



GOLDUNITED SDN BHD



HSRM Loratile[®] Roofing



The latest long run step roofing system from HSRM. Its distinct weather roof features and excellent spanning capability are ideal for residential, commercial and refurbishment projects.

Long Lasting Color

Available in a wide range of new high quality color, approved by JIS and ASTM Standards with double coated baked systems which will ensure years of new and aesthetic appearance and protection.

Lightweight

For an average Lora roofing tile area of 215m². The loading weight on the building is only approximately 1 metric ton as compared to approximately 5 metric tons when using traditional concrete or clay tiles on the same area (i.e. given the same roof area, its loading weight on a building is only about one fifth of the traditional tiles).

Durability

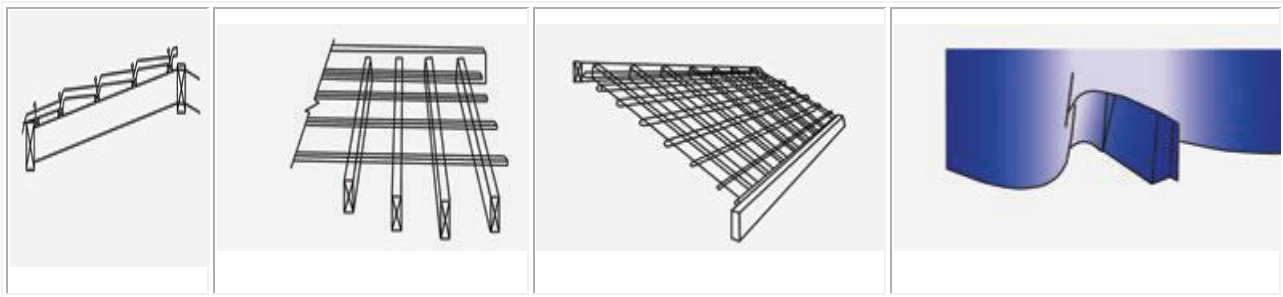
Manufactured using the superior standard double coating system, enhance its roofing strength and protection against corrosion under severe tropical weather conditions and marine environment.

Watertight

The triple anticiliary drains on under lapping provides 100% protection from water seepage through the sheet overlaps. Free of leakage zero maintenance can save you cost of future repairs.

Batten Spacing

Lora Roofing tile is supported on roof battens on the rafters. Tack the eaves batten against the fascia board. Then set and tack the second batten to 205mm from the eaves batten. Lay the rest of the battens to module length 305mm across the rafters, up to the ridge and stack them in position. Batten are cut to length so they butt together on top of the rafters.



Roof Laying

Lora roofing tile is laid with steps stepping down the roof slope. When looking from the gutter end the overlapping side is on the left. Then are laid from right to left in reverse laying method to ensure a tight module fit weather security. Place the first roofing sheet in position and tack the sheet to the batten through the third ridge of the profile at the fascia and the ridge, so that the left side of the roofing sheet can be lifted for reverse-laying. Run a string line parallel to the fascia board at the front end of the roofing sheets accordingly and square the roofing sheets to the string line.

Recommended Minimum Size For Timber Battens

Rafter Centers	Batten Sizes
Up to 600mm (2'0")	50mm x 38mm (2" x 1.5")
Up to 1200mm (4'0")	50mm x 50mm (2" x 2")
Up to 1500mm (5'0")	50mm x 65mm (2" x 2.5")
Up to 1800mm (6'0")	50mm x 75mm (2" x 3")

Recommended Size For Steel Battens

Rafter Centers	Batten Sizes
Up to 2000mm	HB40
Up to 2700mm	HB60
Up to 5000mm	HB120

Recommended Specification For Loratiles Installation

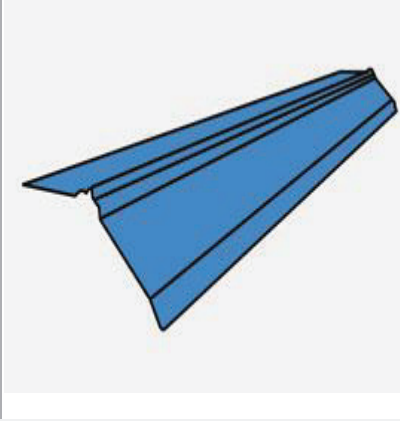
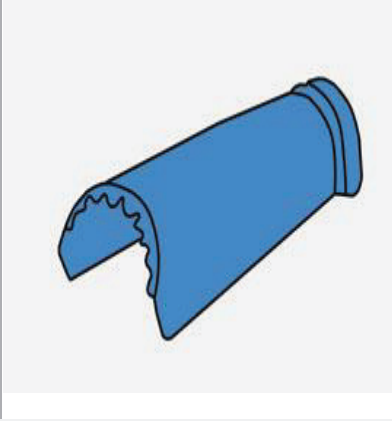
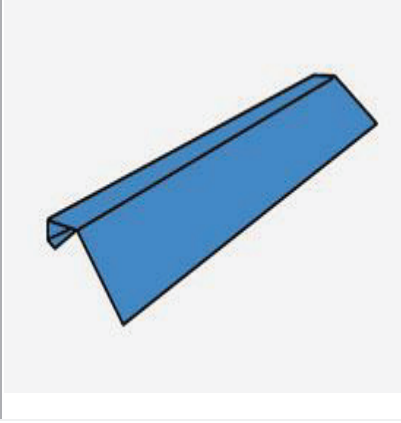
Total Coated Thickness	Minimum Recommended Pitch Degree	Max Roof Overhang Unsupported	Max Roof Overhang Stiffened With 50mmx50mmx1.6mm Angle & Gutter	Max Recommended Spacing of Support					
				Roofs			Walls		
				Single Span (mm)	End Span (mm)	Internal Span (mm)	Single Span (mm)	End Span (mm)	Internal Span (mm)
0.47	15°	200	150	300	1000	1000	1500	1800	1800
0.40	15°	200	100	200	900	900	1200	1600	1600

