

LGUM/HGUM

Heavy-Duty Face-Mount Beam/Girder Hangers for Concrete and GFCMU

High-capacity beam or girder hangers for concrete or masonry applications. Installation is made easier using Strong-Drive® SDS Heavy-Duty Connector screws (provided) into the wood member and Titen HD® anchors (provided) into the masonry.

Material: See table

Finish: Galvanized; *available in stainless steel*

Installation:

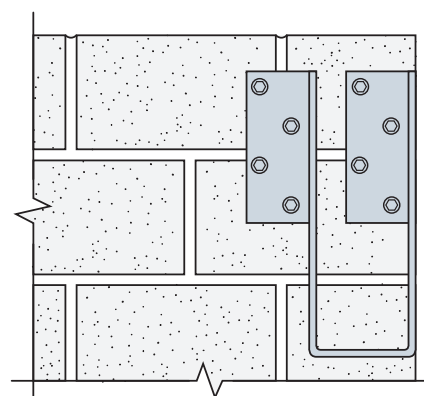
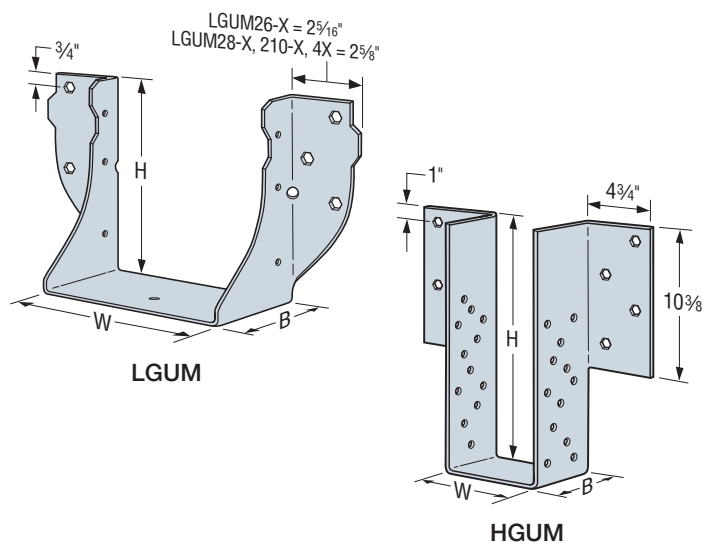
- Use all specified fasteners (included). *Stainless steel models are packaged with 1" longer Type 316 stainless-steel Titen HD anchors.*
- Attach hanger to a concrete or grout-filled CMU wall using Titen HD anchors. Note the following:
 - Drill holes using drill bits equal in diameter to the specified Titen HD anchor.
 - Holes shall be drilled $\frac{1}{2}$ " deeper than the specified Titen HD length (i.e. $4\frac{1}{2}$ " for a 4" long Titen HD anchor). *For stainless-steel LGUM models installed onto 6"-thick concrete or GFCMU, care should be taken to avoid damage to the back side of the wall when drilling and installing 5" long stainless-steel Titen HD anchors.*
 - Caution: Oversized 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.
- Carbon-steel Titen HD is not recommended for exposed exterior applications.
- Provide moisture barrier between beam and wall per jurisdictional requirements.

Options:

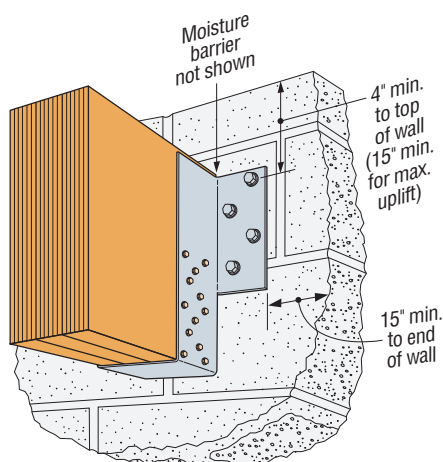
- For HGUM only — other seat widths and hanger heights available. Order as "X" version.
- HGUM available with one flange concealed. See p. 258 for reduced load at end of wall and outside corner.
- LGUM/HGUM available in skews up to 45° . See Hanger Options, p. 258.

