235         | 1365     | 2180      |
|                  | 68 (14)                | 50                   | 3                                  | 785                            | 385      | 615       | 3400                         | 3400         | 1090     | 1740      | 2760                         | 2760         | 890      | 1425      |
|                  |                        |                      | 4                                  | 785                            | 400      | 645       | 4325                         | 4325         | 1385     | 2215      | 3515                         | 3515         | 1135     | 1815      |
|                  |                        |                      | 5                                  | 785                            | 400      | 645       | 5175                         | 5175         | 1655     | 2645      | 4235                         | 4235         | 1365     | 2180      |
|                  | 97 (12)                | 50                   | 3                                  | 1090                           | 385      | 615       | 3400                         | 3400         | 1090     | 1740      | 2760                         | 2760         | 890      | 1425      |
|                  |                        |                      | 4                                  | 1090                           | 475      | 760       | 4325                         | 4325         | 1385     | 2215      | 3515                         | 3515         | 1135     | 1815      |
|                  |                        |                      | 5                                  | 1090                           | 550      | 880       | 5175                         | 5175         | 1655     | 2645      | 4235                         | 4235         | 1365     | 2180      |

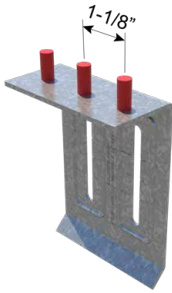


## Notes:

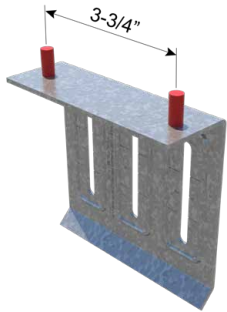
- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ESR 2269.
- Tabulated load capacities are based on the following considerations:
  - Framing Connection: ClarkDietrich Proprietary Deflection Screws (0.25" dia).
  - Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations).
  - Other fasteners may be used to achieve full clip capacity but must be designed separately.
  - Listed capacities have not been increased for wind, seismic, or other factors.
- ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.
- ClarkDietrich Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities were based on framing screws installed at the center and off-center of the slots.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR2269.
- The ClarkDietrich Proprietary Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- The Hilti X-U Pin shall have a minimum nominal shear capacity of 3939lbs and minimum nominal tension capacity of 2872lbs according to Hilti Fastening Technical Guide, Edition 2024.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installation.



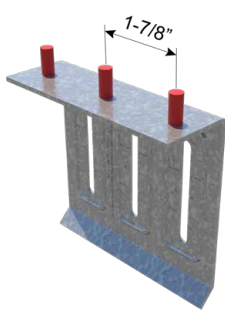
**FTC3**  
**(2) Anchor Condition**



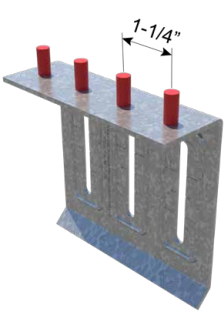
**FTC3**  
**(3) Anchor Condition**



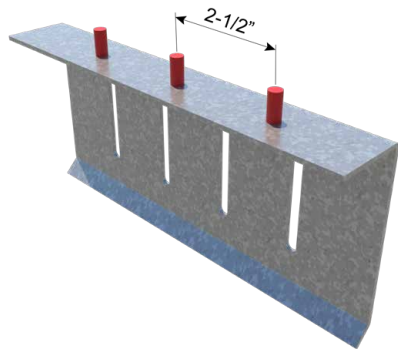
**FTC5**  
**(2) Anchor Condition**



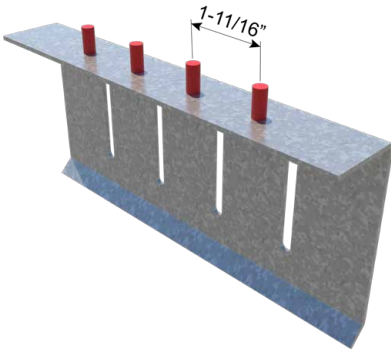
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**(3) Anchor Condition**



