

LAYERS OF ROOFING



1 ROOFING

- The outermost layer (tiles, metal sheets, or shingles).
- Protects the building from rain, sun, and wind.
- First barrier against weather.
- Should be durable and waterproof.

2 STEEL TRUSS

- Structural framework that supports the roof.
- Made of steel for strength and durability.
- Distributes the load of roofing materials evenly.
- Resistant to termites and rot (better than wood).

3 ALUMINIUM INSULATION

- Reflective insulation layer (often foil-based).
- Reflects heat from the sun, reducing indoor temperature.
- Helps improve energy efficiency (less need for cooling).
- Also acts as a moisture barrier.

5 MESH

- Wire mesh layer that supports insulation materials.
- Prevents insulation (like rockwool) from sagging or falling.
- Allows ventilation and airflow.
- Adds stability to the system.

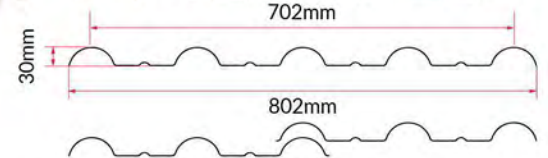
6 CEILING PANEL

- The visible interior ceiling (e.g., gypsum board, metal panels).

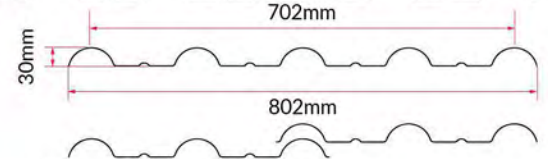


BAMBOO & CLASSIC TILE

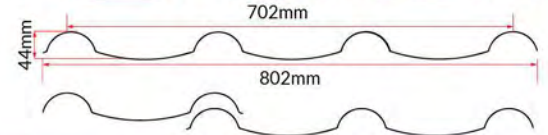
Bamboo Tile I



Bamboo Tile II



Classic Tile



SPANLOK 3

Projects using our Roofing

Spanlok Roofing features a concealed-fix profile with bold ribs for added strength and water-tightness. Engineered for long spans and minimal maintenance, it ensures superior wind uplift performance and thermal movement control—perfect for high-rainfall regions.



Fasteners



HSRM For I-CLIP™ Roofing Fasteners for Clip



HSRM Anti Rust Self Drilling Screw for Metal
 #12-24X25MM
 #12-18X55MM
 #12-18X65MM



HSRM Flat Head Wafer Drilling Screw
 #10-24X16MM
 #10-24X20MM
 #10-24X25MM
 #10-24X38MM

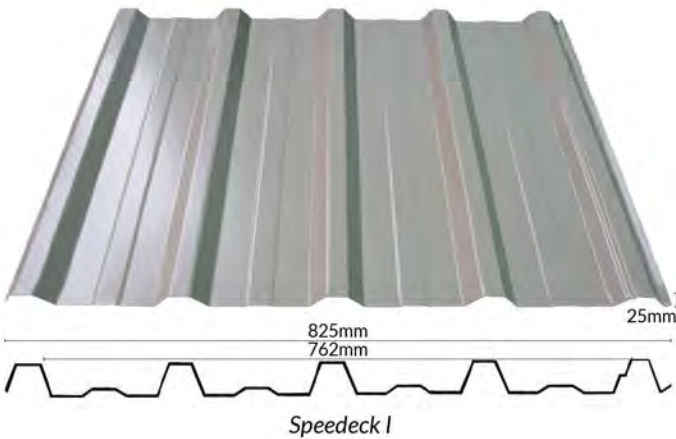


HSRM Anti Rust Self Drilling Screw w/o Washer for Metal
 #10-24X16MM
 #10-18X20MM

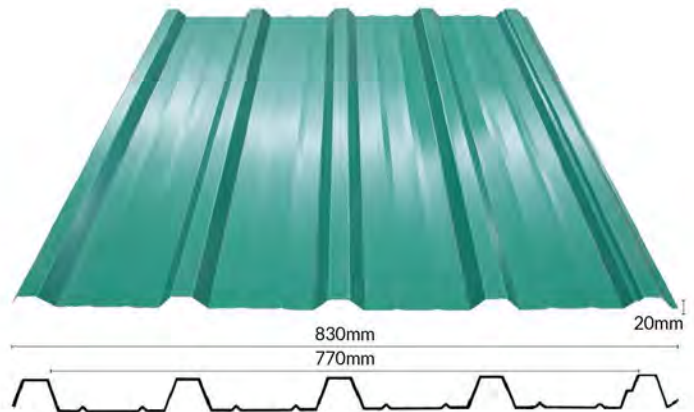
RECOMMENDED SUPPORT SPACING

TOTAL COATED THICKNESS (MM)	MINIMUM RECOMMENDED PITCH DEGREE	MAX ROOF OVERHANG UNSUPPORTED (MM)	MAX ROOF OVERHANG W/ 50mm*50mm*1.6mm ANGLE & GUTTER	ROOFS			WALLS		
				SINGLE SPAN (MM)	END SPAN (MM)	INTERNAL SPAN (MM)	SINGLE SPAN (MM)	END SPAN (MM)	INTERNAL SPAN (MM)
				0.47	5°	250	300	1500	1200
0.40	5°	250	250	1350	1000	1550	1600	1300	1800