Codes: See p. 13 for Code Reference Key Chart

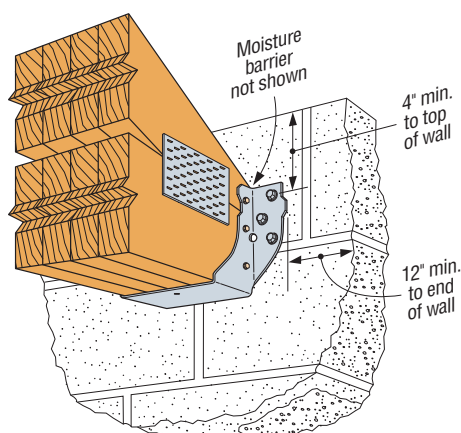
Web Applications: Visit app.strongtie.com/hs to access our Hanger Selector web application.



HGUM with Right Flange Concealed
(see p. 258 for reduction factors)



Typical HGUM Installation



Typical LGUM Installation

LGUM/HGUM

Heavy-Duty Face-Mount Beam/Girder Hangers
for Concrete and GFCMU (cont.)

These products are available with additional corrosion protection. For more information, see p. 16.

SS For stainless-steel fasteners, see p. 23.

Model No.	Ga.	Dimensions (in.)			Fasteners (in.)		DF, SP, LVL, PSL, LSL Allowable Loads				Code Ref.	
		W	H	B	GFCMU and Concrete	Joist	Uplift (160)		Download (100/115/125)			
					Titen HD® Anchors	Strong-Drive® SDS Screws	GFCMU	Concrete	GFCMU	Concrete		
Double 2x Sizes												
SS	LGUM26-2-SDS	12	3 ⁵ / ₁₆	5 ⁷ / ₁₆	4	(4) ³ / ₈ x 4	(4) ¹ / ₄ x 2 ¹ / ₂	1,430	1,430	5,595	FL	
SS	LGUM28-2-SDS	12	3 ⁵ / ₁₆	7 ³ / ₁₆	4	(6) ³ / ₈ x 4	(6) ¹ / ₄ x 2 ¹ / ₂	2,435	2,435	8,250		
SS	LGUM210-2-SDS	12	3 ⁵ / ₁₆	9 ³ / ₁₆	4	(8) ³ / ₈ x 4	(8) ¹ / ₄ x 2 ¹ / ₂	3,575	3,575	9,575		
Triple 2x Sizes												
SS	LGUM26-3-SDS	12	4 ¹⁵ / ₁₆	5 ¹ / ₂	4	(4) ³ / ₈ x 4	(4) ¹ / ₄ x 2 ¹ / ₂	1,430	1,430	5,610		
SS	LGUM28-3-SDS	12	4 ¹⁵ / ₁₆	7 ¹ / ₄	4	(6) ³ / ₈ x 4	(6) ¹ / ₄ x 2 ¹ / ₂	2,435	2,435	8,290		
SS	LGUM210-3-SDS	12	4 ¹⁵ / ₁₆	9 ¹ / ₄	4	(8) ³ / ₈ x 4	(8) ¹ / ₄ x 2 ¹ / ₂	3,575	3,575	9,715		
Quadruple 2x Sizes												
SS	LGUM26-4-SDS	12	6 ³ / ₁₆	5 ⁷ / ₁₆	4	(4) ³ / ₈ x 4	(4) ¹ / ₄ x 2 ¹ / ₂	1,430	1,430	5,625		
SS	LGUM28-4-SDS	12	6 ³ / ₁₆	7 ³ / ₁₆	4	(6) ³ / ₈ x 4	(6) ¹ / ₄ x 2 ¹ / ₂	2,435	2,435	8,335		
SS	LGUM210-4-SDS	12	6 ³ / ₁₆	9 ³ / ₁₆	4	(8) ³ / ₈ x 4	(8) ¹ / ₄ x 2 ¹ / ₂	3,575	3,575	9,860		
4x Sizes												
SS	LGUM46-SDS	12	3 ⁵ / ₁₆	4 ⁷ / ₁₆	4	(4) ³ / ₈ x 4	(4) ¹ / ₄ x 2 ¹ / ₂	1,430	1,430	5,600		
SS	LGUM48-SDS	12	3 ⁵ / ₁₆	6 ⁷ / ₁₆	4	(6) ³ / ₈ x 4	(6) ¹ / ₄ x 2 ¹ / ₂	2,435	2,435	8,260		
SS	LGUM410-SDS	12	3 ⁵ / ₁₆	8 ⁷ / ₁₆	4	(8) ³ / ₈ x 4	(8) ¹ / ₄ x 2 ¹ / ₂	3,575	3,575	9,620		
Engineered Wood and Structural Composite Lumber Sizes (Heavy Duty)												
SS	HGUM5.25-SDS	7	5 ¹ / ₄	11 to 30	5 ¹ / ₄	(8) ⁵ / ₈ x 5	(24) ¹ / ₄ x 2 ¹ / ₂	4,105	5,075	14,025		14,770
SS	HGUM5.50-SDS	7	5 ¹ / ₂		5 ¹ / ₄	(8) ⁵ / ₈ x 5	(24) ¹ / ₄ x 2 ¹ / ₂	4,105	5,075	14,000		14,915
SS	HGUM7.00-SDS	7	7		5 ¹ / ₄	(8) ⁵ / ₈ x 5	(24) ¹ / ₄ x 2 ¹ / ₂	4,105	5,075	13,840		14,915
SS	HGUM7.25-SDS	7	7 ¹ / ₄		5 ¹ / ₄	(8) ⁵ / ₈ x 5	(24) ¹ / ₄ x 2 ¹ / ₂	4,105	5,075	13,810		14,915
SS	HGUM9.00-SDS	7	9		5 ¹ / ₄	(8) ⁵ / ₈ x 5	(24) ¹ / ₄ x 2 ¹ / ₂	4,105	5,075	13,625		14,915

- Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- Tabulated uplift loads are based on 4" minimum distance to top of wall. For HGUM installations with 15" minimum distance to top of wall, uplift loads are 6,180 lb. for GFCMU and 6,585 for concrete.
- Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
- Grout-filled CMU (GFCMU) shall have a minimum compressive strength of $f'_m = 1,500$ psi.
- LGUM must be installed on minimum 6"-thick wall and HGUM on minimum 8"-thick wall. (Nominal values for GFCMU.)
- Titen HD® anchors may be installed into the head or bed joints.
- SDS screws may be installed through metal truss plates as approved by the Truss Designer, provided the requirements of ANSI/TPI 1-2014, Sections 7.5.3.4 and 8.9.2 are met (predrilling required through the plate using a ⁵/₁₆" bit maximum).
- For stainless-steel LGUM and HGUM models, use ³/₈" x 5" and ⁵/₈" x 6" Type 316 stainless-steel Titen HD anchors, respectively, to achieve tabulated loads.
- Fasteners:** SDS screws are Simpson Strong-Tie Strong-Drive® SDS Heavy-Duty Connector screws. See pp. 23–24 for fastener information.

LGUM/HGUM

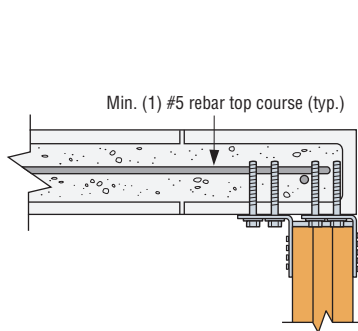
Heavy-Duty Face-Mount Beam/Girder Hangers for Concrete and GFCMU (cont.)

These products are available with additional corrosion protection. For more information, see p. 16.

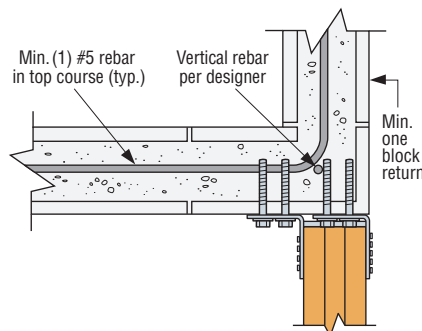
SS For stainless-steel fasteners, see p. 23.

