

Universal Bypass Clip

Provides either a rigid connection or vertical building movement up to 3"

Universal Bypass Clips are used to attach exterior curtain wall studs to the building structure and provide either a rigid connection or deflecting connection for vertical building movement independent of the cold-formed steel framing.

The clips are available in standard lengths of 6", 8", 10" and 12" and are ideal for medium to larger standoff conditions. Universal Bypass Clips install quickly with screws, welds or powder-actuated fasteners, and provide adjustable standoff to ensure a plumb wall plane. For deflection application, proprietary deflection screws are provided with each clip to ensure friction-free sliding.

- Eliminates shims and scabs.
- Provides vertical movement up to 3" (1-1/2" up and 1-1/2" down) when installed as a deflection application.
- Specially designed to simplify welding installation.
- Fast, one-piece universal installation.
No left or right handed clips.
- Proprietary Deflection Screws provide frictionless slip connections. One bag (80 screws) included.

MATERIAL SPECIFICATIONS

Gauge: 14 gauge (68mils)

Design Thickness: 0.0713 inches

Gauge: 12 gauge (97mils)

Design Thickness: 0.1017 inches

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

Coating: G90 (Z275) hot-dipped galvanized coating

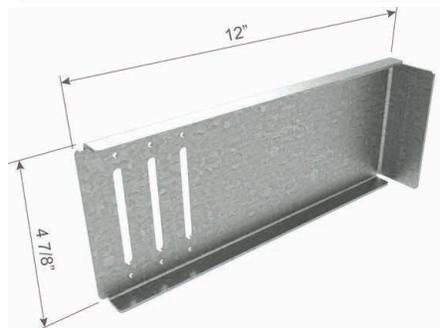
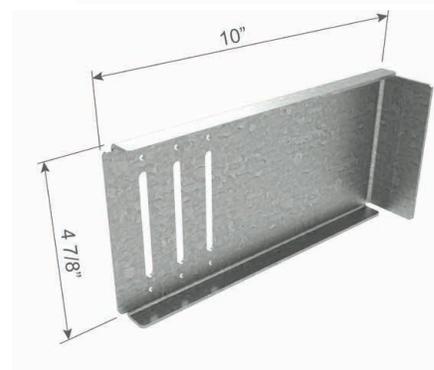
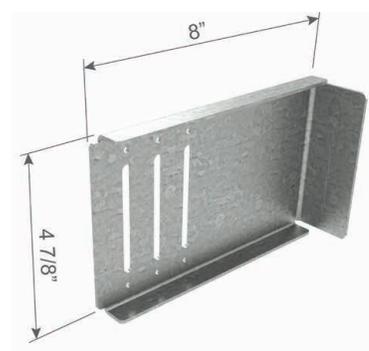
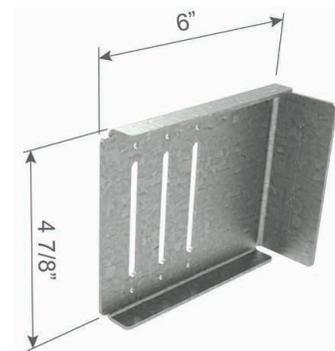
ASTM: A653, A1003

ALTERNATIVE PRODUCTS

FastClip™ Slide Clip

Extended FastClip™ Slide Clip

Extended Uni-Clip™



Universal Bypass Clip (UBC)

Product code	Mils (Gauge)	Design thickness (in)	Size (in)	Pcs/Bucket
UBC6-68	68mils (14ga)	0.0713	1-7/8 x 6 x 4-7/8	25
UBC8-68	68mils (14ga)	0.0713	1-7/8 x 8 x 4-7/8	25
UBC10-68	68mils (14ga)	0.0713	1-7/8 x 10 x 4-7/8	25
UBC12-68	68mils (14ga)	0.0713	1-7/8 x 12 x 4-7/8	25
UBC6-97	97mils (12ga)	0.1017	1-7/8 x 6 x 4-7/8	25
UBC8-97	97mils (12ga)	0.1017	1-7/8 x 8 x 4-7/8	25
UBC10-97	97mils (12ga)	0.1017	1-7/8 x 10 x 4-7/8	25
UBC12-97	97mils (12ga)	0.1017	1-7/8 x 12 x 4-7/8	25

INSTALLATION

Connections to the building can be made with screws, welds powder-actuated fasteners. Mechanical fasteners shall be located on the embossed marks given on the scored line of the 1-7/8" flange. Attach building anchors to the structure according to the manufacture's instructions. Anchors shall be installed through the embossments on the scored line of the clip as shown on the attached drawings. In no case shall anchors be installed more than 3/4" from the bend on the short leg of the clip. In cases of discrepancy between this information and the Design Engineer's details, the Design Engineer's details shall be followed.

