

HU/HUC/HSUR/L

Medium-Duty Face-Mount Hangers

HU/HUC hangers may be installed on a masonry/concrete wall as described below. Additionally, HU hangers with one flange concealed may be installed similarly.

HU and HUC products are heavy-duty face-mount joist hangers made from 14-gauge galvanized steel.

- The HUC is a concealed flange (face flanges turned in) version of the HU.
- HU is available with both flanges concealed, provided the W dimension is $2\frac{5}{16}$ " or greater, at 100% of the table load. Specify HUC.
- HU is available with one flange concealed when the W dimension is less than $2\frac{5}{16}$ " at 100% of the table load. Specify as an 'X' version and specify flange to conceal.
- For any HU or HUC shown in this catalog, the user may substitute all face nails with $\frac{1}{4}$ " x $1\frac{3}{4}$ " Titen® 2 screws (Model TTN2-25134H) for concrete and $\frac{1}{4}$ " x $2\frac{3}{4}$ " Titen 2 screws (Model TTN2-25234H) for GFCMU. Follow all installation instructions and use the loads from the sawn lumber or EWP sections.

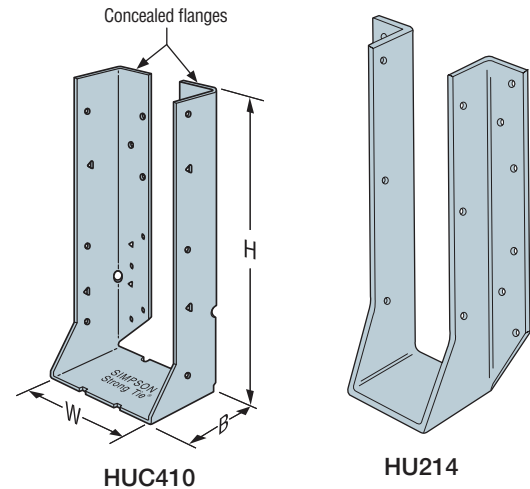
Material: 14 gauge

Finish: Galvanized; ZMAX® and stainless steel available

Installation:

- Attach the hangers to concrete or GFCMU walls using hex-head Titen 2 screws. Titen screws for GFCMU ($\frac{1}{4}$ " x $2\frac{3}{4}$ " — Model TTN2-25234H) and for concrete ($\frac{1}{4}$ " x $1\frac{3}{4}$ " — Model TTN2-25134H) are not provided with the hangers.
- Drill the $\frac{3}{16}$ "-diameter hole to the specified embedment depth plus $\frac{1}{2}$ ".
- Alternatively, drill the $\frac{3}{16}$ "-diameter hole to the specified embedment depth and blow it clean using compressed air.
- Caution: Oversized-diameter holes in the base material will reduce or eliminate the mechanical interlock of the threads with the base material and will reduce the anchor's load capacity.
- Titen Installation Tool Kits are available. They include a $\frac{3}{16}$ " drill bit and hex-head driver bit (Model TTNT01-RC); a $\frac{3}{16}$ " x $4\frac{1}{2}$ " drill bit is also available (Model MDB18412).
- A minimum edge distance of $1\frac{1}{2}$ " and minimum end distance of $3\frac{7}{8}$ " is required as shown in Figure 1 for full uplift load.
- Where no uplift load is required, a minimum end distance of $1\frac{1}{2}$ " is permitted.

Codes: See p. 12 for Code Reference Key Chart



HUC410

HU214

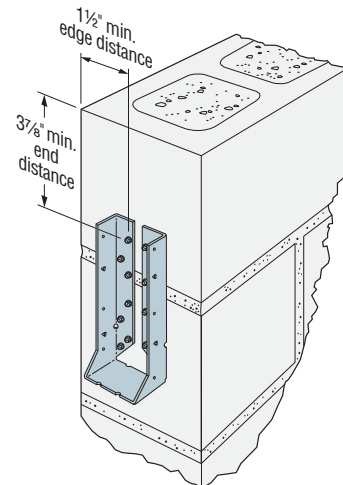


Figure 1 — HUC410 Installed on Masonry Block End Wall

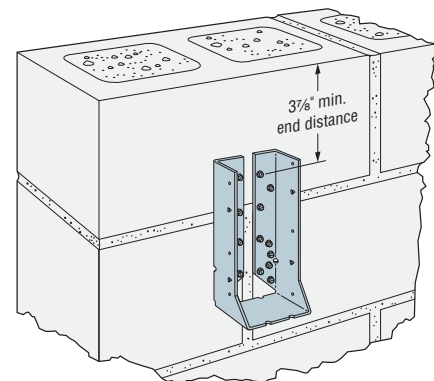


Figure 2 — HUC410 Installed on Masonry Block End Wall

HU/HUC

Medium-Duty Face-Mount Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 15.

