



Metal Roofing Series

Quality | Service | On Time

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Powin Steel Industries Sdn Bhd



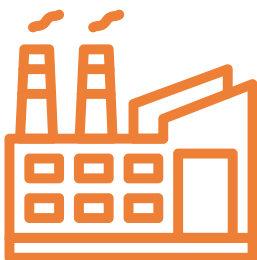
Manufacturing Site

DELIVER ON TIME QUALITY PRODUCTS AND SERVICES



TO MEET OR EXCEED CUSTOMER'S EXPECTATIONS AND SATISFACTION

SET QUALITY OBJECTIVES TO MONITOR PERFORMANCE PER QMS REQUIREMENTS



CONTINUAL COMPETENCY DEVELOPMENT TO FULFILL CUSTOMER EXPECTATIONS

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Powin Steel Industries Sdn. Bhd. was established in year 2009, located in Taman Teknologi Cheng, Malacca. We specialized in GI Purlins (C & Z Profile), Multi Roof Truss & Batten, Metal Roofing Sheets and Building Solutions for building industries. Currently, our sales coverage covers the whole Malaysia.



Powin Steel's Quality Policy

Powin Steel is proudly certified by SIRIM under the ISO 9001:2015 Quality Management System. This reflects our commitment to delivering high-quality products, on-time delivery, excellent customer service, and competitive pricing while upholding our core values, mission, and vision.

SIRIM is recognized by CIDB as a Conformity Assessment Body authorized to issue the Product Certification License (PCL) under the PPS scheme. This license ensures that construction materials comply with national standards.

In addition to ISO certification, Powin Steel's products are certified under the Product Certification License (PCL), providing assurance of safety, reliability, and compliance. Our manufacturing processes follow strict testing, supervision, and quality control to improve efficiency and reduce waste and defects.

We source only top-grade raw materials from reputable local and international steel mills. All materials are certified under SIRIM MS standards to ensure consistent quality from start to finish.



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Warranty Offering

UltraShield™



Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply

CoreShield™



Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply

Ultra AluZinc™



Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply

Core AluZinc™



Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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Metal Roofing 762



**Metal Roofing 762
(POWIN 762)**

Powin Steel Metal Roofing 762 (POWIN 762) is excellent profile, designed and engineered with highest standard of the modern metal roofing technology.

Type of Metal Roofing 762 product

- Metal Roofing Sheet 762 (POWIN 762)
- Crimp Curve Roofing
 - i. Curved Variable Degree
 - ii. ARC
 - iii. Curved 90 Unequal End Length
 - iv. Semi-circle
- Flat Sheet Roofing
- Insulated Metal Roofing 762
 - i. PU Metal
 - ii. PU Foam
 - iii. PU Aluminium
 - iv. OPP (3 in 1)

POWIN 762 is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra AluZinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



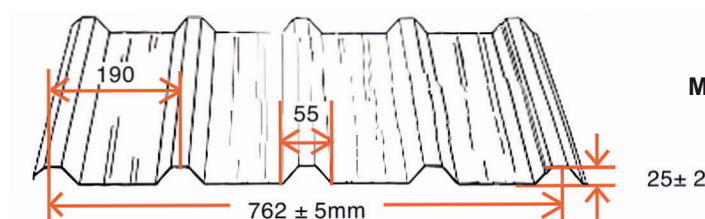
Core AluZinc™

Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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Product Drawing



**Metal Roofing 762
(POWIN 762)**




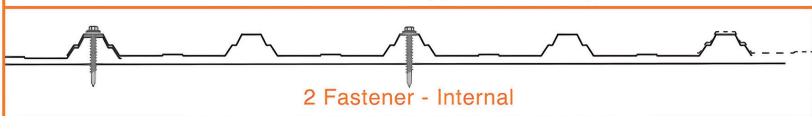


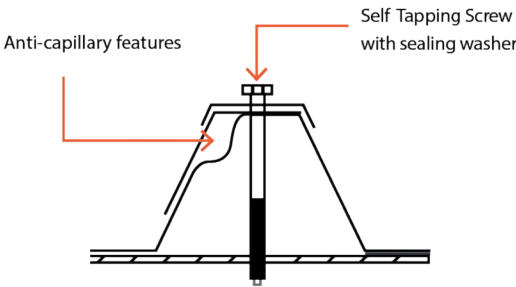
** All units are measured in mm

Thickness		Weight		Cover Width	Rib Height
BMT	TCT	kg/m	kg/m ²	mm	mm
0.18	0.230	1.523	2.00	762	25
0.20	0.250	1.712	2.25		
0.23	0.280	1.909	2.51		
0.26	0.300	2.136	2.80		
0.28	0.330	2.318	3.04		
0.30	0.350	2.545	3.34		
0.33	0.380	2.687	3.54		
0.35	0.400	2.992	3.93		
0.40	0.450	3.182	4.18		
0.42	0.470	3.409	4.47		
0.48	0.530	3.787	4.97		
0.50	0.550	3.939	5.17		

Product Specification

Profile	Powin Steel Metal Roofing 762 (POWIN 762)
Effective Width	762 mm
Depth of Rib	25 mm
Type of Material	Colour Coated Material / Aluzinc Material
Thickness	0.18 - 0.50 (BMT) / 0.230 - 0.550 (TCT) Refer to table above.
Weight	Refer to table above
Steel Grade	AS 1397 G550 / JIS G3312 CGC 570 / MS 2383:2011
Min. Yield Strength	G550 (Mpa) / G350 (Mpa)
Material Coating	AZ100 / AZ150
Roof Pitch	Recommended minimum is 3°
Available Length	Custom made lengths according to customer's order. Option for On-Site forming service is available upon request and subject to availability. (T&C apply)
Product Tolerance	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm Rib Height : ± 2 mm
Warranties	Powin Steel provides material warranties on individual project basic. (T&C apply)
Packing	POWIN 762 are stacked sheet to sheet with top and bottom are protected with timber.
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing, and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.

