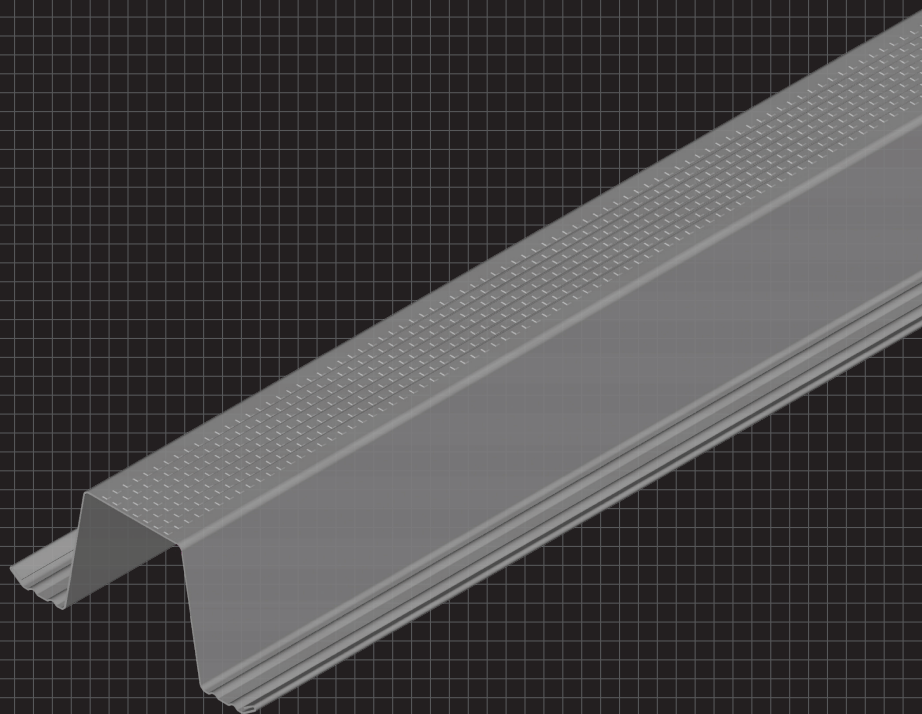




TECHNICAL SUPPLEMENT

NEW **Stramit** **Roof Batten**

**SUPPLEMENT
FOR ROOF
BATTEN**

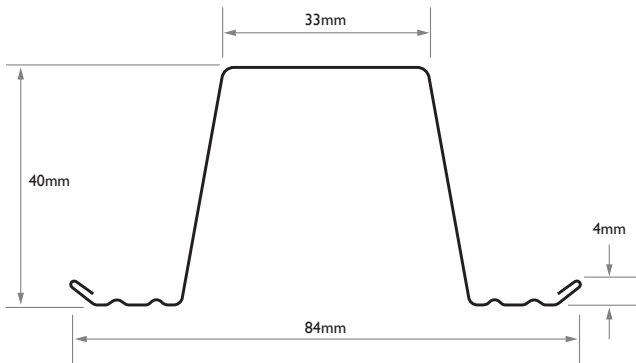


**FOR USE IN
NON-CYCLONIC AREAS**

Introduction

Stramit has a new range of economical 40mm high roof battens for use in non-cyclonic areas. The batten incorporates a safety edge and is made of 0.55mm or 0.48mm (Victoria only) BMT G550 steel with AM150/AZ150 coating in accordance with ASI 397 - 2011.

The roof battens have been developed specifically for domestic applications but may also be used in small commercial structures. The information in this brochure should be read in conjunction with the Stramit® Tophat and Batten Product Technical Manual.



Features

- High tensile steel – for high strength and low weight
- Quality products – with Stramit’s proven record for manufacture and supply
- Limit-state design data – for fully conforming designs
- Fully tested – for technical confidence
- Rolled safety edges – to enhance user confidence
- Knurled anti-slip top surface – for easier fastening

Adverse Conditions

Stramit® battens will give excellent durability in most applications. In exposed conditions, unwashed areas subject to salt laden air or other corrosive matter may need additional protection. These battens are not recommended for use in enclosed areas within 450mm of moist soil.

Design Data

Stramit recommends that all designs conform to relevant Australian Standards such as ASI 170 series or AS4055, and the NASH Standard Residential and Low-Rise Steel Framing.

All loadings used in deriving the design data are assumed to act uniformly along the top central flange of the batten. At connections to support members, both feet of the batten must be fixed with relevant screws given in the Tables. Foot traffic performance has been derived based on the NASH Standard.

