



Product Catalogue

PREMIUM ROOF & WALL

Premium Hi-Rib 40 PU Roofing
Premium Rockwool Panel Plus
Premium PU Wall Panel
Premium Clip Roofing

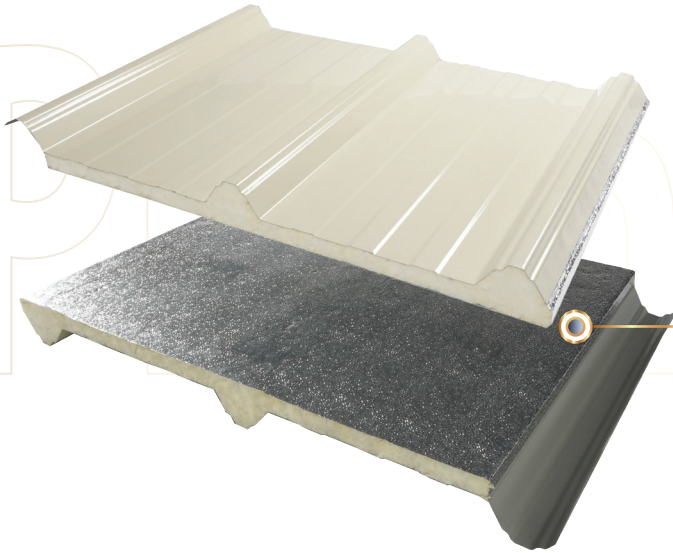




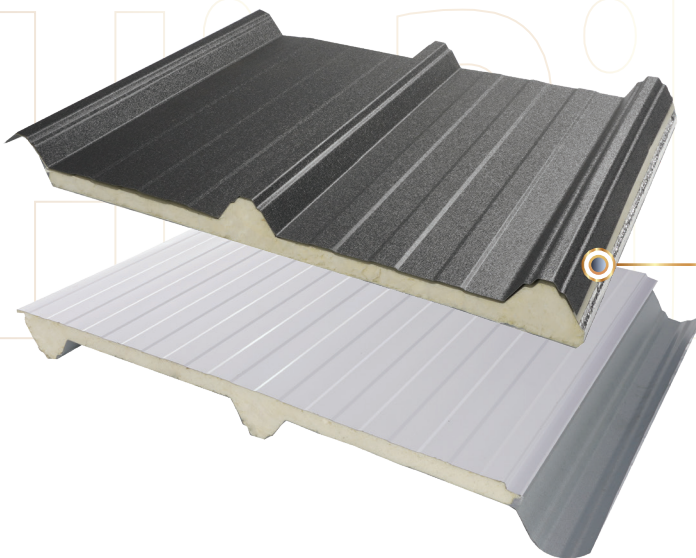
Ledex Premium® Hi-Rib 40 PU Roofing is made of high tensile steel with 40mm deep trapezoidal profile. It is able to fix down to roof of 1° pitch without any leakage. This is a premium roof profile allowing larger span and lesser fasteners that will allow less installation time. It is water- resistant and is processed using high density Close Cell Polyurethane.

Hence, it is more practical and affordable for a perfect budget consideration. The lapping and screws are concealed using clip cover same as roof color to create seamless finishes and prevent any screw rusting and warranty for leakage free and low maintenance. Both of the profiles are very high heat- resistant and very durable. Due to its total strength quality, it is harder to be damaged during transportation. It also provides a very good sound absorption that is suitable for office, hypermarket and residential use.

Ledex Premium® Hi-Rib 40 PU Roofing



Ledex Premium® Hi-Rib 40 PU Foam Roofing

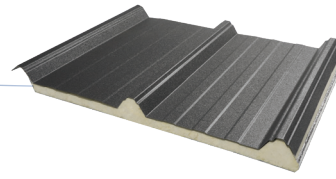
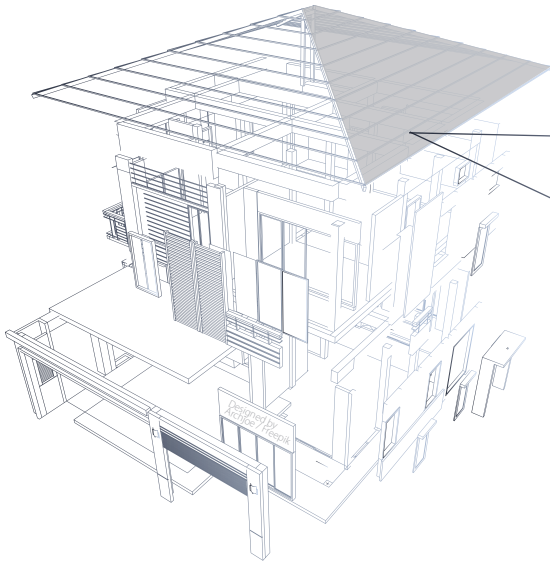


Ledex Premium® Hi-Rib 40 PU Metal Roofing

WHERE CAN IT APPLY

- Factory
- Industrial Roof
- Commercial & Industrial Buildings
- Institution Buildings
- Agriculture Mega Buildings
- Facility Roof Extensions
- Low Pitch Residential

Ledex Premium® Hi-Rib 40 PU Roofing



Ledex Premium® Hi-Rib 40 PU Metal Roofing



Ledex Premium® Hi-Rib 40 PU Foam Roofing

BQ Specification

Ledex Premium® Hi-Rib 40 PU Metal 50 mm, 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



Material warranty on perforated by corrosion:

- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs Natural AZ90
- Up to 20 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

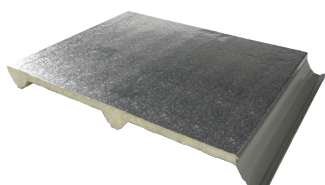
*Term & condition apply

Example

Design, fabricate and install “Ledex Premium® Hi Rib 40 Pu Metal 50 mm” 0.40 mm TCT In Bluescope Prima Maju AZ100 with approved color ; laid to fall at minimum 1° 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 20 years warranty on perforated by corrosion)

Polyurethane (PU) Foam



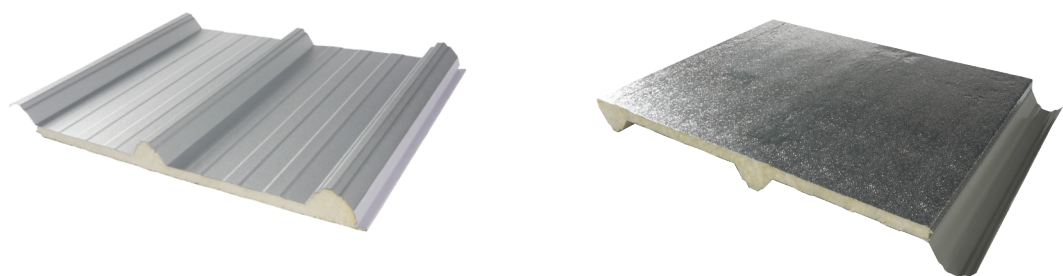
3 layers of prepainted metal sheet, rigid Polyurethane (PU) foam with inner layer fire-retardant aluminium foil 0.22mm lamination

Polyurethane (PU) Metal

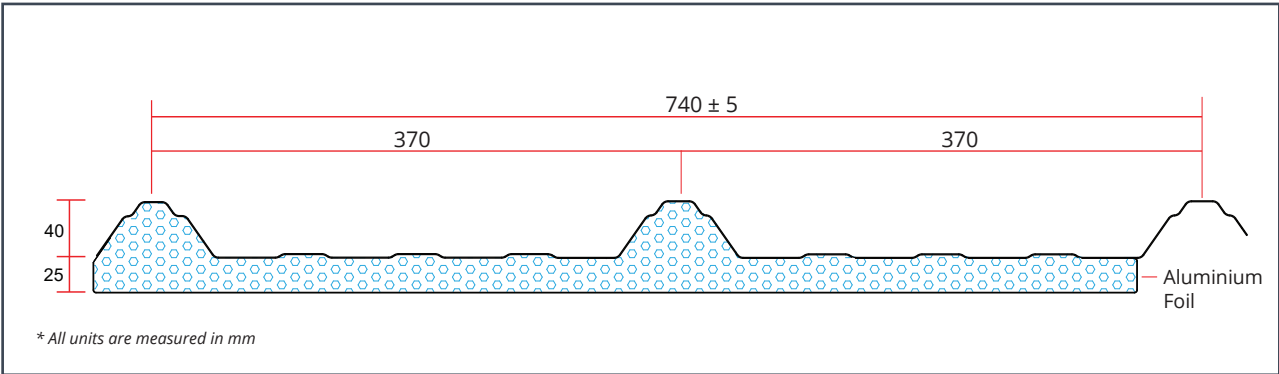


Insulation system made up of 3 layers, which consisted a layer of rigid Polyurethane (PU) foam in between two prepainted metal sheet

Ledex Premium® Hi-Rib 40 PU Foam Roofing



Specification Drawing



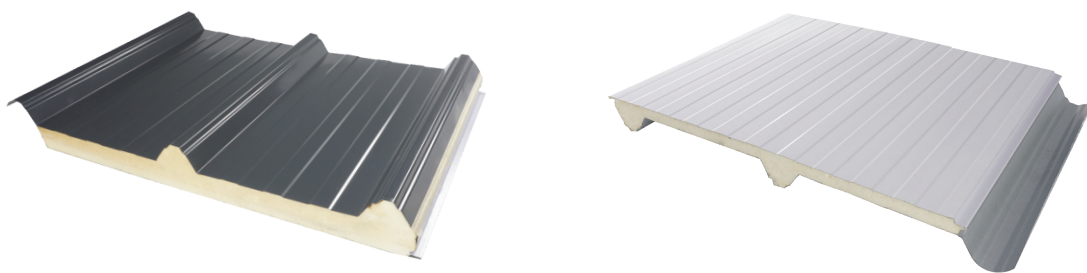
Product Specification

Profile	Ledex Premium® Hi-Rib 40 PU Foam Roofing
Effective Width	740 mm
Depth of Rib	40 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Zincalume, Vermoe, Colorbond
Inner Layer Finishing	Aluminium Foil 0.22 mm
PU Foam Thickness	25 mm
Minimum Roof Pitch	1° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