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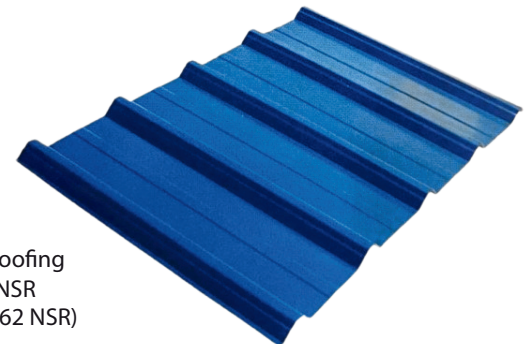
Type of Fastening	<div>Creast Fastening / Valley Fastening</div> <div><div><p>4 Fastener - End Support & End Lap</p></div><div><p>2 Fastener - Internal</p></div><div><p>Crest Fastening : Roofing & Wall Cladding</p></div><div><p>4+1 Fastener - End Support & End Lap</p></div><div><p>2 Fastener - Internal</p></div><div><p>Valley Fastening : Wall Cladding only</p></div></div>																																																																																
Side Lap	<div><p>Anti-capillary features</p><p>Self Tapping Screw with sealing washer</p></div>																																																																																
Wind Capacity Load Span	<table><tr><th colspan="9">Uniformity Distributed Load (kN/m²)</th></tr><tr><th rowspan="2">Thickness TCT (mm)</th><th colspan="8">Span L (m)</th></tr><tr><th>0.6</th><th>0.9</th><th>1.2</th><th>1.5</th><th>1.8</th><th>2.1</th><th>2.4</th><th>2.7</th></tr><tr><td>0.35</td><td>9.70</td><td>2.86</td><td>1.19</td><td>0.60</td><td>0.33</td><td>0.20</td><td>0.13</td><td>0.08</td></tr><tr><td>0.40</td><td>10.67</td><td>3.14</td><td>1.31</td><td>0.66</td><td>0.37</td><td>0.22</td><td>0.14</td><td>0.09</td></tr><tr><td>0.42</td><td>11.31</td><td>3.33</td><td>1.39</td><td>0.70</td><td>0.39</td><td>0.2</td><td>0.15</td><td>0.09</td></tr><tr><td>0.47</td><td>12.94</td><td>3.81</td><td>1.59</td><td>0.80</td><td>0.45</td><td>0.27</td><td>0.17</td><td>0.11</td></tr><tr><td>0.53</td><td>15.54</td><td>4.58</td><td>1.91</td><td>0.96</td><td>0.54</td><td>0.33</td><td>0.22</td><td>0.15</td></tr><tr><td>0.55</td><td>16.19</td><td>4.77</td><td>1.99</td><td>1.00</td><td>0.56</td><td>0.34</td><td>0.23</td><td>0.15</td></tr></table>	Uniformity Distributed Load (kN/m ²)									Thickness TCT (mm)	Span L (m)								0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	0.35	9.70	2.86	1.19	0.60	0.33	0.20	0.13	0.08	0.40	10.67	3.14	1.31	0.66	0.37	0.22	0.14	0.09	0.42	11.31	3.33	1.39	0.70	0.39	0.2	0.15	0.09	0.47	12.94	3.81	1.59	0.80	0.45	0.27	0.17	0.11	0.53	15.54	4.58	1.91	0.96	0.54	0.33	0.22	0.15	0.55	16.19	4.77	1.99	1.00	0.56	0.34	0.23	0.15
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Maximum Recommended Support Spacing	<table><tr><th rowspan="2">Thickness TCT (mm)</th><th colspan="2">Roofing</th><th colspan="2">Wall Clading</th><th rowspan="2">Overhang (mm)</th></tr><tr><th>Internal Span (mm)</th><th>End Span (mm)</th><th>Internal Span (mm)</th><th>End Span (mm)</th></tr><tr><td>0.40</td><td>1600</td><td>1400</td><td>1850</td><td>1700</td><td>100</td></tr><tr><td>0.47</td><td>1700</td><td>1500</td><td>1950</td><td>1800</td><td>150</td></tr><tr><td>0.53</td><td>1850</td><td>1600</td><td>2150</td><td>1900</td><td>250</td></tr></table>	Thickness TCT (mm)	Roofing		Wall Clading		Overhang (mm)	Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	0.40	1600	1400	1850	1700	100	0.47	1700	1500	1950	1800	150	0.53	1850	1600	2150	1900	250																																																				
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Metal Roofing 762 NSR



Powin Steel Metal Roofing 762 NSR (POWIN 762 NSR) is quality profile, that is designed and engineered to meet the market needs. Its special anti-capillary features along side lap make it suited for hash weather condition.



Metal Roofing
762 NSR
(POWIN 762 NSR)

POWIN 762 NSR is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra AluZinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



Core AluZinc™

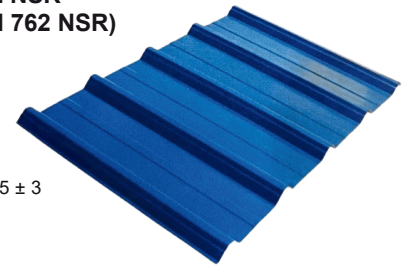
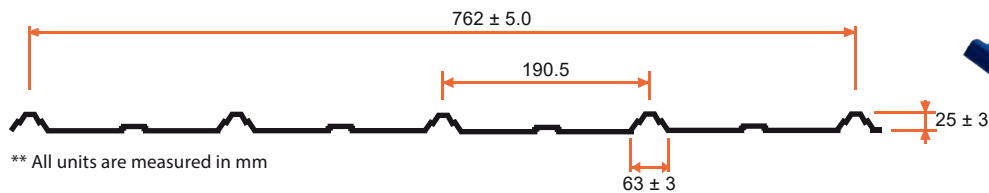
Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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Product Drawing

