

Extended Uni-Clip™

The Extended Uni-Clip™ connects exterior studs to the primary structure of the building, while resisting horizontal and vertical loads.

ClarkDietrich's Extended Uni-Clip™ rigid framing clip is used to attach exterior wall studs to the structure of the building. Designed to resist horizontal and vertical loads, the extended rigid clips install easily with screws, powder-actuated fasteners, or welds. This clip is ideal for all medium and large standoff conditions.

ALTERNATIVE PRODUCTS

Universal Bypass Clip

PRODUCT DIMENSIONS

- 6" Extended Uni-Clip: 1-7/8" x 4-7/8" x 6"
- 8" Extended Uni-Clip: 1-7/8" x 4-7/8" x 8"
- 10" Extended Uni-Clip: 1-7/8" x 4-7/8" x 10"
- 12" Extended Uni-Clip: 1-7/8" x 4-7/8" x 12"

MATERIAL SPECIFICATIONS

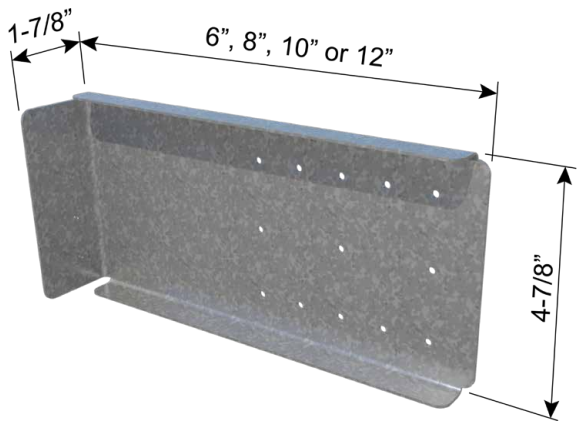
- Gauge: 14 gauge (68mils)
- Design Thickness: 0.0713 inches
- Coating: G90
- Yield Strength: 50 ksi
- ASTM: A653/A653M

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. Connections to the primary building frame can also be made with powder-actuated fasteners or welds per design requirement.

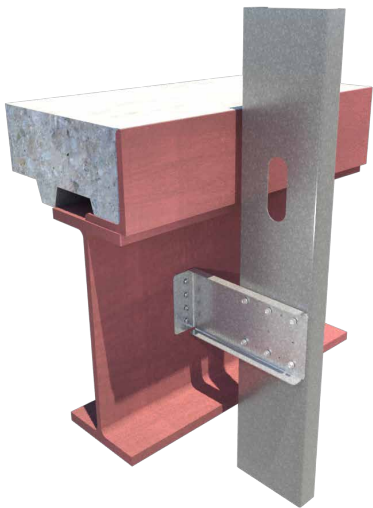
CODE APPROVALS & PERFORMANCE STANDARDS

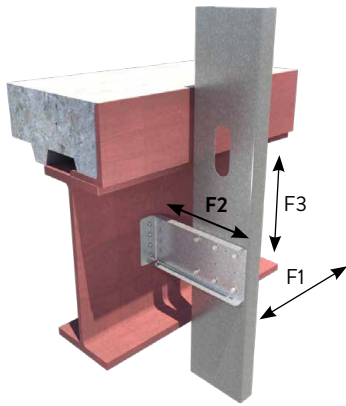
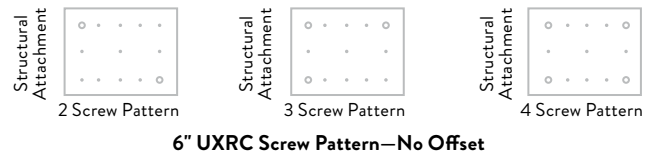
IAPMO ER-731



Extended Uni-Clip™ (UXRC)

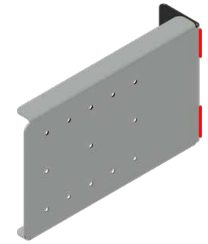
Clip Designation	Thickness		Size (in)	Packaging Pcs./ Bucket
	mils (ga)	Design Thickness (in)		
UXRC6	68 (14)	0.0713	1-7/8 x 4-7/8 x 6	25
UXRC8	68 (14)	0.0713	1-7/8 x 4-7/8 x 8	25
UXRC10	68 (14)	0.0713	1-7/8 x 4-7/8 x 10	25
UXRC12	68 (14)	0.0713	1-7/8 x 4-7/8 x 12	25