SPEEDECK I & SPEEDECK II



Speedeck I



Speedeck II

STEEL BATTENS RECOMMENDED SIZE

Rafter Centers	Batten Size
Up to 2000mm	HB25
Up to 2700mm	HB40
Up to 3500mm	HB60

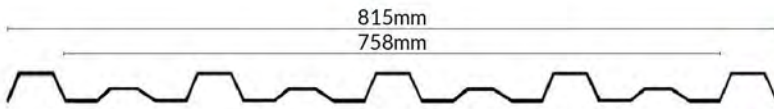
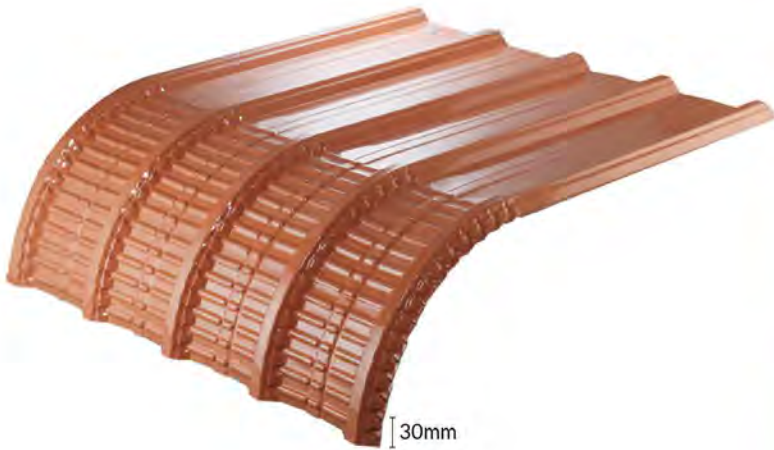
STANDARD MATERIAL SPECIFICATION

Aluminium-Zinc Coating	55% Aluminium-Zinc 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 SUPPORT SPACING

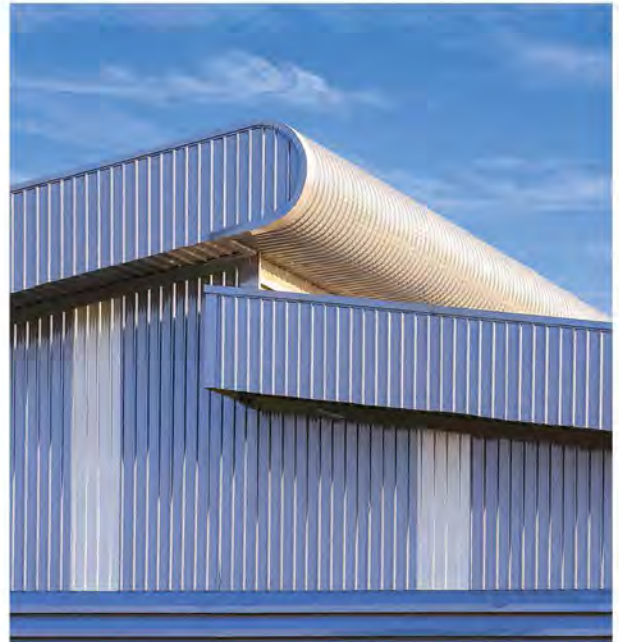
TOTAL COATED THICKNESS (MM)	MINIMUM RECOMMENDED PITCH DEGREE	MAX ROOF OVERHANG UNSUPPORTED (MM)	MAX ROOF OVERHANG W/ 50mm*50mm*1.6mm ANGLE & GUTTER	ROOFS			WALLS		
				SINGLE SPAN (MM)	END SPAN (MM)	INTERNAL SPAN (MM)	SINGLE SPAN (MM)	END SPAN (MM)	INTERNAL SPAN (MM)
0.47	3°	250	300	1500	1200	1750	1800	1500	2000
0.40	3°	250	250	1350	1000	1550	1600	1300	1800
0.30	3°	200	200	1000	900	1200	1400	1000	1600

CRIMPCURVE



When installing the crimp curve roofing, it's essential that each run of curved and straight sheets are end-lapped progressively across the width of the roof so they can kept in alignment. For best results, sheets should be laid in the order illustrated in the diagram. A carpenter's level should be used to lay the first sheet. Always measure every 3rd or 4th sheet to check square. A rope with a hook at one end may be on the overlap side of the sheet to obtain a good lap.

