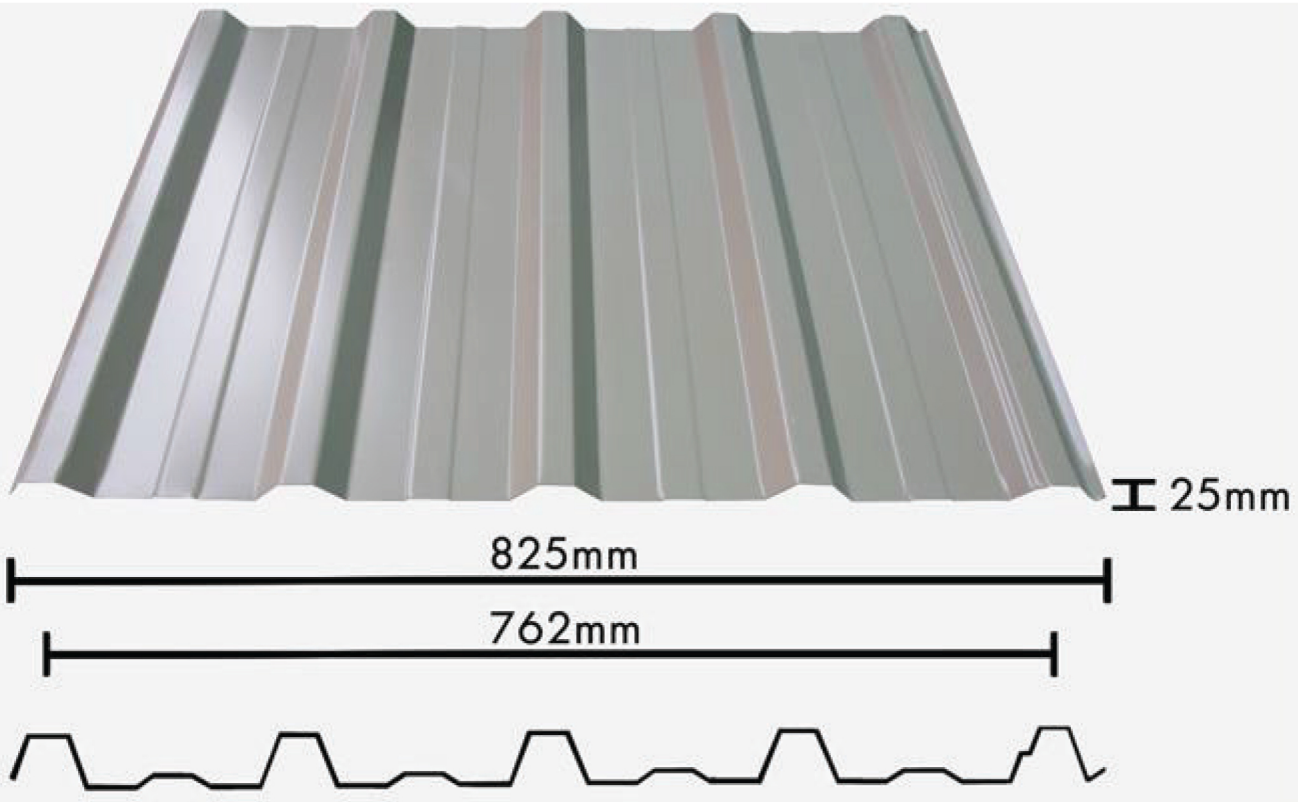




HSRM Speedeck® Roofing



Material Specification

STANDARD MATERIAL SPECIFICATION	
Aluminium-Zinc Coating	55% Al-Zn Alloy Coating
Paint Coating	Top: 20 Microns Todo RP/SMP Paint Back: 5 Microns Corrosion, Inhibitive Coat
Roof Pitch	Suitable for any roof slope from 15° degrees
Tolerance	Thickness: +/- 0.02mm Cover Width: +/- 2mm

Recommended size for Steel Batten

Recommended size for steel battens	
Rafter Centers	Batten Size
Up to 2000mm	HB25
Up to 2700mm	HB40
Up to 3500mm	HB60