For a Rigid Connection:

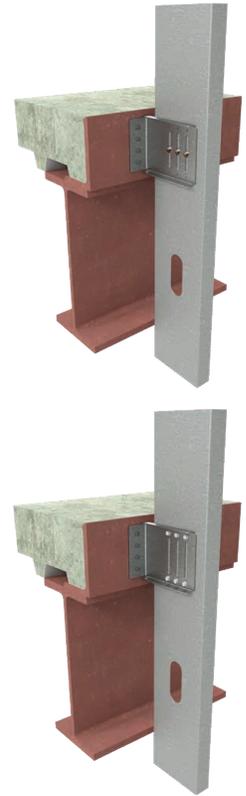
Attach the Universal Bypass Clip to cold-formed steel framing members using (6) #10-16 minimum self-drilling screws (not included) for the 14ga clip and (6) #12-14 minimum self-drilling screws (not included) for the 12ga clip, through the clip holes into the steel framing.

For a Deflection Connection:

Attach the Universal Bypass Clip to the cold-formed steel framing using (3) #14 Proprietary Deflection Screws (included) through the (3) slotted holes and positioned to allow for the appropriate building deflection.

Proprietary Deflection Screws:

Many of the ClarkDietrich deflection clips include our proprietary deflection fastener that has been specifically designed to provide friction-free deflection. These fasteners eliminate drag, binding or resistance that can often occur with common fasteners.

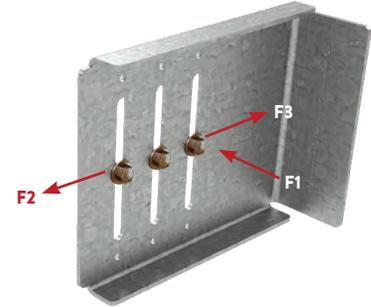


Universal Bypass Clip

UBC - 14ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: **DESIGNED BY OTHERS**

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	255	1280	1430
	68mils (14ga) 50ksi	255	1280	1430
	97mils (12ga) 50ksi	255	1280	1430
UBC8-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	190	1235	1340
	68mils (14ga) 50ksi	190	1235	1340
	97mils (12ga) 50ksi	190	1235	1340
UBC10-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	150	1185	1325
	68mils (14ga) 50ksi	150	1185	1325
	97mils (12ga) 50ksi	150	1185	1325
UBC12-68 68mils (14ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1190	1300
	68mils (14ga) 50ksi	90	1190	1300
	97mils (12ga) 50ksi	90	1190	1300



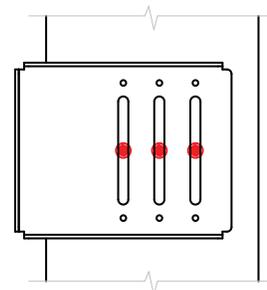
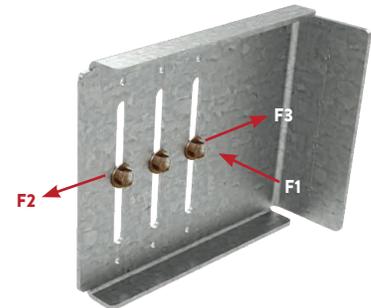
Notes:

- 1 Allowable loads (ASD) listed represent the capacity of the clip to the stud only (framing connection).
- 2 Allowable Loads have not been increased for the wind, seismic, or other factors.
- 3 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
- 4 For Deflection connection, one #14 shouldered screw (Deflection Screw) shall be installed per slot, placed at the center. #14 Deflection Screws are provided with each Universal Bypass Clip.
- 5 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 6 It is the responsibility of the design professional to design the attachment of the clips to the structure and verify that their capacity meets the requirements of the intended application.
- 7 Nominal or LRFD loads are available upon request.

