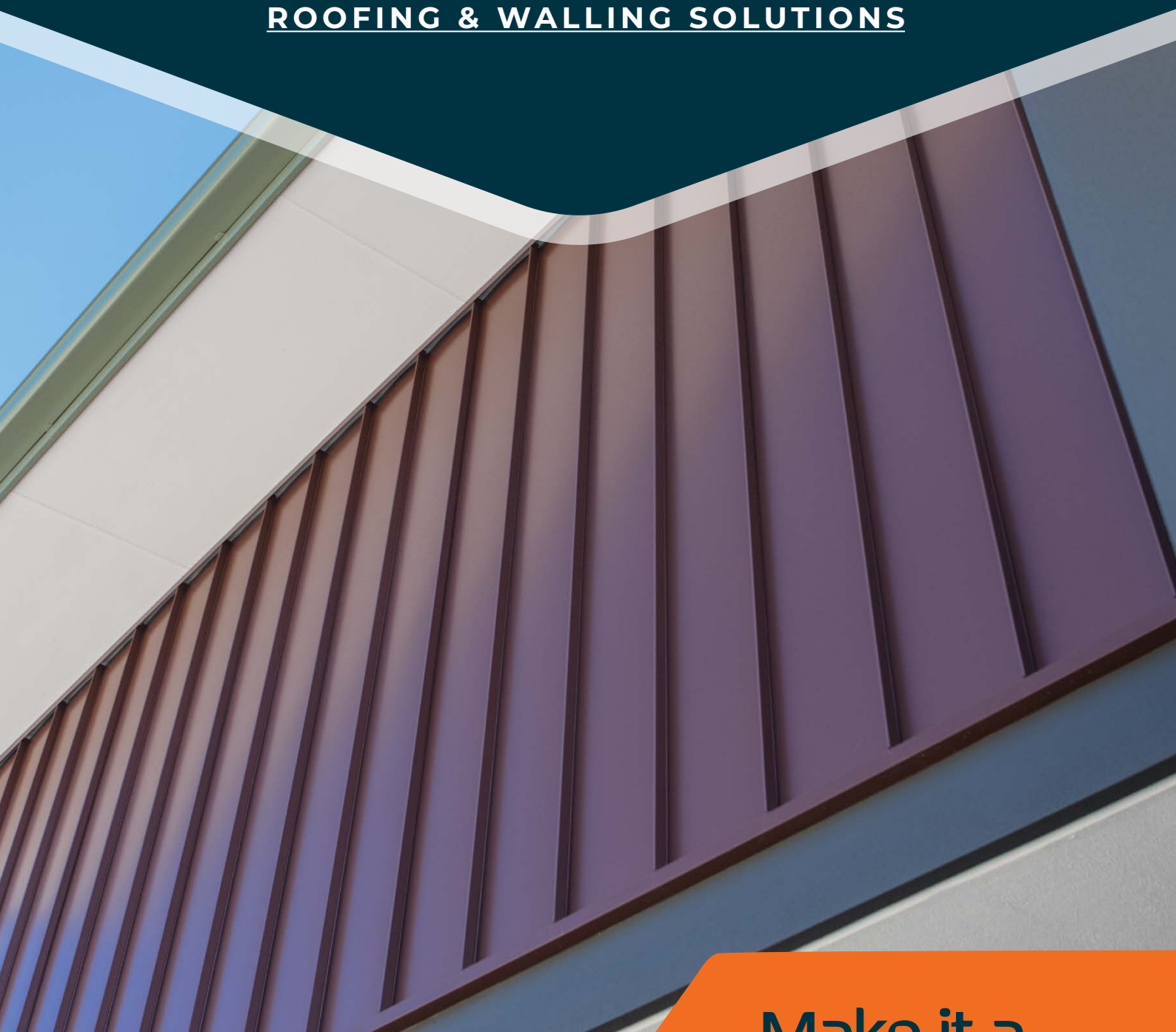


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# HiMat-Snaplock™

ROOFING & WALLING SOLUTIONS

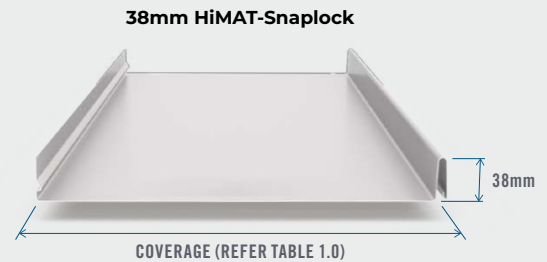
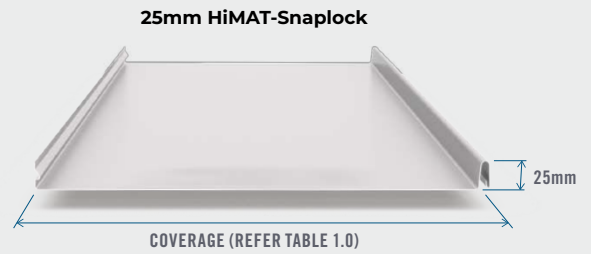


