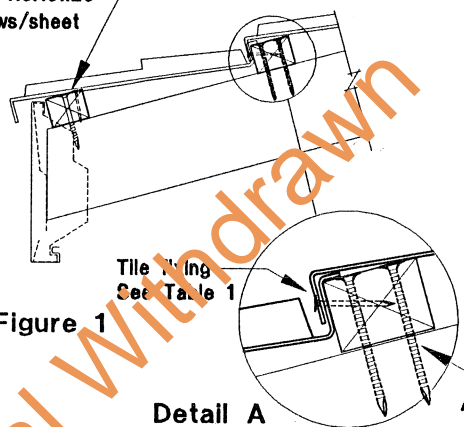


INTRODUCTION

This design data sheet is a guide to the fixing of Savanna Steel Shingle Tile Roofing by Tasman Roofing Australia Pty. Ltd. in cyclonic regions.

Top fixing of first sheet to batten - 7-No.10x25 type 17 screws/sheet



BASIC WIND DESIGN CRITERIA

AS 1170. Part 2, Region C
 Basic wind velocity Vu= 70 m/sec
 Design wind velocity Vz= Mz(cat) x1.0x1.0x1.0x70 m/sec

MATERIAL SPECIFICATION

Savanna Steel Shingle tiles are manufactured from the following materials: 0.39mm BMT (0.46mm TCT) G250 steel, zincalume coated. Proprietary oven baked acrylic coating after tile fabrication.

BATTEN FIXING/SPACINGS

Batten fixing as shown in Figure 1, Details A & B
 Batten spacing is shown in Figure 2.
 Truss or rafter spacings are given in Table 1. with a maximum spacing of 1200 adopted for 50 x 38 hard wood batten (mm, Ft.)
 Min. 35mm penetration of nail and screw fixings into support truss or rafter
 Butt splice batten centrally over support, fix with one nail or screw each side of splice, angle nails and/or pre-drill to avoid splitting. Stagger splice locations.

Batten fixing See Table 1
 A = 2No. 75x3.15 dia. annular nails.
 OR 1No. 10x75 type 17 countersunk head screw.

TILE POSITIONING

Tile sections should be laid on battens with laps staggered two or more modules apart. See Figure 4 (sheet 2)

Table 1: Tile Nailing / Maximum Truss or Rafter Spacing

Terrain Category	Roof area local pressure factor (KL (ex. AS1170.2)	Ultimate design uplift wind pressure (kPa) for building heights			Number of fixings per tile lip for building heights			Maximum truss or rafter spacing (mm) for building heights			Fixing of 50x38 hard wood battens See figure 1		
		0-3m	3-6m	6-10m	0-3m	3-6m	6-10m	0-3m	3-6m	6-10m	0-3m	3-6m	6-10m
2.0	1.0	4.0	4.0	5.0	7	7	7	1200	1200	1200	A	A	A
	1.5	5.1	5.3	6.3	7	7	7	1200	1200	1200	A	A	A
	2.0	6.2	7.0	7.6	7	●	X	1200	1155	1110	A	A	A
2.5	1.0	3.8	4.0	4.5	7	7	7	1200	1200	1200	A	A	A
	1.5	4.6	5.0	5.7	7	7	7	1200	1200	1200	A	A	A
	2.0	5.5	6.1	6.9	7	7	●	1200	1200	1165	A	A	A

Notes to table 1.

- Maximum design uplift wind pressure has been calculated on the basis of AS1170.2 with Cpe= -0.9, Cpi = +0.8
- Number of fixings indicated by "●", means that where Cpi ≤ +0.7, a 7 nail fixing may be used.
- Number of fixings indicated by "X", means test data does not cover the ultimate design pressure.
- Information for design data related to batten fixing has been calculated with reference to the following standards:
 Wind Loading code AS1170, Part 2 - 1989
 Timber code AS1720 - 1988
- For general housing :-
 A guide to roof area notation: Roof areas where KL = 1.5 or 2.0 are perimeter areas of roof consisting of the top four and bottom four courses of tiles and within one tile length from hips and barges. Roof area where KL= 1.0 covers the remainder of the roof. Refer to AS 1170.2 Figure 3.4.5. for extent of local pressure factor areas

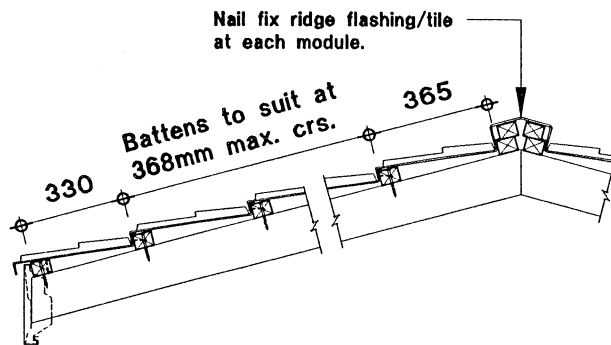


Figure 2

Savanna Steel Shingle Sheet 1 of 2

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The Association of Consulting Engineers Australia

SAVANNA STEEL SHINGLE ROOFING SYSTEM
 for fixing to timber battens

Tasman Roofing Australia Pty. Limited
 ACN 081 835 092

DESIGN DATA SHEET

APPROVED DATE M/102/8 And/- DRAWING NUMBER.