6" Extended Uni-Clip™ (UXRC) Allowable Loads (KIPS)

Base Connection	Stud Thickness mils (ga)	Stud Fy (ksi)	6" Extended Uni-Clip								
			F1 Load (kips)			F2 Load (kips)			F3 Load (kips)		
			2 screws	3 screws	4 screws	2 screws	3 screws	4 screws	2 screws	3 screws	4 screws
Weld (Fillet/Flare Groove)	33 (20)	33	0.191	0.286	0.381	0.377	0.565	0.754	0.220	0.344	0.433
	43 (18)	33	0.248	0.373	0.497	0.561	0.841	1.122	0.328	0.511	0.644
	54 (16)	33	0.312	0.468	0.624	0.789	1.183	1.577	0.460	0.719	0.905
	54 (16)	50	0.450	0.675	0.899	1.139	1.708	2.278	0.665	1.038	1.307
	68 (14)	50	0.567	0.851	0.899	1.333	2.000	2.278	0.779	1.215	1.531
	97 (12)	50	0.809	0.899	0.899	1.333	2.000	2.278	0.779	1.215	1.531
(4) #12-24 (3/16" steel)	33 (20)	33	0.191	0.286	0.339	0.377	0.565	0.754	0.220	0.344	0.433
	43 (18)	33	0.248	0.339	0.339	0.561	0.841	1.122	0.328	0.511	0.644
	54 (16)	33	0.312	0.339	0.339	0.789	1.183	1.256	0.460	0.719	0.905
	54 (16)	50	0.339	0.339	0.339	1.139	1.256	1.256	0.665	1.038	1.307
	68 (14)	50	0.339	0.339	0.339	1.256	1.256	1.256	0.779	1.215	1.531
	97 (12)	50	0.339	0.339	0.339	1.256	1.256	1.256	0.779	1.215	1.531
(4) Hilti X-U (3/16" steel)	33 (20)	33	0.191	0.286	0.339	0.377	0.565	0.754	0.220	0.344	0.433
	43 (18)	33	0.248	0.339	0.339	0.561	0.841	0.875	0.328	0.511	0.644
	54 (16)	33	0.312	0.339	0.339	0.789	0.875	0.875	0.460	0.719	0.905
	54 (16)	50	0.339	0.339	0.339	0.875	0.875	0.875	0.665	1.038	1.307
	68 (14)	50	0.339	0.339	0.339	0.875	0.875	0.875	0.779	1.215	1.531
	97 (12)	50	0.339	0.339	0.339	0.875	0.875	0.875	0.779	1.215	1.531
(4) Hilti X-U (1" embedment in 3000psi concrete)	33 (20)	33	0.191	0.286	0.339	0.360	0.360	0.360	0.220	0.344	0.433
	43 (18)	33	0.248	0.339	0.339	0.360	0.360	0.360	0.328	0.511	0.644
	54 (16)	33	0.312	0.339	0.339	0.360	0.360	0.360	0.460	0.719	0.747
	54 (16)	50	0.339	0.339	0.339	0.360	0.360	0.360	0.665	0.747	0.747
	68 (14)	50	0.339	0.339	0.339	0.360	0.360	0.360	0.747	0.747	0.747
	97 (12)	50	0.339	0.339	0.339	0.360	0.360	0.360	0.747	0.747	0.747
(2) Kwik-Cons II (1-3/4" embedment in 3000psi concrete)	33 (20)	33	0.191	0.286	0.339	0.377	0.565	0.754	0.220	0.344	0.433
	43 (18)	33	0.248	0.339	0.339	0.561	0.841	0.922	0.328	0.511	0.644
	54 (16)	33	0.312	0.339	0.339	0.789	0.922	0.922	0.460	0.719	0.905
	54 (16)	50	0.339	0.339	0.339	0.922	0.922	0.922	0.665	1.038	1.160
	68 (14)	50	0.339	0.339	0.339	0.922	0.922	0.922	0.779	1.160	1.160
	97 (12)	50	0.339	0.339	0.339	0.922	0.922	0.922	0.779	1.160	1.160

