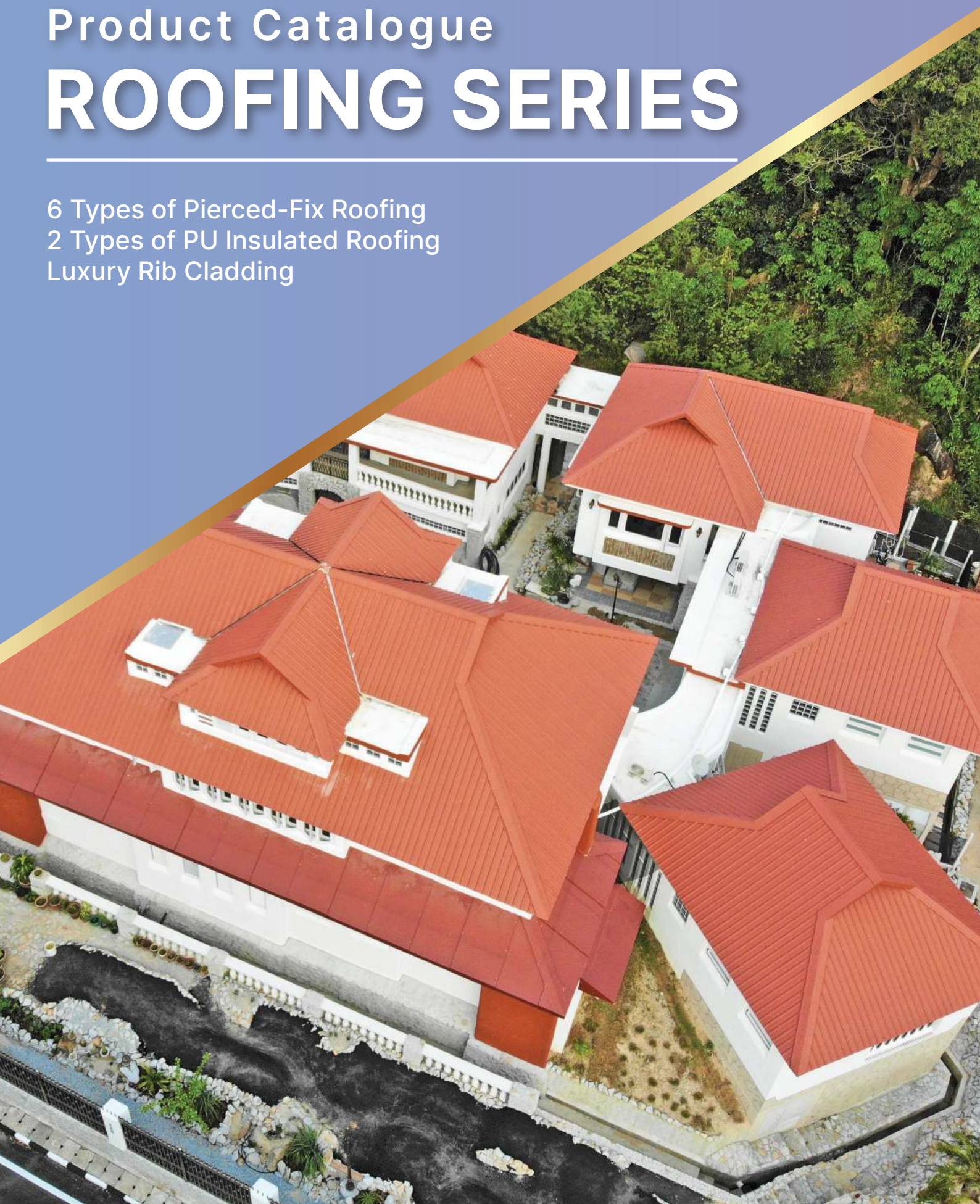




Product Catalogue

ROOFING SERIES

6 Types of Pierced-Fix Roofing
2 Types of PU Insulated Roofing
Luxury Rib Cladding

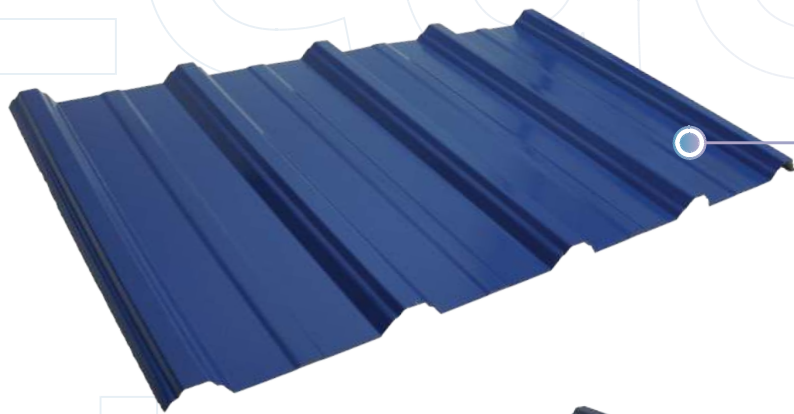


Ledex® Flex Roofing is one of the most popular metal roofing sheet in the market. It offers economical and attractive solution for the needs of commercial, industrial or any building project roofing and wall cladding. Ledex® Flex Roofing is made from steel of the highest quality.

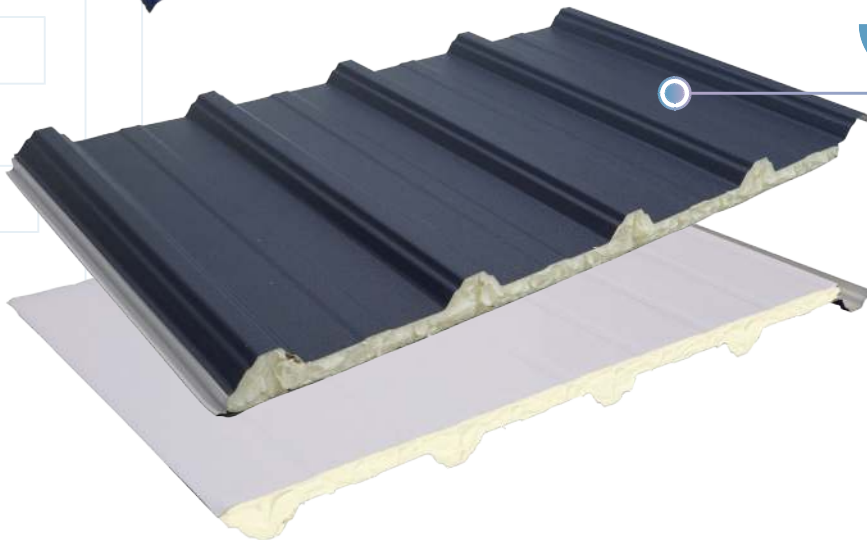
It is available in the range of Zinc and Aluminum Alloy coated steel, allowing the product to be corrosion-resistant and durable. User-friendly Ledex® Flex Roofing can be customized cut to any specific length provided from site measurement.



Ledex[®] Flex Roofing



Ledex[®] Flex Roofing



Ledex[®] Flex PU Roofing

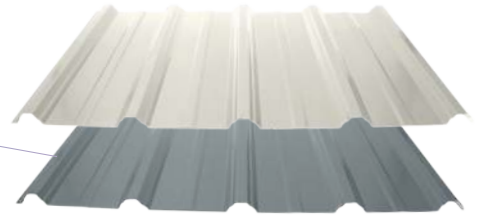
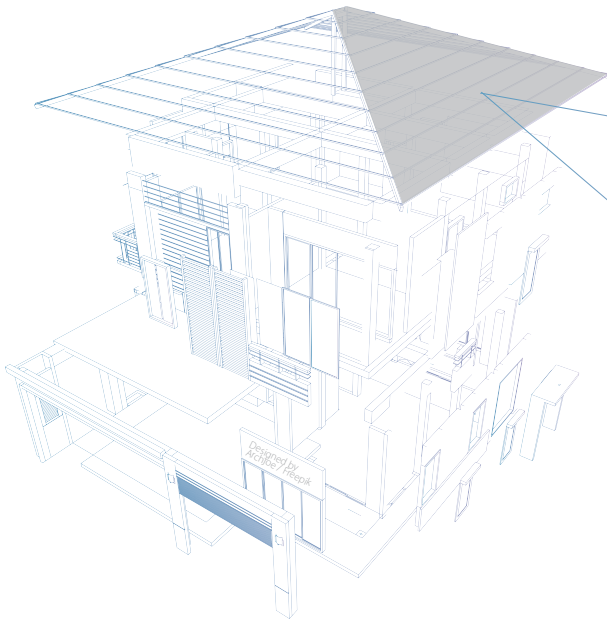
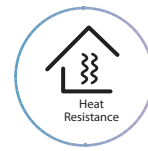


Ledex[®] Flex PU Crimp Curve Roofing

WHERE CAN IT APPLY

- Factory
- Wall Cladding & Fascia
- Facility Roof Extensions
- Commercial Buildings
- Residential Roofing

Ledex® Flex Roofing



Ledex® Flex Roofing



Ledex® Flex PU Roofing

BQ Specification

Ledex® Flex PU Foam 25mm Roofing 0.40 mm TCT



Details to be mentioned in BQ specification:

1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Roof Pitch
8. Warranty

Example

Design, fabricate and install "Ledex® Flex Pu Foam 25 mm Roofing" 0.40 mm TCT In Bluescope Prima Maju AZ100 with approved color ; laid to fall at minimum 3° and fixed to Ledex C Purlin (measured separately) including fixing accessories, capping, flashing and all necessary works; all in accordance with Architect's drawing, manufacturer's instruction and specification.

(Up to 15 years warranty on perforated by corrosion)

Material warranty on perforated by corrosion:

- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs Natural AZ90
- Up to 15 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
 - Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
 - Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply

Polyurethane (PU) Foam



Insulation system made up of 3 layers which consists of prepainted metal sheet, rigid Polyurethane (PU) foam with inner layer fire-retardant aluminium foil 0.22 mm lamination

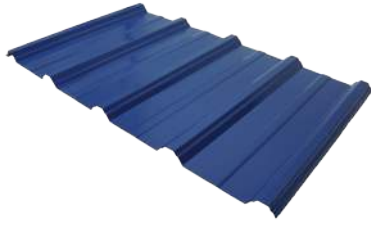
Polyurethane (PU) Metal



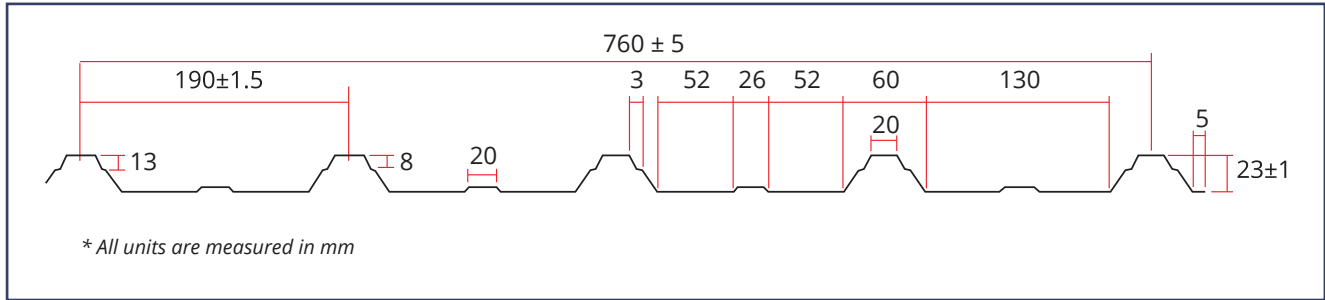
Insulation system made up of 3 layers which consists of a layer of rigid Polyurethane (PU) foam in between two prepainted metal sheets



Certified Bomba with Class 'O' Certificate



Specification Drawing



Product Specification

Profile	Ledex [®] Flex Roofing
Effective Width	760 mm
Depth of Rib	23 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	5° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.20	0.25	1.50
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.35	0.40	14.34	6.36	3.56	2.27	1.56	1.14
0.40	0.45	17.37	7.72	4.31	2.74	1.89	1.38
0.42	0.47	17.84	7.95	4.43	2.82	1.95	1.42
0.48	0.53	20.81	9.22	5.17	3.29	2.27	1.65

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	3°	5°	7°	10°
150	50	60	80	101
200	39	50	60	76
250	31	40	48	61
300	26	30	40	49
400	8	10	11	13

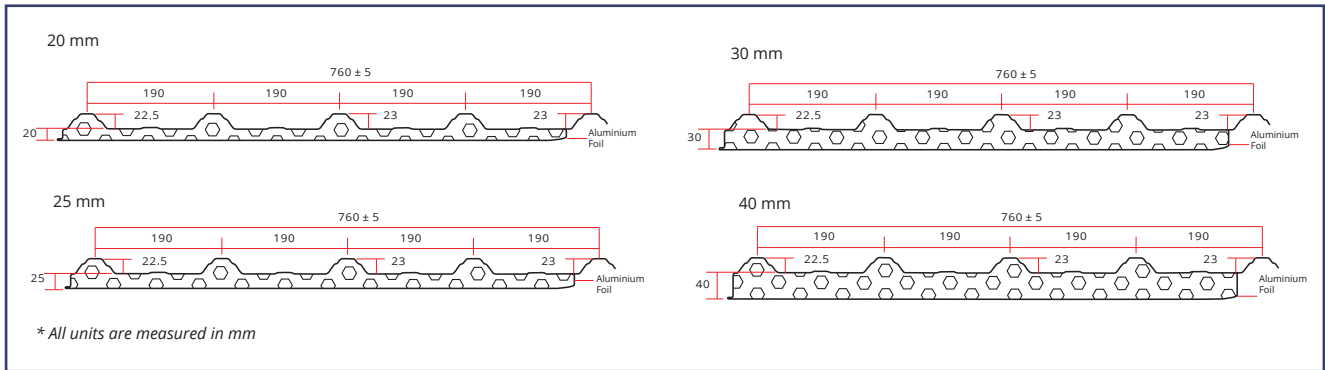
Maximum Recommended Spacing of Supports

Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1200	900	1500	1200	100
0.40	0.45	1500	1200	1800	1500	100
0.42	0.47	1550	1350	1850	1550	150
0.48	0.53	1800	1600	2050	1800	200

LEDEX® FLEX PU FOAM ROOFING



Specification Drawing



Product Specification

Profile	Ledex® Flex PU Foam Roofing
Effective Width	760 mm
Depth of Rib	23 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Inner Layer Finishing	Aluminium Foil 0.22 mm
PU Foam Thickness	20 mm, 25 mm, 30 mm, 40 mm
PU Foam Insulation Density	35 kg/m ³ - 40 kg/m ³
Minimum Roof Pitch	3° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