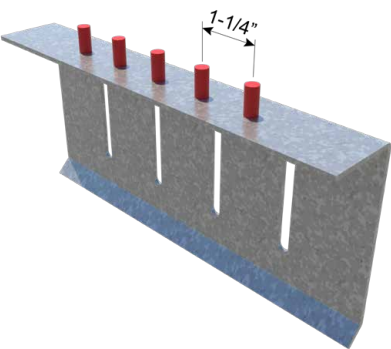
**FTC5**  
**(4) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(3) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(4) Anchor Condition**



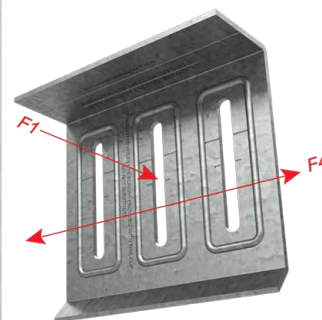
**FTC8, FTC10, FTC12**  
**(5) Anchor Condition**

## Fast Top™ Clip

## Head-of-wall connection

ATTACHMENT TO STRUCTURE: 0.157" HILTI X-U PINS TO 3/16" STEEL (FS = 10)

| Clip Designation | Framing Member Details |                      | Mechanically Anchored to Structure | Load Capacities (lbs) / Clip     |          |           |                               |              |          |           |                               |              |          |           |     |
|------------------|------------------------|----------------------|------------------------------------|----------------------------------|----------|-----------|-------------------------------|--------------|----------|-----------|-------------------------------|--------------|----------|-----------|-----|
|                  | Thickness mils (ga)    | Yield Strength (ksi) |                                    | In-Plane (F1) - Center (FS = 10) |          |           | Shear (F4) - Center (FS = 10) |              |          |           | Shear (F4) - Offset (FS = 10) |              |          |           |     |
|                  |                        |                      |                                    | Nominal Load                     | ASD Load | LRFD Load | 1/8" Service Load             | Nominal Load | ASD Load | LRFD Load | 1/8" Service Load             | Nominal Load | ASD Load | LRFD Load |     |
| FTC3             | 33 (20)                | 33                   | 2                                  | 160                              | 80       | 130       | 645                           | 1085         | 215      | 345       | 645                           | 795          | 165      | 260       |     |
|                  |                        |                      | 3                                  | 160                              | 80       | 130       | 645                           | 1215         | 280      | 445       | 645                           | 1030         | 210      | 335       |     |
|                  | 43 (18)                | 33                   | 2                                  | 220                              | 115      | 180       | 720                           | 1085         | 215      | 345       | 720                           | 795          | 165      | 260       |     |
|                  |                        |                      | 3                                  | 220                              | 115      | 180       | 720                           | 1400         | 280      | 445       | 720                           | 1030         | 210      | 335       |     |
|                  | 54 (16)                | 50                   | 2                                  | 270                              | 140      | 225       | 740                           | 1085         | 215      | 345       | 740                           | 795          | 165      | 260       |     |
|                  |                        |                      | 3                                  | 270                              | 140      | 225       | 740                           | 1400         | 280      | 445       | 740                           | 1030         | 210      | 335       |     |
|                  | 68 (14)                | 50                   | 2                                  | 290                              | 140      | 225       | 740                           | 1085         | 215      | 345       | 740                           | 795          | 165      | 260       |     |
|                  |                        |                      | 3                                  | 290                              | 150      | 235       | 740                           | 1400         | 280      | 445       | 740                           | 1030         | 210      | 335       |     |
|                  | 97 (12)                | 50                   | 2                                  | 325                              | 140      | 225       | 740                           | 1085         | 215      | 345       | 740                           | 795          | 165      | 260       |     |
|                  |                        |                      | 3                                  | 325                              | 165      | 265       | 740                           | 1400         | 280      | 445       | 740                           | 1030         | 210      | 335       |     |
| FTC5             | 33 (20)                | 33                   | 2                                  | 180                              | 90       | 150       | 1355                          | 1510         | 290      | 465       | 1140                          | 1140         | 230      | 365       |     |
|                  |                        |                      | 3                                  | 180                              | 90       | 150       | 1355                          | 1825         | 385      | 615       | 1355                          | 1480         | 300      | 475       |     |
|                  |                        |                      | 4                                  | 180                              | 90       | 150       | 1355                          | 1825         | 475      | 760       | 1355                          | 1825         | 370      | 590       |     |
|                  | 43 (18)                | 33                   | 2                                  | 240                              | 125      | 200       | 1510                          | 1510         | 290      | 465       | 1140                          | 1140         | 230      | 365       |     |
|                  |                        |                      | 3                                  | 240                              | 125      | 200       | 1735                          | 1980         | 385      | 615       | 1480                          | 1480         | 300      | 475       |     |
|                  |                        |                      | 4                                  | 240                              | 125      | 200       | 1735                          | 2440         | 475      | 760       | 1735                          | 1835         | 370      | 590       |     |
|                  | 54 (16)                | 50                   | 2                                  | 350                              | 140      | 225       | 1510                          | 1510         | 290      | 465       | 1140                          | 1140         | 230      | 365       |     |