	Model No.		Fasteners (in.)			Allowable Loads (DF/SP)				Code Ref.
						GFCMU		Concrete		
	Standard	Concealed	GFCMU Titen® 2	Concrete Titen® 2	Joist	Uplift (160)	Down (100/125)	Uplift (160)	Down (100/125)	
	HU26	HU26X	(4) ¼ x 2¾	(4) ¼ x 1¾	(2) 0.148 x 1 ½	335	1,000	335	1,545	—
	HU28	HU28X	(6) ¼ x 2¾	(6) ¼ x 1¾	(4) 0.148 x 1 ½	545	1,500	760	2,400	
	HU24-2	HUC24-2	(4) ¼ x 2¾	(4) ¼ x 1¾	(2) 0.148 x 3	380	1,000	380	1,545	
	HU26-2 (Min.)	HUC26-2	(8) ¼ x 2¾	(8) ¼ x 1¾	(4) 0.148 x 3	760	2,000	760	3,200	
	HU26-2 (Max.)	HUC26-2	(12) ¼ x 2¾	(12) ¼ x 1¾	(6) 0.148 x 3	1,135	3,000	1,135	3,950	
	HU26-3 (Min.)	HUC26-3 (Min.)	(8) ¼ x 2¾	(8) ¼ x 1¾	(4) 0.148 x 3	760	2,000	760	3,200	
	HU26-3 (Max.)	HUC26-3 (Max.)	(12) ¼ x 2¾	(12) ¼ x 1¾	(6) 0.148 x 3	1,135	3,000	1,135	3,950	
	HU28-2 (Min.)	HUC28-2 (Min.)	(10) ¼ x 2¾	(10) ¼ x 1¾	(4) 0.148 x 3	760	2,500	760	3,725	
	HU28-2 (Max.)	HUC28-2 (Max.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.148 x 3	1,135	3,500	1,135	4,920	
	HU210	HU210X	(8) ¼ x 2¾	(8) ¼ x 1¾	(4) 0.148 x 1 ½	545	2,000	760	2,415	
	HU210-2 (Min.)	HUC210-2 (Min.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.148 x 3	1,135	3,500	1,135	4,920	
	HU210-2 (Max.)	HUC210-2 (Max.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(10) 0.148 x 3	1,800	4,500	1,800	5,085	
	HU210-3 (Min.)	HUC210-3 (Min.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.148 x 3	1,135	3,500	1,135	4,920	
	HU210-3 (Max.)	HUC210-3 (Max.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(10) 0.148 x 3	1,800	4,500	1,800	5,085	
	HU212	HU212X	(10) ¼ x 2¾	(10) ¼ x 1¾	(6) 0.148 x 1 ½	1,135	2,500	1,135	2,665	
	HU212-2 (Min.)	HUC212-2 (Min.)	(16) ¼ x 2¾	(16) ¼ x 1¾	(6) 0.148 x 3	1,135	4,000	1,135	4,920	
	HU212-2 (Max.)	HUC212-2 (Max.)	(22) ¼ x 2¾	(22) ¼ x 1¾	(10) 0.148 x 3	1,350	5,085	1,350	5,085	
	HU212-3 (Min.)	HUC212-3 (Min.)	(16) ¼ x 2¾	(16) ¼ x 1¾	(6) 0.148 x 3	1,135	4,000	1,135	4,920	