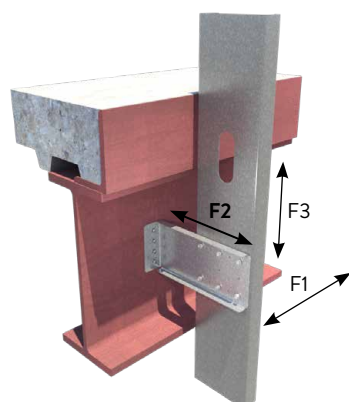
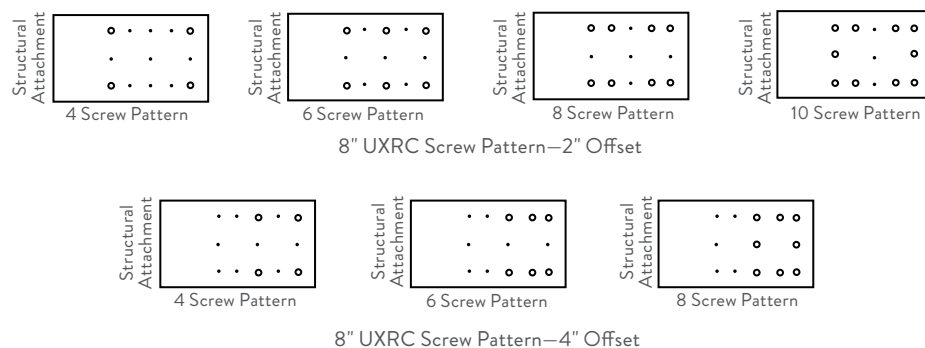


Welded Base Connection

Notes:

- Capacities listed in the table/notes assume that no load reductions are required for spacing or edge distance of Hilti pins in steel, Kwik-Cons, or screws. Load reductions are enforced for spacing or edge distance of Hilti X-U in concrete.
- Weld capacities are based on (2) 1" welds on the outer radius of the bend starting at the outer edges of the clip.
- Allowable loads have not been increased for wind, seismic, or other factors.
- The F1 values are calculated based on the moment capacity of the clip cross section.
- Capacities are based on the use of #12 screws to clip-stud interface.
- The embedment depth of Kwik Cons in 3000psi concrete is 1-3/4". The embedment depth of Hilti X-U in 3000psi concrete is 1".
- The Hilti X-U pins and #12-24 screws are embedded in 3/16" structural steel.
- Torsional effects are considered on screw group for F3 allowable loads.
- Use a linear interaction equation for connections involving any combination of F1, F2, and F3.
- Hilti is a registered trademark of the Hilti Aktiengesellschaft Corporation.

Extended Uni-Clip™

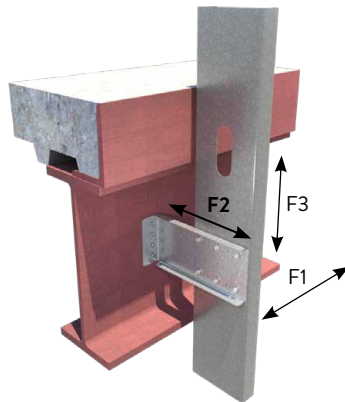


8" Extended Uni-Clip™ (UXRC) Allowable Loads (KIPS)