UBC - 14ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: **WELDED**

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	255	1275	1430
	68mils (14ga) 50ksi	255	1275	1430
	97mils (12ga) 50ksi	255	1275	1430
UBC8-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	190	1275	1340
	68mils (14ga) 50ksi	190	1275	1340
	97mils (12ga) 50ksi	190	1275	1340
UBC10-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	150	1275	1325
	68mils (14ga) 50ksi	150	1275	1325
	97mils (12ga) 50ksi	150	1275	1325
UBC12-68 68mils (14ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1275	1300
	68mils (14ga) 50ksi	90	1275	1300
	97mils (12ga) 50ksi	90	1275	1300



(3) #14 Deflection Screw Pattern
Shown in a UBC6 Clip

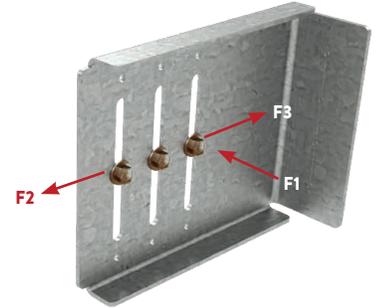
Notes:

- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
- 2 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each Universal Bypass Clip.
- 3 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 4 The Allowable loads listed for welds are based on the following weld lengths:
 - (2) Welds - 1" along back of short leg clip bend (each weld equally distanced from center of clip)
- 5 Use E70XX (min.) electrodes.
- 6 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
- 7 Nominal or LRFD loads are available upon request.

UBC - 14ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: (4) #12-24 FASTENERS

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	255	1280	1430
	68mils (14ga) 50ksi	255	1280	1430
	97mils (12ga) 50ksi	255	1280	1430
UBC8-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	190	1235	1340
	68mils (14ga) 50ksi	190	1235	1340
	97mils (12ga) 50ksi	190	1235	1340
UBC10-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	150	1185	1325
	68mils (14ga) 50ksi	150	1185	1325
	97mils (12ga) 50ksi	150	1185	1325
UBC12-68 68mils (14ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1190	1300
	68mils (14ga) 50ksi	90	1190	1300
	97mils (12ga) 50ksi	90	1190	1300



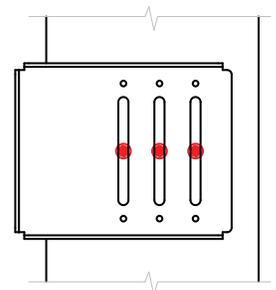
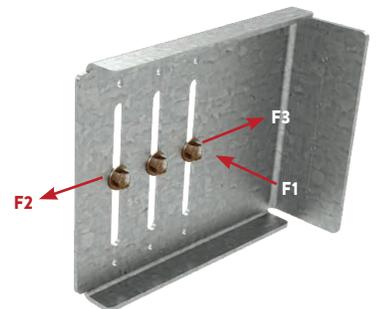
Notes:

- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
- 2 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
- 3 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each UBC.
- 4 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 5 #12-24 Fasteners shall be used for attachment to 3/16" steel structure. (4) Fastener configuration shall be used. Screws should be placed at indentations scribed on the short leg of the UBC clip.
- 6 The minimum edge distance for each fastener type shall comply with the fastener manufacturer's recommendation.
- 7 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
- 8 Nominal or LRFD loads are available upon request.

UBC - 14ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: (4) 0.157" PAFs

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	255	1280	1430
	68mils (14ga) 50ksi	255	1280	1430
	97mils (12ga) 50ksi	255	1280	1430
UBC8-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	190	1235	1340
	68mils (14ga) 50ksi	190	1235	1340
	97mils (12ga) 50ksi	190	1235	1340
UBC10-68 68mils (14ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	150	1185	1325
	68mils (14ga) 50ksi	150	1185	1325
	97mils (12ga) 50ksi	150	1185	1325
UBC12-68 68mils (14ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1190	1300
	68mils (14ga) 50ksi	90	1190	1300
	97mils (12ga) 50ksi	90	1190	1300



**(3) #14 Deflection Screw Pattern
Shown in a UBC6 Clip**

Notes:

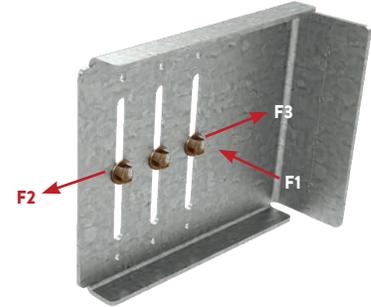
- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
- 2 Capacities considered for Hilti PAFs are based on fastener strengths listed in ICC ESR-2269.
- 3 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
- 4 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 5 Nominal or LRFD loads are available upon request.
- 6 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
- 7 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each UBC.
- 8 0.157" Hilti X-U PAFs shall be used for attachment to 3/16" steel structure. (4) Fastener configuration shall be used. PAFs should be placed at indentations scribed on the short leg of the UBC clip.

Universal Bypass Clip

UBC - 12ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: **DESIGNED BY OTHERS**

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	260	1535	1680
	68mils (14ga) 50ksi	280	1535	1680
	97mils (12ga) 50ksi	280	1535	1680
UBC8-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	225	1525	1685
	68mils (14ga) 50ksi	225	1525	1685
	97mils (12ga) 50ksi	225	1525	1685
UBC10-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	185	1490	1630
	68mils (14ga) 50ksi	185	1490	1630
	97mils (12ga) 50ksi	185	1490	1630
UBC12-97 97mils (12ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1490	1630
	68mils (14ga) 50ksi	90	1490	1630
	97mils (12ga) 50ksi	90	1490	1630

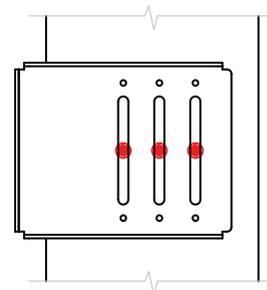
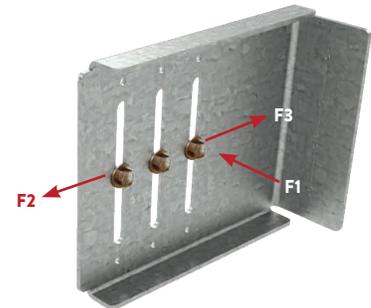


- Notes:**
- 1 Allowable loads (ASD) listed represent the capacity of the clip to the stud only. (Framing connection).
 - 2 Allowable Loads have not been increased for the wind, seismic, or other factors.
 - 3 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
 - 4 For Deflection connection, one #14 shouldered screw (Deflection Screw) shall be installed per slot, placed at the center. #14 Deflection Screws are provided with each Universal Bypass Clip.
 - 5 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
 - 6 It is the responsibility of the design professional to design the attachment of the clips to the structure and verify that their capacity meets the requirements of the intended application.
 - 7 Nominal or LRFD loads are available upon request.

UBC - 12ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: **WELDED**

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	260	1535	1680
	68mils (14ga) 50ksi	280	1535	1680
	97mils (12ga) 50ksi	280	1535	1680
UBC8-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	225	1535	1685
	68mils (14ga) 50ksi	225	1535	1685
	97mils (12ga) 50ksi	225	1535	1685
UBC10-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	185	1535	1630
	68mils (14ga) 50ksi	185	1535	1630
	97mils (12ga) 50ksi	185	1535	1630
UBC12-97 97mils (12ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1535	1630
	68mils (14ga) 50ksi	90	1535	1630
	97mils (12ga) 50ksi	90	1535	1630



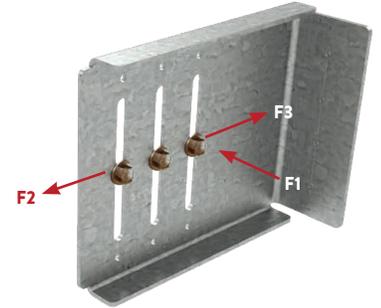
(3) #14 Deflection Screw Pattern
Shown in a UBC6 Clip

- Notes:**
- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
 - 2 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each Universal Bypass Clip.
 - 3 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
 - 4 The Allowable loads listed for welds are based on the following weld lengths:
 - (2) Welds - 1" along back of short leg clip bend (each weld equally distanced from center of clip)
 - 5 Use E70XX (min.) electrodes.
 - 6 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
 - 7 Nominal or LRFD loads are available upon request.

