

Extended Uni-Clip™ w/Anchor Holes

Connects exterior studs to the primary structure of the building, while resisting horizontal and vertical loads.

ClarkDietrich's UXRC6-HD 68mils (14ga) rigid framing clip is used to attach exterior wall studs to the structure of the building. This clip is designed to resist horizontal and vertical loads. (1) 5/8" hole in the short leg of the clip allows for a 1/2" concrete anchor to be attached to the slab. (2) 3/8" holes allow 1/4" anchors.

MATERIAL SPECIFICATIONS

- Gauge: 14 gauge (68mils)
- Design Thickness: 0.0713 inches
- Coating: G90
- Yield Strength: 50 ksi
- ASTM: A653/A653M

PRODUCT DIMENSIONS

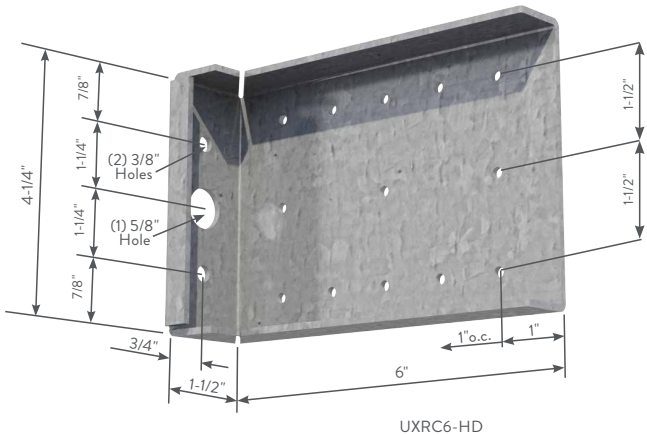
6" Extended Uni-Clip: 1-1/2" x 4-1/4" x 6"

INSTALLATION

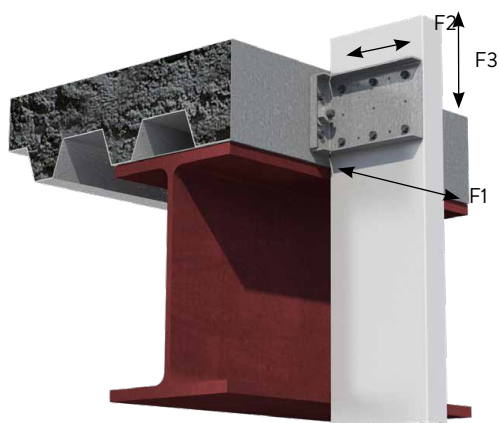
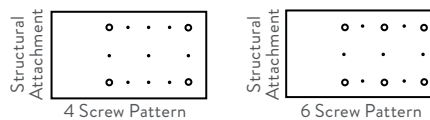
Attach the Extended Uni-Clip rigid clips to cold-formed steel framing members using #12 minimum self-drilling screws driven through the clip holes into the steel framing. Follow the required fastener placement patterns to achieve the allowable load. Attachment to the structure concrete slab can be made with (1) 1/2" or (2) 1/4" bolt anchors. Anchor connection design and edge distance requirements must be approved by a design professional before installation.

CODE APPROVALS & PERFORMANCE STANDARDS

IAPMO ER-731



| Extended Uni-Clip™ (UXRC6-HD) |           |                       |                   |                        |
|-------------------------------|-----------|-----------------------|-------------------|------------------------|
| Clip Designation              | Thickness |                       | Size (in)         | Packaging Pcs./ Bucket |
|                               | mils (ga) | Design Thickness (in) |                   |                        |
| UXRC6-HD                      | 68 (14)   | 0.0713                | 1-1/2 x 4-1/4 x 6 | 25                     |



UXRC6-HD Screw Pattern

## Extended Uni-Clip™ (UXRC6-HD) Allowable Loads

## ANCHOR DESIGN BY OTHERS

| Clip Designation          | Stud Thickness<br>mils (ga) | Stud<br>f <sub>y</sub><br>(ksi) | Mechanically Anchored<br>to Structure | ASD Allowable Loads (lb.) |            |            |            |            |            |
|---------------------------|-----------------------------|---------------------------------|---------------------------------------|---------------------------|------------|------------|------------|------------|------------|
|                           |                             |                                 |                                       | F1 Load                   |            | F2 Load    |            | F3 Load    |            |
|                           |                             |                                 |                                       | w/4 #12-14                | w/6 #12-14 | w/4 #12-14 | w/6 #12-14 | w/4 #12-14 | w/6 #12-14 |
| UXRC6-HD<br>14ga (68mils) | 33 (20)                     | 33                              | Anchors to be<br>designed by others   | 165                       | 165        | 754        | 1131       | 361        | 471        |
|                           | 43 (18)                     | 33                              |                                       | 232                       | 232        | 1122       | 1428*      | 537        | 701        |
|                           | 54 (16)                     | 50                              |                                       | 405                       | 405        | 1428*      | 1428*      | 1091       | 1423       |
|                           | 68 (14)                     | 50                              |                                       | 527                       | 527        | 1568*      | 1568*      | 1488       | 1600       |
|                           | 97 (12)                     | 50                              |                                       | 809                       | 809        | 1667*      | 1667*      | 1488       | 1908       |

\* Capacities governed by 1/8" service load criteria.