Base Connection	Stud Thickness mils (ga)	Stud Fy (ksi)	8" Extended Uni-Clip														
			2" Offset												4" Offset		
			F1 Load (kips)				F2 Load (kips)				F3 Load (kips)				F3 Load (kips)		
			4 screws	6 screws	8 screws	10 screws	4 screws	6 screws	8 screws	10 screws	4 screws	6 screws	8 screws	10 screws	4 screws	6 screws	8 screws
Weld (Fillet/Flare Groove)	33 (20)	33	0.381	0.453	0.453	0.453	0.754	1.131	1.508	1.884	0.310	0.435	0.572	0.686	0.214	0.306	0.363
	43 (18)	33	0.453	0.453	0.453	0.453	1.122	1.683	2.243	2.278	0.462	0.647	0.851	1.022	0.318	0.456	0.540
	54 (16)	33	0.453	0.453	0.453	0.453	1.577	2.278	2.278	2.278	0.649	0.909	1.196	1.436	0.447	0.640	0.759
	54 (16)	50	0.453	0.453	0.453	0.453	2.278	2.278	2.278	2.278	0.938	1.313	1.728	2.075	0.645	0.925	1.097
	68 (14)	50	0.453	0.453	0.453	0.453	2.278	2.278	2.278	2.278	1.098	1.538	2.022	2.278	0.756	1.083	1.284
	97 (12)	50	0.453	0.453	0.453	0.453	2.278	2.278	2.278	2.278	1.098	1.538	2.022	2.278	0.756	1.083	1.284
(4) #12-24 (3/16" steel)	33 (20)	33	0.301	0.301	0.301	0.301	0.754	1.131	1.256	1.256	0.310	0.435	0.572	0.686	0.214	0.306	0.363
	43 (18)	33	0.301	0.301	0.301	0.301	1.122	1.256	1.256	1.256	0.462	0.647	0.851	1.022	0.318	0.456	0.540
	54 (16)	33	0.301	0.301	0.301	0.301	1.256	1.256	1.256	1.256	0.649	0.909	1.196	1.436	0.447	0.640	0.759
	54 (16)	50	0.301	0.301	0.301	0.301	1.256	1.256	1.256	1.256	0.938	1.313	1.728	1.864	0.645	0.925	1.097
	68 (14)	50	0.301	0.301	0.301	0.301	1.256	1.256	1.256	1.256	1.098	1.538	1.864	1.864	0.756	1.083	1.284
	97 (12)	50	0.301	0.301	0.301	0.301	1.256	1.256	1.256	1.256	1.098	1.538	1.864	1.864	0.756	1.083	1.284
(4) Hilti X-U (3/16" steel)	33 (20)	33	0.301	0.301	0.301	0.301	0.754	0.875	0.875	0.875	0.310	0.435	0.572	0.686	0.214	0.306	0.363
	43 (18)	33	0.301	0.301	0.301	0.301	0.875	0.875	0.875	0.875	0.462	0.647	0.851	1.022	0.318	0.456	0.540
	54 (16)	33	0.301	0.301	0.301	0.301	0.875	0.875	0.875	0.875	0.649	0.909	1.196	1.436	0.447	0.640	0.759
	54 (16)	50	0.301	0.301	0.301	0.301	0.875	0.875	0.875	0.875	0.938	1.313	1.728	1.864	0.645	0.925	1.097
	68 (14)	50	0.301	0.301	0.301	0.301	0.875	0.875	0.875	0.875	1.098	1.538	1.864	1.864	0.756	1.083	1.284
	97 (12)	50	0.301	0.301	0.301	0.301	0.875	0.875	0.875	0.875	1.098	1.538	1.864	1.864	0.756	1.083	1.284
(4) Hilti X-U (1" embedment in 3000psi concrete)	33 (20)	33	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.310	0.435	0.572	0.686	0.214	0.306	0.363
	43 (18)	33	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.462	0.647	0.747	0.747	0.318	0.456	0.540
	54 (16)	33	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.649	0.747	0.747	0.747	0.447	0.640	0.747
	54 (16)	50	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.747	0.747	0.747	0.747	0.645	0.747	0.747
	68 (14)	50	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.747	0.747	0.747	0.747	0.747	0.747	0.747
	97 (12)	50	0.301	0.301	0.301	0.301	0.360	0.360	0.360	0.360	0.747	0.747	0.747	0.747	0.747	0.747	0.747
(2) Kwik-Cons II (1-3/4" embedment in 3000psi concrete)	33 (20)	33	0.301	0.301	0.301	0.301	0.754	0.922	0.922	0.922	0.310	0.435	0.572	0.686	0.214	0.306	0.363
	43 (18)	33	0.301	0.301	0.301	0.301	0.922	0.922	0.922	0.922	0.462	0.647	0.851	1.022	0.318	0.456	0.540
	54 (16)	33	0.301	0.301	0.301	0.301	0.922	0.922	0.922	0.922	0.649	0.909	1.160	1.160	0.447	0.640	0.759
	54 (16)	50	0.301	0.301	0.301	0.301	0.922	0.922	0.922	0.922	0.938	1.160	1.160	1.160	0.645	0.925	1.097
	68 (14)	50	0.301	0.301	0.301	0.301	0.922	0.922	0.922	0.922	1.098	1.160	1.160	1.160	0.756	1.083	1.160
	97 (12)	50	0.301	0.301	0.301	0.301	0.922	0.922	0.922	0.922	1.098	1.160	1.160	1.160	0.756	1.083	1.160

