

INTRODUCTION

This design data sheet is a guide to the fixing of Savanna Colortile Roofing by Carter Holt Harvey Roofing in cyclonic regions.

BASIC WIND DESIGN CRITERIA

AS 1170. Part 2, Region C
 Basic wind velocity Vp= 57 m/sec
 Design wind velocity Vz= Mz(cat) x1.0x1.0x1.0x57 m/sec

MATERIAL SPECIFICATION

Savanna Colortiles 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 40 hard wood batten (Min F11)
 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.

TILE POSITIONING

Tile sections should be laid on battens with laps staggered two or more modules apart. See Figure 1, sheet 2)

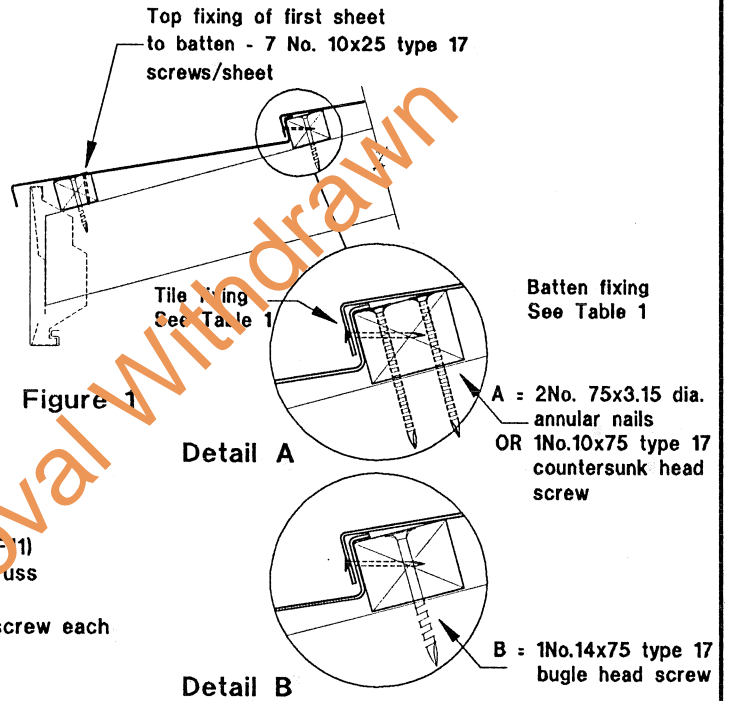
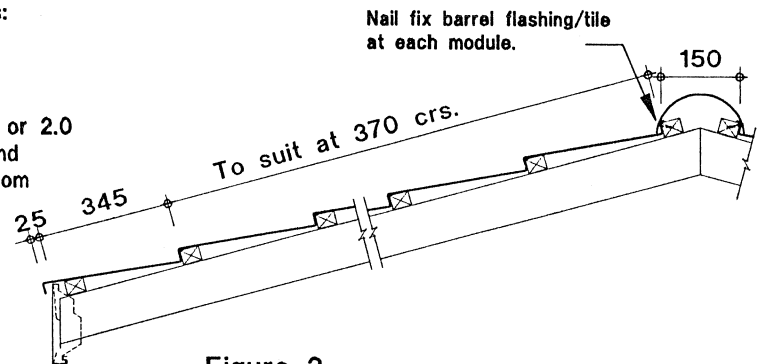


Table 1: The Nailing / Maximum Truss or Rafter Spacing

Terrain Category	Roof area local pressure factor K1 (ex. AS1170.2)	Maximum design uplift wind pressure (kPa) for building heights			Number of fixings per tile for building heights			Maximum truss or rafter spacing (mm) for building heights			Fixing of 50x40 hard wood battens See figure 1		
		0-5m	5-10m	10-15m	0-5m	5-10m	10-15m	0-5m	5-10m	10-15m	0-5m	5-10m	10-15m
2.0	1.0	3.0	3.3	3.8	4	4	7	1200	1140	1065	A	A	A
	1.5	3.8	4.2	4.8	7	7	7	1065	1010	950	A	A	A
	2.0	4.6	5.1	5.8	7	7	xx	970	920	865	A	A	B
2.5	1.0	2.5	3.0	3.4	4	4	4	1200	1200	1125	A	A	A
	1.5	3.2	3.7	4.3	4	7	7	1160	1080	1000	A	A	A
	2.0	3.9	4.5	5.2	7	7	7	1050	980	910	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
- xx Use 7 off No. 12 x 45 Type 17 screws based on Cyclone Testing Station Report No TS431 (allowable pressure up to 10kPa)
- 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 K1 =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 K1 =1.0 covers the remainder of the roof. Refer to AS 1170.2 Figure 3.4.5. for extent of local pressure factor areas



Amendment B - Batten fixing details & revised butt splice fixing
 Amendment A - Batten butt splice fixing provision

Figure 2

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SAVANNA™ COLORTILE ROOFING

Carter Holt Harvey Roofing Australia Pty. Ltd.

DESIGN DATA SHEET

ACN 000 040 023

APPROVED

DATE

M/102/1
 DRAWING NUMBER.