

# Wood Connectors



## Hurricane Anchors and Twist Straps

HA4, HA6, HA8, HA10, QGC, MTS-3Z & HTS-3Z

### PRODUCT FEATURES:

Hurricane Anchors (HA4, HA6, HA8 & HA10) add increased resistance to wind uplift. HA's reduces toe-nailing, utilizing correctly located nail holes for fast, easy and strong attachment of rafters and trusses to plates and studs. The QuickTie Girder Connectors (QGC & QGCW) are used for girder truss connections where uplift load requirements are high.

The Medium Twist Straps (MTS) and Heavy Twist Straps (HTS) are used to resist wind uplift and manufactured in lengths of 16", 20", 24" and 28". The straps have an offset shape to allow for twisting and bending. Each strap is 1-1/4" wide with nail holes (staggered across the width) punched at 1" along its length.

### MATERIAL:

HA4, HA6, HA8 & HA10 - 18 Gauge

QGC - 12 Gauge

MTS-3Z - 16 Gauge

HTS-3Z - 14 Gauge

### COATING:

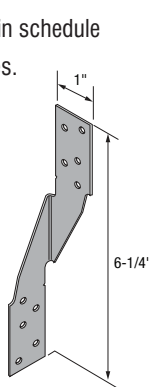
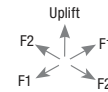
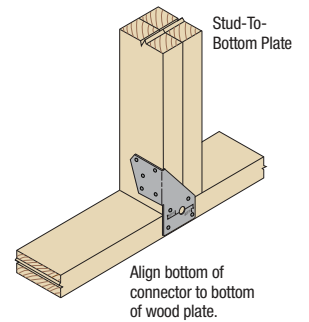
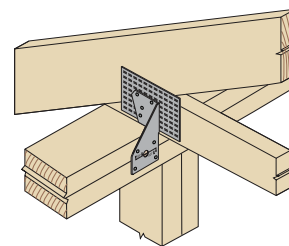
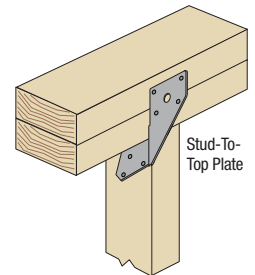
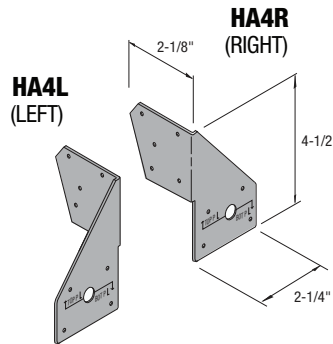
Galvanized (G185)

### INSTALLATION:

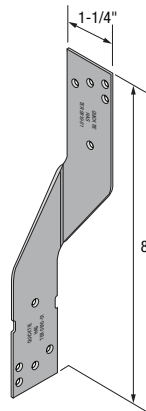
- Use all specified fasteners in schedule to achieve the tabulated values.

### CODE COMPLIANCE:

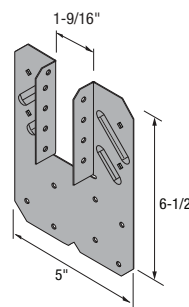
TER 0910-01; FL 3557



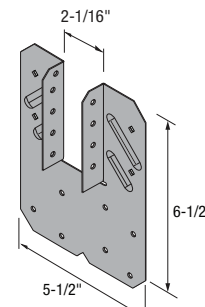
HA6



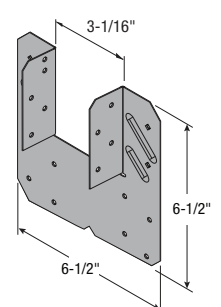
HA8



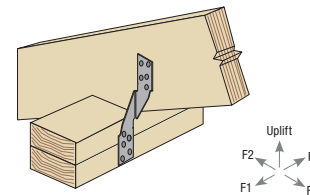
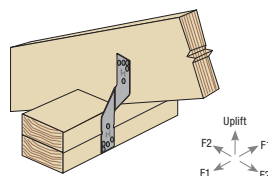
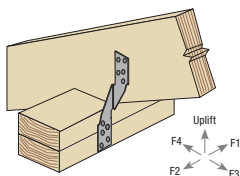
HA10