## Extended Uni-Clip™ (UXRC6-HD) Allowable Loads

## CONSIDERING ANCHOR CAPACITIES

| Clip Designation          | Stud Thickness<br>mils (ga) | Stud<br>f <sub>y</sub><br>(ksi) | Mechanically Anchored to<br>Structure                                     | ASD Allowable Loads (lb.) |            |            |            |            |            |
|---------------------------|-----------------------------|---------------------------------|---------------------------------------------------------------------------|---------------------------|------------|------------|------------|------------|------------|
|                           |                             |                                 |                                                                           | F1 Load                   |            | F2 Load    |            | F3 Load    |            |
|                           |                             |                                 |                                                                           | w/4 #12-14                | w/6 #12-14 | w/4 #12-14 | w/6 #12-14 | w/4 #12-14 | w/6 #12-14 |
| UXRC6-HD<br>14ga (68mils) | 33 (20)                     | 33                              | (1) 1/2" Hilti KWIK Bolt TZ <sup>1</sup><br>(3000 psi uncracked concrete) | 165                       | 165        | 754        | 1131       | 351        | 471        |
|                           | 43 (18)                     | 33                              |                                                                           | 232                       | 232        | 1122       | 1199       | 502        | 682        |
|                           | 54 (16)                     | 50                              |                                                                           | 405                       | 405        | 1199       | 1199       | 983        | 1280       |
|                           | 68 (14)                     | 50                              |                                                                           | 527                       | 527        | 1339       | 1339       | 1336       | 1413       |
|                           | 97 (12)                     | 50                              |                                                                           | 809                       | 809        | 1339       | 1339       | 1488       | 1628       |
|                           | 33 (20)                     | 33                              | (2) 1/4" Hilti KWIK HUS-EZ <sup>1</sup><br>(3000 psi uncracked concrete)  | 141                       | 141        | 754        | 1131       | 361        | 471        |
|                           | 43 (18)                     | 33                              |                                                                           | 207                       | 207        | 1122       | 1403       | 537        | 701        |
|                           | 54 (16)                     | 50                              |                                                                           | 397                       | 397        | 1403       | 1403       | 1091       | 1423       |
|                           | 68 (14)                     | 50                              |                                                                           | 484                       | 484        | 1403       | 1403       | 1488       | 1600       |
|                           | 97 (12)                     | 50                              |                                                                           | 803                       | 803        | 1403       | 1403       | 1488       | 1838       |

## Notes:

- Table-1 contains the allowable load capacity of the clip and the screw connection to the CFS stud. When the mechanical anchors between the clip and the support structure are designed by others, pull-over shall be included in the evaluation of F2 loads, and bearing shall be included in the evaluation of F3 loads.
- Table-2 considers capacities listed in Notes 3 and 4 (below) when the specified connectors to the structure are used.
- When using 1/2" Hilti KWIK Bolt TZ anchor (nominal embedment depth of 2-3/8") into 3000psi concrete, anchor capacity shall be limited to:
  - Tension capacity/anchor: 1509-lbs (uncracked concrete) and 1069-lbs (cracked concrete)
  - Shear capacity/anchor: 1628-lbs (uncracked concrete) and 1153-lbs (cracked concrete)
- When using 1/4" Hilti KWIK HUS-EZ anchor (nominal embedment depth of 2-1/2") into 3000psi concrete, anchor capacity shall be limited to:
  - Tension capacity/anchor: 752-lbs (uncracked concrete) and 374-lbs (cracked concrete)
  - Shear capacity/anchor: 919-lbs (uncracked concrete) and 651-lbs (cracked concrete)
- Connector capacities listed in Note 4 utilize load adjustment/reduction (anchor spacing) factors of 0.72 for tension and 0.60 for shear as per 2016 Hilti Anchor Fastening Technical Guide (see Hilti Table 6 and 7 under section 3.3.6.3).
- Where anchors are loaded simultaneously in tension and shear, interaction must be considered following anchor manufacturer guidelines.
- Capacities listed in the table/notes did not consider load adjustment for edge distance of anchors. For no reduction in the listed capacities, the following requirements needed to be met for the concrete surface where the clip attaches:
  - When using 1/2" Hilti KWIK Bolt TZ anchor embedded 2-3/8" deep into 3000psi concrete, minimum edge distance shall be:
    - 5-1/2" for uncracked concrete;
    - 4-1/8" for cracked concrete
  - When using 1/4" Hilti KWIK HUS-EZ anchors embedded 2-1/2" deep into 3000psi concrete, minimum edge distance shall be:
    - 4-1/2" for uncracked concrete
    - 4-1/2" for cracked concrete
- Other anchors may be used to achieve the full clip capacity but must be designed separately.
- Allowable loads have not been increased for wind, seismic, or other factors.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the designer to properly detail connections on the contract drawings.