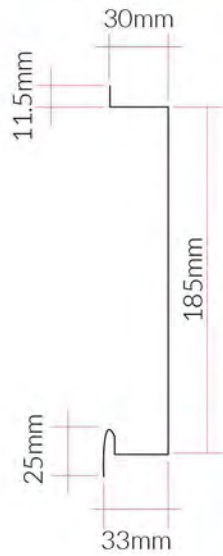
Important note: There is at least 100mm at the end adjacent to the curve which cannot be curved. This must be taken into account when measuring.



Fastener Frequency & Location

Support Location	Fasteners Per Sheet	Location of Crest Fasteners for Roofs & Walls & Valley Fasteners for Wall	Minimum Length of Crest Fasteners		Side Lap Fastener Spacing
			Steel Supports	Timber Supports	
Internal End and Lap Support	4	Crest	Thread-rolling screw 50mm	Wood screws 60mm+ Self-drill wood screw type 1765mm	Mid span for Purpline spacing over 900mm and girt spacing over 1200mm
		Valley	Self-drill thread forming screw 45mm+		

HSRM WALL PANEL



Wall panels are decorative or functional coverings used to enhance interior walls. They come in various materials like wood, PVC, MDF, fabric, and metal, and can provide insulation, soundproofing, and moisture resistance. Wall panels are often used to improve aesthetics, hide imperfections, or add texture and depth to a space. They are easy to install and are popular in both residential and commercial interiors.



FASCIA BOARD



Fascia board enhances home's curb appeal while providing essential protection to roof and gutter system. It prevents water damage by covering the rafter ends & supports gutters, ensuring proper water drainage. Made from durable materials, it's a low maintenance upgrade that boosts functionality & aesthetics.

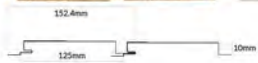
*FASCIA
BOARD*



CEILING PANEL



730 CEILING PANEL

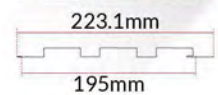


Z130 HSRM CEILING PANEL

Ceiling panels are lightweight boards used to cover ceilings for both decorative and functional purposes. Commonly found in homes and commercial spaces, they help improve acoustics, hide wiring, and enhance room aesthetics. Available in materials like gypsum, PVC, metal, and mineral fiber, ceiling panels can offer properties such as fire resistance, moisture resistance, and sound insulation. They are often installed in suspended ceiling systems for easy access and maintenance.

“ Help hides wiring & enhance room aesthetics. **”**

T195 PARTITION PANEL



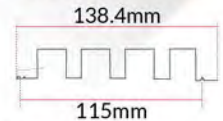
Partition panels can blend seamlessly with different interior designs. They are easy to install, often without the need for permanent construction and provide a cost-effective alternative to building permanent walls.



PARTITION PANEL

Partition panel fences are modular fencing systems designed for space division, privacy, and security in residential, commercial, or industrial settings. Made from durable materials such as metal, PVC, or composite panels, they offer a sleek and functional design. Easy to install and customizable in size and finish, these panels are ideal for creating temporary or permanent boundaries, both indoors and outdoors. Waterproof and designed with a premium finish for durability and elegance on your fencing. It comes with varieties of colors too.

M112 PARTITION PANEL

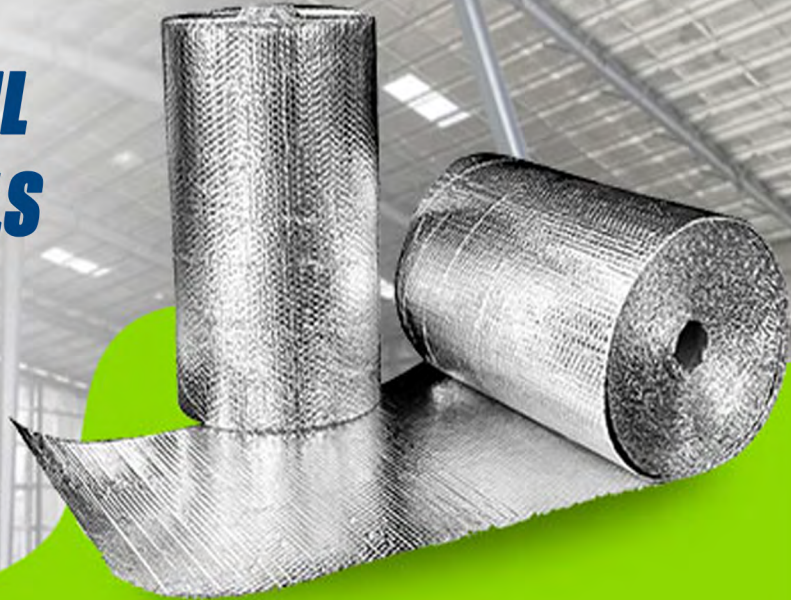


HOT DIPPED FENCE **POST**
(SQUARE/RECTANGLE HOLLOW PIPE)

HSRM M-PANEL OR T-PANEL



ALUMINIUM BUBBLE FOIL SAVE YOUR ENERGY BILLS



PRODUCT FUNCTION



**High Quality Reflective
Insulation Foil**

**Waterproof And
Moistureproof**

**Easy to Cut
And Install**

**Heat Shield
Sound Deadener**

ROCKWOOL

Why do we need internal wall insulation?