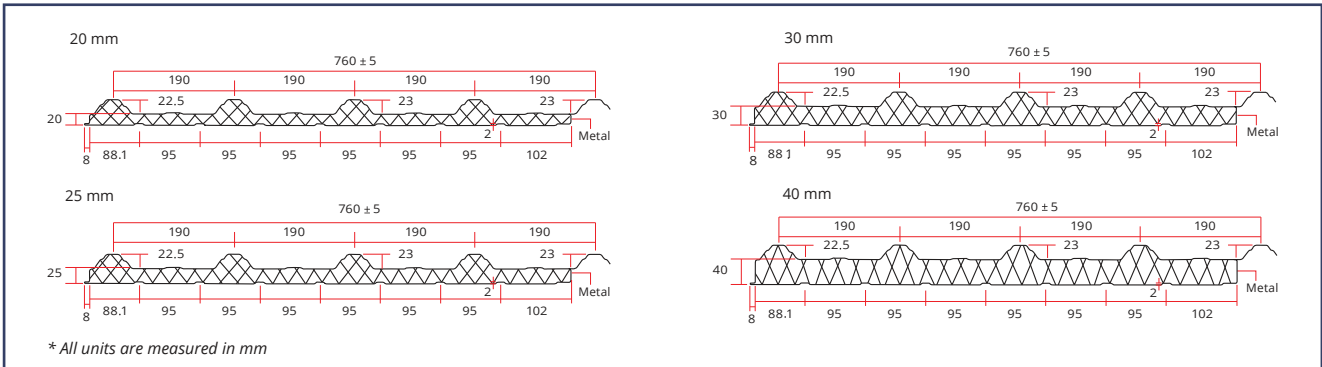
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	PU Foam 20 mm (kg/m)	PU Foam 25 mm (kg/m)	PU Foam 30 mm (kg/m)	PU Foam 40 mm (kg/m)
0.25	0.30	2.65	2.82	3.02	3.21
0.30	0.36	3.05	3.22	3.42	3.61
0.35	0.40	3.45	3.62	3.82	4.01
0.40	0.45	3.75	3.92	4.12	4.31
0.42	0.47	3.85	4.02	4.22	4.41
0.48	0.53	4.35	4.52	4.72	4.91

LEDEX® FLEX PU METAL ROOFING



Specification Drawing



Product Specification

Profile	Ledex® Flex PU Metal Roofing
Effective Width	760 mm
Depth of Rib	23 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Inner Layer Finishing	Metal 0.25 mm, 0.30 mm
PU Foam Thickness	20 mm, 25 mm, 30 mm, 40 mm
PU Foam Insulation Density	35 kg/m ³ - 40 kg/m ³
Minimum Roof Pitch	3° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	PU Metal 20 mm (kg/m)	PU Metal 25 mm (kg/m)	PU Metal 30 mm (kg/m)	PU Metal 40 mm (kg/m)
0.25	0.30	4.15	4.32	4.92	5.11
0.30	0.36	4.55	4.72	5.32	5.51
0.35	0.40	4.95	5.12	5.72	5.91
0.40	0.45	5.25	5.42	6.02	6.21
0.42	0.47	5.35	5.52	6.12	6.31
0.48	0.53	5.85	6.02	6.62	6.81
		Inner Layer Metal 0.25 mm TCT		Inner Layer Metal 0.30 mm TCT	

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.35	0.40	14.34	6.36	3.56	2.27	1.56	1.14
0.40	0.45	17.37	7.72	4.31	2.74	1.89	1.38
0.42	0.47	17.84	7.95	4.43	2.82	1.95	1.42
0.48	0.53	20.81	9.22	5.17	3.29	2.27	1.65

Maximum Recommended Spacing of Supports

Ledex® Flex PU Foam and PU Metal (20 mm & 25 mm)						
Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1650	1450	1900	1750	150
0.40	0.45	1700	1500	1950	1800	150
0.42	0.47	1750	1550	2000	1850	180
0.48	0.53	1900	1700	2200	1950	250

Ledex® Flex PU Foam and PU Metal 30 mm						
Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1700	1500	1950	1800	180
0.40	0.45	1800	1600	2000	1850	200
0.42	0.47	1850	1650	2050	1900	200
0.48	0.53	2000	1800	2250	2100	250

Ledex® Flex PU Foam and PU Metal 40 mm						
Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1750	1550	2000	1850	200
0.40	0.45	1850	1650	2100	1950	250
0.42	0.47	1900	1700	2150	2000	250
0.48	0.53	2100	1900	2250	2200	300

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	3°	5°	7°	10°
150	50	60	80	101
200	39	50	60	76
250	31	40	48	61
300	26	30	40	49
400	8	10	11	13

Insulation Properties

Item	Specifications			
Type of Insulation	Rigid Polyurethane Foam			
Foam Density	35 - 40kg/m ³			
Insulation Grade	Non CFC, Non HCFC			
K Value (Thermal Conductivity)	0.024 w/mk - 0.026 w/mk			
Thickness of Insulation	20 mm	25 mm	30mm	40 mm
U Value (Thermal Transmittance)	1.20 w/m ² k	0.96 w/m ² k	0.80 w/m ² k	0.60 w/m ² k
R Value (Thermal Resistance)	0.83 w/mk	1.04 w/mk	1.25 w/mk	1.67 w/mk

Comparison of Products

Description	Products					
	PU Metal	Polymer	Mineral Wool Board	Moulding PS	Polystyrene	PE Board
Intensity (g/cm ²)	0.032	0.030	0.5	0.030	0.02	0.04
Strength (kg/cm ²)	1.75 - 3.5	2.5 - 3.0	15	2.5 - 3.0	-	0.97
Absorption (Vol%)	> 0.5	> 0.5	High	> 0.5	High	-
Shear Stress (Koal/m.hr°C)	0.020	0.035	0.13	0.032	0.032	0.031
Transmission (gcm/m ² hmmhg)	0.035	0.050	High	0.097	6.60	0.02

LEDEX® FLEX CRIMP CURVE / SEMI CURVE ROOFING

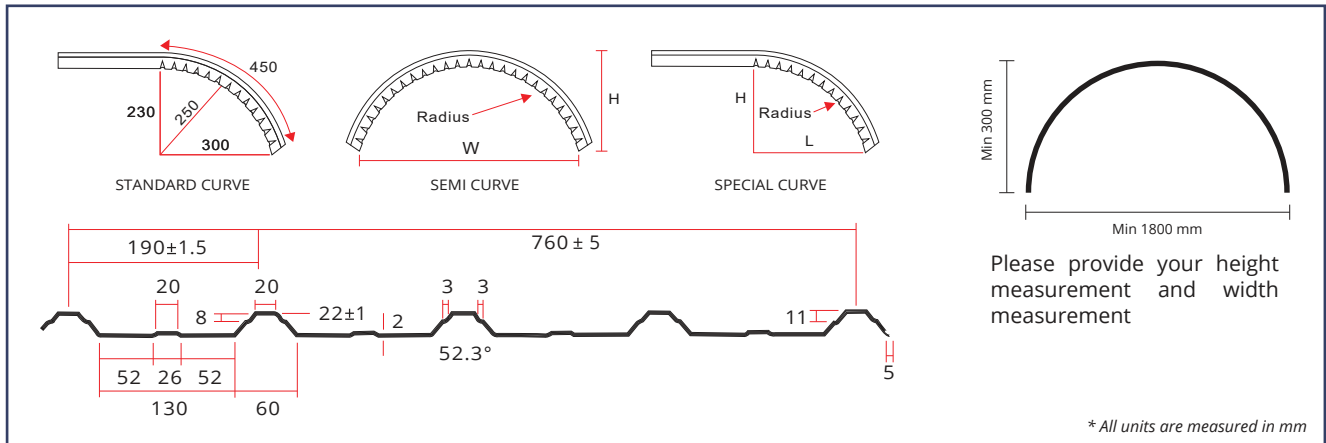


Semi Curve



Crimp Curve

Specification Drawing



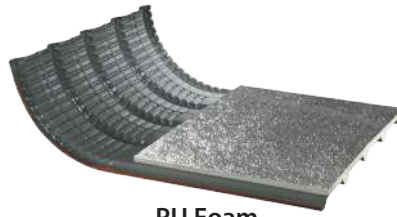
Product Specification

Profile	Ledex® Flex Crimp Curve Roofing
Effective Width	760 mm
Depth of Rib	23 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	5° Sheet without end lap
Semi Curve Curvature	Natural Curve: > 80 mr Radius / Crimp Curve: > 600 mr Radius
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

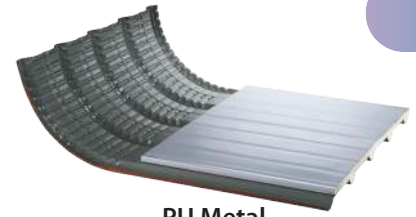
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.20	0.25	1.50
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

LEDEX® FLEX PU CRIMP CURVE ROOFING

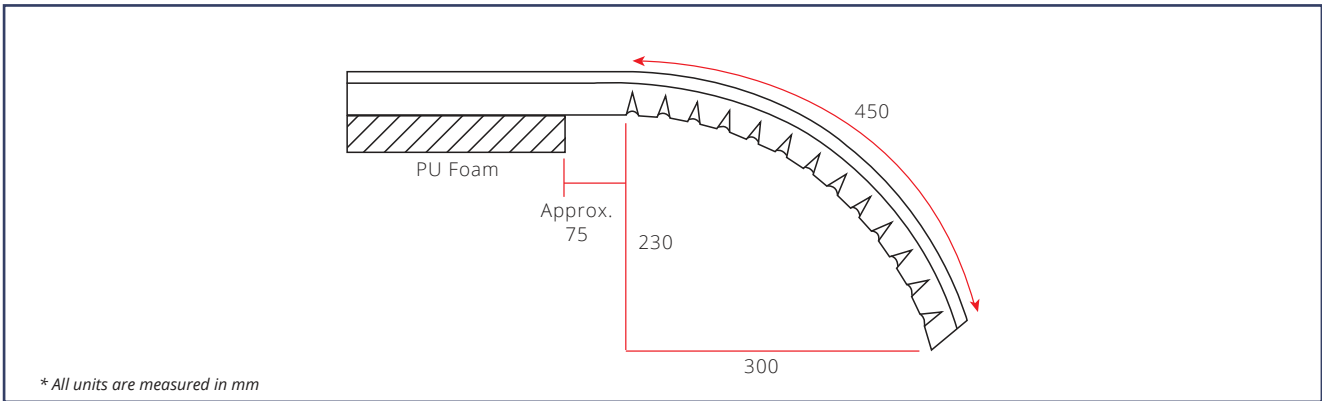


PU Foam



PU Metal

Specification Drawing

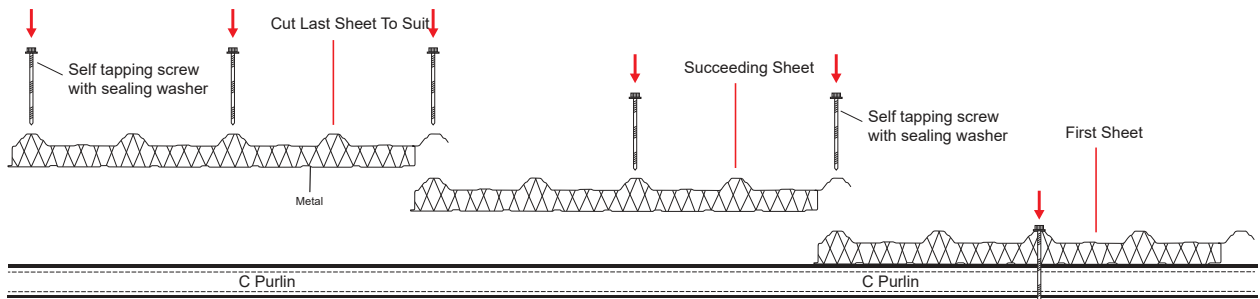


Product Specification

Profile	Ledex® Flex PU Crimp Curve Roofing			
Effective Width	760 mm			
Depth of Rib	23 mm			
Steel Grade	Zincalume G300 Steel			
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond			
Inner Layer Finishing (PU Foam)	Aluminium Foil 0.22 mm			
Inner Layer Finishing (PU Metal TCT)	Metal 0.25 mm, 0.30 mm			
PU Foam Thickness (Foam)	20 mm, 25 mm, 30 mm, 40 mm			
PU Foam Thickness (Metal)	20 mm, 25 mm, 30 mm, 40 mm			
PU Foam Insulation Density	35 kg/m ³ - 40 kg/m ³			
K Value (Thermal Conductivity)	0.024 w/mk - 0.026 w/mk			
PU Foam Thickness	20 mm	25 mm	30 mm	40 mm
R Value (Thermal Resistance)	0.7692 w/mk	0.962 w/mk	1.154 w/mk	1.539 w/mk
U Value (Thermal Transmittance)	1.30 w/m ² k	1.04 w/m ² k	0.867 w/m ² k	0.65 w/m ² k
Natural Curve Curvature (PU Foam)	Natural Curve: > 80 mr Radius / Crimp Curve: > 600 mr Radius			
Minimum Roof Pitch	3° Sheet without end lap			
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm			

INSTALLATION

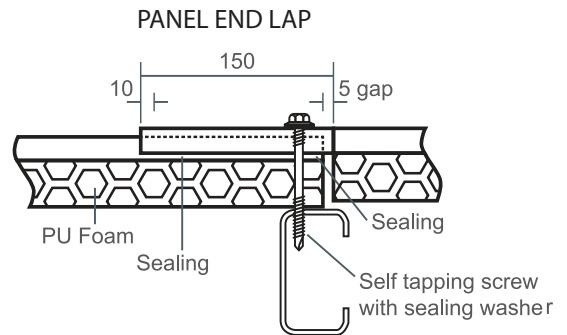
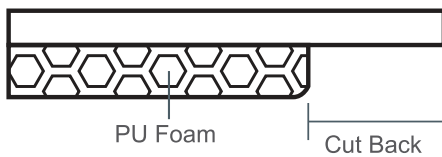
Roofing Installation



Panel End Cut Back

For Installation of insulated metal roof, the following measures are recommended :

- Minimum setback 6 inch (100 mm)
- Cut Back at end laps - 4 inch (100 mm)
- 6 inch (150 mm)



FIXING

Roofing



Crest fixing to steel
no. 12 x 45 mm self drilling
and tapping Hexagon Head
Screw with pre-assembled
neoprene bonded steel
washer.

Crest fixing to timber
no. 10 x 59 mm self drilling
and tapping Hexagon Head
Screw with pre-assembled
neoprene bonded steel
washer.

