

# Wood Connectors



## Hurricane Gusset Angles

### 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.

#### MATERIAL:

HGA & HGAM - 14 Gauge

#### COATING:

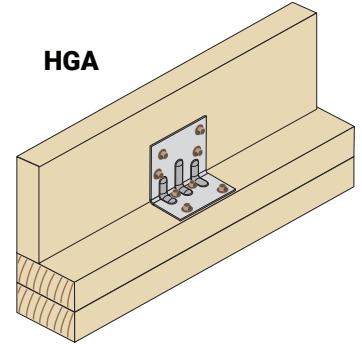
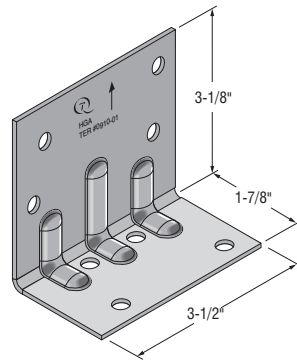
Galvanized (G185)

#### INSTALLATION:

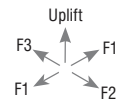
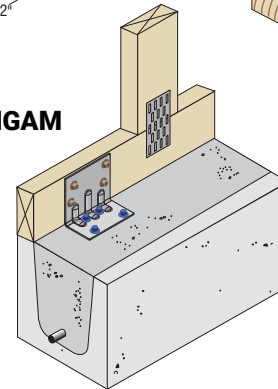
Use all specified fasteners in schedule to achieve values indicated

#### CODE COMPLIANCE:

TER 0910-01; FL 3557



### HGAM



## ALLOWABLE LOADS FOR HGA & HGAM (LB)

Species Group (Specific Gravity)	Fasteners <sup>4</sup>				Allowable Loads (lb)			
	To Rafter/Truss		To Wood or Concrete		Uplift	F1 <sup>1</sup>	F2 <sup>2</sup>	F3 <sup>3</sup>
	Type <sup>5</sup>	Quantity	Type <sup>6,7</sup>	Quantity	Load Duration Factor			
					1.60	1.60	1.60	1.60
Douglas Fir-Larch (0.50)	1 1/4" x 1 1/2" (Note 8)	4	Wood, 1/4" x 3" (Note 10)	4	1085	1160	955	1150
			Concrete, 1/4" x 2 1/4" (Note 12)	4	815	1005	955	1005
Spruce-Pine-Fir (0.42)	1 1/4" x 1 1/2" (Note 9)	4	Wood, 1/4" x 3" (Note 11)	4	740	805	505	825
			Concrete, 1/4" x 2 1/4" (Note 12)	4	815	805	505	825

#### NOTES:

- Loading in the F1 direction indicates shear forces parallel to the plane of the wall.
- Loading in the F2 direction indicates shear forces perpendicular to the plane of the wall, acting towards the gusset angle.
- Loading in the F3 direction indicates shear forces perpendicular to the plane of the wall, acting away from the gusset angle.
- Minimum fastener penetration must be equal to the screw length less the thickness of the metal side plate.
- Minimum Specified Wood Screw Requirements: Major Diameter = 0.25", Minor (Root) Diameter = 0.185", Thread Length (including tip) = 1.25", Bending Yield Strength = 180,000 psi
- Minimum Specified Masonry Screw Requirements: Major Diameter = 0.25", Thread Length = 1.75", Min.  $F_y$  and  $F_u$  = 80,000 psi and 100,000 psi
- Minimum Reference Lateral Design Value (Z) = 182 lbs, Minimum Reference Withdrawal Value (W) = 164 lbs/in
- Minimum Reference Lateral Design Value (Z) = 136 lbs, Minimum Reference Withdrawal Value (W) = 103 lbs/in
- Minimum Reference Lateral Design Value (Z) = 244 lbs, Minimum Reference Withdrawal Value (W) = 179 lbs/in
- Minimum Reference Lateral Design Value (Z) = 210 lbs, Minimum Reference Withdrawal Value (W) = 126 lbs/in
- 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 = 1-1/2", Min. Concrete Compression Strength,  $f'_c$  = 2,500 psi, Load combination 1.2D+1.6L with D = 0.3, L = 0.7 and  $\alpha$  = 1.48.