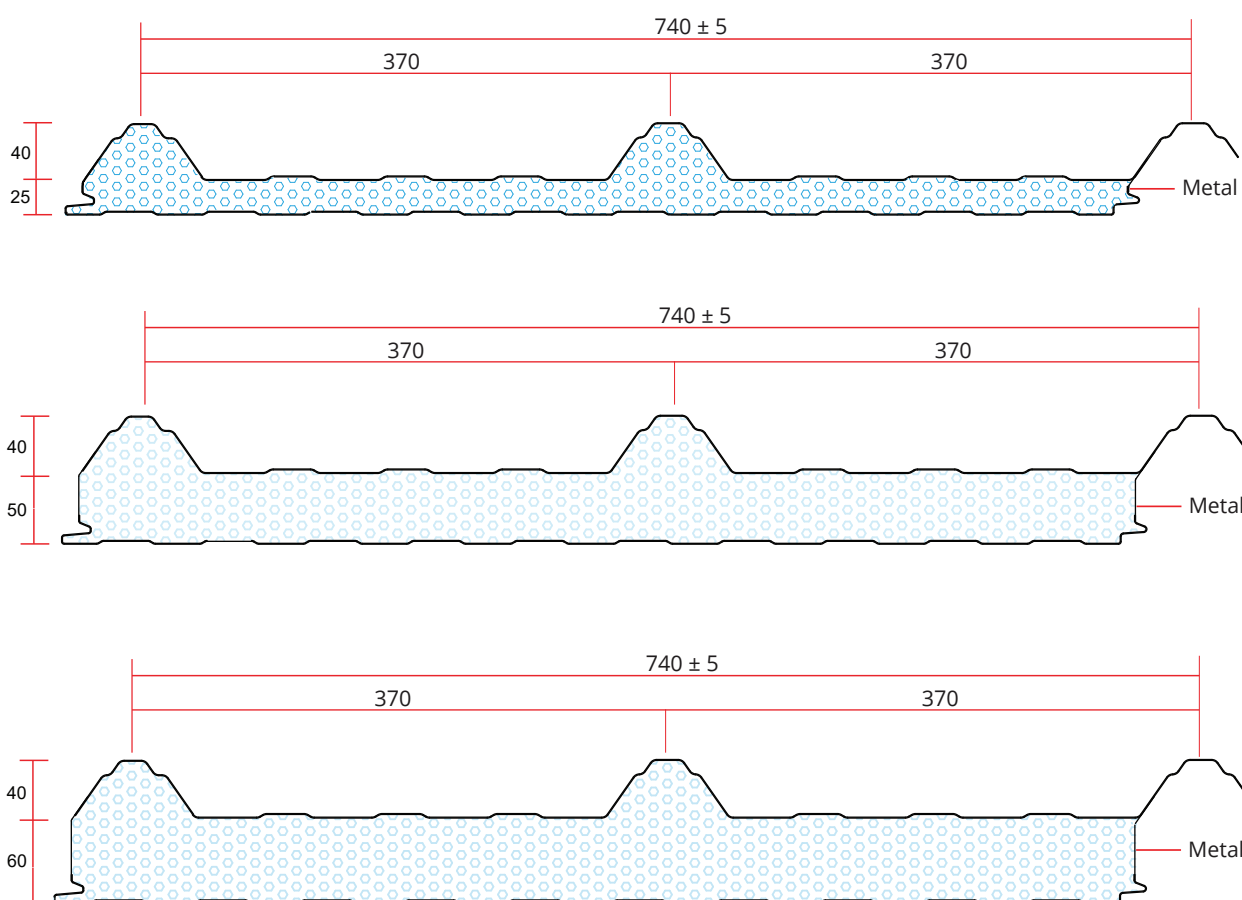
Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	PU Foam 25mm(kg/m)
0.30	0.36	3.30
0.35	0.40	3.70
0.40	0.45	4.00
0.42	0.47	4.10
0.48	0.53	4.60

Ledex Premium® Hi-Rib 40 PU Metal Roofing



Specification Drawing



* All units are measured in mm

Ledex Premium® Hi-Rib 40 PU Metal Roofing is available in 3 different thicknesses, which are 25mm, 50mm and 60mm. Each thickness has their own performance on insulation and sound absorption, which is suitable for office, commercial and residential use.

Product Specification

Profile	Ledex Premium® Hi-Rib 40 PU Metal Roofing
Effective Width	740 mm
Depth of Rib	40 mm
Steel Grade	Zincalume G300 Steel, Zincalume G550 Steel
Outer Layer Finishing	Zacs, Zacs Cool, Zacs Natural, Prima Maju, Zincalume, Vermoe, Colorbond
Inner Layer Finishing	Metal 0.30 mm
PU Foam Thickness	25 mm, 50 mm, 60mm
Minimum Roof Pitch	1° Sheet without end lap
Tolerance	Length $\pm$ 3 mm, Width $\pm$ 5 mm, Metal Thickness $\pm$ 0.03 mm, PU Thickness $\pm$ 2 mm

Thickness Available

Thickness BMT (mm)	Thickness TCT (mm)	PU Metal 25mm (kg/m)	PU Metal 50mm (kg/m)	PU Metal 60mm (kg/m)
0.30	0.36	5.20	6.10	6.40
0.35	0.40	5.60	6.50	6.80
0.40	0.45	5.90	6.80	7.10
0.42	0.47	6.00	6.90	7.20
0.48	0.53	6.50	7.40	7.70

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M2) Span (Length)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.35	0.40	20.12	8.93	5.00	3.20	2.20	1.60
0.40	0.45	22.12	9.80	5.50	3.50	2.42	1.77
0.42	0.47	22.78	10.09	5.66	3.67	2.54	1.86
0.48	0.53	30.51	14.19	7.97	4.08	3.52	2.56

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree				
	1°	2°	3°	5°	7°
250	147	190	224	274	328
300	124	161	187	231	279
400	96	112	136	173	209
500	76	96	113	140	167

Maximum Recommended Spacing of Supports

Ledex Premium® Hi-Rib 40 PU Foam & PU Metal (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 Premium® Hi-Rib 40 PU Metal (50 mm)

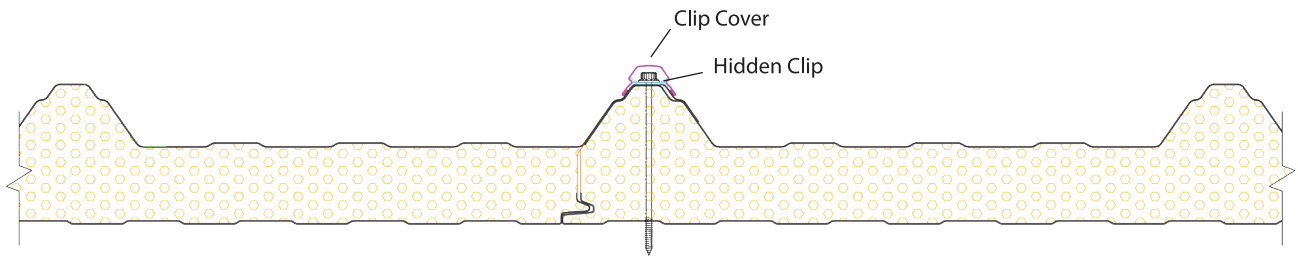
Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.35	0.40	1800	1600	2100	1900	200
0.40	0.45	2150	1750	2450	2150	250
0.42	0.47	2200	1800	2500	2200	250
0.48	0.53	2400	2000	2800	2500	300

Ledex Premium® Hi-Rib 40 PU Metal (60 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	1850	1650	2150	1950	200
0.40	0.45	2200	1800	2500	2200	250
0.42	0.47	2300	1900	2600	2400	300
0.48	0.53	2500	2100	2900	2600	350

Insulation Properties

Item	Specifications		
Type of Insulation	Rigid Polyurethane(PUR) / Polyisocyanurate(PIR)		
Foam Density	38 kg/m ³ - 42 kg/m ³ / 45 kg/m ³ - 50 kg/m ³		
Insulation Grade	Non CFC, Non HCFC		
K Value (Thermal Conductivity)	0.024 w/mk		
Thickness of Insulation	25 mm	50 mm	60 mm
U Value (Thermal Transmittance)	0.96 w/m ² k	0.48w/m ² k	0.40 w/m ² k
R Value (Thermal Resistance)	1.04 w/mk	2.08 w/mk	2.50 w/mk