Wall

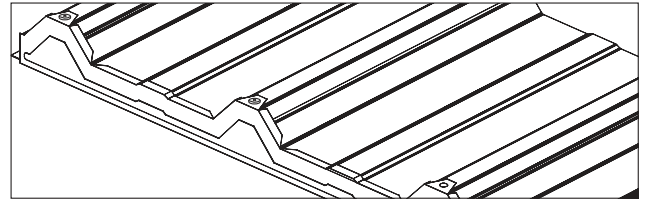
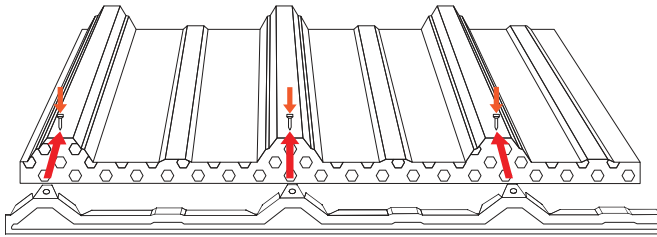
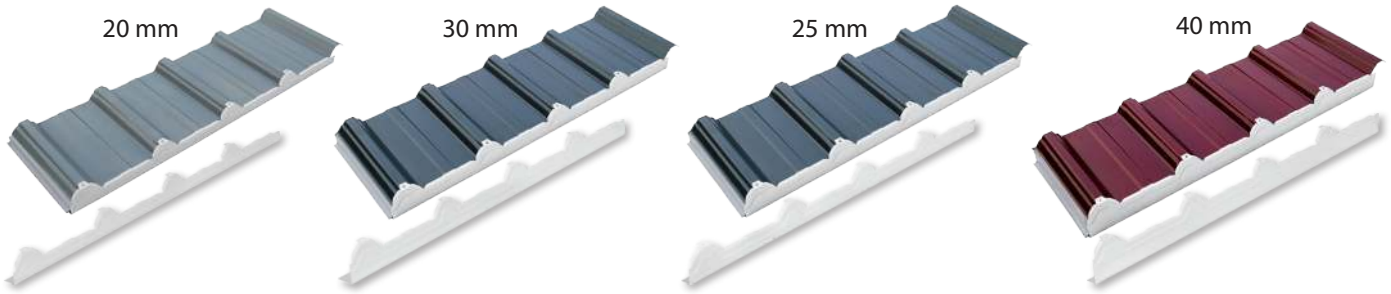


Valley fixing to steel
no. 10 x 20 mm self drilling
and tapping Hexagon Head
Screw with pre-assembled
neoprene bonded steel
washer.

Valley fixing to steel
no. 10 x 25 mm self drilling
and tapping Hexagon Head
Screw with pre-assembled
neoprene bonded steel
washer.

ACCESSORIES

Ledex® PU Foam and PU Metal End Capping

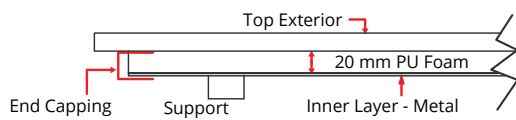


After Installation

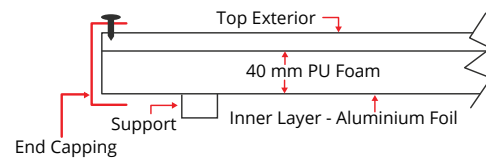
Ledex® PU Foam and PU Metal End Capping



Free End Capping Side View (Slot In)



Full End Capping Side View (Screw In)



PROJECT REFERENCE



Project Title: Chung Ling High School
Location : Ayer Itam, Penang



Project Title: PPK Anggerik Lestari
Location : Pulau Langkawi, Kedah



Project Title: Taman Casa Maya
Location : Sungai Dua, Penang

PROJECT REFERENCE



Project Title: WBFB Food Industry
Location : Alor Setar, Kedah



Project Title: Auditorium Kota Mahsuri
Location : Langkawi, Kedah



Project Title: Pasar Awam MBSP
Location : Perai, Penang

PROJECT REFERENCES



Project Title: SMJK(CF) Keat Hwa
Location : Alor Setar, Kedah



Project Title: Mahkamah Syariah
Location : Alor Setar, Kedah



Project Title: Kuala Ketil Commercial Centre
Location : Kuala Ketil, Kedah

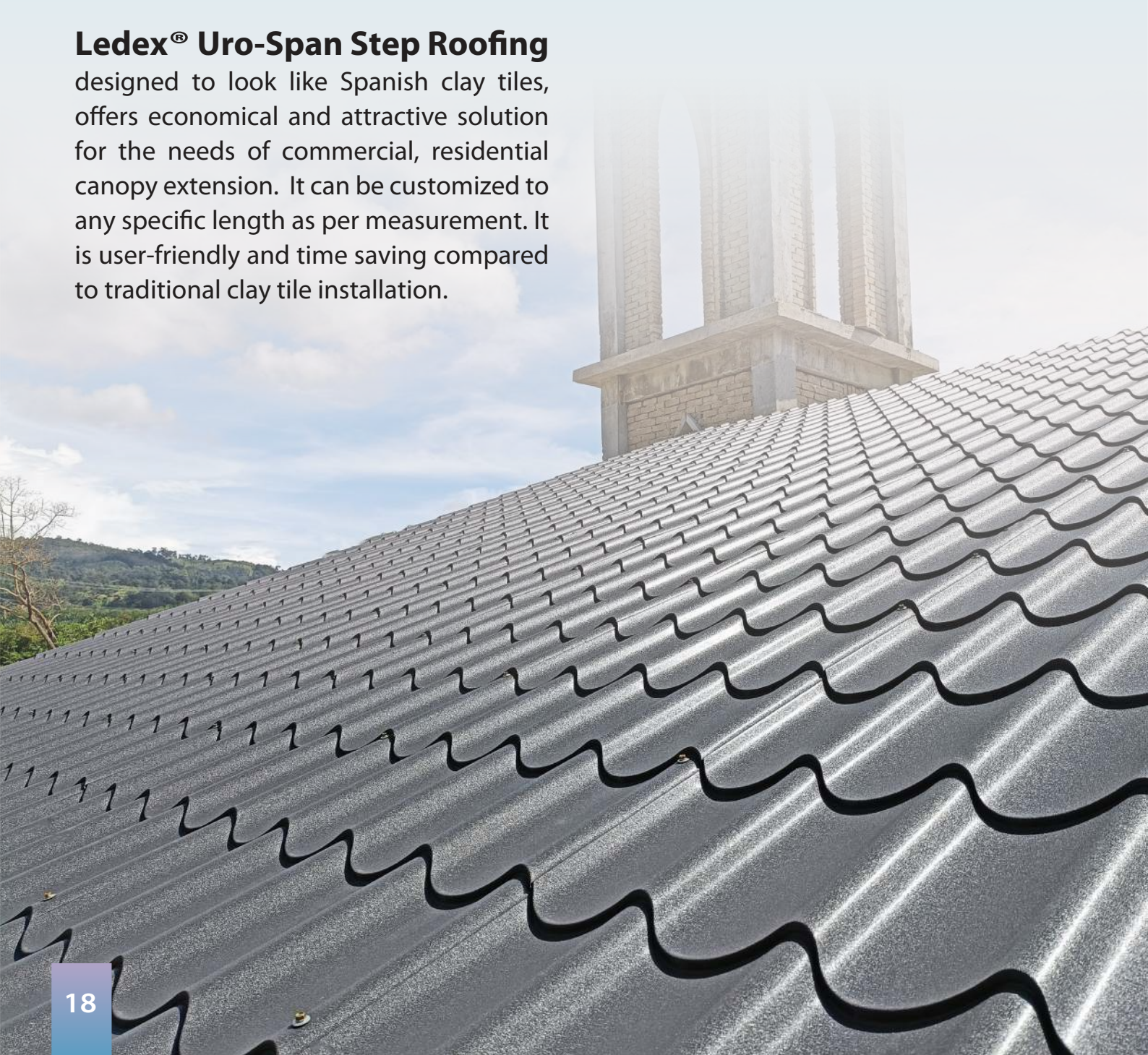
Ledex® Step Roofing took the form of traditional clay tiles. It is shaped elegantly and brings the modern-look to the building. Offering economical and attractive solutions, Ledex® Step Roofing suits perfectly on commercial buildings, residential canopy extension, also heritage buildings.

Easily customized into any specific length as required, Ledex® Step Roofing gains the popularity in the market.

Ledex® Uro-Span Step Roofing designed to look like Spanish clay tiles, offers economical and attractive solution for the needs of commercial, residential canopy extension. It can be customized to any specific length as per measurement. It is user-friendly and time saving compared to traditional clay tile installation.

Additionally, made from steel of the highest quality available in a range of Zinc and Aluminium coated steel, the roofing product is corrosion-resistant and durable.

Not to mention it is user-friendly, the installation is also simple and time-saving, undeniably presenting more advantages compare to the conventional tiles.



Ledex[®]

Step Roofing



Ledex[®] Uro-Span Step Roofing

Ledex[®] Uro-Span PU Step Roofing

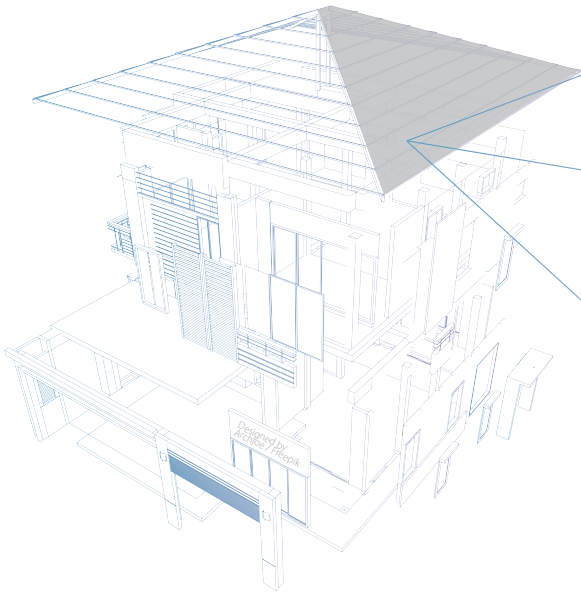
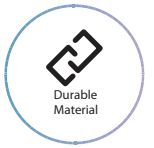
Ledex[®] Bond Step Roofing

Ledex[®] Flex Step Roofing

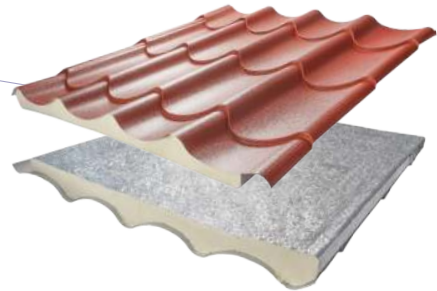
WHERE CAN IT APPLY

- Canopy Extensions
- Heritage Buildings
- Commercial Buildings
- Residential Roofing

Ledex® Step Roofing



Ledex® Uro-Span Step Roofing



Ledex® Uro-Span PU Step Roofing



Ledex® Bond Step Roofing Ledex® Flex Step Roofing

BQ Specification

Ledex® Uro-Span PU Metal 30 mm Step Roofing 0.40 mm TCT

█ Brand
 █ Profile
 █ PU Foam/PU Metal
 █ PU Thickness
 █ Material Thickness

Details to be mentioned in BQ specification:

1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Roof Pitch
8. Warranty

Example

Design, fabricate and install “Ledex® Uro-Span PU Metal Step Roofing” 0.40 mm TCT In Bluescope Zacs Cool AZ90 with approved color ; laid to fall at minimum 9° and fixed to Ledex C Purlin (measured separately) including fixing accessories, capping, flashing and all necessary works; all in accordance with Architect’s drawing, manufacturer’s instruction and specification. (Up to 10 years warranty on perforated by corrosion)

Material warranty on perforated by corrosion:

- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs Natural AZ90
 - Bluescope Zacs AZ90
- Up to 15 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
 - Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
 - Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply

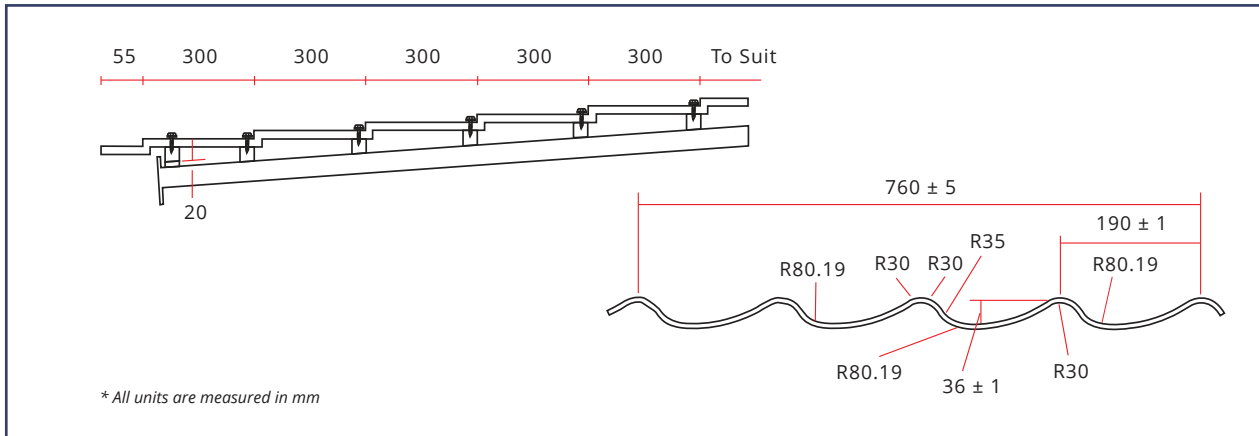


Certified Bomba with Class 'O' Certificate

LEDEX® URO-SPAN STEP ROOFING



Specification Drawing



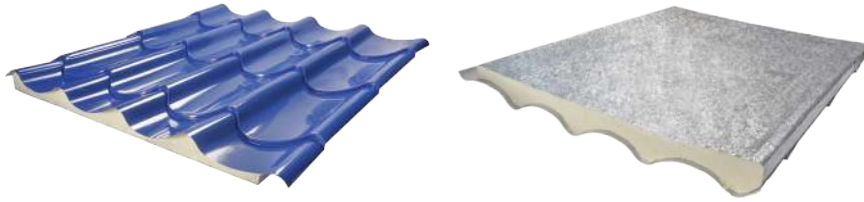
Product Specification

Profile	Ledex® Uro-Span Step Roofing
Effective Width	760 mm
Depth of Rib	36 mm
Modulus	108 mm, 200 mm, 300 mm
Steel Grade	Zincalume G300 Steel
Finishing	Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	9° Sheet without end lap
Tolerance	Length \pm 3 mm, Width \pm 5 mm, Metal Thickness \pm 0.03 mm