**Metal Roofing
762 NSR
(POWIN 762 NSR)**



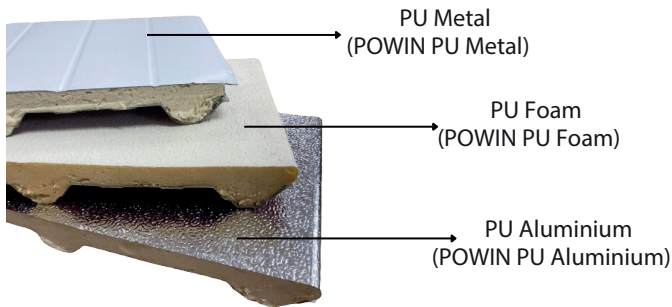
Thickness		Weight		Cover Width	Rib Height
BMT	TCT	kg/m	kg/m ²	mm	mm
0.18	0.230	1.523	2.00	762	25
0.20	0.250	1.712	2.25		
0.23	0.280	1.909	2.51		
0.26	0.300	2.136	2.80		
0.28	0.330	2.318	3.04		
0.30	0.350	2.545	3.34		
0.33	0.380	2.687	3.54		
0.35	0.400	2.992	3.93		
0.40	0.450	3.182	4.18		
0.42	0.470	3.409	4.47		
0.48	0.530	3.787	4.97		
0.50	0.550	3.939	5.17		

Product Specification

Profile	Powin Steel Metal Roofing 762 (POWIN 762 NSR)
Effective Width	762 mm
Depth of Rib	25 mm
Type of Material	Colour Coated Material / Aluzinc Material
Thickness	0.18 - 0.50 (BMT) / 0.230 - 0.550 (TCT) Refer to table above.
Weight	Refer to table above
Steel Grade	AS 1397 G550 / JIS G3312 CGC 570 / MS 2383:2011
Min. Yield Strength	G550 (Mpa) / G350 (Mpa)
Material Coating	AZ100 / AZ150
Roof Pitch	Recommended minimum is 3°
Available Length	Custom made lengths according to customer's order. Option for On-Site forming service is available upon request and subject to availability. (T&C apply)
Product Tolerance	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm Rib Height : ± 2 mm
Warranties	Powin Steel provides material warranties on individual project basic. (T&C apply)
Packing	POWIN 762 NSR are stacked sheet to sheet with top and bottom are protected with timber.
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing, and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.


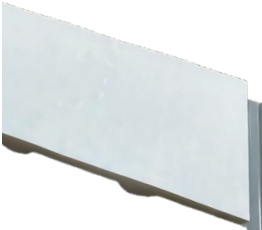
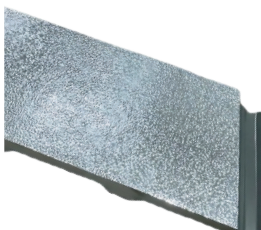
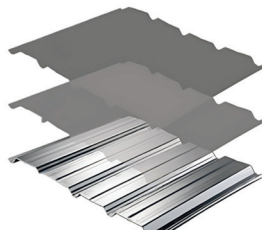
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Insulated Metal Roofing



Powin Steel's insulated metal roofing offers a comfort living environment by creating a barrier to reduce heat and noise from entering the building. We offer range of insulated roof panels comprise a wide variety of easy to fit, low maintenance roofing options with superior thermal performance.

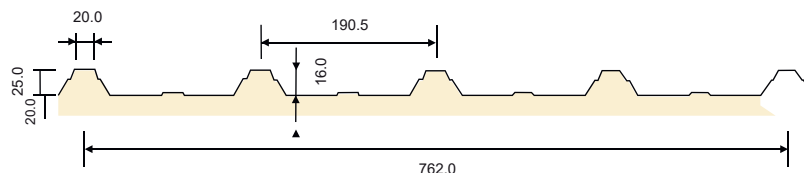
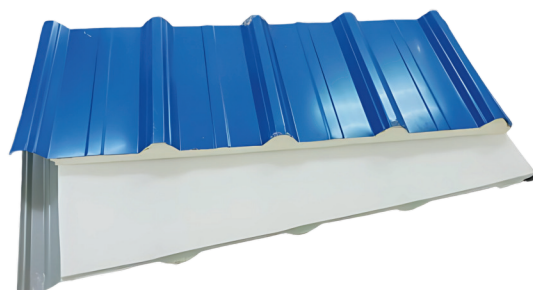
Product Specification

Profile	Powin Steel PU Metal (POWIN PU Metal)	Powin Steel PU Foam (POWIN PU Foam)	Powin Steel PU Aluminium (POWIN PU Aluminium)	Powin Steel OPP 3 in 1 (POWIN OPP 3 in 1)
				
Effective Width	762 mm			
Depth of Rib	43 mm	43 mm	43 mm	N.A.
Core Thickness	20, 25 mm	20, 25 mm	20, 25 mm	N.A.
Finishes (Outer Skin)	Profiled Metal Roofing 762			
Thickness Available (mm)	0.30 - 0.50 (BMT) / 0.350 - 0.550 (TCT)			
Material in between	CFC-free Rigid Polyurethane (PU)	CFC-free Rigid Polyurethane (PU)	CFC-free Rigid Polyurethane (PU)	Expanded polypropylene foam (EPE form)
Finishes (Inner Skin)	Aluminium Foil	Glossy White with Textured Surface (PVC Lamination)	Aluminium Foil	Aluminium Foil
Steel Grade	AS 1397 / JIS G3312			
Material Coating	AZ100 / AZ150			
Roof Pitch	Recommended minimum is $\geq 3^\circ$			
Available Length	Custom made lengths according to customer's order. Option for On-Site forming service is available upon request and subject to availability. (T&C apply)			
Product Tolerance	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm Core/Rib Thk : ± 5 mm	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm
Warranties	Powin Steel provides material warranties on individual project basic. (T&C apply)			
Packing	POWIN PU Metal / POWIN PU Foam / POWIN PU Aluminium / POWIN OPP 3in1 are stacked sheet to sheet with top and bottom are protected with timber.			
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.			