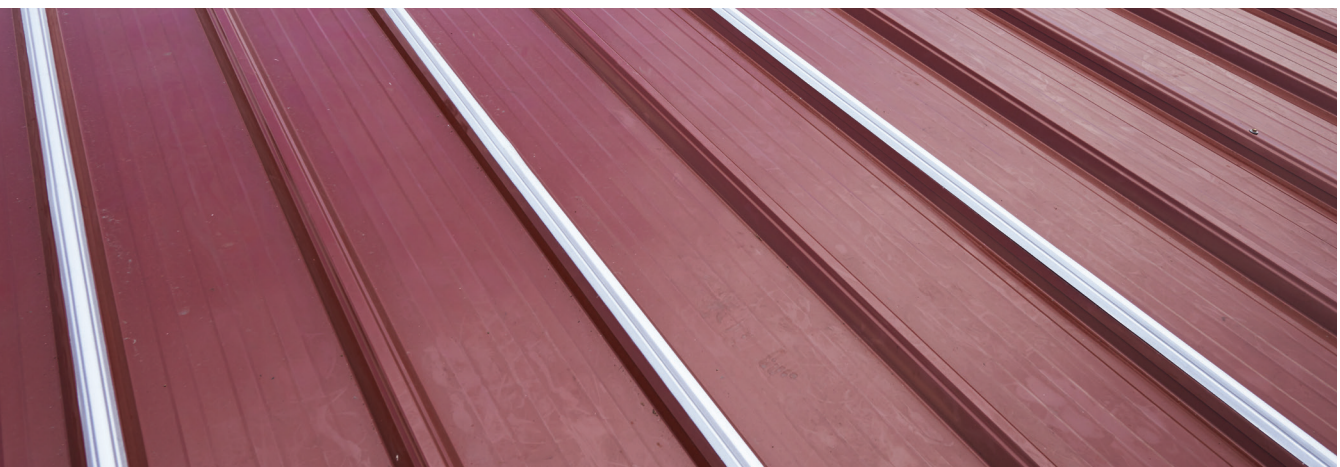
3 Simple Steps to Install



Measure the length

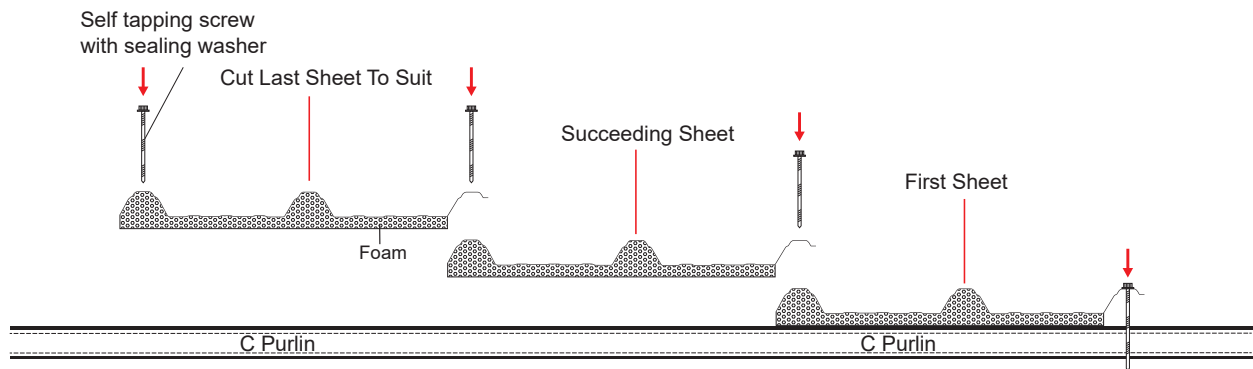


Fix the hidden clip



Fix the clip cover on the rib

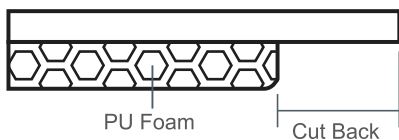
Installation



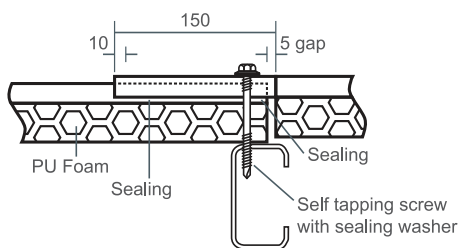
Panel End Cut Back

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

- Cut back at end laps - 6 inch (150 mm)
- Minimum setback 6 inch (150 mm)

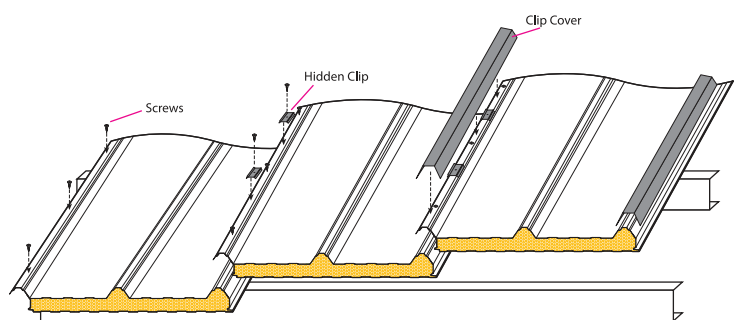
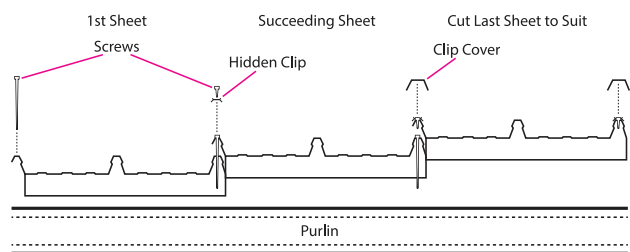


Panel End Lap



Concealed Fixing Concept

With concealed fixing, screws are covered with clip covers, hence prevent exposing screws to corrosion. It is less likely to have leaks, minimising maintenance.



ACCESSORIES: HIDDEN CLIP & CLIP COVER

Hidden Clip Position Joint



Clip Cover Fixed





Project Title: Thye Heng Engineering (Warehouse)
Location : Batu Kawan, Penang



Project Title: Majlis Perbandaran Sungai Petani
Location : Sungai Petani, Kedah



Project Title: KEDA Langkawi Light Industry
Location : Langkawi, Kedah



Ledex Premium® Clip Roofing is designed to have an interlock action rib for positive concealed clip fixing, that is roll-formed precisely from genuine high tensile G550 Zincalume steel. It is available in a range of Prima Maju, Clean Colorbond and Zincalume by BlueScope Steel.

Ledex Premium® Clip 670 & 710 Roofing disperses rainwater quickly and efficiently to the outer perimeters of the roof, thus making it an excellent choice for areas with severe rainfall intensity in Asia. Ledex Premium® Clip 670 & 710 Roofing remain as one of the most trusted and reliable products since our incorporations.

Designed to perform at a minimum recommended roof pitch of 2° (1 in 29), Ledex Premium® Clip 670 & 710 Roofing provide a lightweight but extremely strong water-proof roofing system with its wide minimum 188 mm fluted pans and high rib 41 mm and 35 mm design.



Ledex Premium® Clip Roofing



Ledex Premium® Clip 670 Roofing

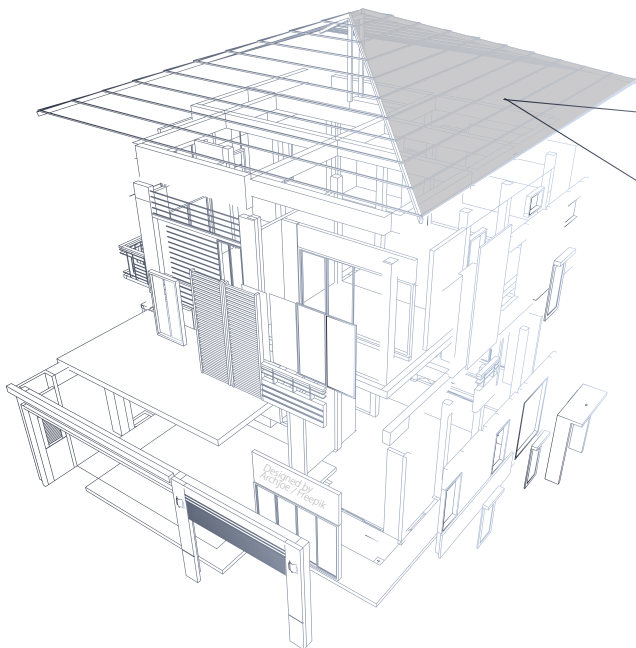


Ledex Premium® Clip 710 Roofing

WHERE CAN IT APPLY

- Factory
- Commercial Building
- Sports Usage Facilities
- Institution Buildings
- Shoplots
- Warehouses

Ledex Premium® Clip Roofing



Ledex Premium® Clip Roofing



Fixing Clip

BQ Specification

Ledex Premium® Clip 670 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 Premium® Clip 670 Roofing" 0.53 mm TCT In Bluescope Zacs Cool AZ90 with approved color ; laid to fall at minimum 1° 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.