Where the batten is lapped at the ends, remember to allow for an additional 25mm of material beyond the screw line on each side of the support, a total lap of 50mm minimum.

Steps for Design and Selection

The Tables give information on the use of the 0.48mm and 0.55mm BMT roof battens in residential applications. To use the Tables, follow the steps:

Step 1

Note the slope of the roof. If the roof slope is greater than 10 degrees, corner pressures can be neglected and the edge pressures chosen for the corners. The ridge will have edge pressures. Where the slope is no more than 10 degrees, the corner areas of roof must also be considered, but there is no edge pressure at the ridge.

See diagram below Tables to determine wind pressure areas.

Step 2

Determine the Wind Class ranging from N1 to N6 from AS4055. This brochure does not give values for N6, as these battens are not suitable for use in this area, please contact your local Stramit Office for advice.

Step 3

The truss material and spacing should be known. A choice can be made of suitable roof sheeting and thickness if this is not already available.

Step 4

In the Table for the particular batten, from the left columns marked Batten Limitations, choose the particular column for the type of truss material and fasteners, and spacing of trusses. Move down the rows until you get to the wind class for the building, and note down the 5 numbers for various roof areas.

Step 5

In the same Table, move to the right columns marked Sheeting Limitations, and choose the column for the roof sheeting, thickness and fastener configuration. Again move down the rows until you get to the wind class, and note down the 5 numbers for the various areas.

Step 6

For each area of the roof, the value for the batten spacing is the lesser of the values found in steps 4 and 5.

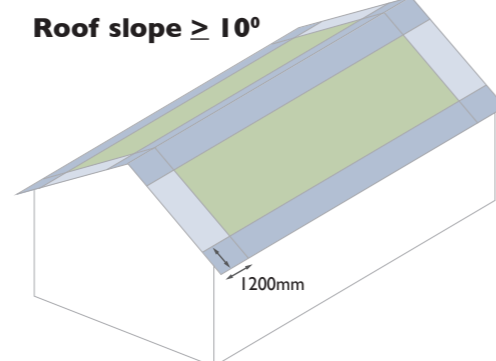
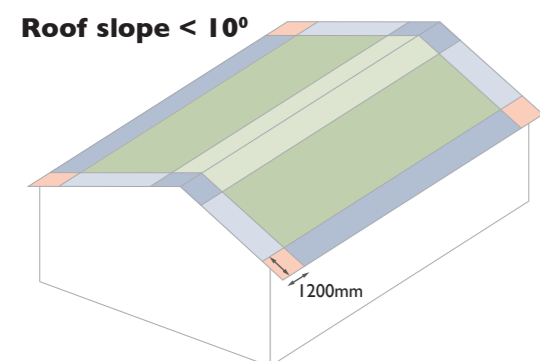
Examples are given below the Tables.

STRAMIT® 0.48 ROOF BATTEN MAXIMUM BATTEN SPACING (mm)

Wind class	Location	Span type	Strength wind pressure (kPa)	Batten limitations					
				Truss spacing (mm), fastening and truss material					
				2 No 12-14x20 screws into Timber or 1.5mm thick G450 steel			2 No 10-16x16mm screws into 1mm thick G550 steel		
				450	600	900	450	600	900
N1	Internal	End	0.69	2250	2250	2250	2250	2250	2250
	Internal	Internal	0.69	2700	2700	2700	2700	2700	2700
	Edge	End	1.25	2250	2250	2250	2250	2250	2250
	Edge	Internal	1.25	2700	2700	2700	2700	2700	2300
	Corner	End	1.81	2250	2250	2250	2250	2250	1590
N2	Internal	End	0.95	2250	2250	2250	2250	2250	2250
	Internal	Internal	0.95	2700	2700	2700	2700	2700	2700
	Edge	End	1.73	2250	2250	2250	2250	2250	1660
	Edge	Internal	1.73	2700	2700	2390	2700	2490	1660
	Corner	End	2.51	2250	2250	1640	2250	1720	1140
N3	Internal	End	1.49	2250	2250	2250	2250	2250	1930
	Internal	Internal	1.49	2700	2700	2700	2700	2700	1930
	Edge	End	2.7	2250	2210	1530	2130	1590	1060
	Edge	Internal	2.7	2700	2210	1530	2130	1590	1060
	Corner	End	3.92	2050	1520	1050	1460	1100	730
N4	Internal	End	2.21	2250	2250	1870	2250	1950	1300
	Internal	Internal	2.21	2700	2700	1870	2600	1950	1300
	Edge	End	4.02	1990	1490	1020	1430	1070	710
	Edge	Internal	4.02	1990	1490	1020	1430	1070	710
	Corner	End	5.83	1370	1020	710	980	740	490
N5	Internal	End	3.25	2250	1840	1270	1770	1320	880
	Internal	Internal	3.25	2470	1840	1270	1770	1320	880
	Edge	End	5.91	1360	1010	700	970	730	480
	Edge	Internal	5.91	1360	1010	700	970	730	480
	Corner	End	8.58	930	690	480	670	500	330