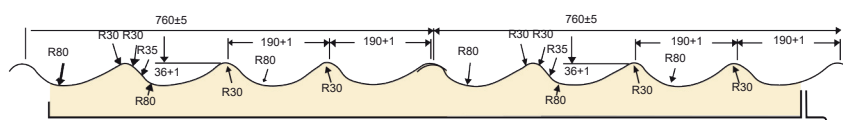
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Product Drawing

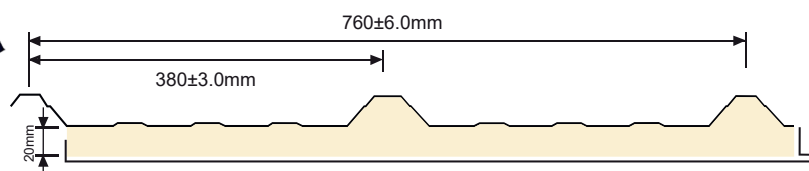
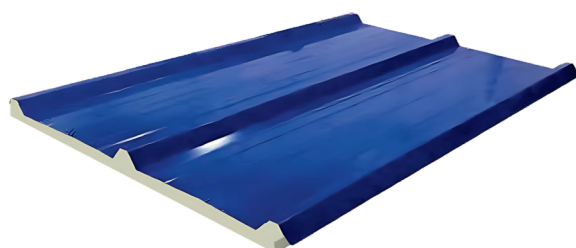
PU Foam 762



PU Foam Uroll Bond



PU Foam Mega Rib 35



POWIN Insulated Metal Roofing Series is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra Aluzinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



Core Aluzinc™

Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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High Rib 30



**High Rib 30
(POWIN HR 30)**



Powin Steel High Rib 30 (POWIN HR 30) is manufactured from high tensile steel protected with corrosion inhibitive treatment to meet metal roofing and walling needs on commercial, industrial projects and even residential projects.

POWIN HR 30 profiles are designed and engineered with highest performance that provides high strength and makes greater spans possible.

A unique combination of efficient coverage and striking profile bring out the best in any building project. POWIN HR 30 has special anti-capillary features which ensuring good spanning capability along side lap leading and water-discharge capacity. An attractive solution for roofing and wall cladding.

POWIN HR 30 is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra AluZinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



Core AluZinc™

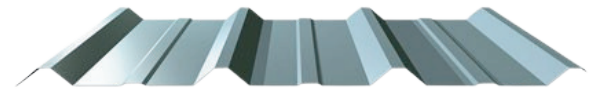
Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

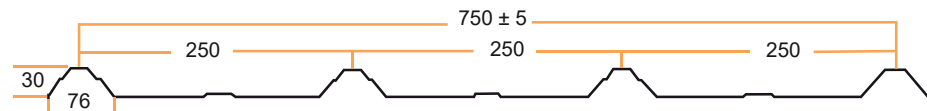
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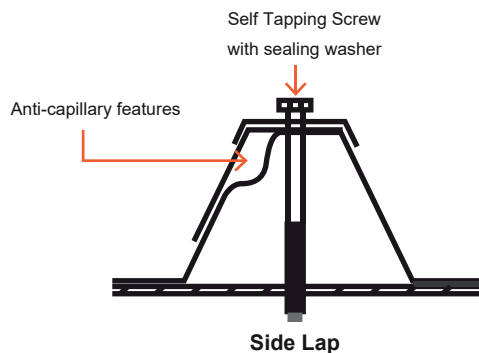
Product Drawing



**High Rib 30
(POWIN HR 30)**



** All units are measured in mm



Thickness TCT (mm)	Roofing		Wall Cladding		Free Cantilever
	Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	1700	1500	1950	1750	150
0.40	1900	1650	2150	1900	150
0.45	2000	1750	2250	2000	200
0.47	2500	1800	2300	2100	200

Product Specification

Profile	Powin Steel High Rib 30 (POWIN HR 30)
Effective Width	750 mm
Depth of Rib	30 mm
Steel Grade	AS 1397 G550 / JIS G3312 CGC 570 / MS 2383:2011
Min. Yield Strength	G550 (Mpa) / G350 (Mpa)
Material Coating	AZ100 / AZ150
Roof Pitch	Recommended minimum is 2°
Available Length	Custom made lengths according to customer's order. Option for On-Site forming service is available upon request and subject to availability. (T&C apply)
Product Tolerance	Length : ± 5 mm Width : ± 5 mm Thickness : ± 0.05 mm
Warranties	Powin Steel provides material warranties on individual project basic. (T&C apply)
Packing	POWIN HR 30 are stacked sheet to sheet with top and bottom are protected with timber.
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.

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Clip Lock 710



Clip Lock 710
(POWIN CL 710)



POWIN 710 Clip

Powin Steel Clip Lock 710 (POWIN CL 710) is a premier profile that combines concealed fastening feature with structural performance. No exposed fasteners are used thereby eliminating leakage occurrences and provides years of worry free performance.

Combines with smart fluted spans and a lock-action rib design, the distinctive appearance make POWIN CL 710 idea for a wide range of applications from low pitched roof such as petrol station, warehouse, exhibition halls, shop offices and etc to vertical ribbed cladding and well suited for commercial, industrial or residential roofing applications.

The deep rigid ribs allow safe and wide support spacing. Concealed fixing method with clip and locking system makes installation simpler and faster as POWIN CL 710 can be lowered in place and easily aligned thereby providing time and cost savings during installation. The specially designed POWIN 710 Clip interlocking the POWIN CL 710 delivers a guaranteed and reliable performance.

POWIN CL 710 is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra AluZinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



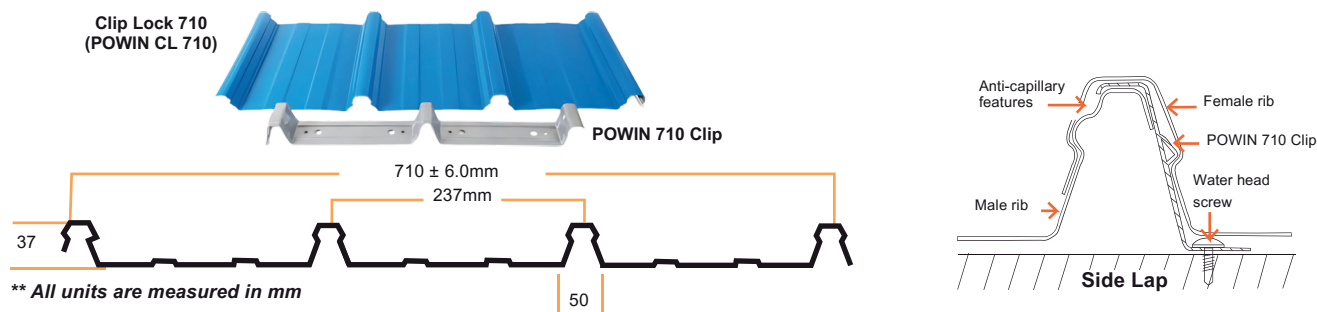
Core AluZinc™

Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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Product Drawing