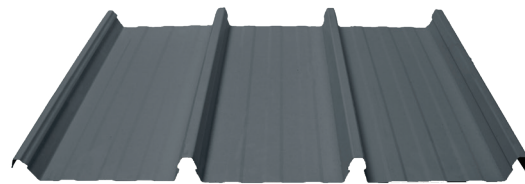
(Up to 10 years warranty on perforated by corrosion)

Material warranty on perforated by corrosion:

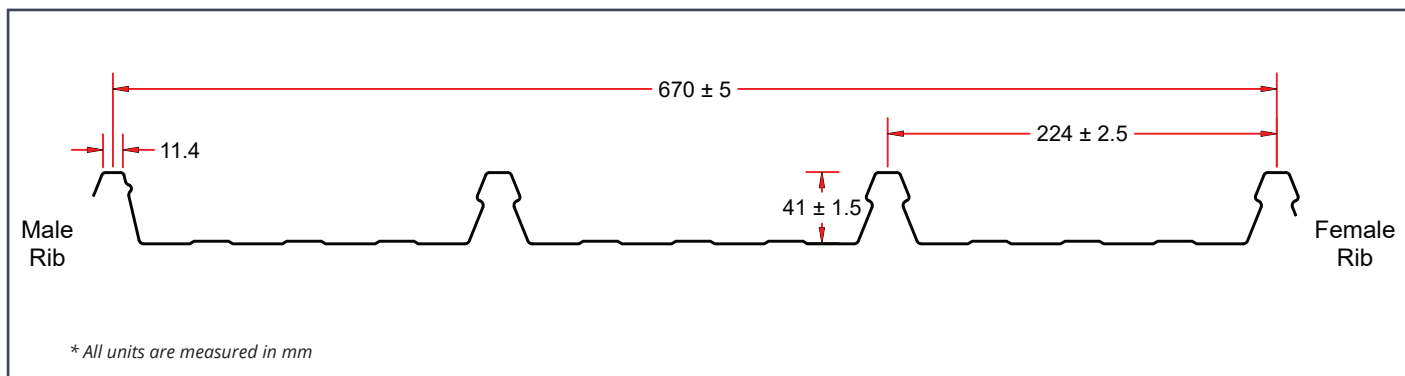
- Up to 10 years – Bluescope Zacs Cool AZ90;
 - Bluescope Zacs Natural AZ90
- Up to 20 years – Bluescope Prima Maju AZ100
- Up to 25 years – Bluescope Zinalume AZ150;
 - Bluescope Clean Colorbond AZ150
- Up to 30 years – Bluescope Zinalume AZ200;
 - Bluescope Clean Colorbond Ultra AZ200

*Term & condition apply

Ledex Premium® Clip 670 Roofing



Specification Drawing



Product Specification

Profile	Ledex Premium® Clip 670 Roofing
Effective Width	670 mm
Depth of Rib	41 mm
Steel Grade	Zincalume G550 Steel
Finishing	Prima Maju, Zincalume, Vermoe, Colorbond
Thickness	0.45 mm, 0.47 mm, 0.53 mm
Minimum Roof Pitch	2° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

Thickness Available

Finishing	Prima Maju		Zincalume		Vermoe		Colorbond	
Thickness TCT (mm)	0.47	0.53	0.47	0.53	0.47	0.53	0.47	0.53
Mass per Unit Area (kg/m ²)	4.76	5.40	4.73	5.37	4.81	5.45	4.81	5.45
Mass per Unit Length (kg/mtr)	3.19	3.62	3.17	3.60	3.22	3.65	3.22	3.65
Coverage (m ² / tonne)	210.08	185.19	211.42	186.22	207.90	183.49	207.90	183.49

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.40	0.45	14.83	4.37	1.83	0.92	0.52	0.31
0.42	0.47	15.57	4.59	1.92	0.96	0.54	0.33
0.48	0.53	17.80	5.24	2.19	1.10	0.62	0.38

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	2°	3°	5°	7.5°
250	190	224	274	328
300	161	187	231	279
400	112	136	173	209
500	96	113	140	167

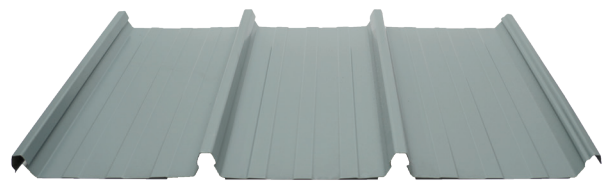
Maximum Recommended Spacing of Supports

Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.42	0.47	2200	1800	2500	2200	250
0.48	0.53	2400	2200	2800	2500	300

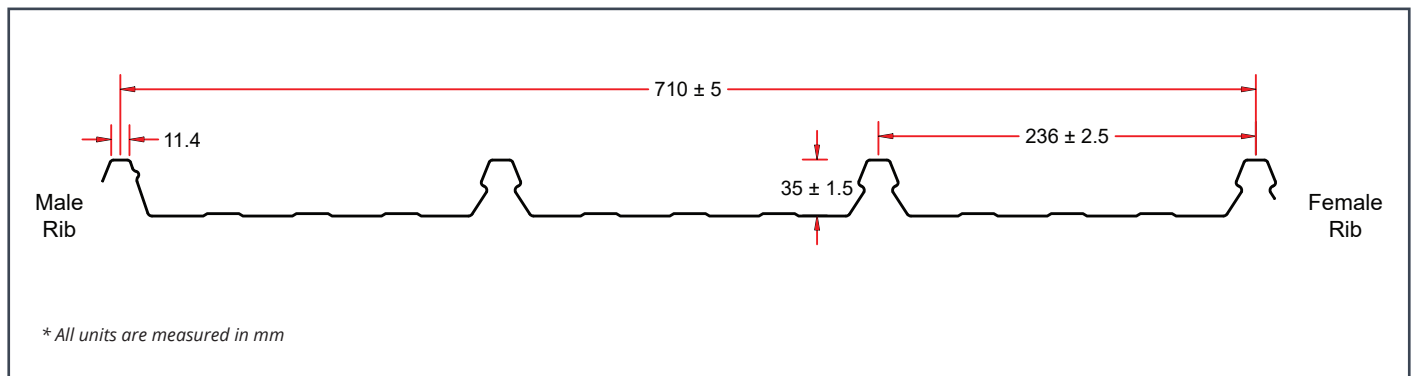
Load Capacity of Ledex Premium® Clip Roofing Over Continuous Beam

Thickness TCT (MM)	Span (m)	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.5
0.47	Safe Load (kg/m ²)	580	371	258	189	145	114	93	68
	Deflection for above Load (kg/mm)	4	6	9	12	16	20	25	34
0.53	Safe Load (kg/m ²)	662	424	294	216	166	131	106	78
	Deflection for above Load (kg/mm)	4	6	9	12	16	20	25	34

Ledex Premium® Clip 710 Roofing



Specification Drawing



Product Specification

Profile	Ledex Premium® Clip 710 Roofing
Effective Width	710 mm
Depth of Rib	35 mm
Steel Grade	Zincalume G550 Steel
Finishing	Prima Maju, Zincalume, Vermoe, Colorbond
Thickness	0.45 mm, 0.47mm, 0.53 mm
Minimum Roof Pitch	2° Sheet without end lap
Tolerance	Length ± 3 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm

Thickness Available

Finishing	Prima Maju		Zincalume		Vermoe		Colorbond	
Thickness TCT (mm)	0.47	0.53	0.47	0.53	0.47	0.53	0.47	0.53
Mass per Unit Area (kg/m ²)	4.49	5.10	4.46	5.07	4.54	5.15	4.54	5.15
Mass per Unit Length (kg/mtr)	3.19	3.62	3.17	3.06	3.22	3.65	3.22	3.65
Coverage (m ² / tonne)	222.72	196.08	224.22	197.24	220.26	194.17	220.26	194.17

Wind Capacity Load Span

Thickness BMT (mm)	Thickness TCT (mm)	Distributed Load (kN/M ²)					
		0.6	0.9	1.2	1.5	1.8	2.1
0.40	0.45	10.55	3.10	1.29	0.64	0.36	0.21
0.42	0.47	11.08	3.26	1.35	0.68	0.38	0.22
0.48	0.53	12.67	3.73	1.55	0.77	0.43	0.26

Recommended Maximum Roof Length (M)

Rainfall (mm/h)	Slope in Degree			
	2°	3°	5°	7.5°
250	139	163	199	238
300	117	135	167	203
400	81	98	125	152
500	70	82	101	121

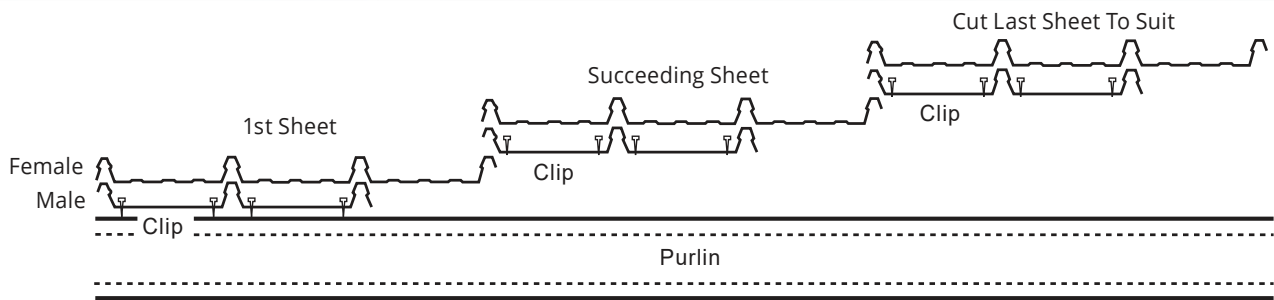
Maximum Recommended Spacing of Supports

Thickness BMT (mm)	Thickness TCT (mm)	Roofing		Wall		Free Cantilever (mm)
		Internal Span (mm)	End Span (mm)	Internal Span (mm)	End Span (mm)	
0.42	0.47	1800	1600	2200	2000	200
0.48	0.53	2000	1800	2400	2200	250

Load Capacity of Ledex Premium® Clip Roofing Over Continuous Beam

Thickness TCT (MM)	Span (m)	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.5
0.47	Safe Load (kg/m ²)	550	352	245	180	138	108	88	65
	Deflection for above Load (kg/mm)	4	6	9	12	16	20	25	34
0.53	Safe Load (kg/m ²)	627	401	279	205	157	123	100	74
	Deflection for above Load (kg/mm)	4	6	9	12	16	20	25	34