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## OVERVIEW

<b>BMT</b>	0.55mm and 0.60mm
<b>Minimum Roof Pitch</b>	2 Degrees
<b>Rib Height and Coverage</b>	25mm rib height, 324mm pan cover 38mm rib height, 286mm pan cover



## FORM & FUNCTION

Matrix Steel's HiMAT-Snaplock is a modern roofing and walling profile that gives your project a seamless finish with smooth, uncluttered lines.

The profile spans over timber or steel supports.

The choice of rib heights (25mm and 38mm) gives you flexibility to suit your requirements.

**TABLE 1.0 - HIMAT-SNAPLOCK PROFILE COVERAGE OPTIONS**

Rib Height (mm)	Sheet Cover (mm)	BMT (mm)
25	324	0.55
25	324	0.60
38	286	0.55
38	286	0.60

**TABLE 2.0 - MATERIAL SPECIFICATIONS**

Material Properties	0.55mm BMT				0.60mm BMT	
	Girth 300mm		Girth 400mm		Girth 455mm	
	ZnAl	Colour	ZnAl	Colour	ZnAl	Colour
<b>Min. 'AZ' Coating Mass (g/m<sup>2</sup>)</b>	150		150		150	
<b>Mass (kg/linear metre)</b>	1.35	1.36	1.80	1.82	2.22	2.25
<b>Min. Yield Strength (MPa)</b>	300		300		300	
<b>Width Coverage (mm)</b>	185/225	185/225	285/325	285/325	340	340
<b>Sheet Tolerance (mm)</b>	±7 ±4		±7 ±4		±7 ±4	
<b>Min. Roof Pitch</b>	2°		2°		2°	

**TABLE 3.0 - WIND CAPACITIES (KPA)**

Span Type	Limit State	SPAN (mm)				
		600	900	1200	1500	1800
<b>Continuous</b>	<b>Serviceability</b>	1.24	1.15	1.06	0.97	0.88
	<b>Strength</b>	4.20	2.64	1.58	1.02	0.95

The values in the above tables are for use with steel supports of minimum thickness 0.55mm BMT, G550, or timber supports with screws as per fastener selection table. Continuous spans represent spans which are continuous over at least three supports.

## WATER CARRYING CAPACITY

The unique shape of the profile allows for greater water carrying, making it suitable for all regions.

**TABLE 4.0 - MAXIMUM ROOF RUN FOR DRAINAGE (M)**

Roof Pitch	PEAK RAINFALL INTENSITY (mm)					
	150	200	250	300	350	400
<b>2°</b>	38	29	23	19	16	14
<b>5°</b>	54	51	33	27	23	20
<b>10°</b>	74	55	44	37	32	28
<b>15°</b>	89	67	53	44	38	33

The peak rainfall intensities shown represent a 100 year average recurrence interval (ARI) for a five minute rainfall duration.

If roof penetrations exist, the actual roof run will typically be larger than the distance from ridge to eaves due to penetration/s interfering with the runoff. Contact Stratco if further advice is required.

## SPANS

Pressures and spans are based on an eaves height not exceeding 6.0m, a roof pitch no greater than 35° and a total roof height of maximum 8.5m.

Roofing calculations are based on  $C_{pe} = -0.9$  and  $C_{pi} = 0.2$ , walling is based on  $C_{p,e} = -0.65$  and  $C_{p,i} = 0.2$ . A local pressure factor,  $K_l = 2.0$  has been used for end spans which exist within 1200mm of all roofing and walling edges.

A local pressure factor,  $K_l = 1.0$  has been used for internal spans which exist outside of the edge zones. Be aware if an internal span occurs within 1200mm of any edge, the maximum allowable span specified for end spans will apply.

Additional engineering advice can be obtained from Stratco if any design parameters vary from those indicated above.

Matrix Steel HiMAT-Snaplock is limited to lengths of 15m.

**TABLE 5.0 - SPANS (MM)**

Application	Span Type	WIND CLASSIFICATION		
		N1	N2	N3
Roofing	End	1200	1100	850
	Internal	1500	1500	1200
	Overhang	50	50	50
Walling	End	1600	1300	1050
	Internal	1800	1800	1400
	Overhang	100	100	100

Spans are determined by wind speeds for non-cyclonic areas.