	HU212-3 (Max.)	HUC212-3 (Max.)	(22) ¼ x 2¾	(22) ¼ x 1¾	(10) 0.148 x 3	1,800	5,085	1,800	5,085	
	HU214	HU214X	(12) ¼ x 2¾	(12) ¼ x 1¾	(6) 0.148 x 1 ½	1,135	2,665	1,135	2,665	
	HU214-2 (Min.)	HUC214-2 (Min.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.148 x 3	1,515	4,500	1,515	5,085	
	HU214-2 (Max.)	HUC214-2 (Max.)	(24) ¼ x 2¾	(24) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
	HU214-3 (Min.)	HUC214-3 (Min.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.148 x 3	1,515	4,500	1,515	5,085	
	HU214-3 (Max.)	HUC214-3 (Max.)	(24) ¼ x 2¾	(24) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
	HU216	HU216X	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.148 x 1 ½	1,515	2,920	1,515	2,920	
	HU216-2 (Min.)	HUC216-2 (Min.)	(20) ¼ x 2¾	(20) ¼ x 1¾	(8) 0.148 x 3	1,515	4,920	1,515	4,920	
	HU216-2 (Max.)	HUC216-2 (Max.)	(26) ¼ x 2¾	(26) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
	HU216-3 (Min.)	HUC216-3 (Min.)	(20) ¼ x 2¾	(20) ¼ x 1¾	(8) 0.148 x 3	1,515	4,920	1,515	4,920	
	HU216-3 (Max.)	HUC216-3 (Max.)	(26) ¼ x 2¾	(26) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
	HU7 (Min.)	(Not available)	(12) ¼ x 2¾	(12) ¼ x 1¾	(4) 0.148 x 1 ½	545	2,980	760	2,980	
	HU7 (Max.)	(Not available)	(16) ¼ x 2¾	(16) ¼ x 1¾	(8) 0.148 x 1 ½	1,085	3,485	1,085	3,485	
	HU9 (Min.)	(Not available)	(18) ¼ x 2¾	(18) ¼ x 1¾	(6) 0.148 x 1 ½	1,135	3,230	1,135	3,230	
	HU9 (Max.)	(Not available)	(24) ¼ x 2¾	(24) ¼ x 1¾	(10) 0.148 x 1 ½	1,445	3,735	1,445	3,735	
	HU11 (Min.)	(Not available)	(22) ¼ x 2¾	(22) ¼ x 1¾	(6) 0.148 x 1 ½	1,135	3,230	1,135	3,230	
	HU11 (Max.)	(Not available)	(30) ¼ x 2¾	(30) ¼ x 1¾	(10) 0.148 x 1 ½	1,445	3,735	1,445	3,735	
	HU14 (Min.)	(Not available)	(28) ¼ x 2¾	(28) ¼ x 1¾	(8) 0.148 x 1 ½	1,515	3,485	1,515	3,485	
	HU14 (Max.)	(Not available)	(36) ¼ x 2¾	(36) ¼ x 1¾	(14) 0.148 x 1 ½	2,015	4,245	2,015	4,245	