The Concealed Fixing Concept

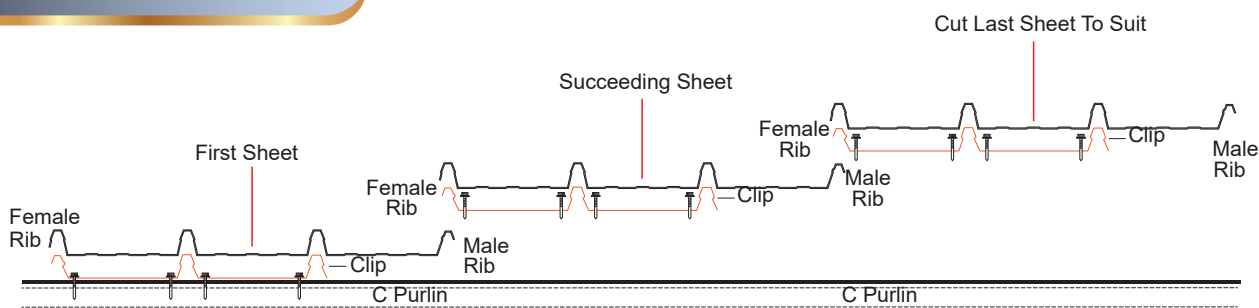


Note : Four fasteners required per clip

Features of Concealed-fixed Steel Cladding

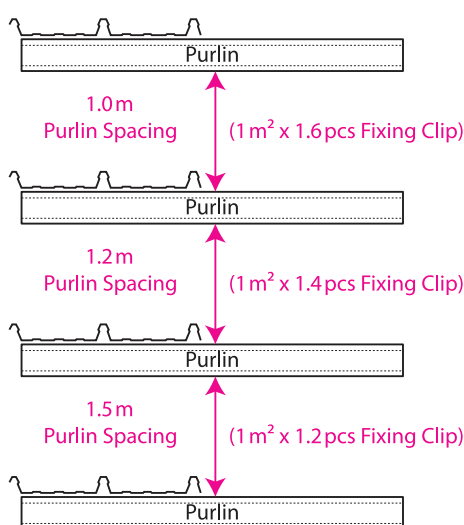
- Excellent water-carrying capacity, as well as structural strength, ease of erection, dust and watertightness, and the versatility to be cranked.
- Suitable for use in most climatic conditions.
- Not only eliminates leaking through and rusting around the fastener but also gives safety, stability and easy installation.
- Optional roll on-site for long length movable roll forming available at extra cost.
- Bold rib makes strong visual statement.
- Transverse fluting adds to spanning performance.
- Roll-formed precisely from genuine high tensile G550 Zincalume steel for improved side lap and spanning characteristics.
- Minimum recommended roof pitch of 2° (1 in 29), and vertically for cladding.
- Fixed with each other by linking together by means of concealed clips fastened to the top of the purlins, and the clips allow expansion and contraction of the sheets without straining the securing points.

Installation



Note : Four fasteners required per clip

Calculation Of Fixing Clip



FIXING CLIP QUANTITY CALCULATION TABLE			
Clip 670	Purlin Spacing (mm)		
Length (ft)	1000	1200	1500
10	2.10	1.70	1.50
20	1.90	1.50	1.20
30	1.80	1.40	1.10
40	1.80	1.40	1.10
50	1.70	1.30	1.10
60	1.70	1.30	1.10
70	1.70	1.30	1.10
80	1.70	1.30	1.00
90	1.70	1.30	1.00
100	1.70	1.30	1.00
110	1.70	1.30	1.00
120	1.70	1.30	1.00
130	1.70	1.30	1.00
140	1.70	1.30	1.00
150	1.70	1.30	1.00
160	1.70	1.30	1.00
170	1.70	1.30	1.00
180	1.70	1.30	1.00
190	1.70	1.30	1.00
200	1.70	1.30	1.00

FIXING CLIP QUANTITY CALCULATION TABLE			
Clip 710	Purlin Spacing (mm)		
Length (ft)	1000	1200	1500
10	2.00	1.60	1.40
20	1.80	1.40	1.20
30	1.70	1.30	1.10
40	1.70	1.30	1.00
50	1.60	1.30	1.00
60	1.60	1.20	1.00
70	1.60	1.20	1.00
80	1.60	1.20	1.00
90	1.60	1.20	1.00
100	1.60	1.20	1.00
110	1.60	1.20	1.00
120	1.60	1.20	1.00
130	1.60	1.20	1.00
140	1.60	1.20	1.00
150	1.60	1.20	1.00
160	1.60	1.20	1.00
170	1.60	1.20	1.00
180	1.60	1.20	1.00
190	1.60	1.20	1.00
200	1.60	1.20	1.00



ROLL ON SITE



- When it comes to roof, fewer seams and simpler delivery of materials to the rooftop make for faster installation and longer lasting product.
- Minimal storage problem.
- No expensive shipping and crating of long panels. Coils are delivered right to the jobsite.
- No panel shipping damage and delays are minimal.
- Less labor and waste in terms of packing, transport and storage.
- The ability to work on your own schedule, not the factory's.
- The ability to form perfect panels to any length.



TE FORMING



Site Mobilise

We have vast experience in catering to our customer's high requirements due to our flexibility in moving our machine to the construction site.

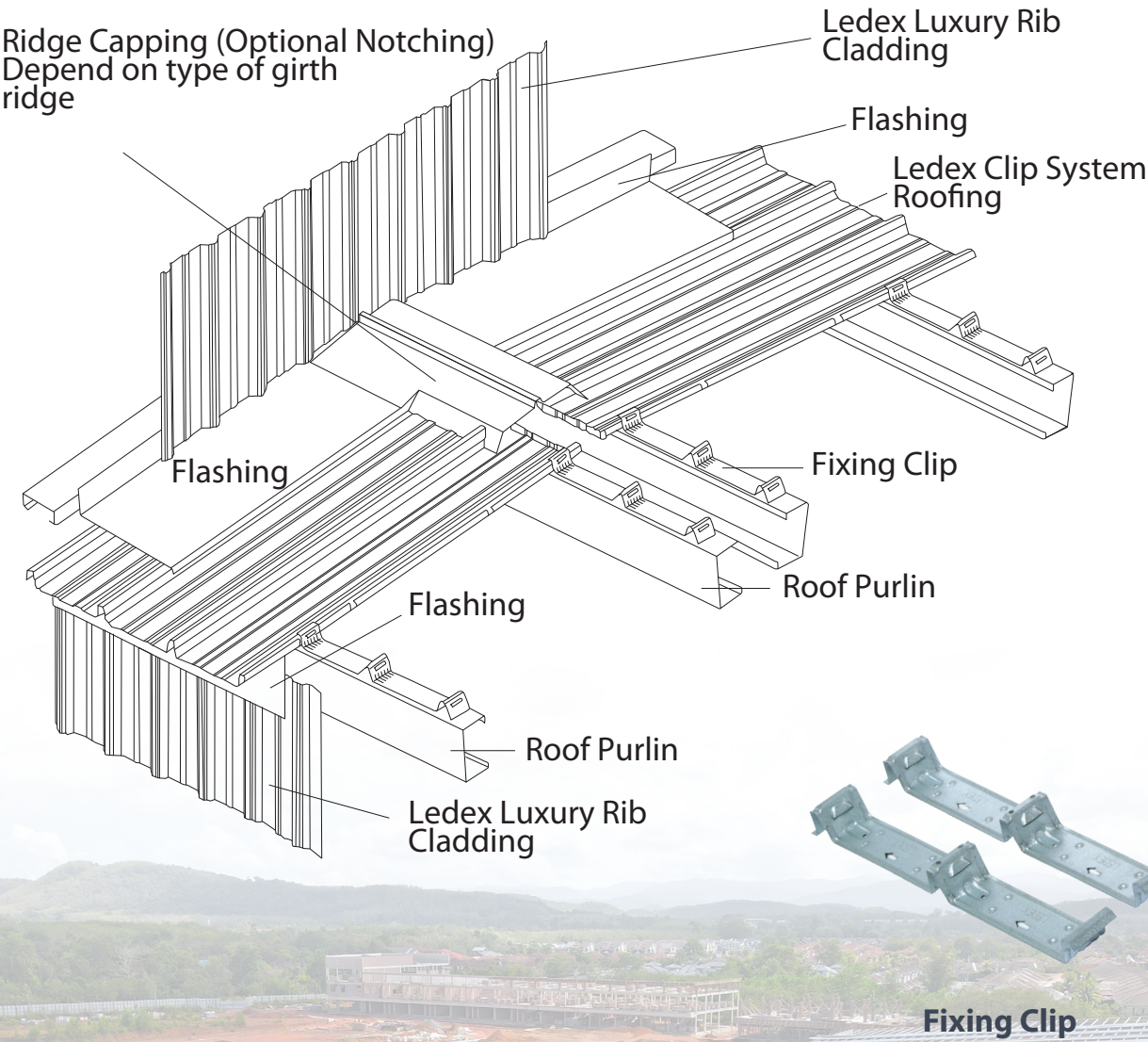
Site Forming

For customer who requires long roofing panel, we will do the production on site, by making the impossible, possible.

Forming

We are ready to provide extra workforce to support customer on site.