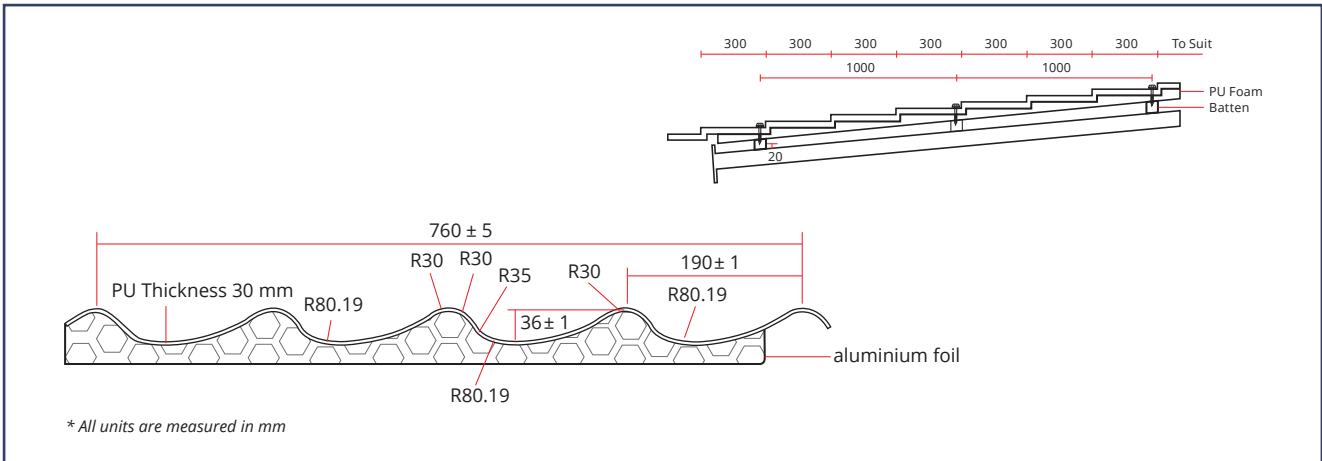
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

LEDEX® URO-SPAN PU FOAM STEP ROOFING



Specification Drawing



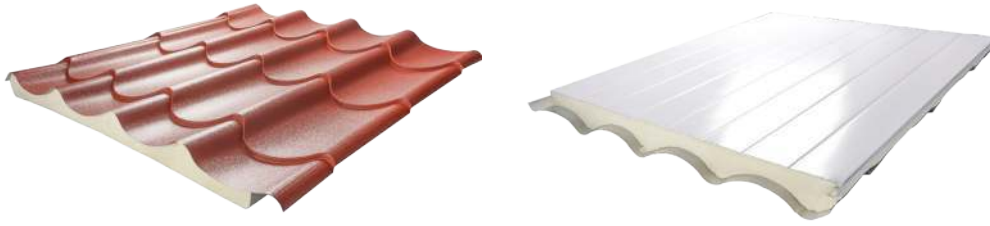
Product Specification

Profile	Ledex® Uro-Span PU Foam Step Roofing
Effective Width	760 mm
Depth of Rib	36 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Inner Layer Finishing	Aluminium Foil 0.22 mm
PU Foam Thickness	30 mm
PU Foam Insulation Density	35 kg/m ³ - 40 kg/m ³
Minimum Roof Pitch	9° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

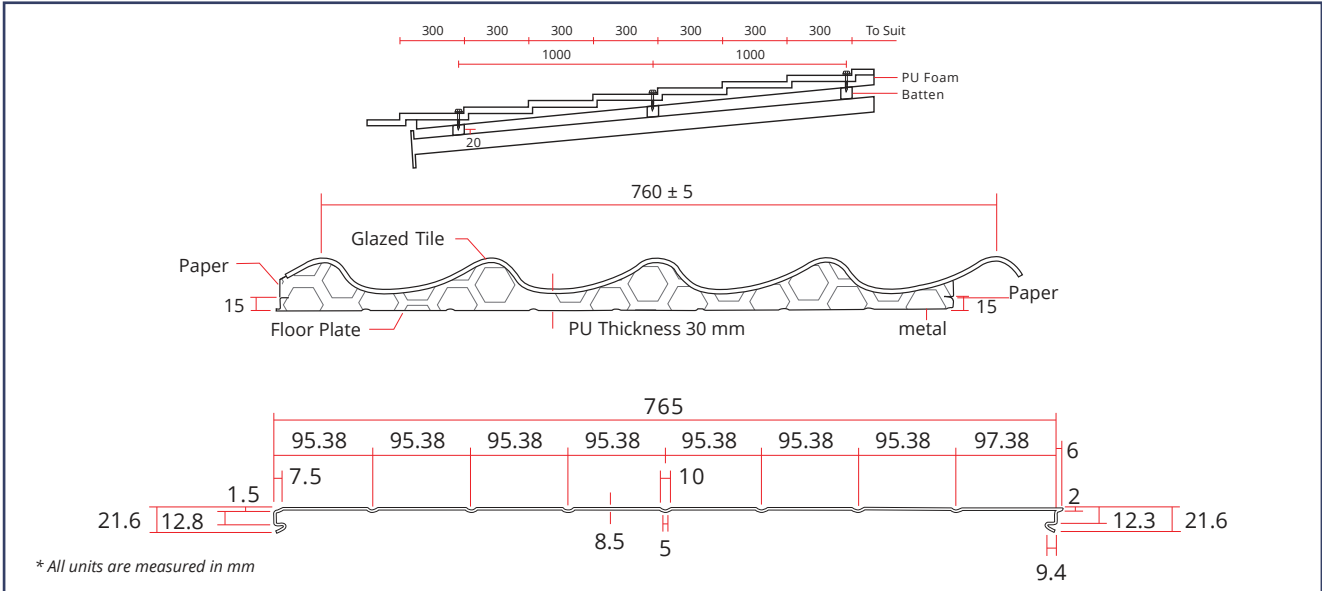
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.35	0.40	3.95
0.40	0.45	4.25
0.42	0.47	4.35
0.48	0.53	4.85

LEDEX® URO-SPAN PU METAL STEP ROOFING



Specification Drawing



Product Specification

Profile	Ledex® Uro-Span PU Metal Step Roofing
Effective Width	760 mm
Depth of Rib	36 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Inner Layer Finishing	Metal 0.30 mm
PU Foam Thickness	30 mm
PU Foam Insulation Density	35 kg/m ³ - 40 kg/m ³
Minimum Roof Pitch	9° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.35	0.40	5.85
0.40	0.45	6.15
0.42	0.47	6.25
0.48	0.53	6.75

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.35	0.40	19.24	8.53	4.79	3.05	2.11	1.54
0.40	0.45	21.15	9.38	5.26	3.35	2.32	1.69
0.42	0.47	21.78	9.66	5.42	3.45	2.39	1.74
0.48	0.53	25.62	11.36	6.37	4.06	2.81	2.05

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree		
	9°	15°	25°
150	15	20	30
200	12	15	20
250	10	12	15
300	9	10	12
400	6	9	10

Maximum Recommended Spacing of Supports

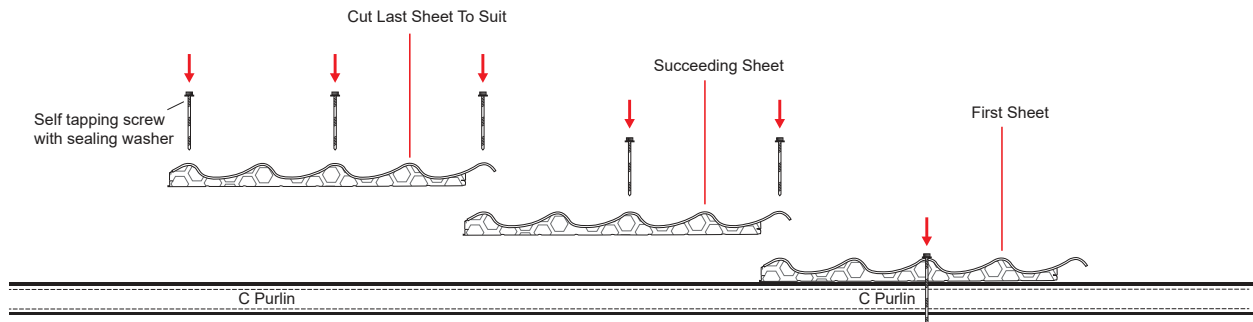
Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	
0.35	0.40	300	300	100
0.40	0.45	600	300	100
0.42	0.47	600	300	150
0.48	0.53	600	300	150

Insulation Properties

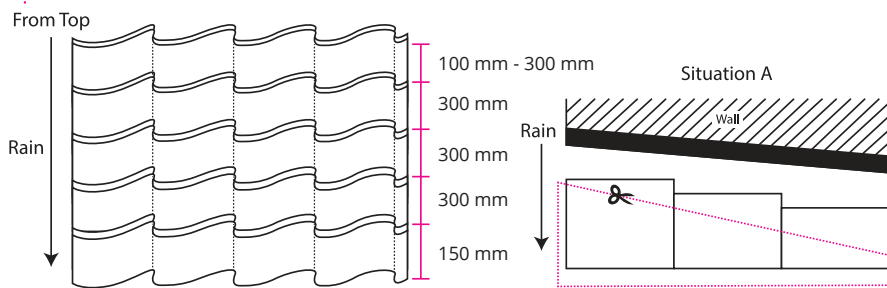
Item	Specifications
Type of Insulation	Rigid Polyurethane Foam
Foam Density	35 - 40kg/m ³
Insulation Grade	Non CFC, Non HCFC
K Value (Thermal Conductivity)	0.024 w/mk - 0.026 w/mk
Thickness of Insulation	30 mm
U Value (Thermal Transmittance)	0.80 w/m ² k
R Value (Thermal Resistance)	1.25 w/mk

INSTALLATION

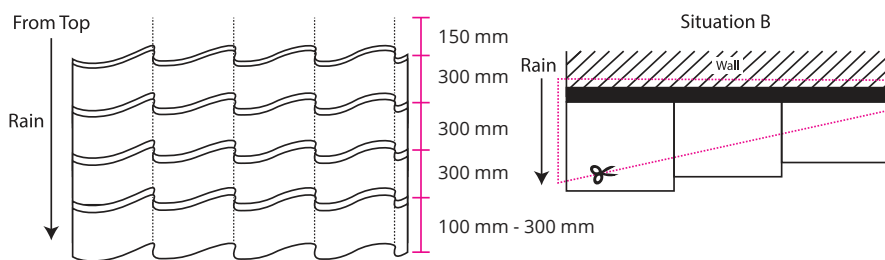
Modulus



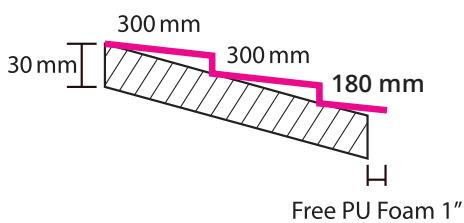
Standard Forming



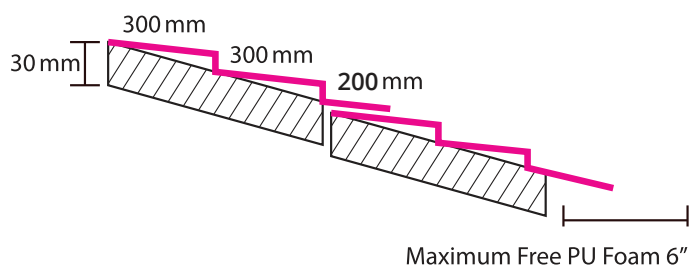
Special Forming



Standard

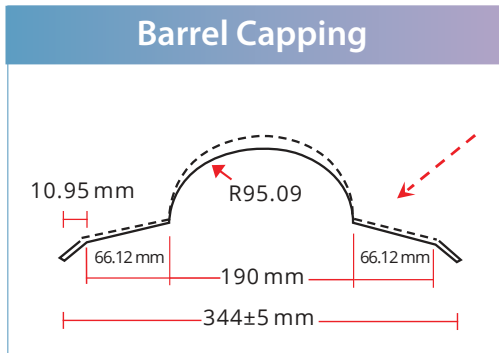


Lapping





Uro-Span Barrel Capping



Barrel Cap Cover

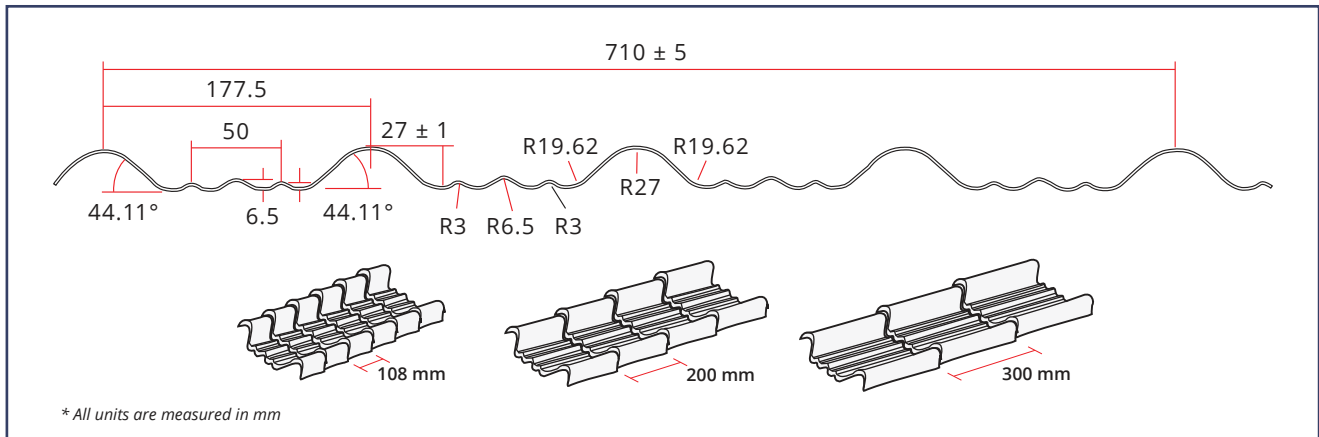
Uro-Span End Capping



LEDEX® BOND STEP ROOFING



Specification Drawing



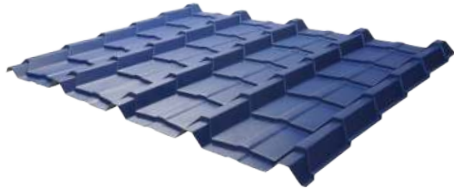
Product Specification

Profile	Ledex® Bond Step Roofing
Effective Width	710 mm
Depth of Rib	27 mm
Modulus	108 mm, 200 mm, 300 mm
Steel Grade	Zincalume G300 Steel
Finishing	Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	9° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