Notes:

- Capacities listed in the table/notes assume that no load reductions are required for spacing or edge distance of Hilti X-U pins in steel, Kwik-Cons, or screws. Load reductions are enforced for spacing or edge distance of Hilti X-U in concrete.
- Weld capacities are based on (2) 1" welds on the outer radius of the bend starting at the outer edges of the clip.
- Allowable loads have not been increased for wind, seismic, or other factors.
- The F1 values are calculated based on the moment capacity of the clip cross section.
- Capacities are based on the use of #12 screws to clip-stud interface.
- The embedment depth of Kwik-Cons in 3000psi normal weight concrete is 1-3/4". The embedment depth of Hilti X-U in 3000psi normal weight concrete is 1".
- The Hilti X-U pins and #12-24 screws are embedded in 3/16" structural steel.
- Torsional effects are considered on screw group for F3 allowable loads.
- Use a linear interaction equation for connections involving any combination of F1, F2, and F3.
- Hilti is a registered trademark of the Hilti Aktiengesellschaft Corporation.
- Hilti X-U PAFs shown in table may not be substituted without prior approval from ClarkDietrich Engineering Services.

Structural
Attachment

4 Screw Pattern

Structural
Attachment

6 Screw Pattern

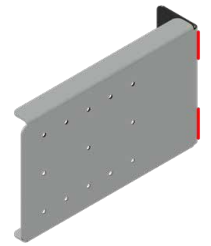
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10 Screw Pattern

10" UXRC Screw Pattern—4" Offset

10" Extended Uni-Clip™ (UXRC) Allowable Loads (KIPS)

Base Connection	Stud Thickness Mil (gauge)	Stud Fy (ksi)	10" Extended Uni-Clip 4" Offset								
			F1 Load (kips)			F2 Load (kips)			F3 Load (kips)		
			4 screws	6 screws	10 screws	4 screws	6 screws	10 screws	4 screws	6 screws	10 screws
Weld (Fillet/Flare Groove)	33 (20)	33	0.228	0.228	0.228	0.754	1.131	1.884	0.239	0.328	0.523
	43 (18)	33	0.228	0.228	0.228	1.122	1.683	2.278	0.356	0.488	0.779
	54 (16)	33	0.228	0.228	0.228	1.577	2.278	2.278	0.500	0.686	1.095
	54 (16)	50	0.228	0.228	0.228	2.278	2.278	2.278	0.722	0.991	1.581
	68 (14)	50	0.228	0.228	0.228	2.278	2.278	2.278	0.845	1.160	1.851
	97 (12)	50	0.228	0.228	0.228	2.278	2.278	2.278	0.845	1.160	1.851
(4) #12-24 (3/16" steel)	33 (20)	33	0.133	0.133	0.133	0.754	1.131	1.256	0.239	0.328	0.523
	43 (18)	33	0.133	0.133	0.133	1.122	1.256	1.256	0.356	0.488	0.779
	54 (16)	33	0.133	0.133	0.133	1.256	1.256	1.256	0.500	0.686	1.095
	54 (16)	50	0.133	0.133	0.133	1.256	1.256	1.256	0.722	0.991	1.581
	68 (14)	50	0.133	0.133	0.133	1.256	1.256	1.256	0.845	1.160	1.596
	97 (12)	50	0.133	0.133	0.133	1.256	1.256	1.256	0.845	1.160	1.596
(4) Hilti X-U (3/16" steel)	33 (20)	33	0.133	0.133	0.133	0.754	0.875	0.875	0.239	0.328	0.523
	43 (18)	33	0.133	0.133	0.133	0.875	0.875	0.875	0.356	0.488	0.779
	54 (16)	33	0.133	0.133	0.133	0.875	0.875	0.875	0.500	0.686	1.095
	54 (16)	50	0.133	0.133	0.133	0.875	0.875	0.875	0.722	0.991	1.581
	68 (14)	50	0.133	0.133	0.133	0.875	0.875	0.875	0.845	1.160	1.596
	97 (12)	50	0.133	0.133	0.133	0.875	0.875	0.875	0.845	1.160	1.596
(4) Hilti X-U (1" embedment in 3000psi concrete)	33 (20)	33	0.133	0.133	0.133	0.360	0.360	0.360	0.239	0.328	0.523
	43 (18)	33	0.133	0.133	0.133	0.360	0.360	0.360	0.356	0.488	0.747
	54 (16)	33	0.133	0.133	0.133	0.360	0.360	0.360	0.500	0.686	0.747
	54 (16)	50	0.133	0.133	0.133	0.360	0.360	0.360	0.722	0.747	0.747
	68 (14)	50	0.133	0.133	0.133	0.360	0.360	0.360	0.747	0.747	0.747
	97 (12)	50	0.133	0.133	0.133	0.360	0.360	0.360	0.747	0.747	0.747
(2) Kwik-Cons II (1-3/4" embedment in 3000psi concrete)	33 (20)	33	0.133	0.133	0.133	0.754	0.922	0.922	0.239	0.328	0.523
	43 (18)	33	0.133	0.133	0.133	0.922	0.922	0.922	0.356	0.488	0.779
	54 (16)	33	0.133	0.133	0.133	0.922	0.922	0.922	0.500	0.686	1.095
	54 (16)	50	0.133	0.133	0.133	0.922	0.922	0.922	0.722	0.991	1.160
	68 (14)	50	0.133	0.133	0.133	0.922	0.922	0.922	0.845	1.160	1.160
	97 (12)	50	0.133	0.133	0.133	0.922	0.922	0.922	0.845	1.160	1.160