|                  |                        |                      | 3                                  | 350                              | 180      | 290       | 1735                          | 1980         | 385      | 615       | 1480                          | 1480         | 300      | 475       |     |
|                  |                        |                      | 4                                  | 350                              | 180      | 290       | 1735                          | 2440         | 475      | 760       | 1735                          | 1835         | 370      | 590       |     |
|                  | 68 (14)                | 50                   | 2                                  | 390                              | 140      | 225       | 1510                          | 1510         | 290      | 465       | 1140                          | 1140         | 230      | 365       |     |
|                  |                        |                      | 3                                  | 390                              | 190      | 305       | 1735                          | 1980         | 385      | 615       | 1480                          | 1480         | 300      | 475       |     |
|                  |                        |                      | 4                                  | 390                              | 200      | 320       | 1735                          | 2440         | 475      | 760       | 1735                          | 1835         | 370      | 590       |     |
|                  | 97 (12)                | 50                   | 2                                  | 420                              | 140      | 225       | 1510                          | 1510         | 290      | 465       | 1140                          | 1140         | 230      | 365       |     |
|                  |                        |                      | 3                                  | 420                              | 190      | 305       | 1735                          | 1980         | 385      | 615       | 1480                          | 1480         | 300      | 475       |     |
|                  |                        |                      | 4                                  | 420                              | 215      | 345       | 1735                          | 2440         | 475      | 760       | 1735                          | 1835         | 370      | 590       |     |
|                  | FTC8                   | 33 (20)              | 33                                 | 3                                | 220      | 115       | 180                           | 1640         | 2435     | 510       | 815                           | 1640         | 2115     | 410       | 660 |
|                  |                        |                      |                                    | 4                                | 220      | 115       | 180                           | 1640         | 2435     | 640       | 1025                          | 1640         | 2435     | 520       | 830 |
|                  |                        |                      |                                    | 5                                | 220      | 115       | 180                           | 1640         | 2435     | 765       | 1215                          | 1640         | 2435     | 620       | 990 |
| 43 (18)          |                        | 33                   | 3                                  | 300                              | 155      | 245       | 2720                          | 2720         | 510      | 815       | 2115                          | 2115         | 410      | 660       |     |
|                  |                        |                      | 4                                  | 300                              | 155      | 245       | 2940                          | 3420         | 640      | 1025      | 2660                          | 2660         | 520      | 830       |     |
|                  |                        |                      | 5                                  | 300                              | 155      | 245       | 2940                          | 3620         | 765      | 1215      | 2940                          | 3195         | 620      | 990       |     |
| 54 (16)          |                        | 50                   | 3                                  | 470                              | 190      | 305       | 2720                          | 2720         | 510      | 815       | 2115                          | 2115         | 410      | 660       |     |
|                  |                        |                      | 4                                  | 470                              | 235      | 380       | 3420                          | 3420         | 640      | 1025      | 2660                          | 2660         | 520      | 830       |     |
|                  |                        |                      | 5                                  | 470                              | 240      | 385       | 3495                          | 4090         | 765      | 1215      | 3195                          | 3195         | 620      | 990       |     |
| 68 (14)          |                        | 50                   | 3                                  | 575                              | 190      | 305       | 2720                          | 2720         | 510      | 815       | 2115                          | 2115         | 410      | 660       |     |
|                  |                        |                      | 4                                  | 575                              | 235      | 380       | 3420                          | 3420         | 640      | 1025      | 2660                          | 2660         | 520      | 830       |     |
|                  |                        |                      | 5                                  | 575                              | 275      | 440       | 4090                          | 4090         | 765      | 1215      | 3195                          | 3195         | 620      | 990       |     |
| 97 (12)          |                        | 50                   | 3                                  | 700                              | 190      | 305       | 2720                          | 2720         | 510      | 815       | 2115                          | 2115         | 410      | 660       |     |
|                  |                        |                      | 4                                  | 700                              | 235      | 380       | 3420                          | 3420         | 640      | 1025      | 2660                          | 2660         | 520      | 830       |     |