**FIXING RECOMMENDATIONS**

It is recommended pans are turned up at the ridge and down into gutters, particularly at low pitches. Roofing should have a 50mm overhang into gutters and be laid with the overlapping rib facing away from the prevailing wind.

At each supporting member Snaplock clips are secured with two fasteners per clip. Refer Table 6.0 for fastener specifications.

Runs of cladding will require HiMAT-Snaplock ‘Starter’ pieces to provide an underlapping detail for the initial lap.

To lap sheets, press down on the lap over a support until the sheets fully engage, continue working along the length of the sheet until the full length is secured.

HiMAT-Snaplock sheeting is not suitable for end lapping.

When fixing over insulation a roof spacer system is recommended. If not used, the screw length may need to be increased with a minimum of three screw threads protruding past steel supports or minimum 23mm embedment into timber supports required.

Oil canning of HiMAT-Snaplock can be reduced by adding a product such as Proctor GEO HC9 laid over ProctorWrap Vapour Permeable Foil. This will help to allow any condensation to pass through and dry out.

**MAINTENANCE REQUIREMENTS**

The performance of HiMAT-Snaplock roofing and walling over time depends on its correct application and maintenance. Maintenance should be performed as often as is required to remove any dirt, salt and pollutants.

Where HiMAT-Snaplock cladding is used in severely corrosive environments, cleaning should be performed more often. It is important that screws have the same life expectancy as the HiMAT-Snaplock cladding you have specified. Packs of Hiland sheeting should always be kept dry and stored above ground level on site. If the sheets have become wet, they should be separated, wiped and placed in the open to dry.

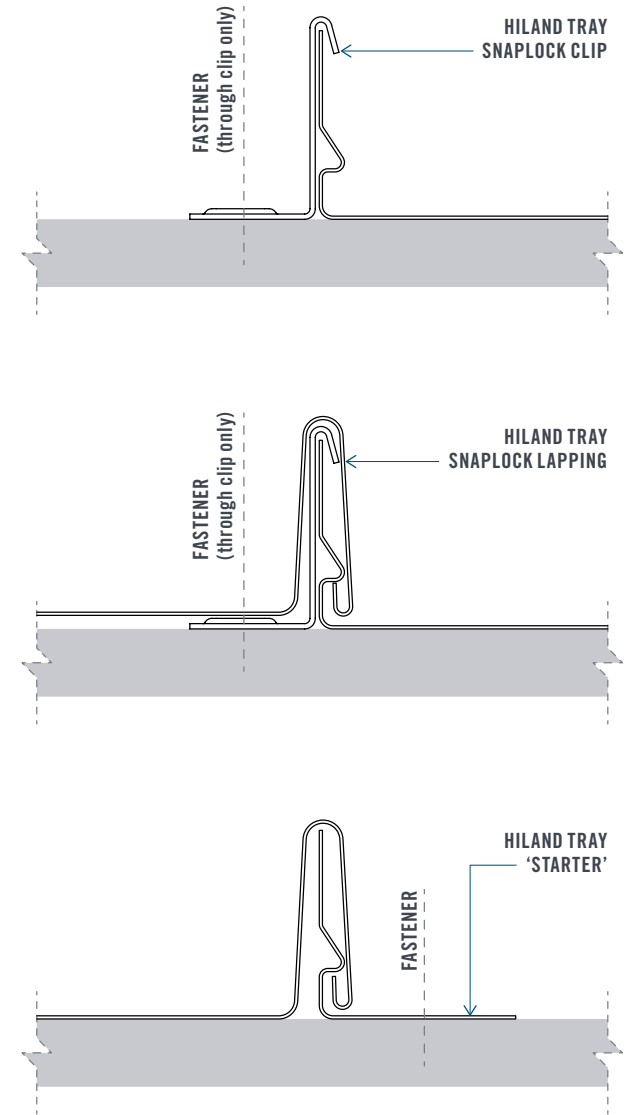
Refer to the Matrix Steel ‘Selection, Use and Maintenance’ brochure for more detailed information about the correct use and maintenance of this product.

**TABLE 6.0 - FASTENER SELECTION**

SUPPORT	FASTENER
Min. 0.55mm BMT G550 steel batten	10g-15x16mm needle point flat head screw
Min. 1.0mm BMT G300 steel support	10g-16x16 wafer head self-drilling screw
Timber (minimum F7 softwood)	10g-12x25 type 17 wafer head screw

Snaplock clips shall be secured via two screws per clip per support with all screws having a minimum Class 3 coating.