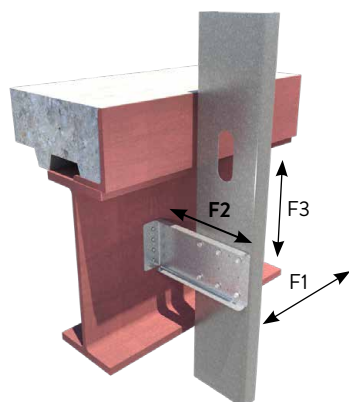


Welded Base Connection

Notes:

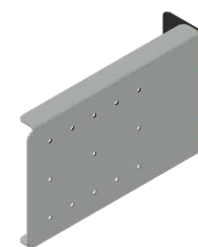
- Capacities listed in the table/notes assume that no load reductions are required for spacing or edge distance of Hilti pins in steel, Kwik-Cons, or screws. Load reductions are enforced for spacing or edge distance of Hilti X-U in concrete.
- Weld capacities are based on (2) 1" welds on the outer radius of the bend starting at the outer edges of the clip.
- Allowable loads have not been increased for wind, seismic, or other factors.
- The F1 values are calculated based on the moment capacity of the clip cross section.
- Capacities are based on the use of #12 screws to clip-stud interface.
- The embedment depth of Kwik Cons in 3000psi concrete is 1-3/4". The embedment depth of Hilti X-U in 3000psi concrete is 1".
- The Hilti X-U pins and #12-24 screws are embedded in 3/16" structural steel.
- Torsional effects are considered on screw group for F3 allowable loads.
- Use a linear interaction equation for connections involving any combination of F1, F2, and F3.
- Hilti is a registered trademark of the Hilti Aktiengesellschaft Corporation.

Extended Uni-Clip™



12" Extended Uni-Clip™ (UXRC) Allowable Loads (KIPS)