UBC - 12ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: (4) #12-24 FASTENERS

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	260	1535	1680
	68mils (14ga) 50ksi	280	1535	1680
	97mils (12ga) 50ksi	280	1535	1680
UBC8-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	225	1525	1685
	68mils (14ga) 50ksi	225	1525	1685
	97mils (12ga) 50ksi	225	1525	1685
UBC10-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	185	1490	1630
	68mils (14ga) 50ksi	185	1490	1630
	97mils (12ga) 50ksi	185	1490	1630
UBC12-97 97mils (12ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1490	1630
	68mils (14ga) 50ksi	90	1490	1630
	97mils (12ga) 50ksi	90	1490	1630



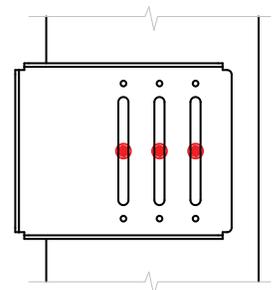
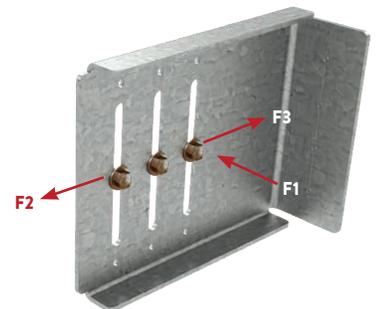
Notes:

- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
- 2 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
- 3 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each UBC.
- 4 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 5 #12-24 Fasteners shall be used for attachment to 3/16" steel structure. (4) Fastener configuration shall be used. Screws should be placed at indentations scribed on the short leg of the UBC clip.
- 6 The minimum edge distance for each fastener type shall comply with the fastener manufacturer's recommendation.
- 7 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
- 8 Nominal or LRFD loads are available upon request.

UBC - 12ga (As a Deflection Connection)

ATTACHMENT TO STRUCTURAL: (4) 0.157" PAFs

Product Code	Stud Thickness / Yield Strength	ASD Allowable Loads (lbs)		
		F1 (In-Plane) w/ (3) #14	F2 (Tension) w/ (3) #14	F3 (Compression) w/ (3) #14
UBC6-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	260	1535	1680
	68mils (14ga) 50ksi	280	1535	1680
	97mils (12ga) 50ksi	280	1535	1680
UBC8-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	225	1525	1685
	68mils (14ga) 50ksi	225	1525	1685
	97mils (12ga) 50ksi	225	1525	1685
UBC10-97 97mils (12ga)	33mils (20ga) 33ksi	110	605	605
	43mils (18ga) 33ksi	140	905	905
	54mils (16ga) 50ksi	185	1490	1630
	68mils (14ga) 50ksi	185	1490	1630
	97mils (12ga) 50ksi	185	1490	1630
UBC12-97 97mils (12ga)	33mils (20ga) 33ksi	90	605	605
	43mils (18ga) 33ksi	90	905	905
	54mils (16ga) 50ksi	90	1490	1630
	68mils (14ga) 50ksi	90	1490	1630
	97mils (12ga) 50ksi	90	1490	1630



**(3) #14 Deflection Screw Pattern
Shown in a UBC6 Clip**

Notes:

- 1 Allowable Loads (ASD) have not been increased for the wind, seismic, or other factors.
- 2 Capacities considered for Hilti PAFs are based on fastener strengths listed in ICC ESR-2269.
- 3 It is the responsibility of the design professional to verify that the connection design meets the requirements of the intended application.
- 4 Listed capacities are based on the maximum screw pattern. For maximum screw pattern, fill #14 Deflection screws in each slot for a Deflection Clip.
- 5 Nominal or LRFD loads are available upon request.
- 6 An 1/8-in service deflection load limit was applied to clips resisting F2 and F3 loads. In accordance with ICC AC 261, service deflection limit was not applied to clips resisting F1 loads.
- 7 For Deflection clip, one #14 shouldered screw (UBC Deflection Screw) shall be installed per slot, placed at the center. Clip gauge-specific #14 UBC Deflection Screws are provided with each UBC.
- 8 0.157" Hilti X-U PAFs shall be used for attachment to 3/16" steel structure. (4) Fastener configuration shall be used. PAFs should be placed at indentations scribed on the short leg of the UBC clip.