

Attaching Cupola Base to Roof

The A.B. Martin Cupolas are meant to be fastened using 2 inch minimum #10 ZXL MB WoodBinder screws fastened through the cupola base - lined on the roof side with EMSeal - through every rib of the roof below and into 2 x 10 Yellow Pine.

ZXL MB WoodBinder (40-year Screw)

- Designed to fasten steel roofing to wood purlins used in post-frame construction, plywood or OSB used in residential construction.
- 5/16" cupped HWH with a molded ZAMAC 5 Zinc-Aluminum alloy provides lifetime protection against red rust on the head & washer.
- The ZAMAC 5 alloy provides more strength than more common ZAMAC 3 alloy. You may obtain a free copy of the written warranty upon request.
- ZXL is an excellent choice for GALVALUME & other long-life metal roof panels.
- Threads transition from fine to coarse to generate superior holding strength in various wood substrates.
- Micro-Bit point reduces metal shavings that can embed themselves in the rubber washer.

PULL OUT STRENGTH <i>LBS. ULT.</i>				
SUBSTRATE	PENETRATION	10-16/8 VALUE	STITCH VALUE	
3/4" PLY		636		
5/8" PLY		441	297	
1/2" PLY		368	329	
7/16" OSB		210	217	
2 X Y. PINE*	1"	713	495	
2 X Y. PINE*	FULL	1526		
2 X SPF*	1"	466	162	
2 X SPF*	FULL	1216		

PULL OVER STRENGTH <i>LBS. ULT.</i>				
SUBSTRATE	GAUGE	THICKNESS	10-16/8 VALUE	STITCH VALUE
AZ55 Galvalume	29	.015	658	378
AZ55 Galvalume	26	.019	927	629
AZ55 Galvalume	24	.024	1035	721
AZ55 Galvalume	22	.032	1386	

Pull over values are calculated with a EPDM rubber washer assembled to cupped head screw with a .500" washer face.



HEAD STYLE
5/16" CHWH
POINT DIAMETER
Micro-Bit
MAJOR DIAMETER
.210/.200
MINOR DIAMETER
.130/.126
WASHER FACE DIAMETER
0.5
HEAD ACROSS FLATS
.311/.305
ULT. TENSILE STRENGTH
1585 LBS.
MIN. TORSIONAL STRENGTH
60 IN-LBS.
NOM. SHEAR STRENGTH
1574 LBS.

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