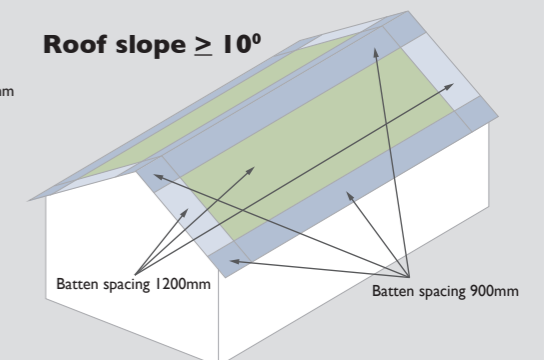
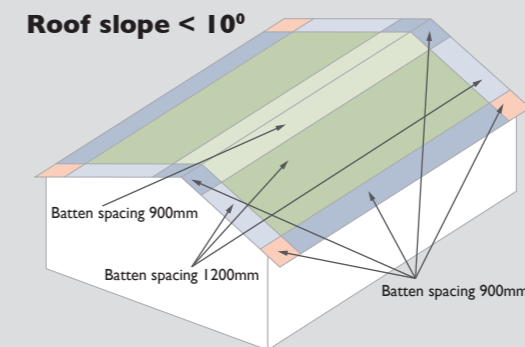
Wind class	Location	Span type	Strength wind pressure (kPa)	Sheeting limitations									
				Stramit sheeting, thickness bmt and Buildex® M6 -1 l x50mm RoofZip® fasteners per sheet per batten									
				Corrugated				Monoclad®		Longspan®			
				0.42		0.48		0.42	0.48	0.42		0.48	
3 scr	5 scr	3 scr	5 scr	4 scr	4 scr	3 scr	5 scr	3 scr	5 scr				
N1	Internal	End	0.69	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Internal	Internal	0.69	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Edge	End	1.25	900	900	1200	1200	1350	1700	1750	1750	1950	2250
	Edge	Internal	1.25	1200	1200	1600	1600	1700	2300	2100	2100	2100	2630
	Corner	End	1.81	900	900	1200	1200	1350	1700	1350	1680	1350	1680
N2	Internal	End	0.95	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Internal	Internal	0.95	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Edge	End	1.73	900	900	1200	1200	1350	1700	1410	1750	1410	1760
	Edge	Internal	1.73	1200	1200	1430	1600	1700	1990	1520	1900	1520	1900
	Corner	End	2.51	900	900	910	1200	1270	1270	970	1210	970	1210
N3	Internal	End	1.49	900	900	1200	1200	1350	1700	1640	1750	1640	2050
	Internal	Internal	1.49	1200	1200	1600	1600	1700	2300	1760	2100	1760	2210
	Edge	End	2.7	850	900	850	1200	1180	1180	900	1130	900	1130
	Edge	Internal	2.7	910	1200	910	1600	1280	1280	970	1220	970	1220
	Corner	End	3.92	580	900	580	1020	810	810	620	770	620	770
N4	Internal	End	2.21	900	900	1030	1200	1350	1450	1100	1380	1100	1380
	Internal	Internal	2.21	1120	1200	1120	1600	1560	1560	1190	1490	1190	1490
	Edge	End	4.02	570	900	570	990	790	790	600	750	600	750
	Edge	Internal	4.02	610	1070	610	1070	860	860	650	810	650	810
	Corner	End	5.83	390	680	390	680	550	550	410	520	410	520
N5	Internal	End	3.25	700	900	700	1200	980	980	750	930	750	930
	Internal	Internal	3.25	760	1200	760	1330	1060	1060	810	1010	810	1010
	Edge	End	5.91	380	680	380	680	540	540	410	510	410	510
	Edge	Internal	5.91	410	730	410	730	580	580	440	550	440	550
	Corner	End	8.58	260	460	260	460	-	-	-	350	-	350