Product Specification

Profile	Powin Steel Clip Lock 710 (POWIN CL 710)
Effective Width	710 mm
Depth of Rib	37 mm
Steel Grade	AS 1397 G550 / JIS G3312 CGC 570 / MS 2383:2011
Min. Yield Strength	G550 (Mpa)
Material Coating	AZ100 / AZ150
Roof Pitch	Recommended minimum is 1°
Available Length	Custom made lengths according to customer's order. Option for On-Site-forming service is available upon request and subject to availability. (T&C apply)
Product Tolerance	Length : ± 10 mm Width : ± 6 mm Thickness : ± 0.05 mm
Warranties	Powin Steel provides material warranties on individual project basis. (T&C apply)
Packing	POWIN CL 710 are stacked sheet to sheet with top and bottom are protected with timber.
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.

Specifications				Wind Capacity Load Span								Max. Recommended Support Spacing				
Thickness (mm)		Weight		Uniformly Distribution Load (kN/M²)								Roofing (mm)		Wall Cladding (mm)		Overhang (mm)
BMT	TCT	kg/m	kg/m²	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	Internal Span	End Span	Internal Span	End Span	
0.40	0.47	3.182	4.735	30.83	9.11	3.83	1.94	1.11	0.69	0.45	0.31	1350	1250	3050	2550	150
0.48	0.53	3.787	5.635	37.00	10.94	4.59	2.33	1.31	0.83	0.54	0.37	1400	1300	3100	2600	200
0.50	0.55	3.939	5.862	38.55	11.39	4.78	2.43	1.39	0.86	0.56	0.38	N.A.				

Installation Procedure

Step 1 : Fasten POWIN 710 Clip with wafer head self tapping screw.

Step 2 : Install first POWIN CL 710 roofing sheet at its ribs on the clip.

Step 3 : Place the next POWIN 710 Clip over the male rib of the first POWIN CL 710 roofing sheet. Fasten the clip with wafer head self tapping screw.

Step 4 : Place the succeeding POWIN CL 710 roofing sheet with female rib cover the clip and male rib of the previous roofing sheet.

Step 5 : Ending-secure down the end POWIN CL 710 roofing sheet with cut-off clip.

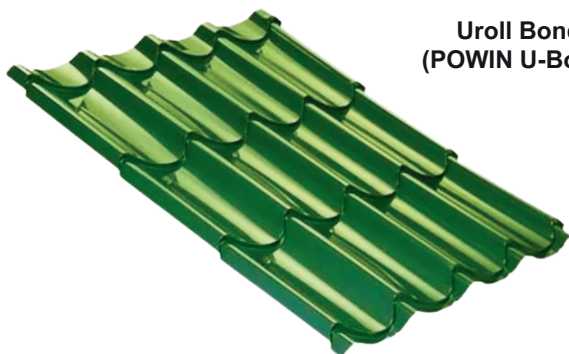
POWIN CL 710 Fastening method on insulation wool

Direction of laying →

← Prevailing wind direction

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Uroll Bond



**Uroll Bond
(POWIN U-Bond)**

Powin Steel Uroll Bond (POWIN U-Bond) is one of the most stylish steel-tiled roofing profile which well recognized by the public. Architects and designers also recognized POWIN U-Bond as a way to enhance the aesthetic appearance of the commercial and residential project, which is ideally suited as the best replacement for traditional clay tiles.

POWIN U-Bond is protected with corrosion inhibitive treatments and coating designed to provide broad spectrum of performance which minimized maintenance and extend durability, which becomes ideal for all building's roof.

POWIN U-Bond is highly durable, easy to carry, maneuver and install which does not require special practice. Correct length can be put together quickly which form an aesthetic in appearance. It is strong, safe and very much lighter than traditional concrete tile. A lighter roof structure leads to saving in roof system construction cost.

POWIN U-Bond is crafted with premium **UltraShield™**, **CoreShield™**, **Ultra Aluzinc™**, or **Core Aluzinc™** materials — offering lasting durability with perforation warranty protection, and added peace of mind with colour fading warranties for coated options. (T&C apply)



UltraShield™

Material Coating	Matt Series / PVF ₂ Series
Thickness Available (TCT)	0.47 mm - 1.0 mm
Against Perforation by Corrosion	up to 30 years* warranty
Against Excessive Colour Fading	up to 12 years* / 20 years* warranty
Against Dirt Staining	up to 5 years* warranty

*T&C apply



Ultra AluZinc™

Material Coating	AZ150
Thickness Available (TCT)	0.35 mm - 1.0 mm
Against Perforation by Corrosion	up to 25 years* warranty

*T&C apply



CoreShield™

Material Coating	PPGI / PPGL
Thickness Available (TCT)	0.28 mm - 0.53 mm
Against Perforation by Corrosion	up to 15 years* warranty
Against Excessive Colour Fading	up to 8 years* warranty

*T&C apply



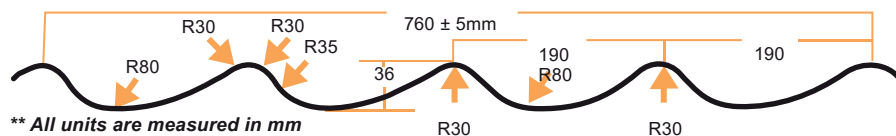
Core AluZinc™

Material Coating	AZ100
Thickness Available (TCT)	0.28 mm - 0.47 mm
Against Perforation by Corrosion	up to 15 years* warranty