|                  |                        |                      | 5                                  | 700                              | 275      | 440       | 4090                          | 4090         | 765      | 1215      | 3195                          | 3195         | 620      | 990       |     |
| FTC10            | 43 (18)                | 33                   | 3                                  | 405                              | 190      | 305       | 3080                          | 3080         | 565      | 905       | 2450                          | 2450         | 465      | 750       |     |
|                  |                        |                      | 4                                  | 405                              | 210      | 330       | 3475                          | 3620         | 715      | 1145      | 3110                          | 3110         | 590      | 945       |     |
|                  |                        |                      | 5                                  | 405                              | 210      | 330       | 3475                          | 3620         | 855      | 1365      | 3475                          | 3620         | 710      | 1135      |     |
|                  | 54 (16)                | 50                   | 3                                  | 525                              | 190      | 305       | 3080                          | 3080         | 565      | 905       | 2450                          | 2450         | 465      | 750       |     |
|                  |                        |                      | 4                                  | 525                              | 235      | 380       | 3905                          | 3905         | 715      | 1145      | 3110                          | 3110         | 590      | 945       |     |
|                  |                        |                      | 5                                  | 525                              | 270      | 430       | 4680                          | 4680         | 855      | 1365      | 3745                          | 3745         | 710      | 1135      |     |
|                  | 68 (14)                | 50                   | 3                                  | 675                              | 190      | 305       | 3080                          | 3080         | 565      | 905       | 2450                          | 2450         | 465      | 750       |     |
|                  |                        |                      | 4                                  | 675                              | 235      | 380       | 3905                          | 3905         | 715      | 1145      | 3110                          | 3110         | 590      | 945       |     |
|                  |                        |                      | 5                                  | 675                              | 275      | 440       | 4680                          | 4680         | 855      | 1365      | 3745                          | 3745         | 710      | 1135      |     |
| 97 (12)          | 50                     | 3                    | 920                                | 190                              | 305      | 3080      | 3080                          | 565          | 905      | 2450      | 2450                          | 465          | 750      |           |     |
|                  |                        | 4                    | 920                                | 235                              | 380      | 3905      | 3905                          | 715          | 1145     | 3110      | 3110                          | 590          | 945      |           |     |
|                  |                        | 5                    | 920                                | 275                              | 440      | 4680      | 4680                          | 855          | 1365     | 3745      | 3745                          | 710          | 1135     |           |     |
| FTC12            | 54 (16)                | 50                   | 3                                  | 595                              | 190      | 305       | 3400                          | 3400         | 615      | 980       | 2760                          | 2760         | 515      | 825       |     |
|                  |                        |                      | 4                                  | 595                              | 235      | 380       | 4325                          | 4325         | 780      | 1245      | 3515                          | 3515         | 655      | 1050      |     |
|                  |                        |                      | 5                                  | 595                              | 275      | 440       | 5175                          | 5175         | 925      | 1485      | 4235                          | 4235         | 785      | 1260      |     |
|                  | 68 (14)                | 50                   | 3                                  | 785                              | 190      | 305       | 3400                          | 3400         | 615      | 980       | 2760                          | 2760         | 515      | 825       |     |
|                  |                        |                      | 4                                  | 785                              | 235      | 380       | 4325                          | 4325         | 780      | 1245      | 3515                          | 3515         | 655      | 1050      |     |
|                  |                        |                      | 5                                  | 785                              | 275      | 440       | 5175                          | 5175         | 925      | 1485      | 4235                          | 4235         | 785      | 1260      |     |
|                  | 97 (12)                | 50                   | 3                                  | 1090                             | 190      | 305       | 3400                          | 3400         | 615      | 980       | 2760                          | 2760         | 515      | 825       |     |
|                  |                        |                      | 4                                  | 1090                             | 235      | 380       | 4325                          | 4325         | 780      | 1245      | 3515                          | 3515         | 655      | 1050      |     |
|                  |                        |                      | 5                                  | 1090                             | 275      | 440       | 5175                          | 5175         | 925      | 1485      | 4235                          | 4235         | 785      | 1260      |     |