HU/HUC

Medium-Duty Face-Mount Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 15.

Model No.		Fasteners (in.)			Allowable Loads (DF/SP)				Code Ref.
Standard	Concealed	GFCMU Titen® 2	Concrete Titen® 2	Joist	Uplift (160)	Down (100/125)	Uplift (160)	Down (100/125)	
HU3.25/10.5	(Not available)	(22) ¼ x 2¾	(22) ¼ x 1¾	(10) 0.148 x 3	1,895	5,085	1,895	5,085	
HU3.25/12	(Not available)	(24) ¼ x 2¾	(24) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
HU44	HUC44	(4) ¼ x 2¾	(4) ¼ x 1¾	(2) 0.148 x 3	380	1,000	380	1,545	
HU46 (Min.)	HUC46 (Min.)	(8) ¼ x 2¾	(8) ¼ x 1¾	(4) 0.148 x 3	760	2,000	760	3,200	
HU46 (Max.)	HUC46 (Max.)	(12) ¼ x 2¾	(12) ¼ x 1¾	(6) 0.148 x 3	1,135	3,000	1,135	3,950	
HU48 (Min.)	HUC48 (Min.)	(10) ¼ x 2¾	(10) ¼ x 1¾	(4) 0.148 x 3	760	2,500	760	3,725	
HU48 (Max.)	HUC48 (Max.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.148 x 3	1,135	3,500	1,135	4,920	
HU410 (Min.)	HUC410 (Min.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.148 x 3	1,135	3,500	1,135	4,920	
HU410 (Max.)	HUC410 (Max.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(10) 0.148 x 3	1,800	4,500	1,800	4,920	
HU412 (Min.)	HUC412 (Min.)	(16) ¼ x 2¾	(16) ¼ x 1¾	(6) 0.148 x 3	1,135	4,000	1,135	4,920	
HU412 (Max.)	HUC412 (Max.)	(22) ¼ x 2¾	(22) ¼ x 1¾	(10) 0.148 x 3	1,800	5,085	1,800	5,085	
HU414 (Min.)	HUC414 (Min.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.148 x 3	1,515	4,500	1,515	5,085	
HU414 (Max.)	HUC414 (Max.)	(24) ¼ x 2¾	(24) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
HU416 (Min.)	HUC416 (Min.)	(20) ¼ x 2¾	(20) ¼ x 1¾	(8) 0.148 x 3	1,515	4,920	1,515	4,920	
HU416 (Max.)	HUC416 (Max.)	(26) ¼ x 2¾	(26) ¼ x 1¾	(12) 0.148 x 3	2,015	5,085	2,015	5,085	
HU66 (Min.)	HUC66 (Min.)	(8) ¼ x 2¾	(8) ¼ x 1¾	(4) 0.162 x 3½	900	2,000	900	3,200	
HU66 (Max.)	HUC66 (Max.)	(12) ¼ x 2¾	(12) ¼ x 1¾	(6) 0.162 x 3½	1,345	3,000	1,345	3,950	
HU68 (Min.)	HUC68 (Min.)	(10) ¼ x 2¾	(10) ¼ x 1¾	(4) 0.162 x 3½	900	2,500	900	3,725	
HU68 (Max.)	HUC68 (Max.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.162 x 3½	1,345	3,500	1,345	4,920	
HU610 (Min.)	HUC610 (Min.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.162 x 3½	1,345	3,500	1,345	4,920	
HU610 (Max.)	HUC610 (Max.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,500	1,795	5,085	
HU612 (Min.)	HUC612 (Min.)	(16) ¼ x 2¾	(16) ¼ x 1¾	(6) 0.162 x 3½	1,345	4,000	1,345	4,920	
HU612 (Max.)	HUC612 (Max.)	(22) ¼ x 2¾	(22) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,920	1,795	4,920	
HU614 (Min.)	HUC614 (Min.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,500	1,795	5,085	
HU614 (Max.)	HUC614 (Max.)	(24) ¼ x 2¾	(24) ¼ x 1¾	(12) 0.162 x 3½	2,015	5,085	2,015	5,085	
HU616 (Min.)	HUC616 (Min.)	(20) ¼ x 2¾	(20) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,920	1,795	4,920	
HU616 (Max.)	HUC616 (Max.)	(26) ¼ x 2¾	(26) ¼ x 1¾	(12) 0.162 x 3½	2,015	5,085	2,015	5,085	
HU410-2 (Min.)	HUC410-2 (Min.)	(14) ¼ x 2¾	(14) ¼ x 1¾	(6) 0.162 x 3½	1,345	3,500	1,345	4,920	
HU410-2 (Max.)	HUC410-2 (Max.)	(18) ¼ x 2¾	(18) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,500	1,795	5,085	
HU412-2 (Min.)	HUC412-2 (Min.)	(16) ¼ x 2¾	(16) ¼ x 1¾	(6) 0.162 x 3½	1,345	4,000	1,345	4,920	
HU412-2 (Max.)	HUC412-2 (Max.)	(22) ¼ x 2¾	(22) ¼ x 1¾	(10) 0.162 x 3½	1,800	4,920	1,800	4,920	
HU414-2 (Min.)	HUC414-2 (Min.)	(20) ¼ x 2¾	(20) ¼ x 1¾	(8) 0.162 x 3½	1,795	4,920	1,795	4,920	
HU414-2 (Max.)	HUC414-2 (Max.)	(26) ¼ x 2¾	(26) ¼ x 1¾	(12) 0.162 x 3½	2,015	5,085	2,015	5,085	

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.

2. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.

3. Grout-filled CMU (GFCMU) shall have a minimum compressive strength of $f'_m = 1,500$ psi.

4. When only one flange is concealed, specify whether the right or the left is the concealed flange.

5. Products shall be installed such that Titen® screws are not exposed to the weather.

6. **Fasteners:** Nail dimensions in the table are diameter by length. Titen 2 screws are Simpson Strong-Tie masonry screws.

See pp. 21–22 for fastener information.