*T&C apply

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Product Drawing



Thickness Base Metal (BMT) (mm)	Total Coated Thickness (mm)	*Weight per metre (kg/m)	Weight sq metre (kg/m ²)	*Coverage per ton (m ² /MT)
0.35	0.40	2.73	3.65	3.78
0.42	0.48	3.24	4.32	4.48
0.48	0.55	3.67	4.89	5.07

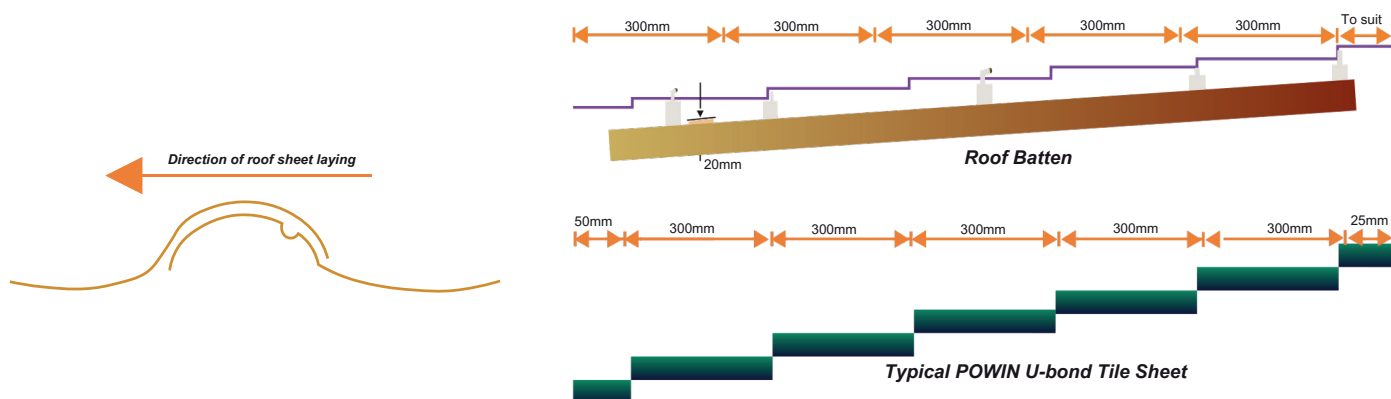


**Uroll Bond
(POWIN U-Bond)**

Product Specification

Profile	Powin Steel Uroll Bond (POWIN U-bond)
Effective Width	760 mm
Depth of Rib	36 mm
Steel Grade	AS 1397 / JIS G3312 / MS 2383:2011
Material Coating	AZ100 / AZ150
Roof Pitch	Recommended minimum is 5°
Available Length	Custom made lengths according to customer's order. Option for On-Site forming service is available upon request and subject to availability. (T&C apply)
Product Tolerance	Length : ± 10 mm Width : ± 5 mm Thickness : ± 0.05 mm
Warranties	Powin Steel provides material warranties on individual project basic. (T&C apply)
Packing	POWIN U-bond are stacked sheet to sheet with top and bottom are protected with timber.
Delivery, Storage, Handling	Upon delivery, exercise care in unloading, stacking, moving, storing and erecting to prevent twisting, bending, scratching, or denting. Store in a safe, dry environment under a waterproof covering. Allow adequate ventilation to prevent condensation.

Installation Guide



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POWIN Thermal Solution

Double Skin Roof System (0.32W/m²K U-Value)

POWIN Thermal Solution is designed to reduce heat transmission and improve indoor comfort in tropical climates. With advanced insulation and a double skin roof structure, it lowers energy use, enhances sustainability, and provides an efficient, cost-effective solution for both residential and commercial buildings.

Structure

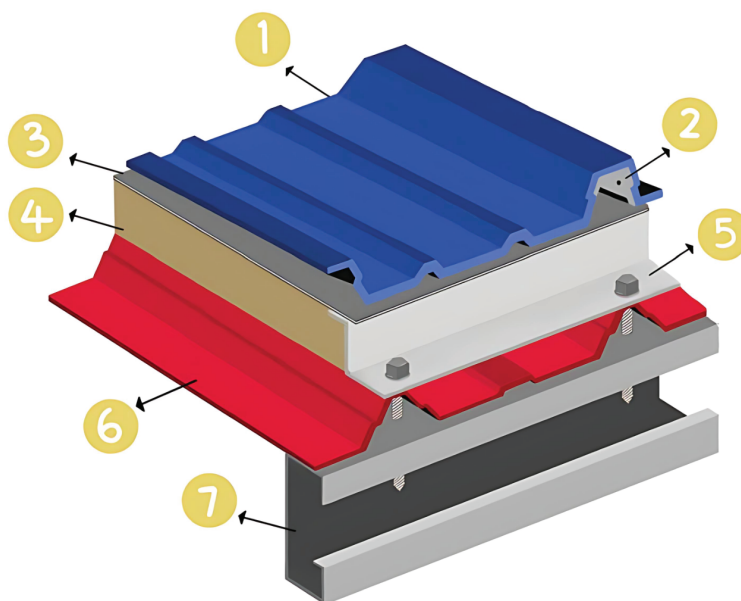
1. POWIN Clip Lock 710 (POWIN CL 710) - 0.47mm TCT AZ150 / AZ200 (*Warranty Offer : Coreshield / Ultrashield)
2. POWIN 710 Clip
3. Double Sided Aluminium Foil
4. Rockwool 50 mm thickness, 40kg/m³
5. GI Z Spacer 1.0mm thickness
6. POWIN 762 - 0.35mm TCT AZ100 / AZ150
7. POWIN C Purlin, Zinc Coating Z275 - PWC150160 (Z275)

✓ Up to 30 years* against perforation by corrosion (*T&C apply)