## Notes:

1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ESR 2269.

2 Tabulated load capacities are based on the following considerations:

a Framing Connection: ClarkDietrich Deflection Screws (0.25" dia)

b Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations).

c Other fasteners may be used to achieve full clip capacity but must be designed separately.

d Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 ClarkDietrich Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities were based on framing screws installed at the center and off-center of the slots.

5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR2269.

6 The ClarkDietrich Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

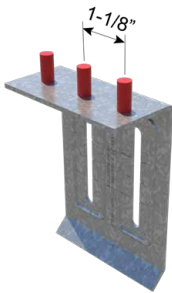
7 The Hilti X-U Pin shall have a minimum nominal shear capacity of 3939lbs and minimum nominal tension capacity of 2872lbs according to Hilti Fastening Technical Guide, Edition 2024.

8 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

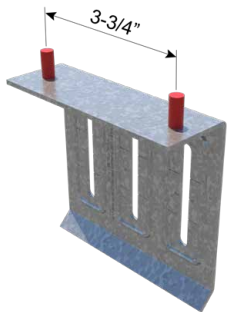
9 It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installation.



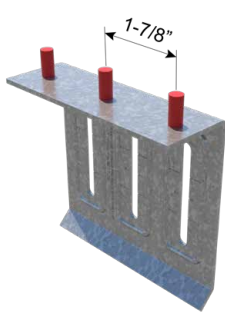
FTC3  
(2) Anchor Condition



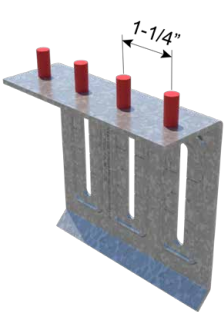
FTC3  
(3) Anchor Condition



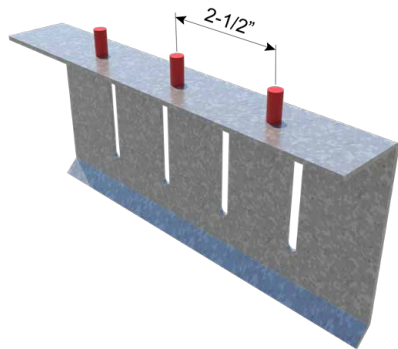
FTC5  
(2) Anchor Condition



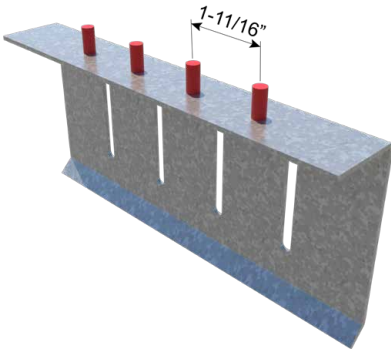
FTC5  
(3) Anchor Condition



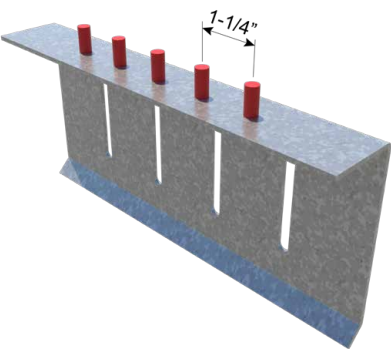
FTC5  
(4) Anchor Condition



FTC8, FTC10, FTC12  
(3) Anchor Condition



FTC8, FTC10, FTC12  
(4) Anchor Condition



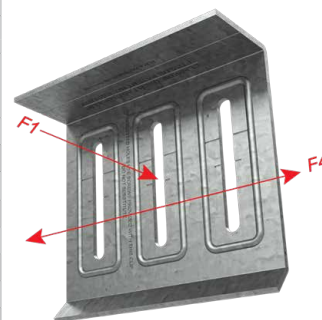
FTC8, FTC10, FTC12  
(5) Anchor Condition

## Fast Top™ Clip

## Head-of-wall connection

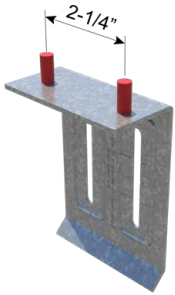
## ATTACHMENT TO STRUCTURE: 1/4" HILTI KH-EZ IN 3000PSI CRACKED CONCRETE

| Clip Designation | Framing Member Details |                      | Mechanically Anchored to Structure | Load Capacities (lbs) / Clip |          |           |                     |              |          |           |                     |              |          |           |
|------------------|------------------------|----------------------|------------------------------------|------------------------------|----------|-----------|---------------------|--------------|----------|-----------|---------------------|--------------|----------|-----------|
|                  | Thickness mils (ga)    | Yield Strength (ksi) |                                    | In-Plane (F1) -Center        |          |           | Shear (F4) - Center |              |          |           | Shear (F4) - Offset |              |          |           |
|                  |                        |                      |                                    | Nominal Load                 | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load | 1/8" Service Load   | Nominal Load | ASD Load | LRFD Load |
| FTC3             | 33 (20)                | 33                   | 2                                  | 160                          | 80       | 130       | 645                 | 930          | 390      | 610       | 645                 | 755          | 315      | 530       |
|                  | 43 (18)                | 33                   | 2                                  | 220                          | 115      | 180       | 720                 | 930          | 390      | 650       | 720                 | 755          | 315      | 530       |
|                  | 54 (16)                | 50                   | 2                                  | 270                          | 140      | 225       | 740                 | 930          | 390      | 650       | 740                 | 755          | 315      | 530       |
|                  | 68 (14)                | 50                   | 2                                  | 290                          | 150      | 235       | 740                 | 930          | 390      | 650       | 740                 | 755          | 315      | 530       |
|                  | 97 (12)                | 50                   | 2                                  | 325                          | 165      | 265       | 740                 | 930          | 390      | 650       | 740                 | 755          | 315      | 530       |