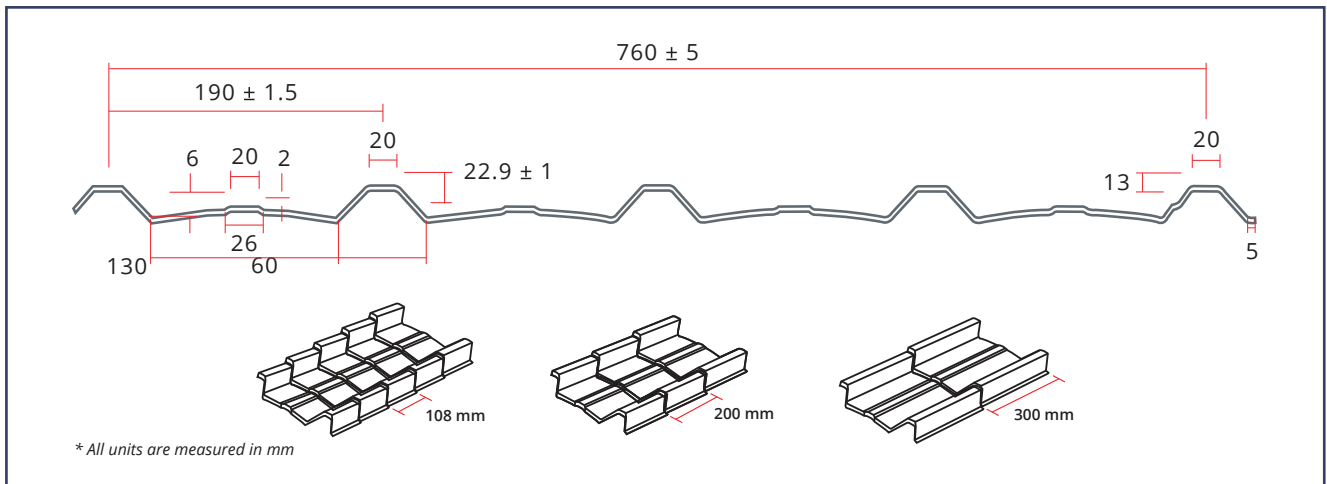
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

LEDEX® FLEX STEP ROOFING



Specification Drawing



Product Specification

Profile	Ledex® Flex Step Roofing
Effective Width	760 mm
Depth of Rib	23 mm
Modulus	108 mm, 200 mm, 300 mm
Steel Grade	Zincalume G300 Steel
Finishing	Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	9° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

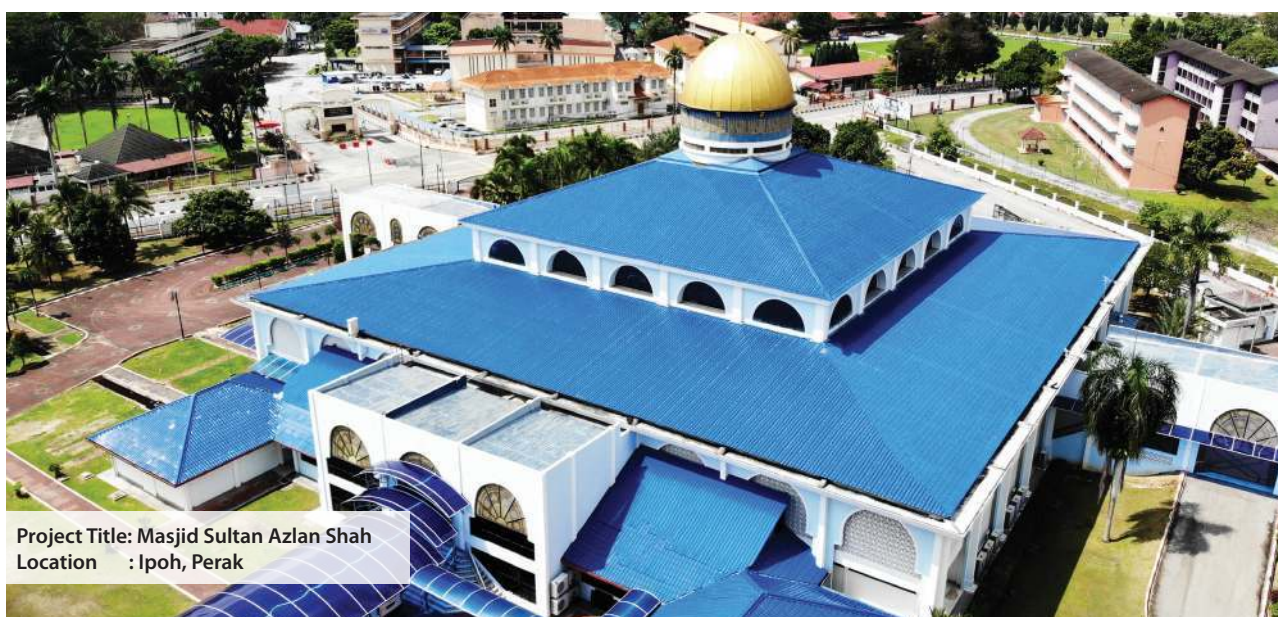
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

PROJECT REFERENCES



Project Title: Nursing College
Location : Bertam, Penang



Project Title: Masjid Sultan Azlan Shah
Location : Ipoh, Perak



Project Title: KTU Army Camp
Location : Alor Setar, Kedah

PROJECT REFERENCE



Project Title: Thai Temple
Location : Bukit Mertajam, Penang



Project Title: JKP Sample House
Location : Nibong Tebal, Penang



Project Title: Desa Aman Semi-Detached Residential
Location : Kulim, Kedah

PROJECT REFERENCE



Project Title: Elissa Garden Hall
Location : Alor Setar, Kedah



Project Title: Elissa Garden Hall
Location : Alor Setar, Kedah



Project Title: Surau Taman Pauh Jaya
Location : Seberang Perai, Penang

Ledex® Hi-Rib 35 Roofing, a premium profile roll formed from high strength steel. It has 3 fluted pans with wide covering width. The high ribs and wide pans of Ledex® Hi-Rib 35 Roofing ensure good spanning capability and excellent water discharge capacity.

Installed properly according to manufacturer's instruction, Ledex® Hi-Rib 35 Roofing virtually guarantees a watertight roof cover.

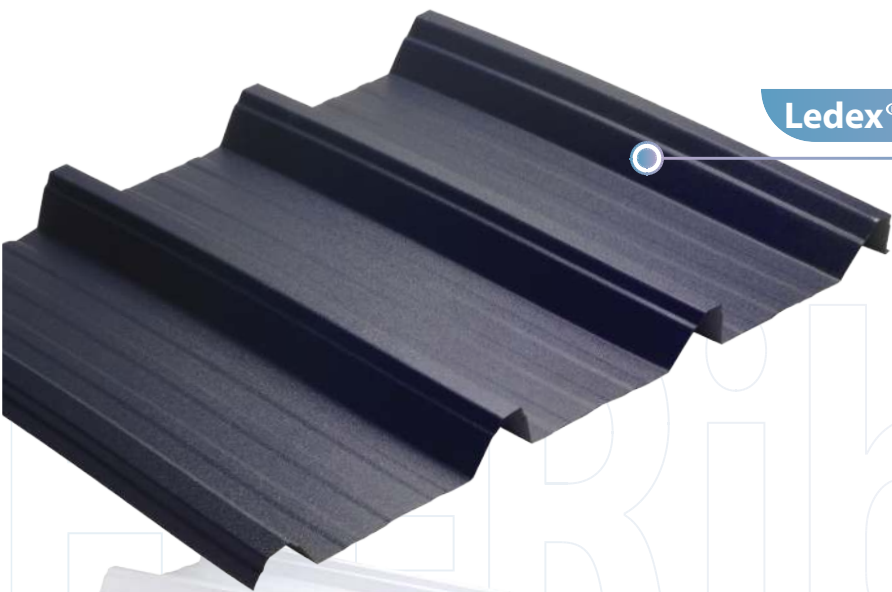
Ledex® Hi-Rib 35 Roofing is versatile and equally well suited for use as cladding and fascia, giving a bold and distinctive finish. Ledex® Hi-Rib 35 Roofing is also available in attractive crimp curve option.

Its height of 35 mm performs at a minimum recommended roof pitch of 3°



Ledex[®]

Hi-Rib 35 Roofing



Ledex[®] Hi-Rib 35 Roofing

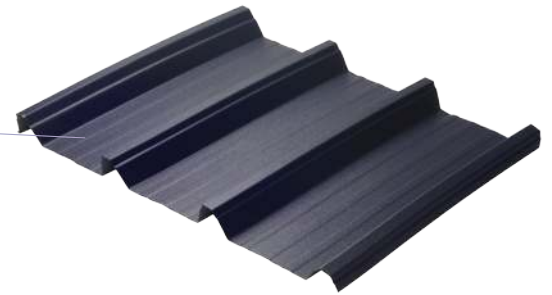
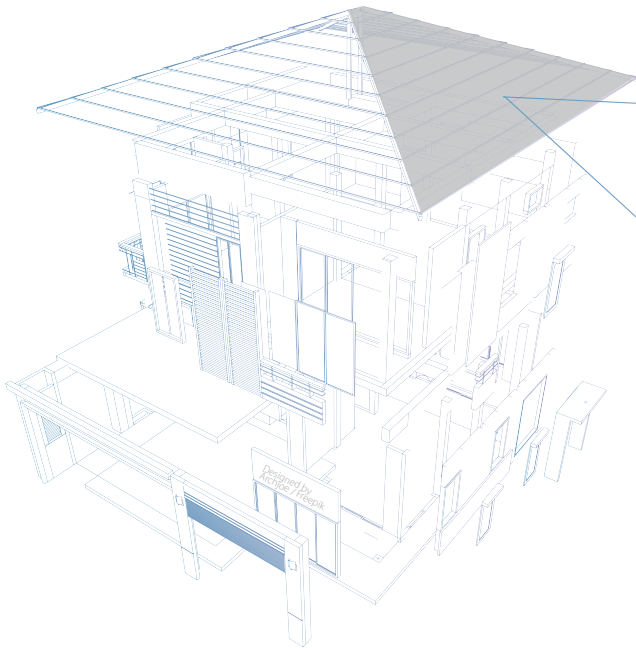
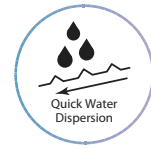


Ledex[®] Hi-Rib 35 Crimp Curve Roofing

WHERE CAN IT APPLY

- Factory
- Wall Cladding & Fascia
- Facility Roof Extensions
- Commercial Buildings
- Sports Usage Facilities

Ledex® Hi-Rib 35 Roofing



Ledex® Hi-Rib 35 Roofing



Ledex® Hi-Rib 35 Crimp Curve Roofing

BQ Specification

Ledex® Hi-Rib 35 Roofing 0.53 mm TCT

Brand Profile Material Thickness

Details to be mentioned in BQ specification:

1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Roof Pitch
8. Warranty

Example

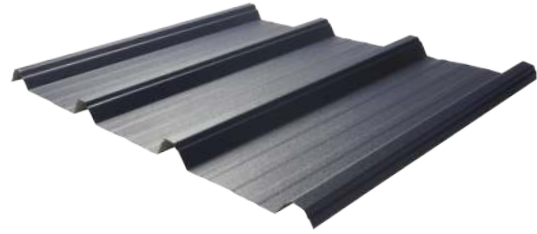
Design, fabricate and install "Ledex® Hi Rib 35 Roofing" 0.53 mm TCT In Bluescope Zinalume AZ150 with approved color ; laid to fall at minimum 2° and fixed to Ledex C Purlin (measured separately) including fixing accessories, capping, flashing and all necessary works; all in accordance with Architect's drawing, manufacturer's instruction and specification.

(Up to 25 years warranty on perforated by corrosion).

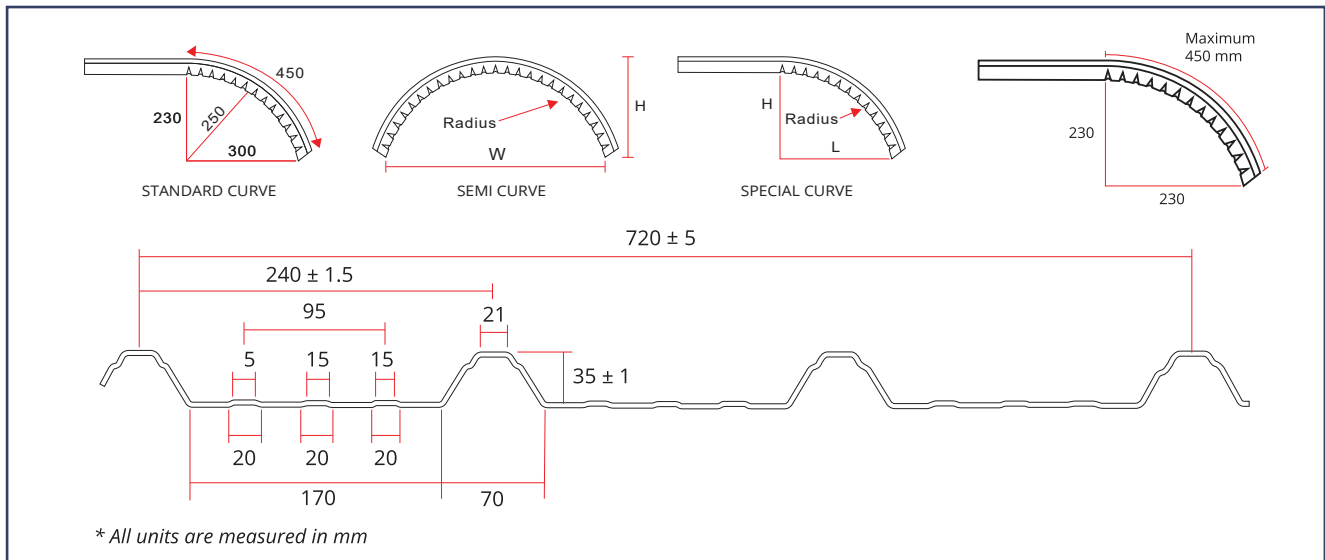
Material warranty on perforated by corrosion:

- Up to 10 years – Bluescope Zacs Cool AZ90;
– Bluescope Zacs Natural AZ90
- Up to 15 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
– Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
– Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply



Specification Drawing



Product Specification

Profile	Ledex® Hi-Rib 35 Roofing
Effective Width	720 mm
Depth of Rib	35 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	3° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.35	0.40	19.17	8.50	4.77	3.04	2.10	1.53
0.40	0.45	21.07	9.34	5.24	3.34	2.31	1.69
0.42	0.47	21.49	9.53	5.34	3.41	2.36	1.72
0.48	0.53	30.51	13.52	7.59	4.84	3.35	2.44

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	3°	5°	7°	10°
250	85	109	129	155
300	70	91	108	129
350	60	78	92	121
400	53	68	81	106

Maximum Recommended Spacing of Supports

Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1500	1300	2000	1800	150
0.40	0.45	1600	1400	2200	2000	200
0.42	0.47	1650	1450	2250	2050	200
0.48	0.53	1900	1700	2400	2200	250

PROJECT REFERENCES




Project Title: C Mart Shoplots
Location : Padang Serai, Kedah



Project Title: Sekolah Agama Jerlun
Location : Jerlun, Kedah



Project Title: Seberang Jaya Pasar Awam
Location : Butterworth, Penang

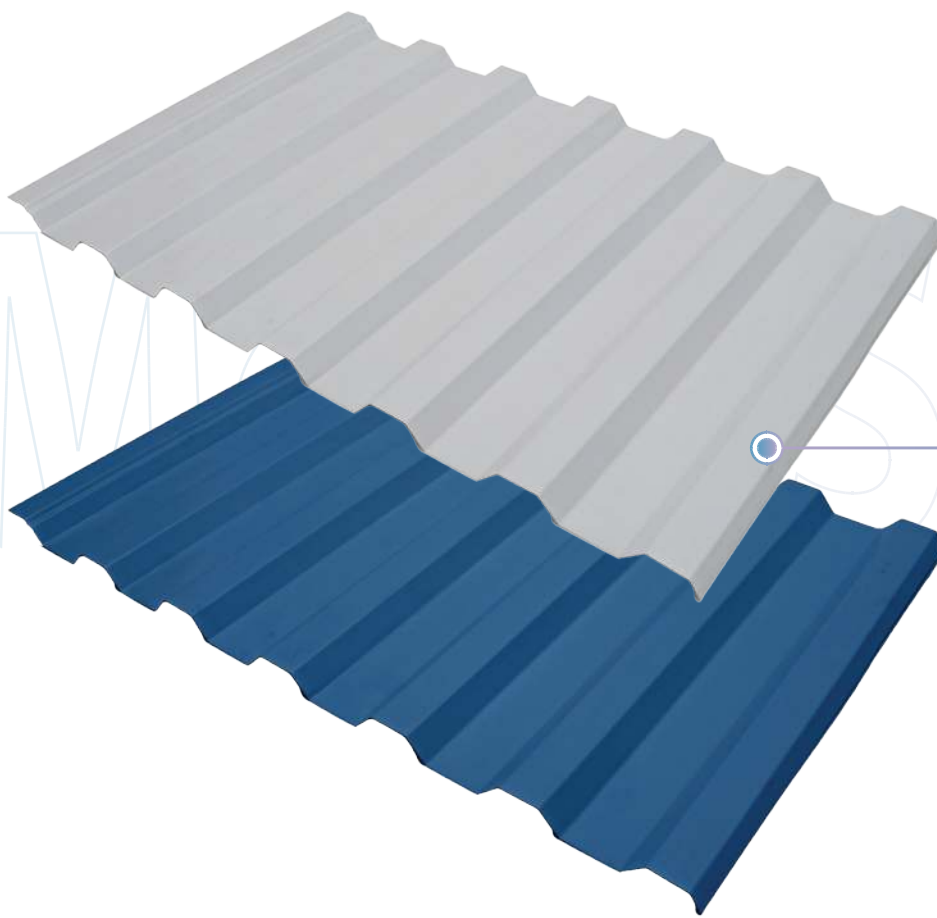


Ledex® MegaSpan Roofing a simple square-corrugated profile that comes with strong ribs design. The 7 bold ribs of Ledex® MegaSpan Roofing offer high strength and high water carrying capacity, which perfectly applicable to roofing and walling applications. It is commonly used as an underliner profile for some special roof systems.

Moreover, it can be customized to meet thermal and acoustic requirements. Other than the classic square profile, it is also available in attractive-crimp curve option.

Ledex®

MegaSpan Roofing

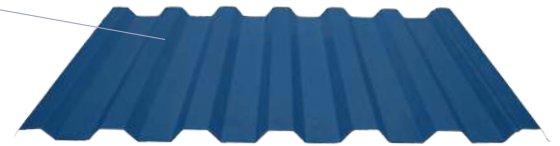
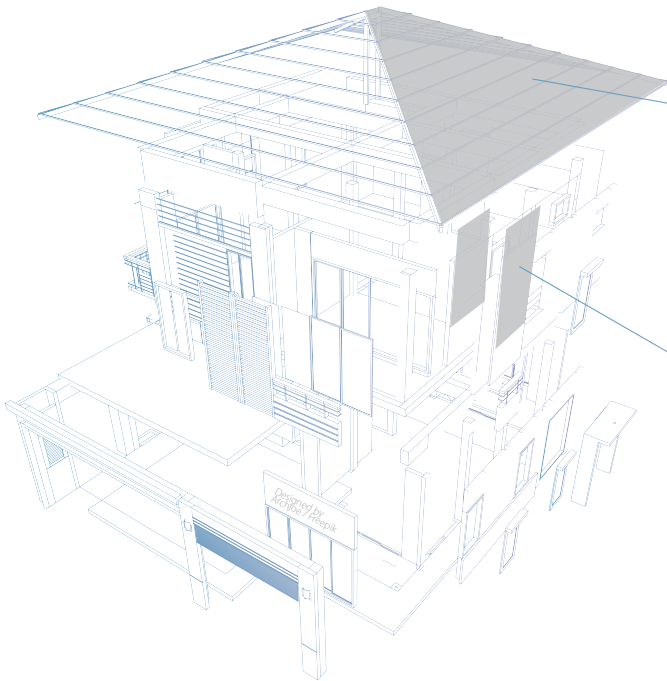


Ledex® MegaSpan Roofing

WHERE CAN IT APPLY

- Factory
- Wall Cladding & Fascia
- Facility Roof Extensions
- Commercial Buildings
- Sports Usage Facilities

Ledex® MegaSpan Roofing



Ledex® MegaSpan Roofing



Ledex® MegaSpan Crimp Curve Roofing

BQ Specification

Ledex® MegaSpan Roofing 0.53 mm TCT

Brand

Profile

Material Thickness

Details to be mentioned in BQ specification:

1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Roof Pitch
8. Warranty

Example

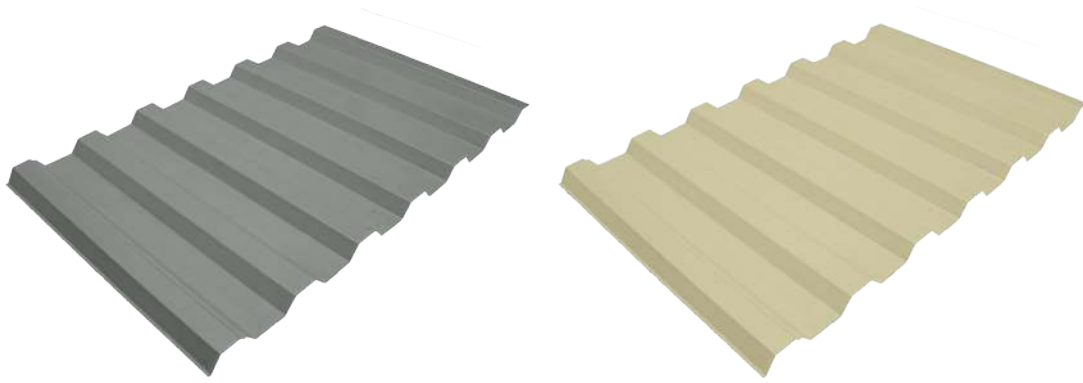
Design, fabricate and install “Ledex® MegaSpan Roofing” 0.53 mm TCT In Bluescope Zinalume AZ150 with approved color ; laid to fall at minimum 5° and fixed to Ledex C Purlin (measured separately) including fixing accessories, capping, flashing and all necessary works; all in accordance with Architect’s drawing, manufacturer’s instruction and specification.

(With 25 years warranty on perforated by corrosion)

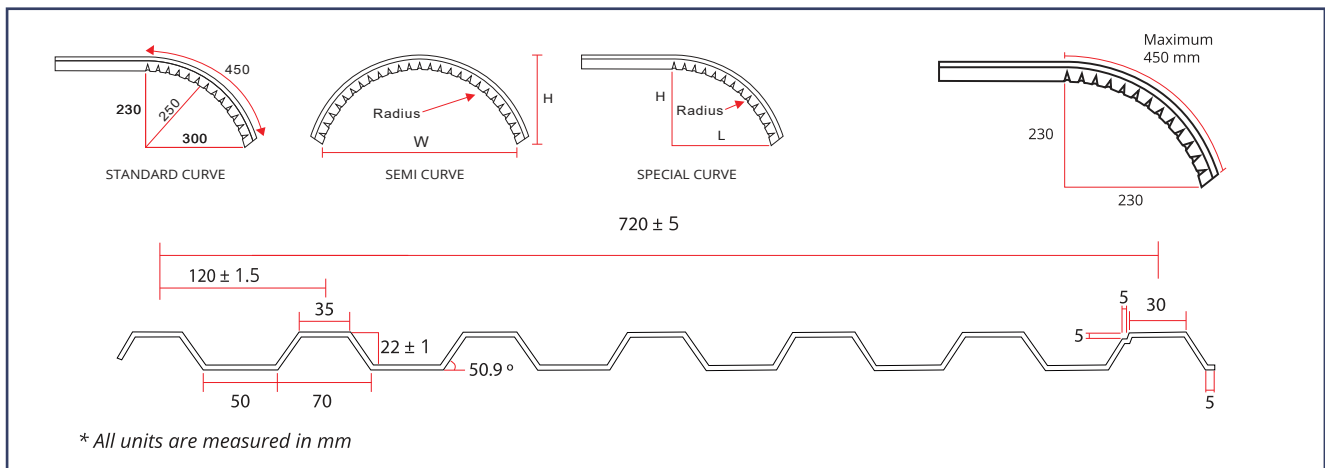
Material warranty on perforated by corrosion:

- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs Natural AZ90
- Up to 15 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
 - Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
 - Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply



Specification Drawing



Product Specification

Profile	Ledex [®] MegaSpan Roofing
Effective Width	720 mm
Depth of Rib	22 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Vermoe, Zincalume, Colorbond
Minimum Roof Pitch	5° Sheet without end lap
Tolerance	Length \pm 3 mm, Width \pm 5 mm, Metal Thickness \pm 0.03 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.30	0.36	14.89	4.41	2.48	1.27	0.74	0.46
0.35	0.40	16.87	5.00	2.81	1.44	0.83	0.52
0.40	0.45	19.36	5.74	3.23	1.65	0.96	0.60
0.42	0.47	20.85	6.18	3.47	1.78	1.03	0.65
0.48	0.53	23.33	6.91	3.89	1.99	1.15	0.73

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	5°	7°	10°	12°
250	32	38	45	49
300	27	32	37	41
350	23	27	32	35
400	21	24	28	31

Maximum Recommended Spacing of Supports

Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.30	0.36	1600	1400	1850	1700	100
0.35	0.40	1700	1500	1950	1800	100
0.40	0.45	1850	1600	2150	1900	150
0.42	0.47	1900	1650	2200	2000	150
0.48	0.53	2000	1750	2300	2100	250

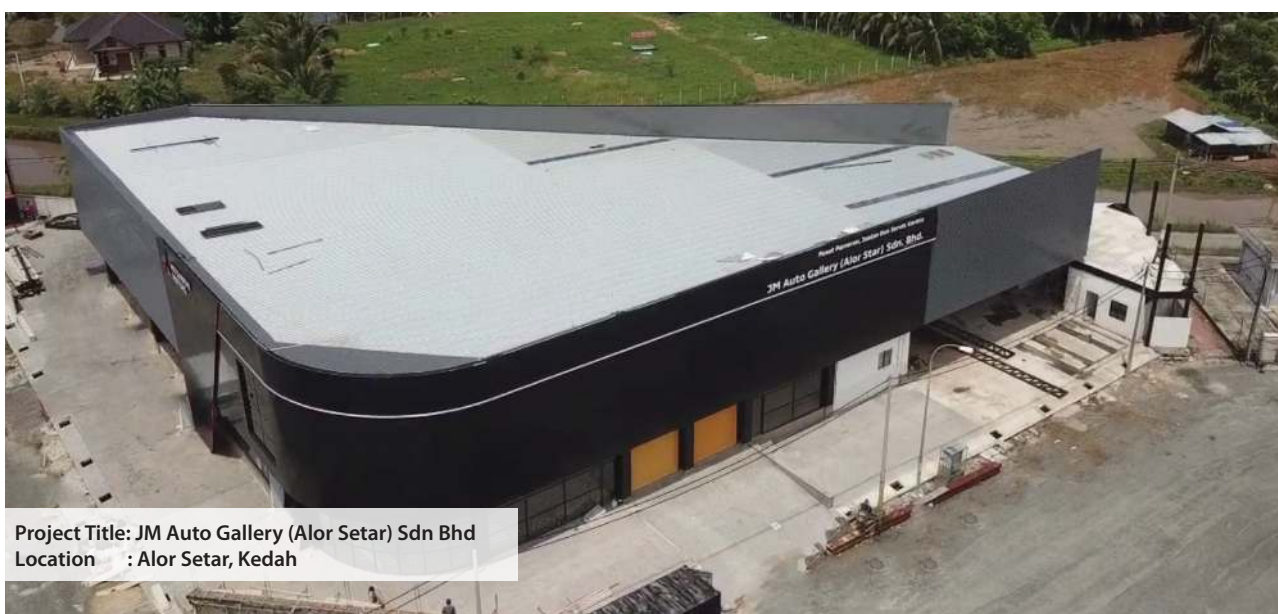
PROJECT REFERENCE



Project Title: Eng IBS
Location : Science Park, Penang



Project Title: Eng IBS
Location : Science Park, Penang



Project Title: JM Auto Gallery (Alor Setar) Sdn Bhd
Location : Alor Setar, Kedah

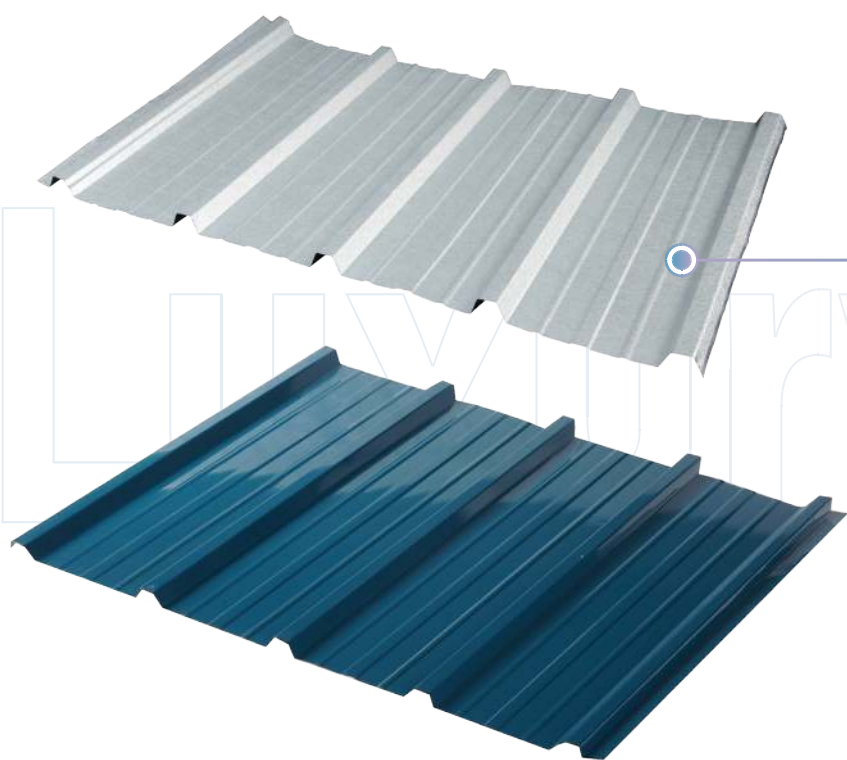
Ledex® Luxury Rib Cladding features straight line profile. It is one of the most popular metal cladding sheet in the present market. It offers economical and attractive solution for the needs of commercial, industrial or any building project wall cladding and ceiling applications.