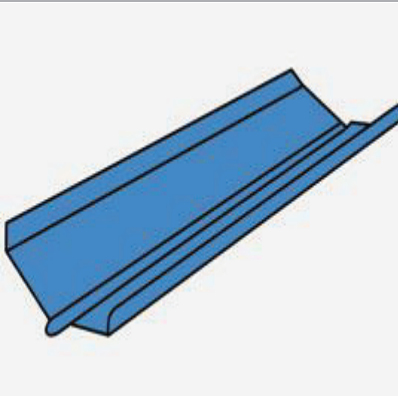
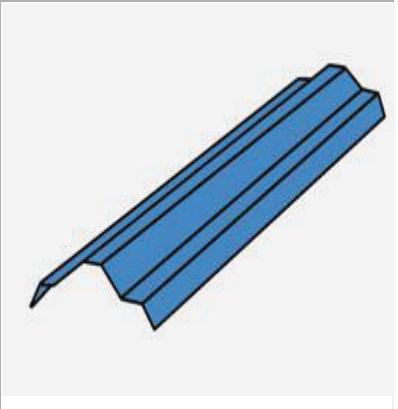
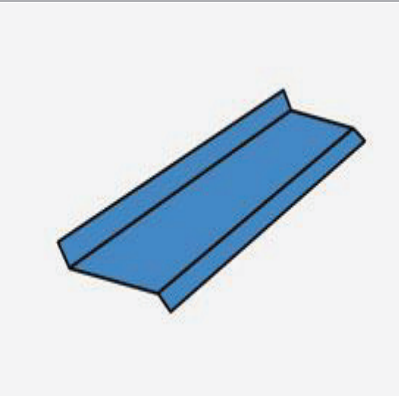
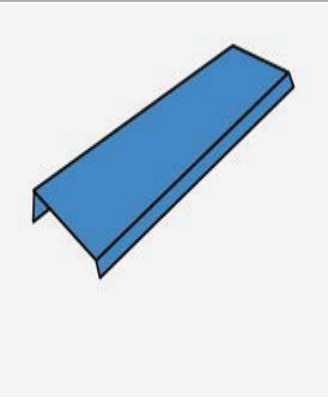
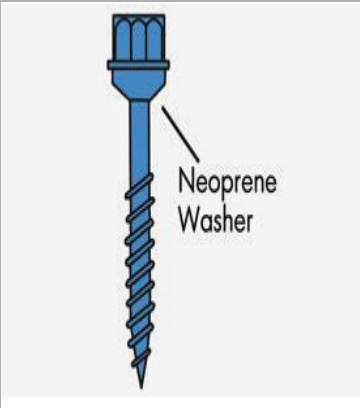
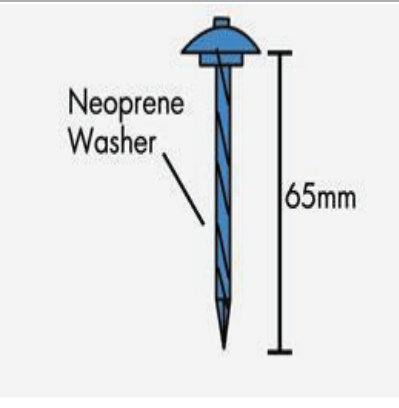
Lortile® Roofing Specification

Aluminium Zinc Coating	55% Al-Zn Alloy coating	Cover Width	755mm
Point coating	Top: 20 Microns Paint Back: 5 Microns Corrosion, Inhibitive Coat	Mass	4.67kg/mm ³
Roof Pitch	Suitable for any roof slope	Standard Module Length	305mm (Equivalent one foot) per module
Tolerance	Thickness: +/- 0.02mm Cover Width: +/- 2mm	Variable Module Length	200m, 300mm, 350mm, 400mm
Steel Grade	JIS 3322 SGC570 (min yield stress - 570MPA)	Roofing Pitch	Suitable for any slope from 15 minimum

Accessories

Lora Roofing Tile comes with a range of aesthetic roofing accessories and components manufactured by HSRM

		
Ridge (For use as Apex Ridge/ Hip Cap) Standard length - 2440mm	Barrel Cap (For use as Apex Ridge/ Hip Cap) Overall Length : 400mm (1'3¾")	Box Barge Cover Standard Length - 2440mm (8'0")

	Length of Cover : 275mm (1'2¾")	
		
Valley Gutter Standard length - 2440mm (8'0")	Ridge II (For use as Apex Ridge/ Hip Cap) Standard length - 2440mm	Wall Flashing Standard length - 2440mm (8'0")
		
Barge Cap Standard length - 2440mm (8'0")	Tap-Screw Self Drilling Hexagon Washer Face	Fastener Nail with Neoprene Washer, Galvanised twisted shank and precoated colour similar to the roofing