- Internal pressure where slope < 10 degrees, cladding end span
- Internal pressure, cladding internal span
- Edge pressure, cladding end span
- Edge pressure, cladding internal span
- Corner pressure where slope < 10 degrees, cladding end span



Example:
0.48mm BMT Stramit batten, 1.0mm G550 steel trusses at 600mm centres, Corrugated 0.42mm sheeting with 5 fasteners/sheet, N3 wind class

BATTEN SPACING		
Batten Limit	Sheeting Limit	Final
2250	900	900
2700	1200	1200
1590	900	900
1590	1200	1200
1100	900	900

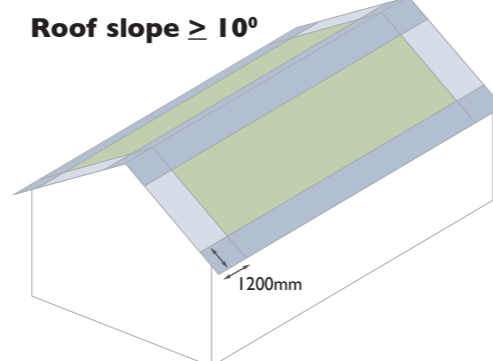
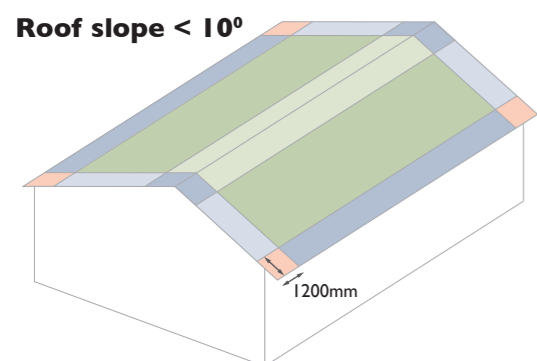


STRAMIT® 0.55 ROOF BATTEN MAXIMUM BATTEN SPACING (mm)

Wind class	Location	Span type	Strength wind pressure (kPa)	Batten limitations							
				Truss spacing (mm), fastening and truss material							
				2 No 12-14x20 screws into Timber or 1.5mm thick G450 steel				2 No 10-16x16mm screws into 1mm thick G550 steel			
				450	600	900	1200	450	600	900	1200
N1	Internal	End	0.69	2250	2250	2250	2250	2250	2250	2250	2250
	Internal	Internal	0.69	2700	2700	2700	2700	2700	2700	2700	2700
	Edge	End	1.25	2250	2250	2250	2250	2250	2250	2250	1840
	Edge	Internal	1.25	2700	2700	2700	2700	2700	2700	2460	1840
	Corner	End	1.81	2250	2250	2250	2040	2250	2250	1700	1270
N2	Internal	End	0.95	2250	2250	2250	2250	2250	2250	2250	2250
	Internal	Internal	0.95	2700	2700	2700	2700	2700	2700	2700	2430
	Edge	End	1.73	2250	2250	2250	2130	2250	2250	1780	1330
	Edge	Internal	1.73	2700	2700	2490	2130	2700	2670	1780	1330
	Corner	End	2.51	2250	2250	1710	1470	2250	1840	1220	920
N3	Internal	End	1.49	2250	2250	2250	2250	2250	2250	2060	1550
	Internal	Internal	1.49	2700	2700	2700	2480	2700	2700	2060	1550
	Edge	End	2.7	2250	2250	1590	1360	2250	1710	1140	850
	Edge	Internal	2.7	2700	2370	1590	1360	2280	1710	1140	850
	Corner	End	3.92	2040	1630	1100	940	1570	1170	780	580
N4	Internal	End	2.21	2250	2250	1950	1670	2250	2090	1390	1040
	Internal	Internal	2.21	2700	2700	1950	1670	2700	2090	1390	1040
	Edge	End	4.02	1990	1590	1070	910	1530	1140	760	570
	Edge	Internal	4.02	1990	1590	1070	910	1530	1140	760	570
	Corner	End	5.83	1370	1100	740	630	1050	790	520	390
N5	Internal	End	3.25	2250	1970	1320	1130	1890	1420	940	710
	Internal	Internal	3.25	2470	1970	1320	1130	1890	1420	940	710
	Edge	End	5.91	1350	1080	730	620	1040	780	520	390
	Edge	Internal	5.91	1350	1080	730	620	1040	780	520	390
	Corner	End	8.58	930	740	500	430	710	530	350	260

