



**MATERIAL SPECIFICATION**  
 ZAM ANTI CORROSION FINISH FROM  
 HIGH TENSILE STEEL (AS1397)  
 GRADE G550/190C 0.75mm BMT  
 LENGTH 7.5m. MITRED BOTH ENDS (L & R)  
 AS NECESSARY AT HIP / VALLEYS,  
 LAP 100 AS REQUIRED.

**NOTES:-**

- BATTEN SPACINGS MUST NOT EXCEED ALLOWABLE SHEETING SPANS - CROSSCHECK BEFORE SPECIFYING.**
- FOR FIXING TO TIMBER TRUSSES ONLY.
- FIXING RECOMMENDATIONS:**  
 FOR TIMBER ENGINEERED TRUSSES INTO HARDWOOD JOINT GROUP 1 OR JOINT GROUP 2  
 12 x 50 TYPE 17 SELF DRILLING SCREWS AT EACH BEARING JOINT ( ONE EACH FLANGE). 21mm MIN. EDGE DISTANCE.  
 21mm MIN. RAFTER / TRUSS TOP CHORD WIDTH).
- SPACING CHARTS WERE DERIVED FROM TESTS REPORT TS637 JULY 2006 "LOW-HIGH-LOW" TESTING OF 40mm ZAM BATTENS.
- SPAN TABLE IS BASED ON WIND LOADS TO AS/NZS1170.2 - 002 USING THE FOLLOWING PARAMETERS:-  
 - AVERAGE BUILDING HEIGHT 10m MAXIMUM.  
 - IMPORTANCE CLASS 2 BUILDINGS (50 YEAR RP)  
 -  $M_d = M_s = M_e = M_h = 1.0$   
 -  $K_c = K_a = K_p = 1.0$   
 -  $M_{zcat} = 1.0$  (TC 2)  
 -  $M_{zcat} = 0.945$  (TC 2.5)  
 -  $M_{zcat} = 0.89$  (TC 3)  
 -  $K_l = 1.0$  SUCTION GENERAL AREAS  
 -  $K_l = 1.5$  SUCTION (EDGE TO  $1.0a$ ) } WHERE  $a$  IS THE MINIMUM OF  $0.2 \times$  BUILDING WIDTH OR  
 -  $K_l = 2.0$  SUCTION (EDGE TO  $0.5a$ ) }  $0.2 \times$  BUILDING LENGTH OR AVERAGE BUILDING HEIGHT
- BATTEN SPACING TABLE IS BASED ON TRIPLE SPAN ARRANGEMENTS. FOR DOUBLE SPAN ARRANGEMENTS REDUCE SPACINGS TO 80% OF TABULATED VALUES.
- RECOMMENDED MAXIMUM CANTILEVER LENGTH IS 300mm UNLESS STIFFENED.
- TOTAL PRESSURE COEFFICIENTS ADOPTED ARE:-  
 GENERAL ROOF AREA = -1.6  
 WITHIN 'a' LOCAL PRESSURE ZONE -2.05  
 WITHIN  $\frac{1}{2}$  LOCAL PRESSURE ZONE -2.5
- PROJECTS WITH DESIGN PARAMETERS OUTSIDE THESE VALUES SHALL BE REFERRED TO A SUITABLE QUALIFIED ENGINEER.

**BATTEN SPACING TABLE**

BATTEN LOCATION	EDGE TO 0.5a (Kl = 2.0)			EDGE TO 1.0a (Kl = 1.5)			GENERAL (Kl = 1.0)		
	600	900	1200	600	900	1200	600	900	1200
TRUSSES / RAFTERS SPACING	600	900	1200	600	900	1200	600	900	1200
REGION 'C' - TERRAIN CAT									
TC 1 & 2 - BATTEN SPACINGS	750	700	500	900	800	600	1150	1050	800
TC 2.5 - BATTEN SPACINGS	850	750	550	1000	900	700	1300 *	1200	900
TC 3 - BATTEN SPACINGS	950	850	600	1150	1050	800	1450 *	1350 *	1000

LINEAR INTERPOLATION WITHIN THE TABLE IS APPLICABLE.

BATTEN SPACINGS MARKED THUS \* TO BE AVOIDED AND CHECKED AGAINST ALLOWABLE SPANS FOR ROOF SHEETING.

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Manufacturers details



ZAM G550 0.75BMT battens fixed into Hardwood Trusses for building structures to 10m Max. height

Engineers certification

P.W. RUSSELL

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12653 ES

**DESIGN DATA SHEET**

*26/8/07* M/139/1  
 BASB CONCURRENCE DATE DRAWING NUMBER.