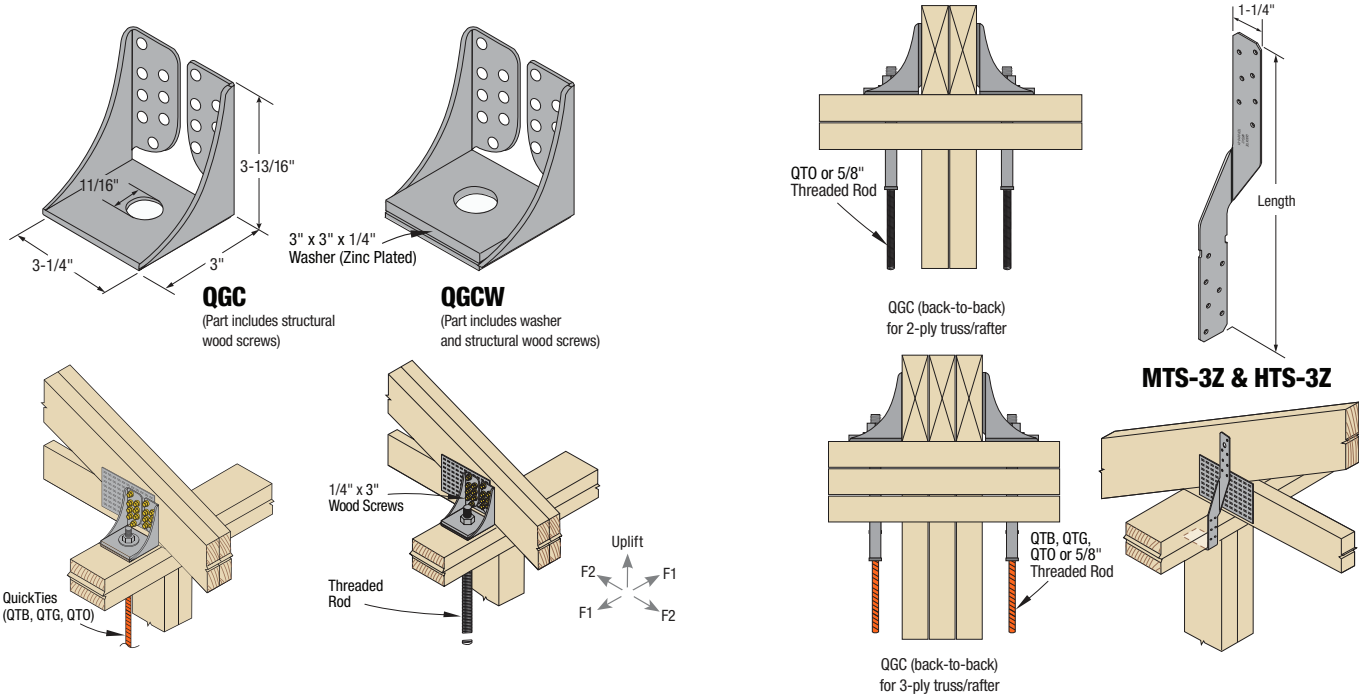


HA10R



HA10-2





## ALLOWABLE LOADS FOR HA4, HA6, HA8, HA10 & QGC<sup>1,2</sup> AND MTS & HTS (LB)<sup>5,6,7</sup>

Products	Type	Fasteners		Southern Pine (SG = 0.55)						Douglas Fir-Larch (SG = 0.50)					Spruce-Pine-Fir (SG = 0.42)							
		Rafter/Truss <sup>3</sup>	Plates <sup>4</sup>	Uplift						Uplift					Uplift							
				1.0	1.6	F1	F2	F3	F4	1.0	1.6	F1	F2	F3	F4	1.0	1.6	F1	F2	F3	F4	
HA	HA4	8d x 1-1/2 (0.131 x 1.5")	5	4	-	662	180	120	-	-	-	599	158	120	-	-	-	514	135	106	-	-
		10d x 1-1/2 (0.148 x 1.5")			-	662	180	120	-	-	-	599	158	120	-	-	-	514	135	106	-	-
	HA6	8d x 1-1/2 (0.131 x 1.5")	5	5	520	650	145	140	70	90	480	600	125	125	60	80	415	515	80	100	45	65
	HA8	8d x 1-1/2 (0.131 x 1.5")	5	5	-	600	61	-	-	-	-	600	61	-	-	-	-	485	61	-	-	-
		10d x 1-1/2 (0.148 x 1.5")	5	5	-	815	94	-	-	-	-	705	69	-	-	-	-	540	69	-	-	-
HA10 HA10R HA10-2	10d x 1-1/2 (0.148 x 1.5")	9	8	1,005	1,140	560	335	-	-	930	1,055	515	310	-	-	800	910	335	220	-	-	
	10d Common (0.148 x 1.5")			1,005	1,140	560	330	-	-	930	1,245	515	280	-	-	800	1,075	335	230	-	-	
GC	QGC	1/4" Wood Screw (included)	145	(1) QTB	1,910	1,910	-	-	-	-	1,910	1,910	-	-	-	-	1,910	1,910	-	-	-	-
				(1) QTG	3,180	3,180	-	-	-	-	3,180	3,180	-	-	-	-	3,180	3,180	-	-	-	-
				(1) QTO	4,350	4,455	2,040	935	-	-	4,015	4,455	1,910	885	-	-	3,465	4,390	1,570	765	-	-
QGCW	1/4" Wood Screw (included)	90	(1) 5/8" Threaded Rod	4,350	5,445	1,235	770	-	-	4,015	5,085	1,185	705	-	-	3,465	4,455	1,090	550	-	-	
QGC/QGCW	1/4" Wood Screw (included)	480	(2) QTO or (2) 5/8" Threaded Rods	8,715	8,715	-	-	-	-	8,450	8,450	-	-	-	-	7,295	7,295	-	-	-	-	