Recommended Support Spacing

Recommended support spacing									
Total Coated Thickness (mm)	Minimum Recommended Pitch degree	Max roof Overhang unsupported (mm)	Max roof Overhang stiffened with 50mm*50mm*1.6mm angle and 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	3°	250	300	1500	1200	1750	1800	1500	2000
0.40	3°	250	250	1350	1000	1550	1600	1300	1800
0.30	3°	200	200	1000	900	1200	1400	1000	1600



HSRM Spanlok® Roofing



A true performer in profiled roofs sheet with a touch of elegance and rigidity blended harmoniously. It remains one of the preferred and frequently specified roof types by architects and engineers in building projects. Product rigidity owing to interlocking ribs and a unique concealed clips fixing gives it a perpetual appeal.

The dense profile with its high rib forms has excellent spanning capability reaching purline over greater distance exceeding 1800mm, hence allowing for more economical designs. The deep trough between ribs allows it to be laid at extremely level pitch without the risk of a leak or water spilling over side laps. Concealed clips fixing allows the profile to be fixed easily by just pressing the sides onto clips until the roof catches on the bracket. It fits nicely with roof profiles and this ingenuity design has been tested to perform even under rigorous wind conditions generated in wind tunnels laboratories. Hence a safe load determined from the necessary conditions to sustain against roof pull outs due to wind uplift and suctions.

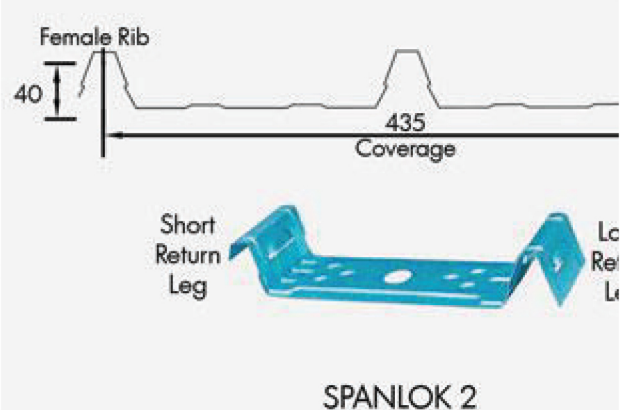
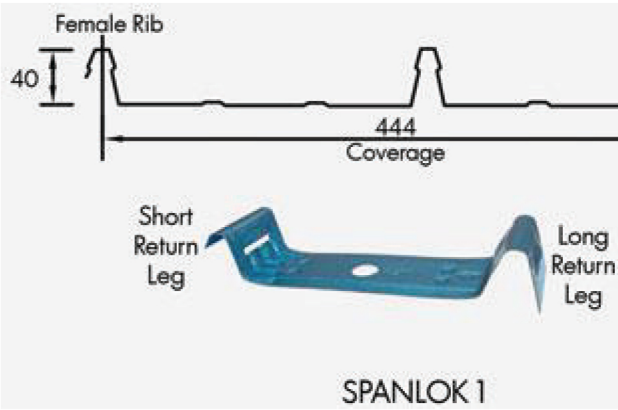
This roof profile is appropriate for building with large overall roof are such a warehouses, factories, office building or multipurpose halls.

Spanlok® Roofing Specification

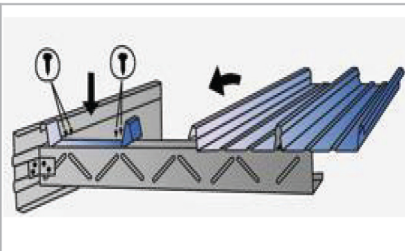
Recomended Support Spacing For Spanlok® Roofing

Total Coated Thickness	Width Coverage (mm)	Minimum recommended Pitch (degree)	Max Roof Overhang Stiffened unsupported (mm)	Max Roof Overhang Stiffened with 50mmx50xmm x1.6mm angle & gutter (mm)	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)
0.53	444	1°	250	700	1600	1800	2000	2300	1900	2500
0.65	444	1°	300	900	1800	2200	2500	2000	2200	2700