Introducing high quality interior wall insulation is one of the best ways to prevent loss of circulated cool air, protect against fire risks, and improve acoustic capabilities.

It improves energy performance and creates a comfortable home or working environment suitable for all types of internal walls:

- **Partition walls** - Non-load bearing walls used to divide a room. Commonly a wooden or metal stud wall with plasterboard finish or similar.
- **Dry lining walls** - Similar in build to a partition wall, but placed on the inside of the outer wall. This type of internal wall is designed around improving comfort.
- **Separation walls** - Also known as a party wall, these separate adjoining flats, houses and rooms between residential properties.

Applications can be easier and more accessible for certain properties, such as flats. They also have no impact on the external appearance, such as with dry lining walls where the insulation can be installed before the cladding, which is then painted over.

For separation and partition walls, they improve the soundproof qualities between rooms and properties.

Benefits of ROCKWOOL internal wall insulation include:

- Reduced heat gained
- Protection against fire risks
- Cost-effective installation
- Blocking and absorbing sound
- Matching environment aesthetics



Why do we need ceiling or soffit insulation?

As cool air rises, it will easily escape through an uninsulated ceiling/soffit. The same is true for both sound and fire.

Insulated ceiling panels, tiles and grid suspension systems - as well as our other forms of insulation products - can improve the thermal comfort, acoustic performance and fire safety of entire rooms and floors. For information on ceiling panels learn more about ROCKFON - part of the ROCKWOOL Group.

Buildings with internal insulation can deliver significant energy savings and greater thermal performance, making multi-storey developments comfortable for living and working¹.

There are three main types of ceiling or soffit insulation:

- **Car park ceiling** - High density boards with an optional coating or wood-fibre finish that can be painted or plastered. Boards are glued or mechanically fixed to the ceiling. This enhances the ceiling's aesthetics as well as its thermal, acoustic, and fire resilience - ideal for protecting properties above.
- **Basement or cellar ceiling** - Very similar to the car park ceiling products, but with a greater focus on domestic use and requirements.
- **Suspended ceiling** - Commonly used in intermediate floors, a new ceiling is created underneath the load bearing floor from a wooden or metal structure. Light weight rolls or slabs are applied to improve the thermal, acoustic, and fire performance.

Benefits of ROCKWOOL ceiling or soffit insulation include:

- Cool retention² - stopping cool air from passing through a floor
- Acoustic absorption² - eliminating long reverberation time
- Fire resilient properties³ - reducing the risk of a fire spreading
- Reduced energy bills - which can help alleviate financial issues associated with hot homes⁴



BRC MESH

BRC mesh is a high-strength, prefabricated welded steel reinforcement fabric used to strengthen concrete slabs, walls, and foundations. Manufactured from cold-drawn wire into a square or rectangular grid, it significantly speeds up construction, reduces steel wastage, and provides crack control in concrete structures.

Key Features and Benefits

- **High Quality & Consistency:** Produced using automatic welding machines, ensuring uniform wire spacing and consistent steel area, which is superior to site-bound manual reinforcement.
- **Faster Construction:** Pre-fabricated sheets or rolls minimize on-site labour and significantly speed up the laying process.
- **Reduced Wastage:** Offers significant material savings compared to traditional loose rebar.
- **Versatility:** Used in residential, industrial, and civil engineering projects.
- **Efficiency:** Pre-welded grids eliminate the need for manual bar placement, cutting, and knotting, significantly speeding up construction.
- **Consistent Quality:** Factory-manufactured mesh ensures uniform steel distribution and accurate spacing, which is difficult to achieve manually on-site.
- **Structural Integrity:** It provides critical tensile resistance, which is essential because concrete is strong in compression but weak in tension

Common Applications

- **Concrete Reinforcement:** Slabs, floors, roofs, walls, footings, and retaining walls.
- **Infrastructure:** Pavements, culverts, drain covers, and precast components.
- **Other Uses:** Swimming pools, water tanks, and structural fireproofing.
- **Fencing:** Security fencing for residential or commercial areas

Specifications

- BRC 66/30
- BRC 66/8
- BRC 65
- BRC 65/8
- BRC A6, A7, A8, A9, A10, A12