Concealed Flange — Allowable Loads with One Flange Concealed

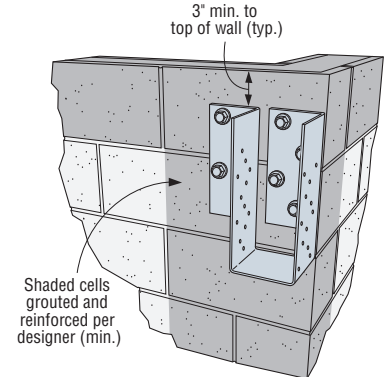
Model No.	W (in.)	H (in.)	Fasteners		End of Wall				Outside Corner	
			GFCMU and Concrete	Joist	GFCMU Wall DF/SP/SCL Beam		Concrete Wall DF/SP/SCL Beam		GFCMU and Concrete Wall DF/SP/SCL Beam	
			Titen HD® Anchors	SDS Screws	Uplift (160)	Download	Uplift (160)	Download	Uplift (160)	Download
SS HGUM	5¼ to 9	11 to 30	(8) ⅝" x 5"	(24) ¼" x 2½"	1,285	5,750	3,150	7,025	3,150	7,555



Typical Concealed Flange
HGUM Installation
at End of Wall



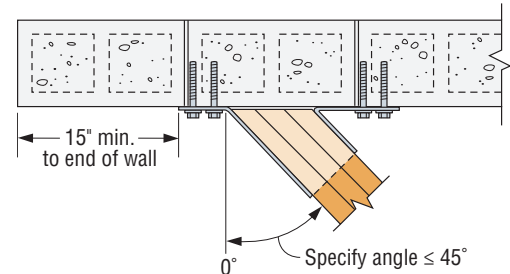
Typical Concealed Flange
HGUM Right Installation
at Outside Corner



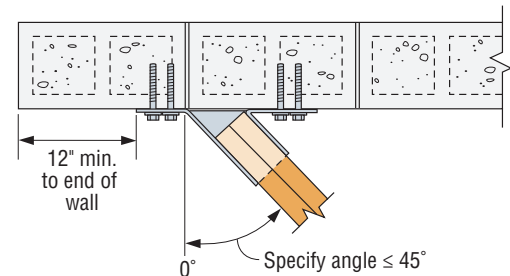
Typical Concealed
Flange HGUM Installation
at Outside Corner
(concealed right shown)

LGUM/HGUM Allowable Loads for Skewed (L/R) Applications

Model No.	Fasteners		Allowable Loads GFCMU and Concrete	
	GFCMU and Concrete	Joist	(DF, SP, LVL, PSL, LSL)	
	Titen HD® Anchors	SDS Screws	Uplift (160)	Download (100/115/125)
SS LGUM26-2X	(4) ⅝" x 4"	(4) ¼" x 2½"	565	1,965
SS LGUM26-3X				
SS LGUM26-4X				
SS LGUM46X				
SS LGUM28-2X	(6) ⅝" x 4"	(6) ¼" x 2½"	1,085	3,080
SS LGUM28-3X				
SS LGUM28-4X				
SS LGUM48X				
SS LGUM210-2X	(8) ⅝" x 4"	(8) ¼" x 2½"	1,605	4,190
SS LGUM210-3X				
SS LGUM210-4X				
SS LGUM410X				
SS HGUM5.25X	(8) ⅝" x 5"	(8) ¼" x 2½"	1,430	6,455
SS HGUM5.50X				
SS HGUM7.00X	(8) ⅝" x 5"	(8) ¼" x 2½"	1,440	5,820
SS HGUM7.25X				
SS HGUM9.00X	(8) ⅝" x 5"	(8) ¼" x 2½"	1,445	5,185



Top View HGUM Skewed Right
Bevel Cut



Top View LGUM Skewed Right
Square Cut

1. For stainless-steel LGUM and HGUM models, use ⅝" x 5" and ⅝" x 6" Type 316 stainless-steel Titen HD anchors, respectively, to achieve tabulated loads.