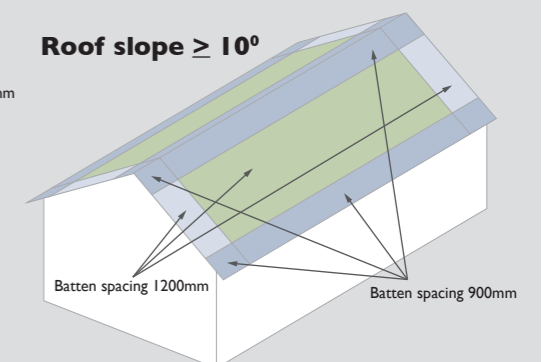
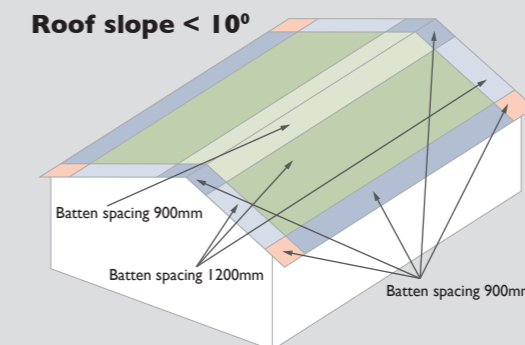
Wind class	Location	Span type	Strength wind pressure (kPa)	Sheeting limitations									
				Stramit sheeting, thickness bmt and Buildex® M6 - 11x50mm RoofZip® fasteners per sheet per batten									
				Corrugated				Monoclad®		Longspan®			
				0.42		0.48		0.42	0.48	0.42		0.48	
3 scr	5 scr	3 scr	5 scr	4 scr	4 scr	3 scr	5 scr	3 scr	5 scr				
N1	Internal	End	0.69	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Internal	Internal	0.69	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Edge	End	1.25	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Edge	Internal	1.25	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Corner	End	1.81	900	900	1200	1200	1350	1700	1750	1750	2090	2250
N2	Internal	End	0.95	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Internal	Internal	0.95	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Edge	End	1.73	900	900	1200	1200	1350	1700	1750	1750	2180	2250
	Edge	Internal	1.73	1200	1200	1600	1600	1700	2300	2100	2100	2350	2700
	Corner	End	2.51	900	900	1200	1200	1350	1700	1500	1750	1500	1880
N3	Internal	End	1.49	900	900	1200	1200	1350	1700	1750	1750	2250	2250
	Internal	Internal	1.49	1200	1200	1600	1600	1700	2300	2100	2100	2700	2700
	Edge	End	2.7	900	900	1200	1200	1350	1700	1400	1750	1400	1750
	Edge	Internal	2.7	1200	1200	1420	1600	1700	1980	1510	1890	1510	1890
	Corner	End	3.92	900	900	900	1200	1260	1260	960	1200	960	1200
N4	Internal	End	2.21	900	900	1200	1200	1350	1700	1710	1750	1710	2140
	Internal	Internal	2.21	1200	1200	1600	1600	1700	2300	1840	2100	1840	2300
	Edge	End	4.02	880	900	880	1200	1230	1230	940	1170	940	1170
	Edge	Internal	4.02	950	1200	950	1600	1330	1330	1010	1260	1010	1260
	Corner	End	5.83	610	900	610	1060	850	850	640	810	640	810
N5	Internal	End	3.25	900	900	1090	1200	1350	1520	1160	1450	1160	1450
	Internal	Internal	3.25	1180	1200	1180	1600	1640	1640	1250	1570	1250	1570
	Edge	End	5.91	600	900	600	1050	840	840	640	800	640	800
	Edge	Internal	5.91	640	1130	640	1130	900	900	690	860	690	860
	Corner	End	8.58	410	720	410	720	-	-	-	550	-	550

- Internal pressure where slope < 10 degrees, cladding end span
- Internal pressure, cladding internal span
- Edge pressure, cladding end span
- Edge pressure, cladding internal span
- Corner pressure where slope < 10 degrees, cladding end span



Example:
0.55mm BMT Stramit batten, timber trusses at 600mm centres, Corrugated 0.42mm sheeting with 5 fasteners/sheet, N4 wind class

BATTEN SPACING		
Batten Limit	Sheeting Limit	Final
2250	900	900
2700	1200	1200
1590	900	900
1590	1200	1200
1100	900	900



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