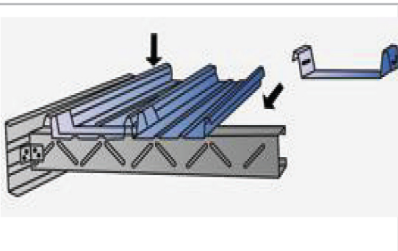
Spanlok® Clip



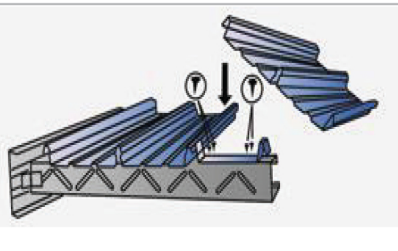
Spanlok® Installation Guide



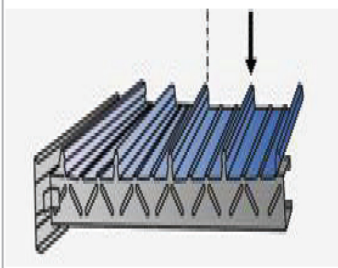
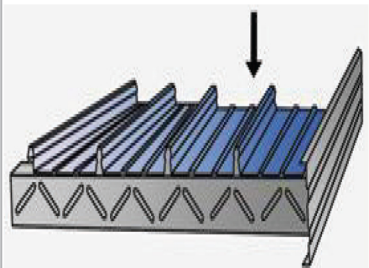
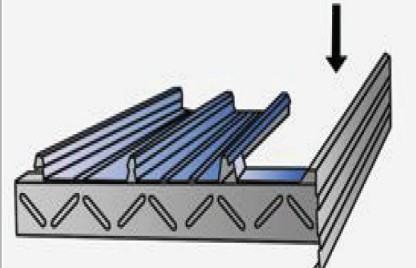
STEP 1
Start from positions furthest left or near the left edge, mark aligned positions then fixed



STEP 2
Once clips fixing are fixed, start to install 1st roof sheet.



STEP 3
Place next row of clips and ensure Short Return Leg strap over the

Brackets/Clips with wafer head screw.	Subsequently fixed next clip to position.	Male Rib of the underlapping sheet.
		
<p>STEP 4</p> <p>Once clips fixing are fixed, start to install 2nd roof sheet. Subsequently fixed next clip to position.</p>	<p>STEP 5</p> <p>Final sheet to be cut partly along roof length leaving remainder cut off. If cut off leaves a fully center rib then finish with flashing cover over the final sheet.</p>	<p>STEP 6</p> <p>If cut off leaves less than half the full width then fixed a half clip on the last side of the final sheet, finish off with a flashing cover.</p>

SPANLOK® Recommended Fasteners

Support Thickness	Directly To Support	Over Insulation Blanket
Steel support up to 2.5mm	No. 10 - 16 x 16mm wafer head self drilling and tapping screw	Increase to 22mm long screw.
Steel support 2.5mm to 5mm	No. 10 - 24 x 16mm wafer head self drilling and tapping screw	Increase to 22mm long screw.
Timber support	No. 10 - 12 x 25mm wafer head type 17 self drilling screw	Increase to 45mm long screw.

Features & Benefits

Galvalume steel is a corrosion resistant Al-Zn Alloy coated steel produced by continuous hot dipping process. The alloy coating comprises of 55% Aluminium (Al), 43.4% Zinc (Zn) and 1.6% Silicon (Si) in good balance with Zn.

TEST	TEST METHOD	TEST RESULT

Paint Hardness	Scratching with Mitsubishi UNI Pencil	No scratches when scratched with the pencil harder than 3H.
Erichsen	Scar, in check pattern, in 1mm interval with knife, extrude with Erichsen Tester, remove paint film using scotch test.	No paint peel off.
Bend	180 degree, OT Bend.	No crack of paint.
Du Pont Impact	Drop 1kg of steel ball diameter ½" from 50cm height.	No crack or flaking of paint film.
Lock Forming	Form with Lock Form Tester.	No noticeable cracking of paint.
Solvent Resistance	Rubbing on the pre-painted surface by using cotton soaked in MEK Solvent. (min. 60 times)	No paint peel off.
Salt Water Spray	JIS Z 2371	Satisfy JIS Specification.
Weathering	Over 1,000 hours with Weather-O-Meter.	No change.