**FIGURE 1.0: HIMAT-SNAPLOCK FIXING DETAILS**



**WALKING ON HIMAT-SNAPLOCK**

Matrix Steel recommend any foot traffic is kept to supports for safety and to avoid damage. Do not walk on sheet overhangs. Do not walk on HiMAT-Snaplock roofing between battens. When walking on roofs wear flat, rubber soled shoes and walk flat footed spreading your weight evenly.

## COLOUR AND FINISH AVAILABILITY

Matrix Steel and COLORBOND® bring you the colour and finish you want, in the profile you need — for a high quality finish to your project or home.



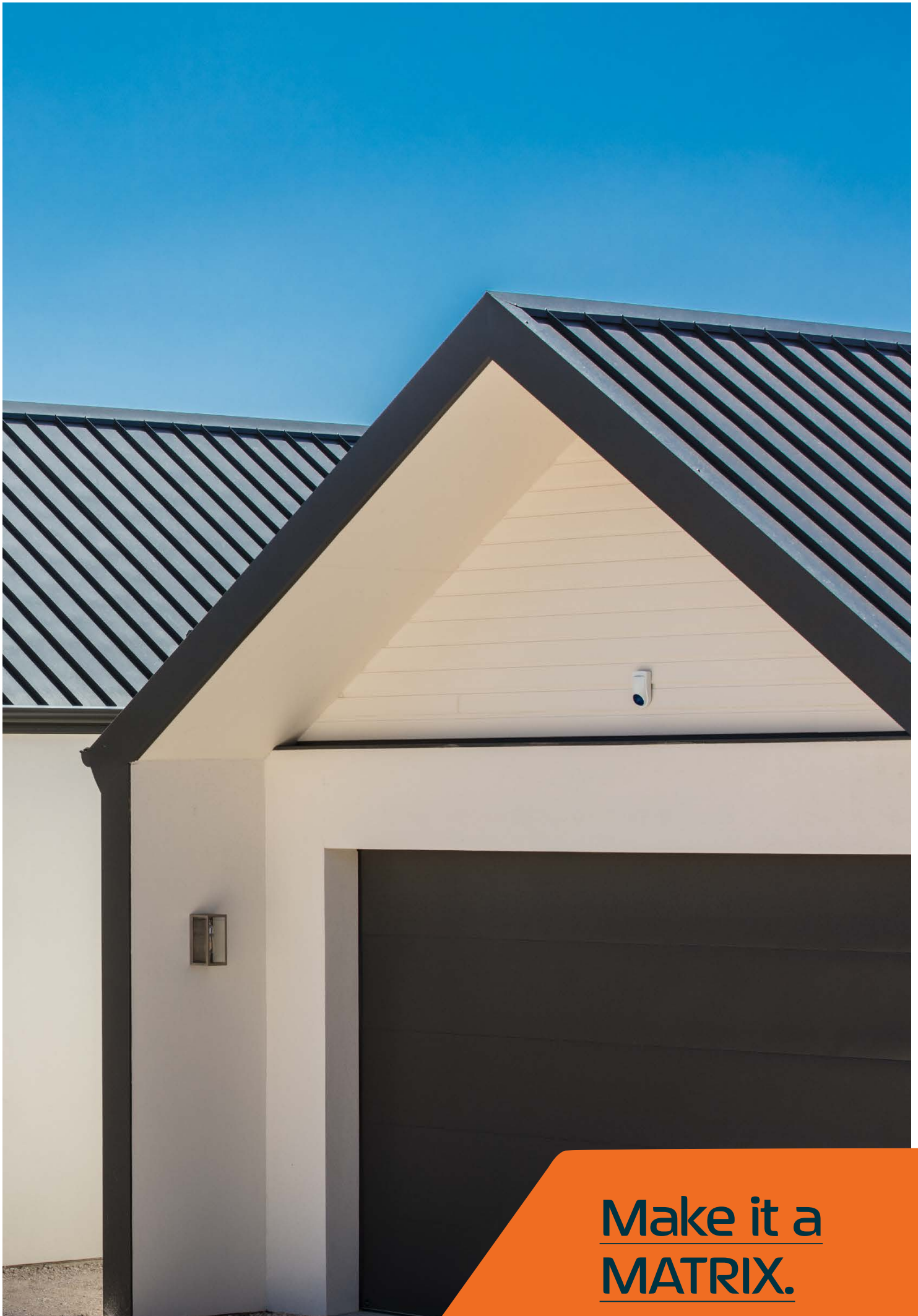
HiMAT Nailstrip is available in the full standard range of COLORBOND® classic finishes and the 6 matt finish range.

### Colorbond® Classic Colours:



### Colorbond® Matt Colours:





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