Base Connection	Stud Thickness mils (ga)	Stud Fy (ksi)	12" Extended Uni-Clip 6" Offset								
			F1 Load (kips)			F2 Load (kips)			F3 Load (kips)		
			4 screws	6 screws	10 screws	4 screws	6 screws	10 screws	4 screws	6 screws	10 screws
Weld (Fillet/Flare Groove)	33 (20)	33	0.131	0.131	0.131	0.754	1.131	1.884	0.193	0.261	0.420
	43 (18)	33	0.131	0.131	0.131	1.122	1.683	2.278	0.287	0.389	0.625
	54 (16)	33	0.131	0.131	0.131	1.577	2.278	2.278	0.404	0.547	0.879
	54 (16)	50	0.131	0.131	0.131	2.278	2.278	2.278	0.584	0.790	1.269
	68 (14)	50	0.131	0.131	0.131	2.278	2.278	2.278	0.683	0.925	1.485
(4) #12-24 (3/16" steel)	97 (12)	50	0.131	0.131	0.131	2.278	2.278	2.278	0.683	0.925	1.485
	33 (20)	33	0.095	0.095	0.095	0.754	0.950	0.950	0.193	0.261	0.420
	43 (18)	33	0.095	0.095	0.095	0.950	0.950	0.950	0.287	0.389	0.625
	54 (16)	33	0.095	0.095	0.095	0.950	0.950	0.950	0.404	0.547	0.879
	54 (16)	50	0.095	0.095	0.095	0.950	0.950	0.950	0.584	0.790	1.269
(4) Hilti X-U (3/16" steel)	68 (14)	50	0.095	0.095	0.095	0.950	0.950	0.950	0.683	0.925	1.329
	97 (12)	50	0.095	0.095	0.095	0.950	0.950	0.950	0.683	0.925	1.329
	33 (20)	33	0.095	0.095	0.095	0.754	0.875	0.875	0.193	0.261	0.420
	43 (18)	33	0.095	0.095	0.095	0.875	0.875	0.875	0.287	0.389	0.625
	54 (16)	33	0.095	0.095	0.095	0.875	0.875	0.875	0.404	0.547	0.879
(4) Hilti X-U (1" embedment in 3000psi concrete)	54 (16)	50	0.095	0.095	0.095	0.875	0.875	0.875	0.584	0.790	1.269
	68 (14)	50	0.095	0.095	0.095	0.875	0.875	0.875	0.683	0.925	1.329
	97 (12)	50	0.095	0.095	0.095	0.875	0.875	0.875	0.683	0.925	1.329
	33 (20)	33	0.095	0.095	0.095	0.360	0.360	0.360	0.193	0.261	0.420
	43 (18)	33	0.095	0.095	0.095	0.360	0.360	0.360	0.287	0.389	0.625
(2) Kwik-Cons II (1-3/4" embedment in 3000psi concrete)	54 (16)	33	0.095	0.095	0.095	0.360	0.360	0.360	0.404	0.547	0.747
	54 (16)	50	0.095	0.095	0.095	0.360	0.360	0.360	0.584	0.747	0.747
	68 (14)	50	0.095	0.095	0.095	0.360	0.360	0.360	0.683	0.747	0.747
	97 (12)	50	0.095	0.095	0.095	0.360	0.360	0.360	0.683	0.747	0.747
	33 (20)	33	0.095	0.095	0.095	0.754	0.922	0.922	0.193	0.261	0.420
(2) Kwik-Cons II (1-3/4" embedment in 3000psi concrete)	43 (18)	33	0.095	0.095	0.095	0.922	0.922	0.922	0.287	0.389	0.625
	54 (16)	33	0.095	0.095	0.095	0.922	0.922	0.922	0.404	0.547	0.879
	54 (16)	50	0.095	0.095	0.095	0.922	0.922	0.922	0.584	0.790	1.160
	68 (14)	50	0.095	0.095	0.095	0.922	0.922	0.922	0.683	0.925	1.160
	97 (12)	50	0.095	0.095	0.095	0.922	0.922	0.922	0.683	0.925	1.160



Welded Base Connection

Notes:

- Capacities listed in the table/notes assume that no load reductions are required for spacing or edge distance of Hilti pins in steel, Kwik-Cons, or screws. Load reductions are enforced for spacing or edge distance of Hilti X-U in concrete.
- Weld capacities are based on (2) 1" welds on the outer radius of the bend starting at the outer edges of the clip.
- Allowable loads have not been increased for wind, seismic, or other factors.
- The F1 values are calculated based on the moment capacity of the clip cross section.
- Capacities are based on the use of #12 screws to clip-stud interface.
- The embedment depth of Kwik Cons in 3000psi concrete is 1-3/4". The embedment depth of Hilti X-U in 3000psi concrete is 1".
- The Hilti X-U pins and #12-24 screws are embedded in 3/16" structural steel.
- Torsional effects are considered on screw group for F3 allowable loads.
- Use a linear interaction equation for connections involving any combination of F1, F2, and F3.
- Hilti is a registered trademark of the Hilti Aktiengesellschaft Corporation.