MTS	MTS12-3Z MTS16-3Z MTS20-3Z MTS24-3Z	8d x 1-1/2 (0.131 x 1.5") 10d x 3 (0.148 x 3")	14 <sup>8</sup>	7 <sup>9</sup>	896	1,085	-	-	-	-	825	1,000	-	-	-	-	715	865	-	-	-	-
					917	1,085	-	-	-	-	825	1,000	-	-	-	-	715	865	-	-	-	-
					1,257	1,257	-	-	-	-	1,340	1,540	-	-	-	-	1,160	1,330	-	-	-	-
HTS	HTS16-3Z HTS20-3Z HTS24-3Z HTS28-3Z	10d x 1-1/2 (0.148 x 1.5") 10d x 3 (0.148 x 3")	22 <sup>8</sup>	11 <sup>9</sup>	1,262	1,262	-	-	-	-	1,340	1,540	-	-	-	-	1,160	1,330	-	-	-	-
					1,262	1,262	-	-	-	-	1,340	1,540	-	-	-	-	1,160	1,330	-	-	-	-

### NOTES:

- Clips may be installed on both sides of the framing member for twice the load. QGC/QGCW may be installed on both sides (back-to-back) of the 3-ply rafter/truss for twice the load.
- The tabulated loads are valid for clips installed on the inside or the outside of the wall. However, to maintain a continuous load path for uplift, connections in close proximity to one another, such as truss-to-plate and plate-to-stud, clips should be installed on the same side of the wall.
- Nails attaching clip to rafter or truss:  
HA4, HA6 & HA8 = 8d x 1-1/2" (0.131 x 1.5") or 10d x 1-1/2" (0.148 x 1.5"); HA10 = 10d x 1-1/2" (0.148 x 1.5"); QGC = 1/4" x 3" Wood Screw.
- Nails attaching clip to wall plates:  
HA4 & HA8 = 8d (0.131 x 2.5") or 10d (0.148 x 3"); HA6 = 8d x 1-1/2" (0.131 x 1.5"); HA10 = 10d x 1-1/2" (0.148 x 1.5") or 10d Common (0.148 x 3"); QGC = QTO or 5/8" Threaded Rod.
- Straps do not have to be wrapped over the truss or rafter to achieve the loads shown.
- Straps may be installed on either side of the framing member.
- The number of fasteners shown in the table is the minimum required to achieve the loads shown.
- Minimum nails required per strap.
- Minimum nails at each end of the strap.