Ledex Luxury Rib Cladding can be customized to any specific length that is required by projects. It is made from steel of the highest quality available in a range of Aluminium Zinc Alloy coated steel, allowing the product to be rust-resistant and durable.



Ledex[®]

Luxury Rib Cladding

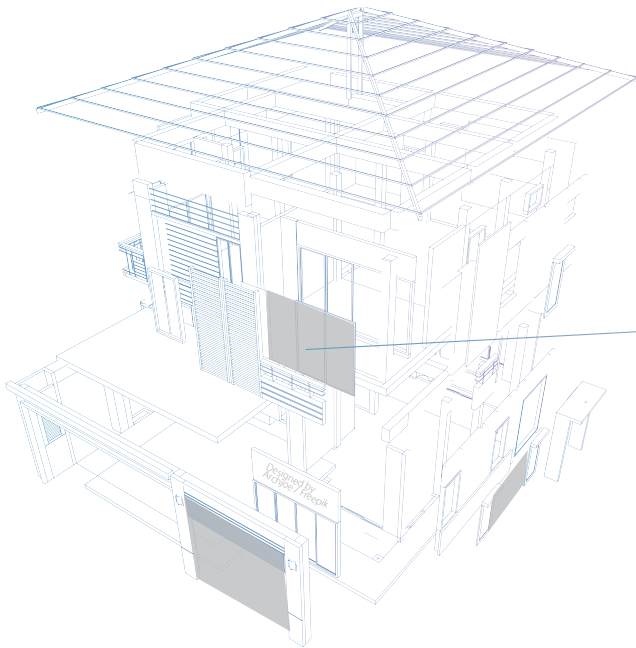


Ledex[®] Luxury Rib Cladding

WHERE CAN IT APPLY

- Ceiling
- Fascia
- Wall Cladding
- Flat & Vertical

Ledex® Luxury Rib Cladding



Ledex® Luxury Rib Cladding

BQ Specification

Ledex® Luxury Rib Cladding 0.30 mm TCT

┌
┌
┌

Brand
Profile
Material Thickness

Details to be mentioned in BQ specification:

1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Warranty

Example

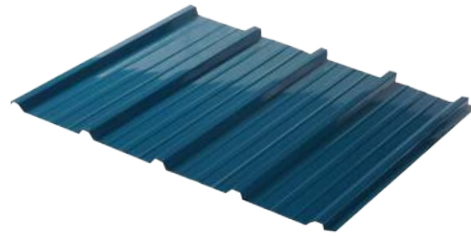
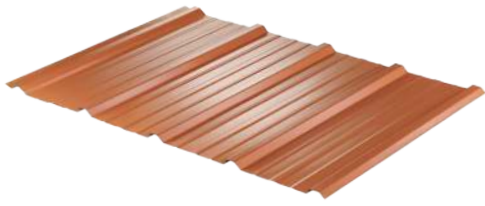
Design, fabricate and install “Ledex® Luxury Rib Cladding” 0.30 mm TCT In Bluescope Zacs Cool AZ90 with approved color ; to be fixed vertically or horizontally and come complete with necessary fittings and accessories; all in accordance with Architect’s drawing, manufacturer’s instruction and specification.
(Up to 10 years warranty on perforated by corrosion)

Material warranty on perforated by corrosion:

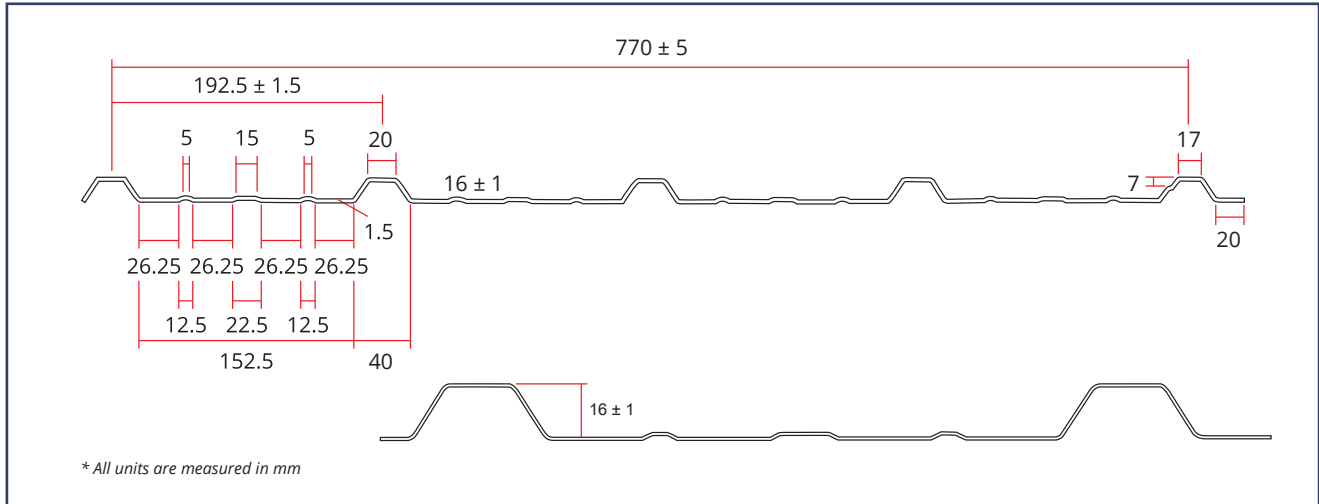
- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs AZ90;
 - Bluescope Zacs Natural AZ90
- Up to 15 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
 - Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
 - Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply

LEDEX® LUXURY RIB CLADDING



Specification Drawing



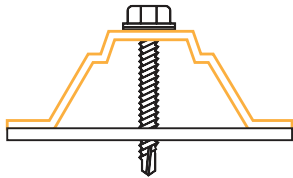
Product Specification

Profile	Ledex® Luxury Rib Cladding
Effective Width	770 mm
Depth of Rib	16 mm
Steel Grade	Zincalume G300 Steel
Finishing	Zacs Cool, Prima Maju-R, Colorbond
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

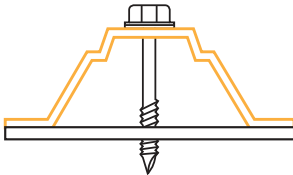
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	Weight (kg/meter)
0.25	0.30	1.90
0.30	0.36	2.30
0.35	0.40	2.70
0.40	0.45	3.00
0.42	0.47	3.10
0.48	0.53	3.60

Crest Fixing to Luxury Rib Cladding

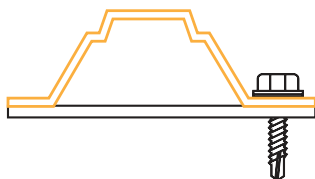


Crest fixing to steel no. 12 x 45 mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.

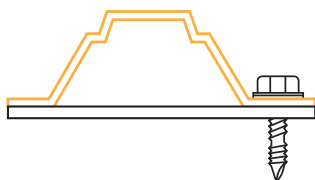


Crest fixing to timber no. 10 x 59 mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.

Valley Fixing to Luxury Rib Cladding



Valley fixing to steel no. 10 x 20 mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.



Valley fixing to steel no. 10 x 25 mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.

PROJECT REFERENCE



Application: Fence



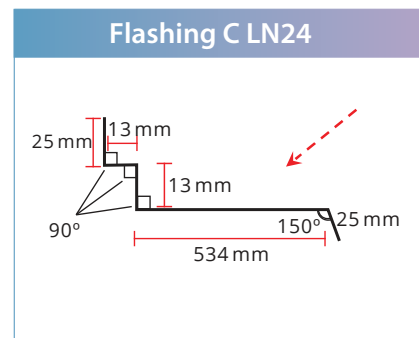
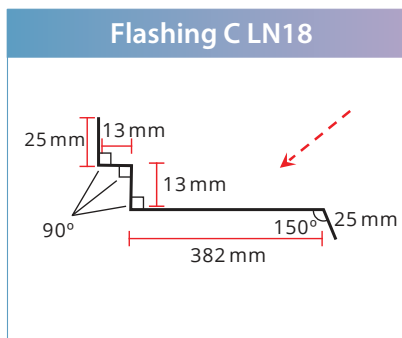
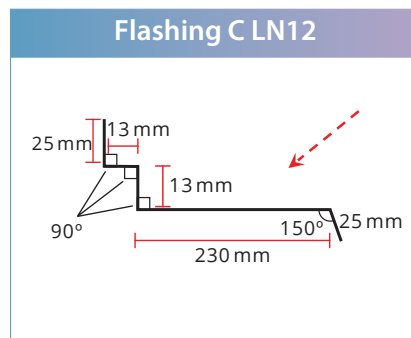
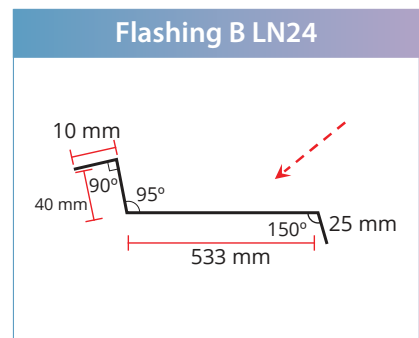
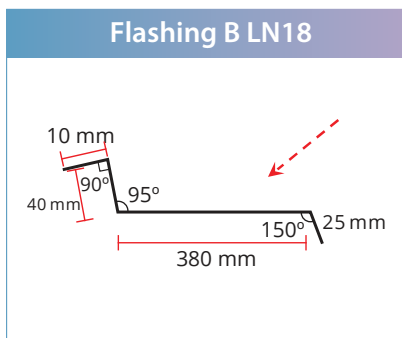
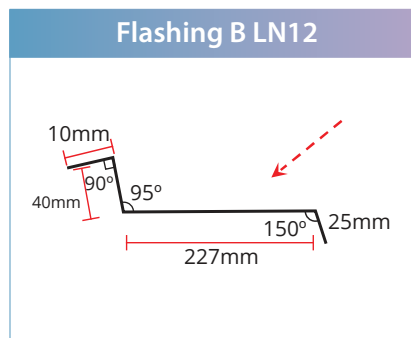
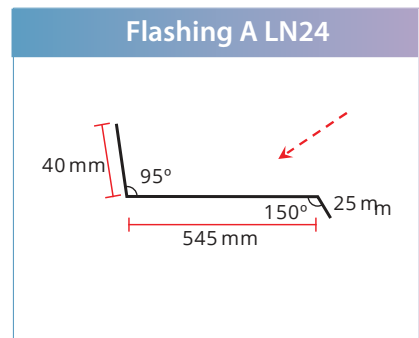
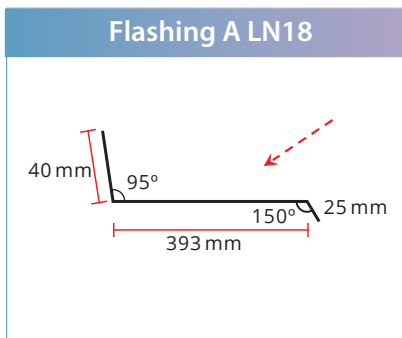
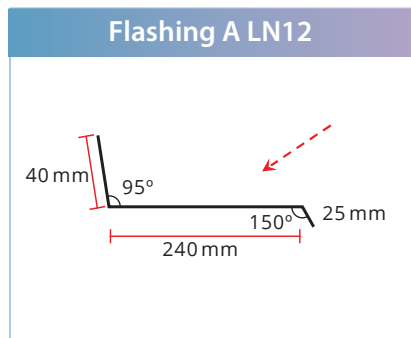
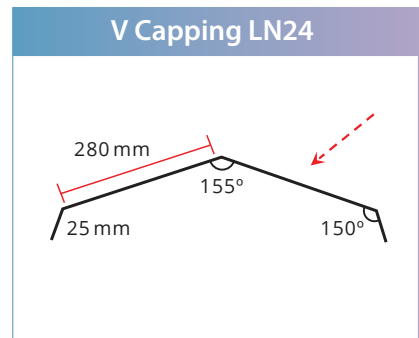
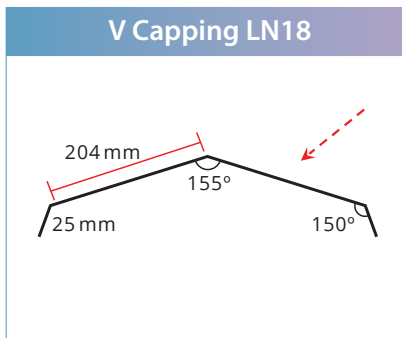
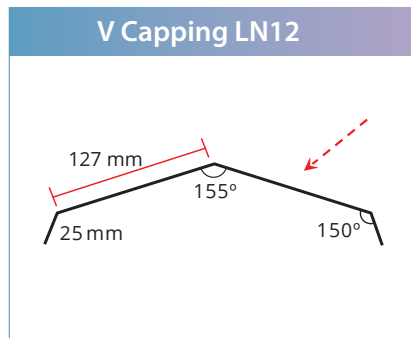
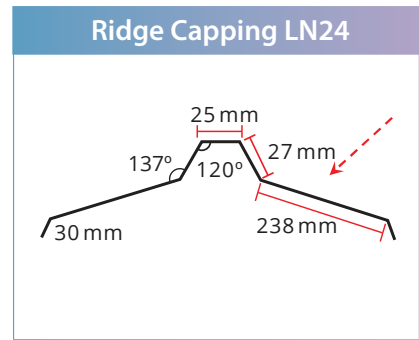
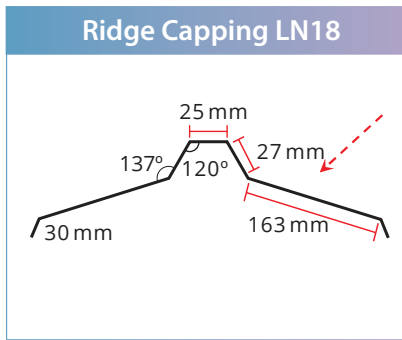
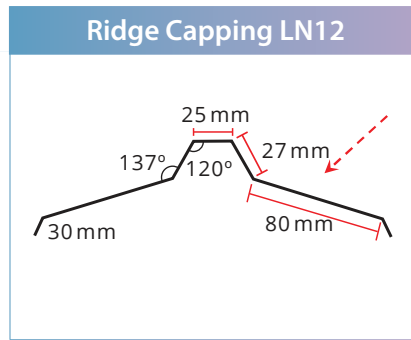
Application: Fence