Cladding Assembly



Fixing Clip



Project Title: Hijauan Residence
Location : Jawi, Penang



Project Title: C Mart
Location : Padang Serai, Kedah

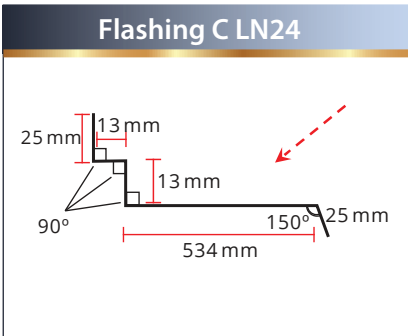
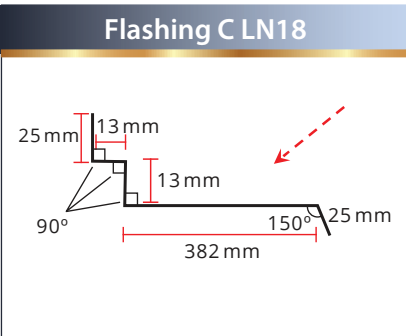
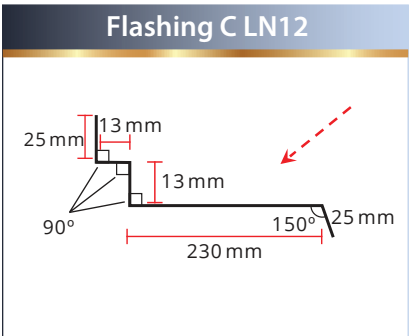
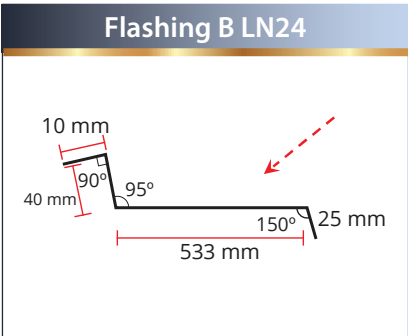
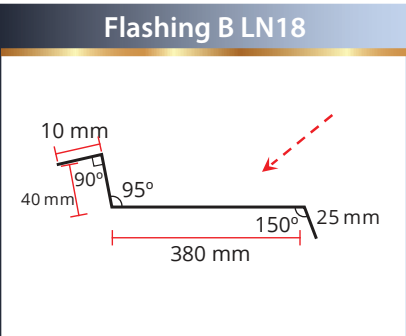
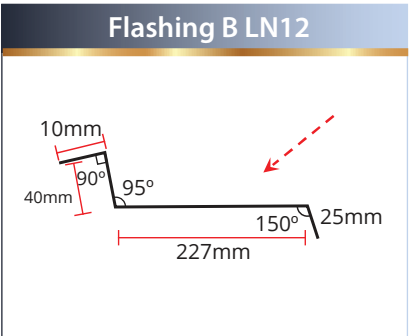
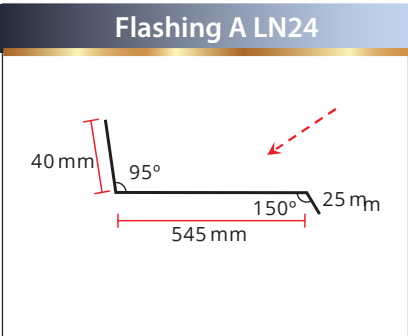
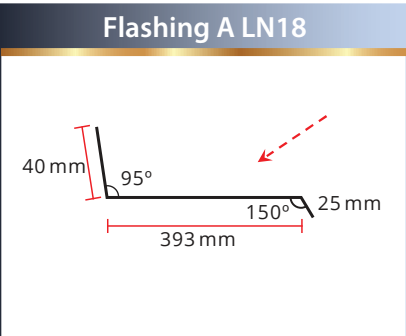
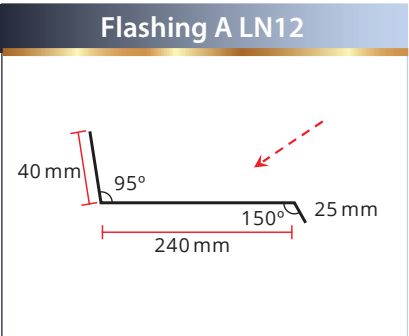
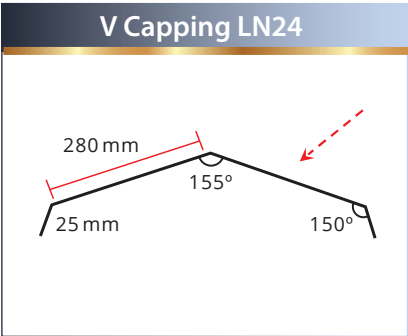
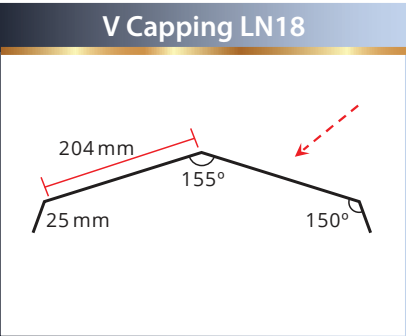
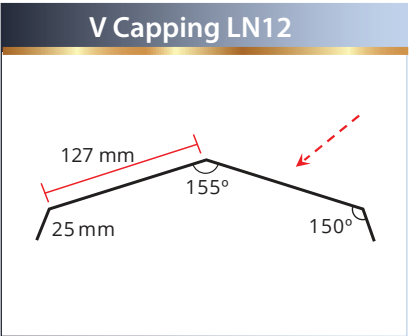
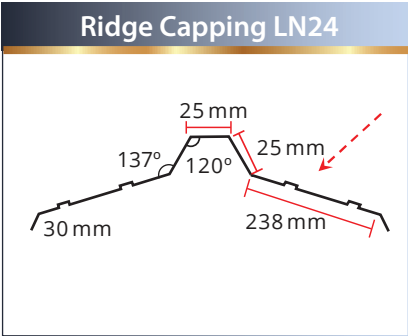
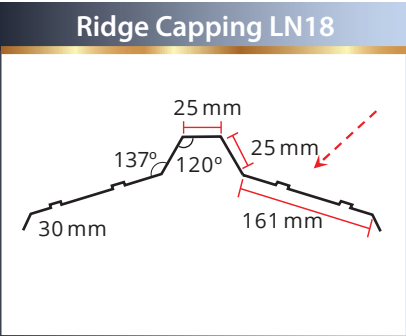
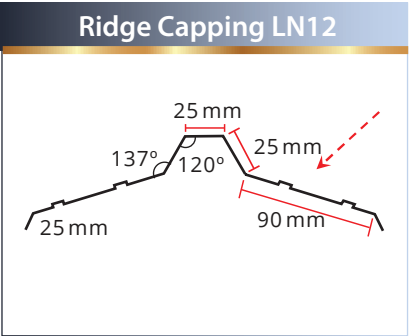


Project Title: Hotayi Electronic (Phase 2)
Location : Batu Kawan, Penang



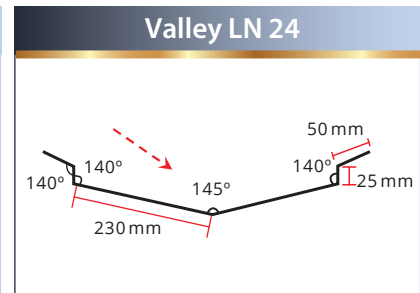
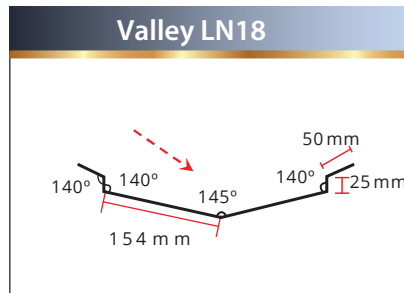
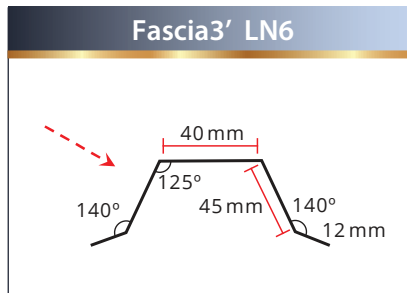
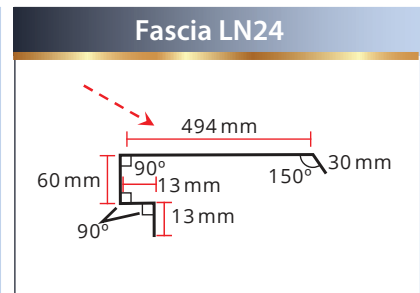
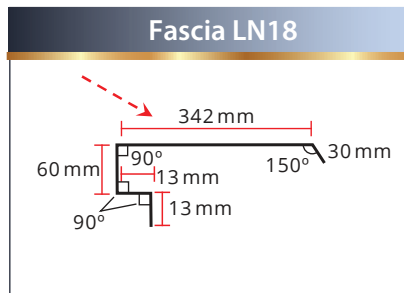
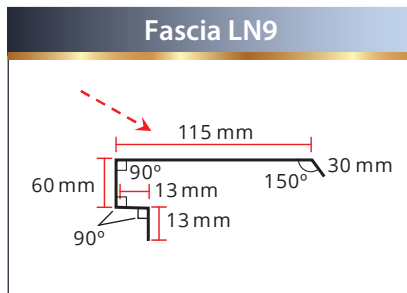
Capping Accessories