Application

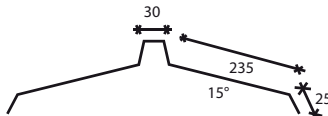
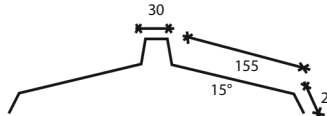
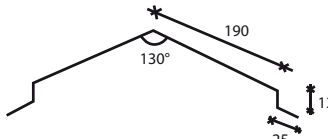
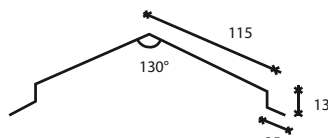
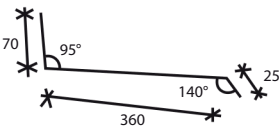
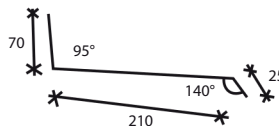
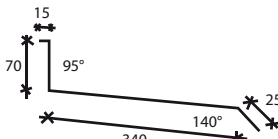
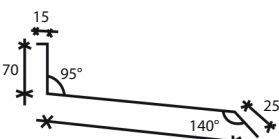
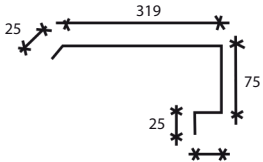
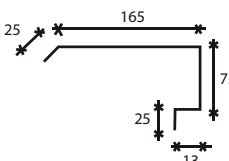
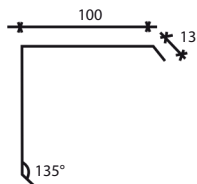
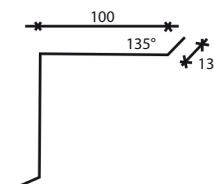
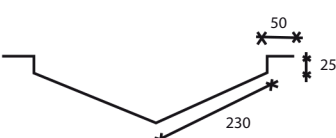
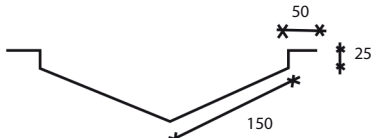
- Data Centers
- Agricultural Facilities / Indoor Farming
- Commercial Buildings
- Industrial Warehouses
- Educational Institutions
- Healthcare Facilities
- Luxury Residential Developments
- Green Building Projects



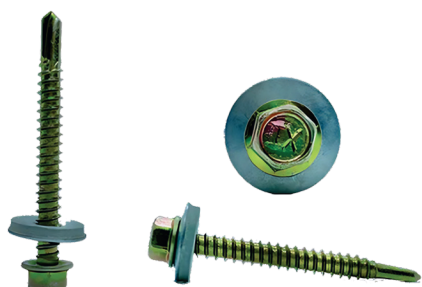
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Roofing Accessories

Capping

<p>RIDGE CAPPING TYPE 24</p> 	<p>RIDGE CAPPING TYPE 18</p> 	<p>HIP CAPPING TYPE 18</p> 
<p>HIP CAPPING TYPE 12</p> 	<p>FLASHING TYPE 18a</p> 	<p>FLASHING TYPE 12a</p> 
<p>FLASHING TYPE 18c</p> 	<p>FLASHING TYPE 12c</p> 	<p>FASCIA/BARGE CAPPING TYPE 18</p> 
<p>FASCIA/BARGE CAPPING TYPE 12</p> 	<p>CORNER CAPPING TYPE 9E</p> 	<p>CORNER CAPPING TYPE 9I</p> 
<p>VALLEY TRAY TYPE 24</p> 	<p>VALLEY TRAY TYPE 18</p> 	

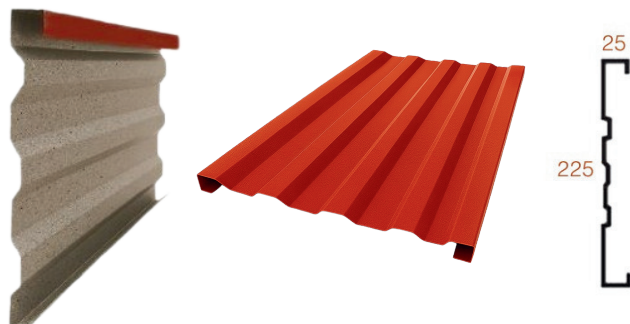
Screw



Type	Size	Coating	Nut Head
Hex Head 9 (SDS) Washer, Harden, Zic Yellow	# 12 x 2"	Zinc Plate, Harden	Hex Nut

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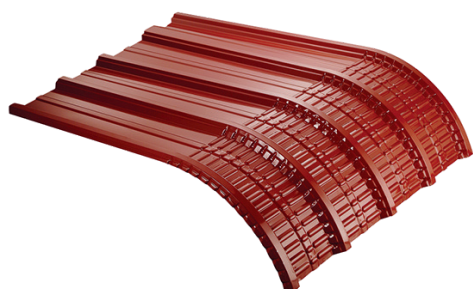
Fascia Board



Size (mm)	Available Thickness (mm)	Length (mm)
225	0.48	6000

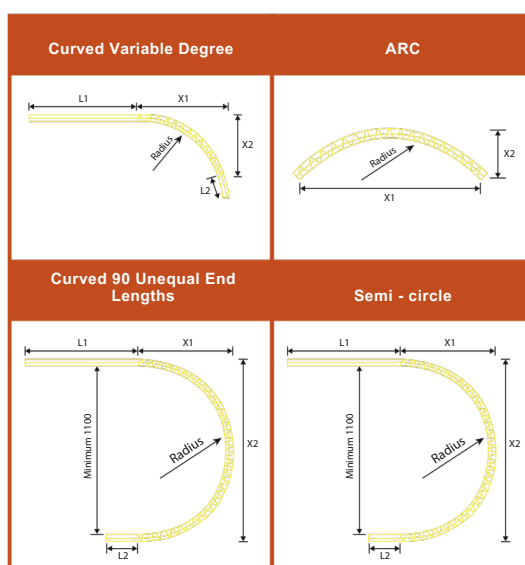
Colour Chart				
Fina Blue	Brick Red	Fantasia Green	Gravity Grey	Nada Beige
Marakan Red	Almond Brown	Phantom Grey	Aluzinc	Lily White

Crimp Curve Roofing



Powin Steel Metal Roofing 762 is available with crimp curved which enhance the aesthetic appearance of any roof. These crimp curved profiles provide unparalleled scope for creative design of your building. It is easy to install and the end result provides a great-looking roof.