| FTC5             | 33 (20)                | 33                   | 2                                  | 180                          | 90       | 150       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 180                          | 90       | 150       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 43 (18)                | 33                   | 2                                  | 240                          | 125      | 200       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 240                          | 125      | 200       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 54 (16)                | 50                   | 2                                  | 350                          | 180      | 290       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 350                          | 180      | 290       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 68 (14)                | 50                   | 2                                  | 390                          | 200      | 320       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 390                          | 200      | 320       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 97 (12)                | 50                   | 2                                  | 420                          | 215      | 345       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 420                          | 215      | 345       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
| FTC8             | 33 (20)                | 33                   | 2                                  | 220                          | 115      | 180       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 220                          | 115      | 180       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 43 (18)                | 33                   | 2                                  | 300                          | 155      | 245       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 300                          | 155      | 245       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 54 (16)                | 50                   | 2                                  | 470                          | 240      | 385       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 470                          | 240      | 385       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 68 (14)                | 50                   | 2                                  | 575                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 575                          | 295      | 475       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 97 (12)                | 50                   | 2                                  | 680                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 700                          | 360      | 575       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
| FTC10            | 43 (18)                | 33                   | 2                                  | 405                          | 210      | 330       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 405                          | 210      | 330       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 54 (16)                | 50                   | 2                                  | 525                          | 270      | 430       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 525                          | 270      | 430       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 68 (14)                | 50                   | 2                                  | 675                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 675                          | 345      | 555       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 97 (12)                | 50                   | 2                                  | 680                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 920                          | 420      | 700       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
| FTC12            | 54 (16)                | 50                   | 2                                  | 595                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 595                          | 305      | 490       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 68 (14)                | 50                   | 2                                  | 680                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 785                          | 400      | 645       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |
|                  | 97 (12)                | 50                   | 2                                  | 680                          | 285      | 475       | 930                 | 930          | 390      | 650       | 755                 | 755          | 315      | 530       |
|                  |                        |                      | 3                                  | 1000                         | 420      | 700       | 1210                | 1210         | 510      | 850       | 1135                | 1135         | 475      | 795       |