Standard Flashing / Capping

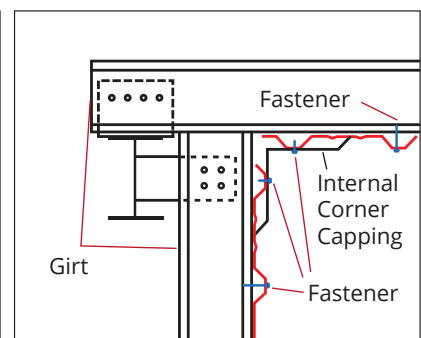
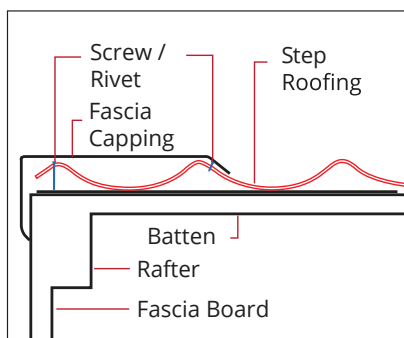
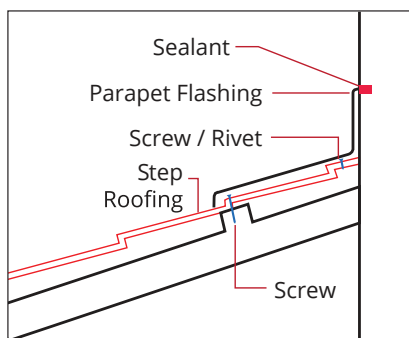
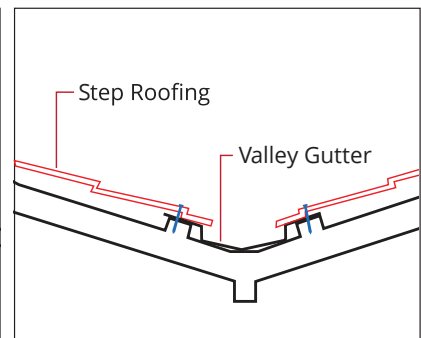
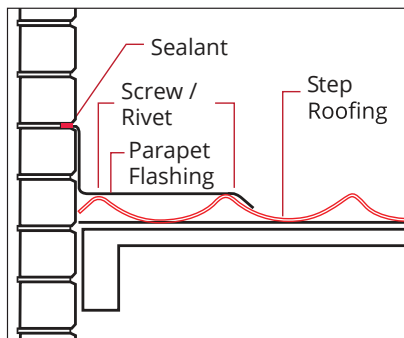
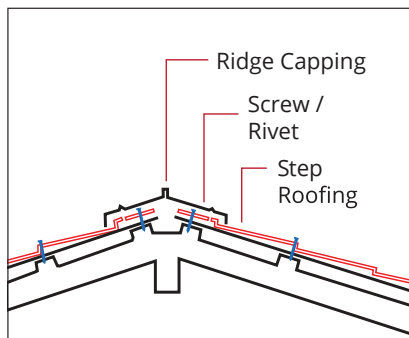


Capping Accessories

Standard Flashing / Capping



Installation



The Ledex Premium® Wall Panel Series

comprises Ledex Premium® PU Wall Panel, Ledex Premium® PU Wall Panel Plus, and Ledex Premium® Rockwool Panel Plus, offering premium insulated wall panel solutions for commercial, industrial, and temperature-controlled applications. Manufactured using prepainted Zincalume G300 steel and advanced continuous sandwich panel production technology, the panels are engineered to deliver excellent durability, structural integrity, and long-lasting performance.

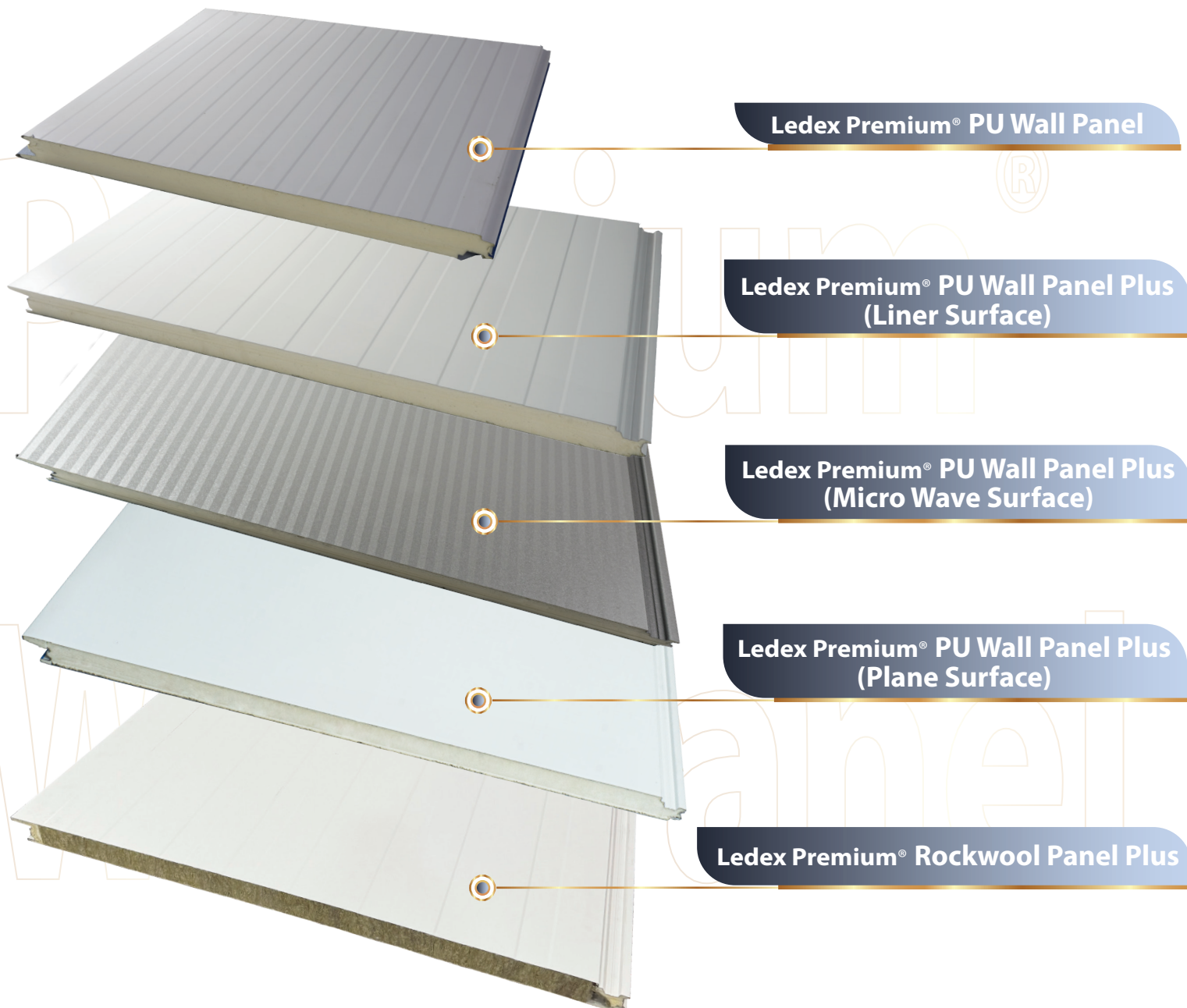
The PU panel series features high-density closed-cell polyurethane insulation, providing outstanding thermal efficiency while reducing heat transfer and noise transmission. The Rockwool Panel Plus is designed with high-density rockwool insulation, offering superior fire resistance together with excellent thermal and acoustic performance, making it suitable for projects with higher fire safety requirements.

Designed with a concealed fixing (hidden joint) system, the Premium Wall Panel Series creates a clean, seamless appearance while protecting fasteners from exposure, helping to minimise corrosion and maintain its aesthetic appeal over time. Available in a wide range of colours and specifications, the panels are suitable for commercial partitions, cold rooms, clean rooms, warehouses, factories, food processing facilities, and other insulated building applications.

The Plus variants provide wider effective coverage, allowing faster installation and improved construction efficiency without compromising performance, making the Ledex Premium® Wall Panel Series a reliable solution for modern building projects that demand quality, efficiency, safety, and lasting value.



Ledex Premium® Wall Panel



WHERE CAN IT APPLY

Commercial

Cold Room/ Clean Room
Building Extension
Food Processing Facility

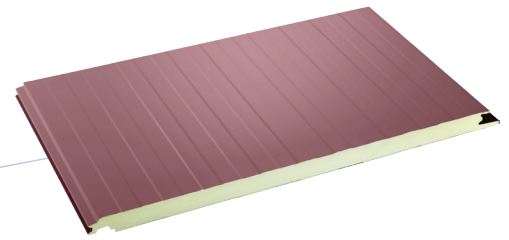
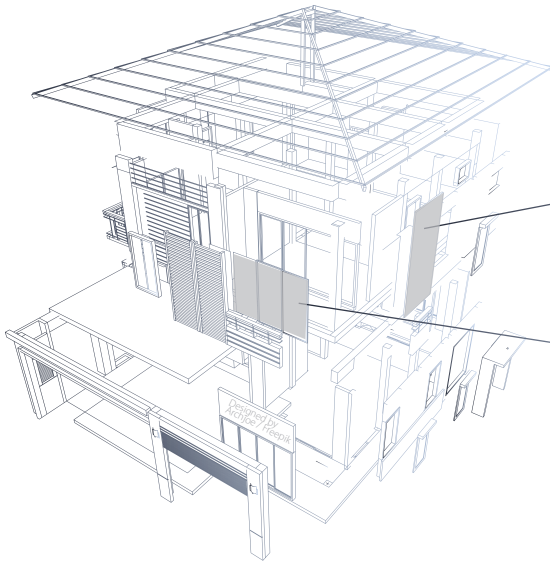
Cooling Warehouse
Inner Container
Chill Store