Application: Wall for Cabin

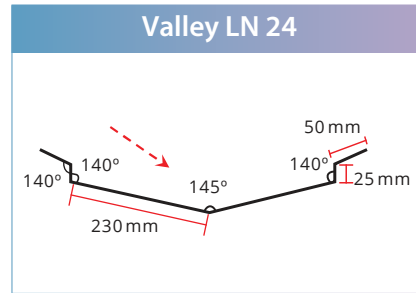
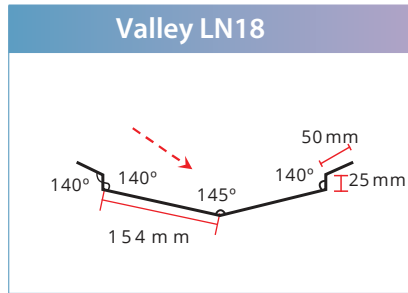
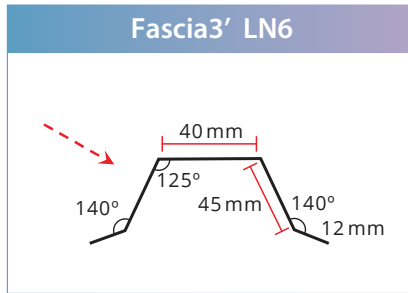
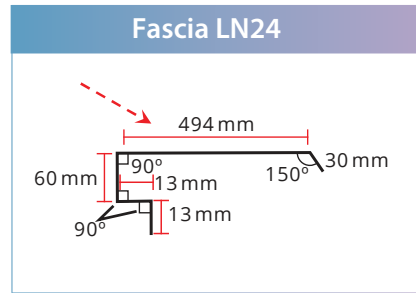
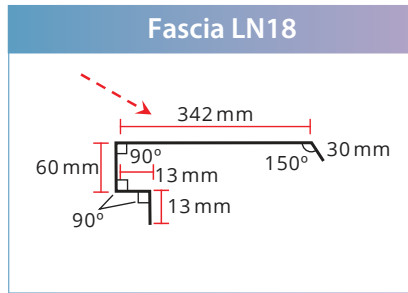
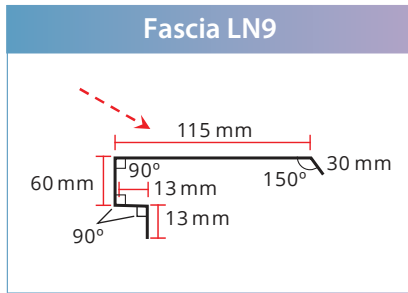
CAPPING ACCESSORIES

Standard Flashing / Capping

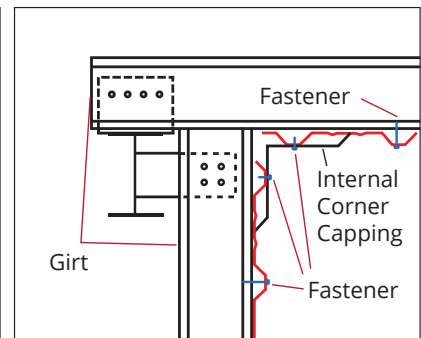
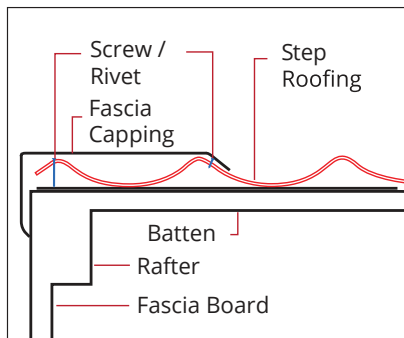
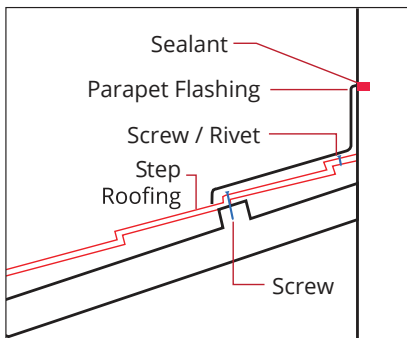
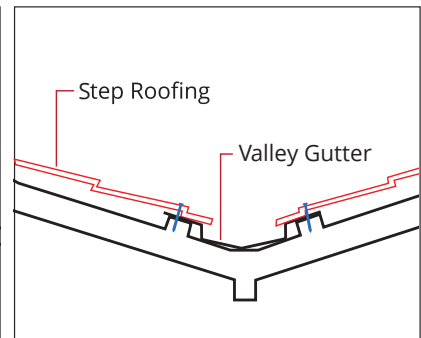
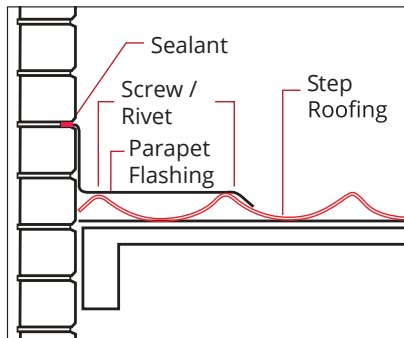
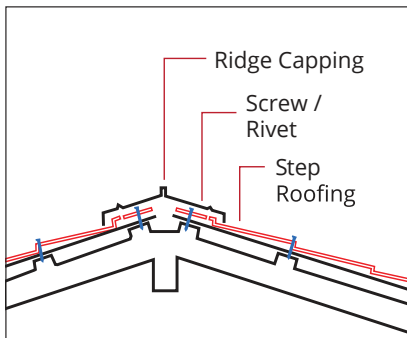


CAPPING ACCESSORIES

Standard Flashing / Capping



INSTALLATION

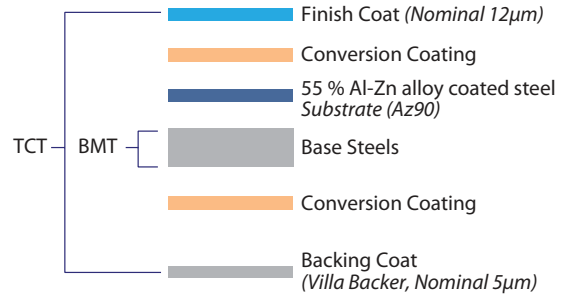




Zacs® AZ 90	
Thickness BMT (mm)	Thickness TCT (mm)
0.20	0.25
0.25	0.30
0.30	0.36
0.35	0.40
0.40	0.45

Warranty against perforation by corrosion for up to 10 years.*
 Warranty against color fading for up to 5 years.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATON

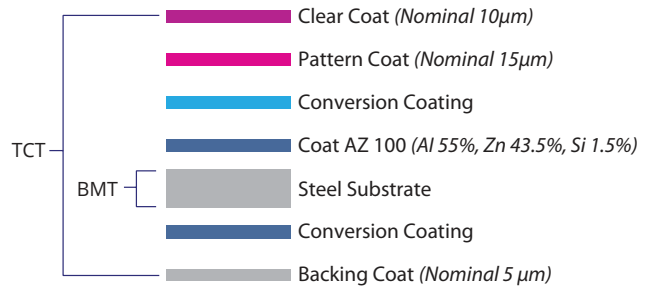


Elements™

Elements® AZ 100	
Thickness BMT (mm)	Thickness TCT (mm)
0.30	0.36
0.35	0.40

BlueScope Steel offers a long-term warranty against corrosion, color fading, chipping and dirt staining.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATON

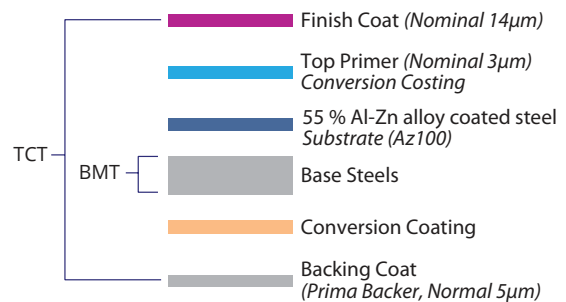


PRIMA® M A J U

PrimaMaju® AZ 100	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 15 years.*
 Warranty against color fading for up to 5 years.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATON

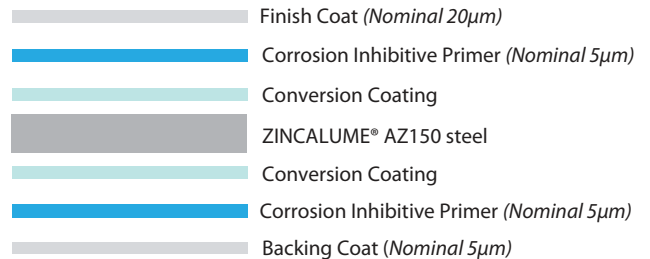


Colorbond®

Colorbond® AZ 150	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 25 years.*
 Warranty against color fading for up to 10 years.*
 Warranty against flake and peel for up to 15 years.*
 Warranty against dirt staining for up to 5 years.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATION

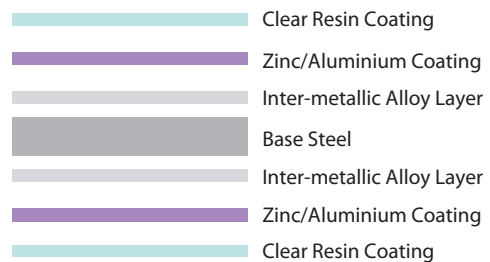


Zincalume®

Zincalume® AZ 150	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 25 years.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATION

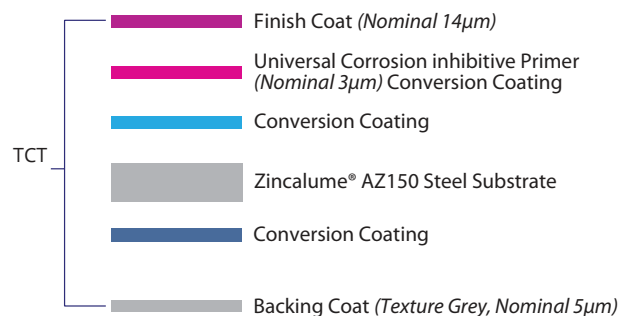


VERMOE®

Vermoe® AZ 150	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 25 years.*
 Warranty against colour fading for up to 8 years.*
 *Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATION



COLOR CHART

PRIMA
M A J U



PRIMA MERAH	PRIMA MARAKAN	PRIMA BIRU	PRIMA HIJAU	PRIMA SILIKA
PRIMA COKLAT	PRIMA KELULI	PRIMA AWANA	PRIMA LADA	PRIMA MAGNET
PRIMA KASTURI	PRIMA EMBUN	PRIMA KEKABU	PRIMA BACKER	

VERMOE



THUNDER GREY	DAZZLING BLACK	ALLURING BROWN

Most Popular

Colorbond
PETAL



Ruby Hibiscus	Sahara Iris	Sky Brunnera	Rose Blush	Sunny Marigold

BLUESCOPE
Zacs
cool



TRG (SEMARAK)	DEEP MAROON (MARAKAN)	MTR (TANAH LIAT)	MEGA BLUE (TELANG)	TORRES BLUE (EMBUN)
PEARL GREY (MENDUNG)	DOVE WHITE (MERGAS)	LIGHT BEIGE (LADA PUTIH)	DARK GREY (KABUS)	CANDLE WHITE (LILIN)
DARK BROWN (SENI BALI)	YODO GREEN (PANDAN)	PLUS GREEN (KASTURI)	BACKER COLOR	

BLUESCOPE
Zacs
Natural



CLOUDY DAY	LAVAROCK	GREEN SUMMER	SMOKYROCK	SANDY SAHARA
HEAVENLY BLUE	COTTON MALLOW	SAPPHIRE	RED GARDEN	Elements CHERRY MABELIA (WOOD GRAIN)

HEADQUARTER

No. 768, Lorong Perusahaan Bukit Minyak 9,
Kawasan Perindustrian Bukit Minyak,
MK 13, 14100 Seberang Perai Tengah,
Pulau Pinang.

PENANG BRANCH

No. 736, Lorong Perusahaan Bukit Minyak 11,
Kawasan Perindustrian Bukit Minyak,
MK 13, 14100 Seberang Perai Tengah,
Pulau Pinang.

KEDAH BRANCH (SP)

Lot 33, Jalan 8,
Kawasan Perindustrian Bakar Arang,
08000 Sungai Petani,
Kedah.

KEDAH BRANCH (AS)

542, Jalan Tandop 1,
Kawasan Perindustrian Tandop Baru,
05050 Alor Setar,
Kedah.

IPOH BRANCH

Lot 304989, Jalan Seramik Chepor 11/1,
Pusat Seramik Fasa 2,
31200 Chepor,
Perak.

KL BRANCH

Lot 40031 & Lot 29138,
Seksyen 20 Bandar Serendah
Daerah Ulu Selangor,
Negeri Selangor.



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Handling



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