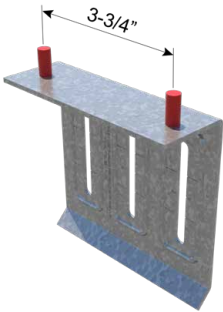


## Notes:

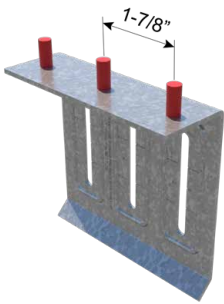
- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ACI 318-19.
- Tabulated load capacities are based on the following considerations:
  - Framing Connection: ClarkDietrich Deflection Screws (0.25" dia).
  - Connection to Structure: 1/4" Hilti KH-EZ Anchors to 3000psi Cracked Concrete (see illustrations for base fastener locations).
  - Minimum concrete thickness shall be 4-1/8", edge distance shall be 2.75".
  - Embedment to Concrete: Nominal embedment depth = 2-1/2" for 1/4" KH-EZ anchors.
  - Other fasteners may be used to achieve full clip capacity but must be designed separately.
- ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service loads and ASD/LRFD loads.
- ClarkDietrich Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities were based on framing screws installed at the center and off-center of the slots.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR3027.
- The ClarkDietrich Proprietary Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- The Hilti 1/4" Φ KH-EZ Anchors shall have a LRFD shear capacity of 1735lbs and LRFD tension capacity of 830lbs according to ESR 3027 and ACI 318-19.
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Top Clip installation.



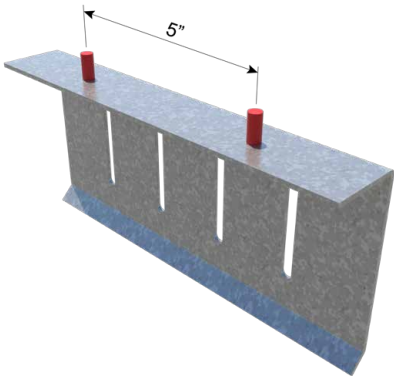
**FTC3**  
**(2) Anchor Condition**



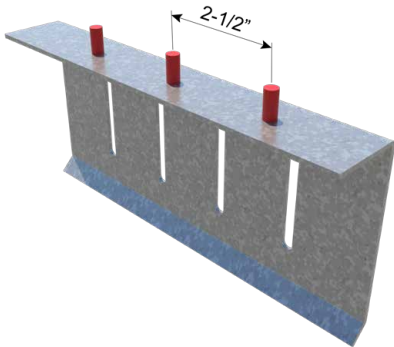
**FTC5**  
**(2) Anchor Condition**



**FTC5**  
**(3) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(2) Anchor Condition**



**FTC8, FTC10, FTC12**  
**(3) Anchor Condition**