Type of crimp curves



Flat Sheet

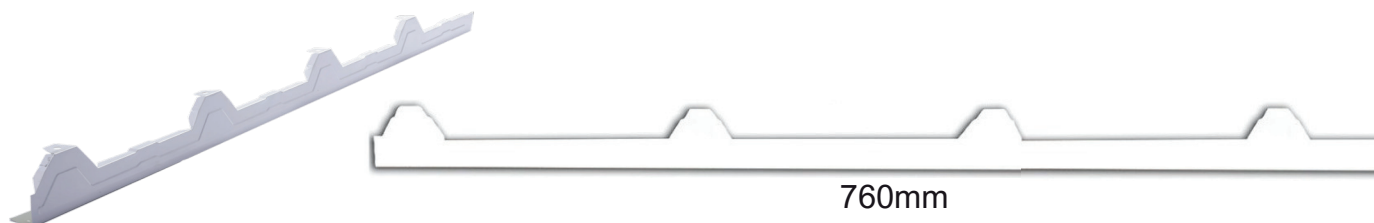


Width (mm)	Length (mm)	Thickness Available TCT (mm)	Colour
914 / 1219	*upon request	0.23 - 3.0	*available in colour chart

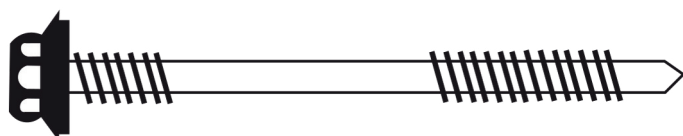
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PU Metal Accessories

PU Metal End Capping



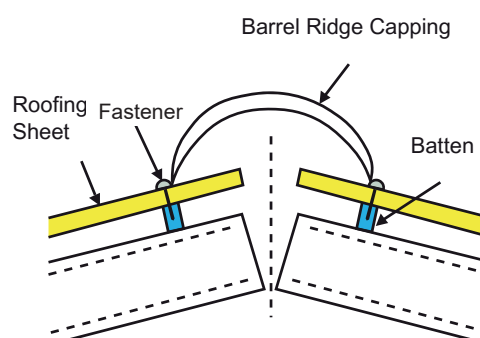
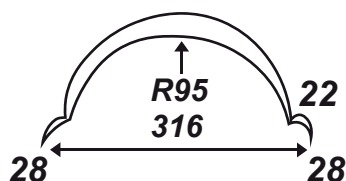
PU Screw



PU Foam Thickness	PU Screw Size
PU Foam 20mm	DS 665 HW #12X2 1/2"

Uroll Bond Accessories

Barrel Capping



Type R	Available Thickness (mm)		
(mm)	Colour	G.I	Aluzinc
18	*except Almond Brown	-	-
Barrel Capping			
18" X 8FT X 0.35MM			



End Cap

End Cap
360MM



Three Way

Three Way
APEX RIDGE 0.35MM

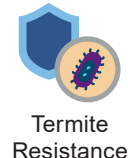


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Colour Chart

Matt Colour	<div data-bbox="311 399 516 610"> </div> <div data-bbox="250 624 587 764"> <p>✓ Up to 30 years* against perforation by corrosion ✓ Up to 12 years* against excessive colour fading</p> </div> <div data-bbox="662 344 1058 486"> </div> <div data-bbox="732 493 987 560"> <p>MattWhite SR: 0.68 SRI: 82.83</p> </div> <div data-bbox="1097 344 1497 486"> </div> <div data-bbox="1166 493 1427 560"> <p>MattSilver SR: 0.50 SRI: 58.02</p> </div> <div data-bbox="662 594 1058 737"> </div> <div data-bbox="732 739 987 808"> <p>MattGrey SR: 0.30 SRI: 30.90</p> </div> <div data-bbox="1097 594 1497 737"> </div> <div data-bbox="1166 739 1427 808"> <p>MattBlack SR: 0.25 SRI: 24.70</p> </div>
Premium Colour	<div data-bbox="662 881 1058 1024"> </div> <div data-bbox="774 1035 933 1069"> <p>Toll Green</p> </div> <div data-bbox="1097 881 1497 1024"> </div> <div data-bbox="1205 1035 1386 1069"> <p>Pearl White</p> </div>
Signature Colour	<div data-bbox="219 1148 618 1290"> </div> <div data-bbox="342 1299 490 1336"> <p>Fina Blue</p> </div> <div data-bbox="662 1148 1058 1290"> </div> <div data-bbox="779 1299 930 1336"> <p>Brick Red</p> </div> <div data-bbox="1097 1148 1497 1290"> </div> <div data-bbox="1205 1299 1386 1338"> <p>Nada Beige</p> </div> <div data-bbox="219 1382 618 1524"> </div> <div data-bbox="302 1533 531 1570"> <p>Fantasia Green</p> </div> <div data-bbox="662 1382 1058 1524"> </div> <div data-bbox="742 1533 969 1570"> <p>Almond Brown</p> </div> <div data-bbox="1097 1382 1497 1524"> </div> <div data-bbox="1195 1533 1398 1572"> <p>Gravity Grey</p> </div> <div data-bbox="219 1618 618 1761"> </div> <div data-bbox="354 1772 477 1809"> <p>AluZinc</p> </div> <div data-bbox="662 1618 1058 1761"> </div> <div data-bbox="755 1772 954 1809"> <p>Marakan Red</p> </div> <div data-bbox="1097 1618 1497 1761"> </div> <div data-bbox="1182 1772 1409 1813"> <p>Phantom Grey</p> </div>

**All colour shown above are close to the actual Powin Steel metal roofing steel colour as the limitations of the printing process may affect the actual colour tone. *T&C apply








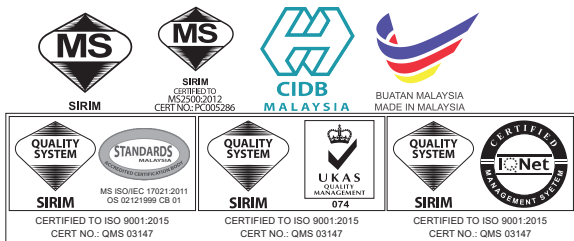
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