HGA & HGAM

PRODUCT FEATURES:

Hurricane Gusset Angles (HGA/HGAM) are 90-degree framing angles used to connect truss/rafter joists to the top plate of wood framing walls or to the top of concrete filled CMU walls.

The HGAKT and HGAMKT includes HGA framing angle and wood screws for wood framing applications and HGA framing angle, wood screws and concrete screws for concrete/CMU applications, respectively.

MATERIAL:

HGA - 14 Gauge

COATING:

Galvanized (G185)

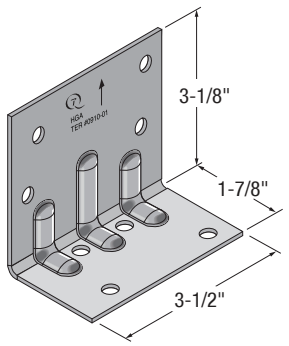
INSTALLATION:

- Use all specified fasteners in schedule to achieve values indicated.

CODE COMPLIANCE:

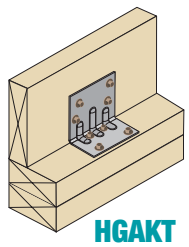
TER 0910-01; FL 3557

Part No.	Description	Carton Qty
HGAKT	HGA, 1/4" x 1-1/2" Wood Screws & 1/4 x 3" Wood Screws	10
HGAMKT	HGA, 1/4" x 1-1/2" Wood Screws & 1/4 x 2-1/4" Concrete Screws	10

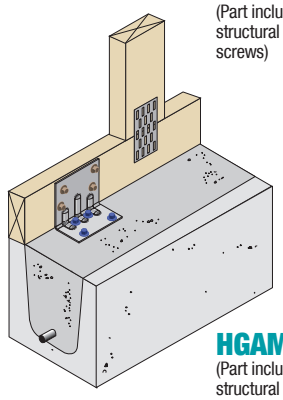


HGA/HGAM





HGAKT
(Part includes structural wood screws)



HGAMKT
(Part includes structural wood screws and concrete screws)

ALLOWABLE LOADS FOR HGA & HGAM (LB)

	Fasteners[4,5,6]				Allowable Loads (lb)[1,2,3]							
	To Rafter/Truss		To Top Plate or Concrete		Douglas Fir-Larch (0.50)				Spruce-Pine-Fir (0.42)			
					Uplift	F1	F2	F3	Uplift	F1	F2	F3
	Type	Quantity	Type	Quantity	1	1.6	1.6	1.6	1	1.6	1.6	1.6
HGA	SWH15 Wood Screw (1/4" x 1-1/2")	4	SWH3 Wood Screw (1/4" x 3")	4	1,085	1,085	895	1,150	740	695	420	825
HGAM	SWH15 Wood Screw (1/4" x 1-1/2")	4	Concrete Screw (1/4" x 2-1/4")	4	815	1,005	955	1,005	815	805	505	825

NOTES:

1. Loading in the F1 direction indicates shear forces parallel to the plane of the wall.
2. Loading in the F2 direction indicates shear forces perpendicular to the plane of the wall, acting towards the gusset angle.
3. Loading in the F3 direction indicates shear forces perpendicular to the plane of the wall, acting away from the gusset angle.
4. Minimum fastener penetration must be equal to the screw length less the thickness of the metal side plate.
5. Refer to page 61 for structural wood screw SWH15 (1/4" x 1-1/2") and SWH3 (1/4" x 3") details.
6. Concrete Screw: Minimum Allowable Tension (T) and Shear (S) Capacities When Installed in Concrete, T = 204 lb and S = 219 lb, Min. Edge Distance = 2", Min. Spacing = 1", Min End Distance = 2.65", Min. Embedment = 1½", Min. Concrete Compression Strength, f'_c = 2,500 psi, Load combination 1.2D+1.6L with D = 0.3, L = 0.7 and α = 1.48.

TOP MOUNT HEAVY BEAM HANGERS (TFHBH)

PRODUCT FEATURES:

Top Flange Header Beam Hangers (TFHBH) are heavy header-to-beam connectors used for supporting and transferring high loads from the LVL, LSL and PSL beams to the header.

MATERIAL:

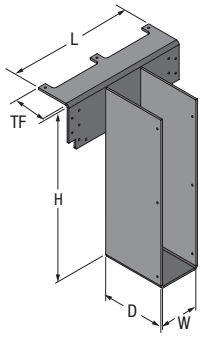
TFHBH35X – 7 ga
TFHBH55X – 7 ga (Saddle) & 3 ga (Top Flange)

COATING:

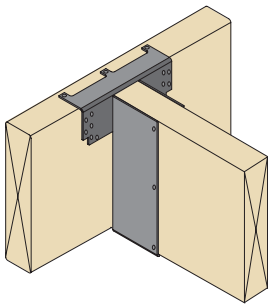
Spray Painted Primer (gray)

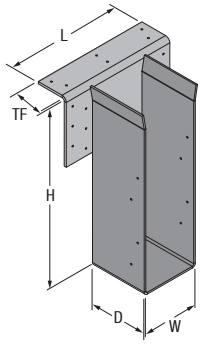
CODE COMPLIANCE:

Call QT for code approval information.



TFHBH35X





TFHBH55X

ALLOWABLE LOADS FOR TOP MOUNT HEAVY BEAM HANGERS (LB)*

Part No.	Hanger Dimensions (in.)					Fastener Quantity					Allowable loads (lb)*	
						Header			Joist		SP (0.55) / DF-L (0.50)	
	Height, H	Width, W	Depth, D	Length, L	Top Flange TF	Top	Face	Type	Qty	Type	Gravity (C_D = 1.0)	Uplift (C_D = 1.6)
TFHBH3512	12	3-5/8	6	12	3-1/8	3	12	16d	6	16d	10,545	1,490
TFHBH3514	14											
TFHBH3516	16											
TFHBH3518	18											
TFHBH3520	20											
TFHBH3595	9-1/2											
TFHBH5514	14	5-9/16	6	12	3-1/8	6	12	16d	8	16d	10,545	1,490
TFHBH5516	16											
TFHBH5518	18											

*For other sizes, contact QT. Allowable loads per NDS nail calculations, call QT for code approval information.