Agro House

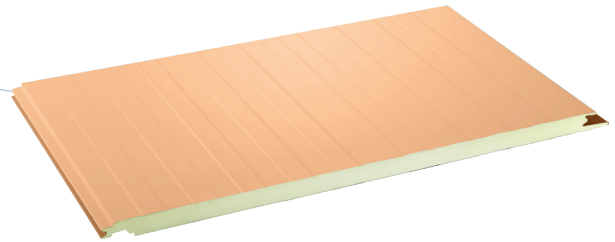
Cold Room/ Clean Room
Building Extension
Food Processing Facility

Breeder House
Broiler House

Ledex Premium® PU Wall Panel



Ledex Premium® PU Wall Panel



Ledex Premium® PU Wall Panel Plus

BQ Specification

Ledex Premium® PU Wall Panel 50 mm 0.40 mm TCT

Brand

Profile

PU
Thickness

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 Premium® PU Wall Panel 50 mm" 0.4 mm TCT In Bluescope Zacs Natural 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

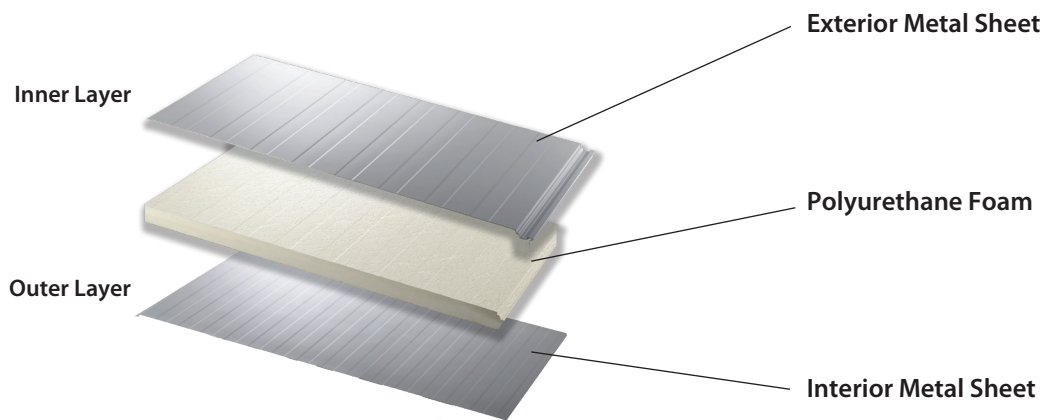
Up to 10 years on perforated by corrosion

Up to 5 years on colour fading

*Term & condition apply



3 LAYERS OF WALL PANEL

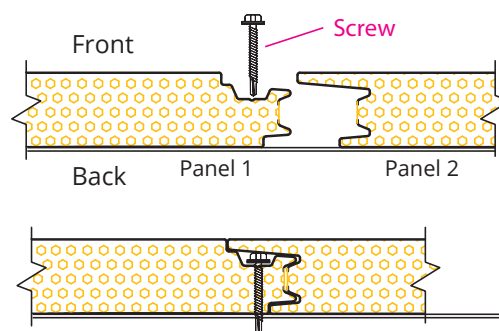


Ledex Premium® PU Wall Panel and **Ledex Premium® PU Wall Panel Plus** insulation system is made up of 3 layers, a layer of rigid Polyurethane (PU) foam in between prepainted metal sheet.

There are 2 types of Wall Panel Profile :

- Ledex Premium® PU Wall Panel, effective width 770 mm
- Ledex Premium® PU Wall Panel Plus, effective width 1070 mm

CONCEALED SCREW CONCEPT



It's Advantages

- Provide a clean and streamlined finish look**
- Less susceptible to leaks**
- Reduced wear and tear on the metal screws/fasteners**
- Less maintenance in long run**

POLYURETHANE INSULATION FOAM & POLYISOCYANURATE INSULATION FOAM

Ledex Premium® PU Wall Panel & PU Wall Panel Plus comes with 40 mm, 50 mm and 60 mm foam thickness, with two vital material options, which are PIR (Polyisocyanurate Insulation Foam) and PUR (Polyurethane Insulation Foam).

PUR and PIR are manufactured from the two components isocyanate (MDI) and polyol. This is a development of the classic polyurethane rigid foam that displays excellent thermal insulation properties.

Polyisocyanurate Insulation Foam (PIR)

PIR foam is used to manage, control and resisting high temperature. It is categorized as isocyanurate that will decompose at only 325 celcius and carboninzation can reach up to 50%. Hence, it is proven that PIR foam is protection for combustion and the carbonized layer will cut down the high temperature passing through the panel. This results conclude that it is a proven product that is fire resistance. PIR also has superior thermal resistance and dimensional stability.

Polyurethane Insulation Foam (PUR)

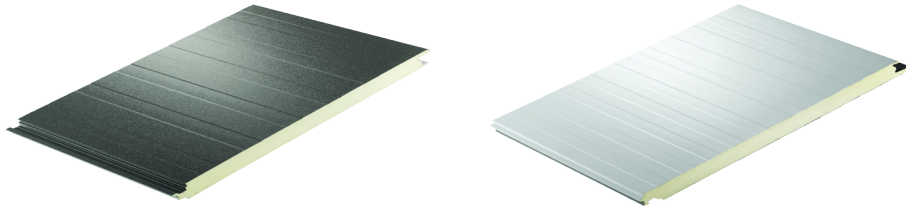
On the other hand, PUR foam will decompose at lower temperature (around 200 celcius) compared to PIR foam. Therefore the carbonization is also low achieving only 20%. Polyurethane foam insulation can work well as a soundproofing material - particularly for muting midrange noises like music and voices.

HANDLING & PACKING

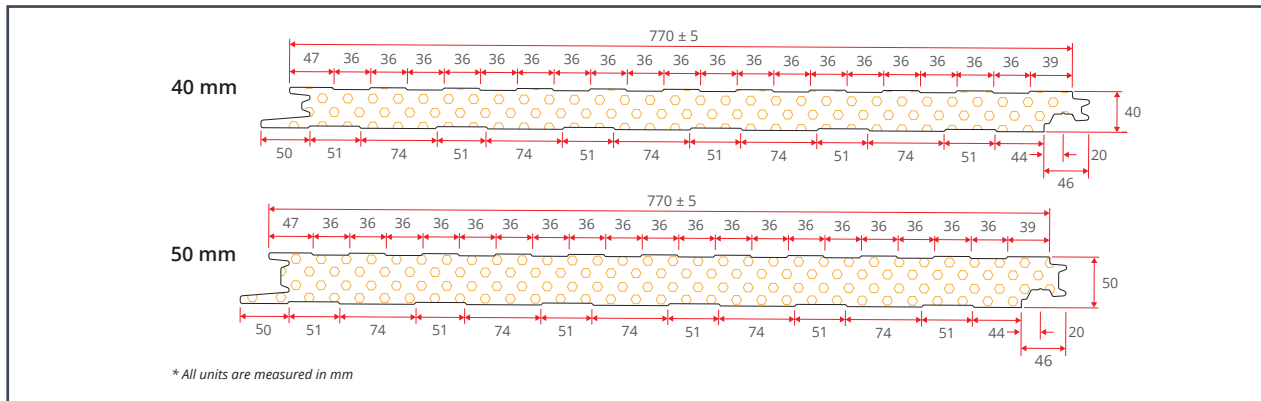
We pay high attention and commitment to how our products are packaged. More manpower is used to put the products on standard crates before filming them. The sides are also protected with plywood. Precaution measurements have been taken to avoid any skidding in the container during transportation. We ensure every delivery that reach our customer is in good condition. Indeed we also provide custom made packaging for customer who requires extra protection for their specific order.



Ledex Premium® PU Wall Panel



Specification Drawing



Product Specification

Profile	Ledex Premium® PU Wall Panel
Effective Width	770 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Zacs Natural, Prima Maju, Colorbond
Inner Layer Finishing	Zacs Natural, Prima Maju, Colorbond
Type of PU Foam	Polyurethane (PUR) / Polyisocyanurate (PIR)
PUR Insulation Density	40 - 45 kg/m ³
PU Foam Thickness	40 mm, 50 mm, 60 mm
Standard Length	Minimum Length 1500 mm, Maximum Length 6000 mm
Surface Available	Liner Surface, Plane Surface & Micro Wave Surface
Tolerance	Length ± 2 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, PU Thickness ± 2 mm

Thickness Available

Inner /Outer Layer Thickness TCT (mm)	0.36	0.40	0.47	0.53
Weight (kg/m)	2.30	2.70	3.10	3.60

PU Insulation Thickness (mm)	40	50	60
Weight (kg/m)	1.65	1.80	2.15

** Calculation **Total Weight (kg/m)**: Inner Layer Thickness + Insulation Thickness + Outer Layer Thickness



40 mm

50 mm

60 mm

* All units are measured in mm

Product Specification

Profile	Ledex Premium® PU Wall Panel Plus
Effective Width	1070 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Zacs Natural, Prima Maju, Colorbond
Inner Layer Finishing	Zacs Natural, Prima Maju, Colorbond
Type of PU Foam	Polyurethane (PUR) / Polyisocyanurate (PIR)
PUR Insulation Density	40 - 45 kg/m ³
PIR Insulation Density	50 - 55 kg/m ³
PU Foam Thickness	40 mm, 50 mm, 60 mm
Standard Length	Minimum Length 1500 mm, Maximum Length 6000 mm
Surface Available	Liner Surface, Plane Surface & Micro Wave Surface
Tolerance	Length $\pm$ 2 mm, Width $\pm$ 5 mm, Metal Thickness $\pm$ 0.03 mm, PU Thickness $\pm$ 2 mm

Thickness Available

Inner /Outer Layer Thickness TCT (mm)	0.36	0.40	0.47	0.53
Weight (kg/m)	2.30	2.70	3.10	3.60

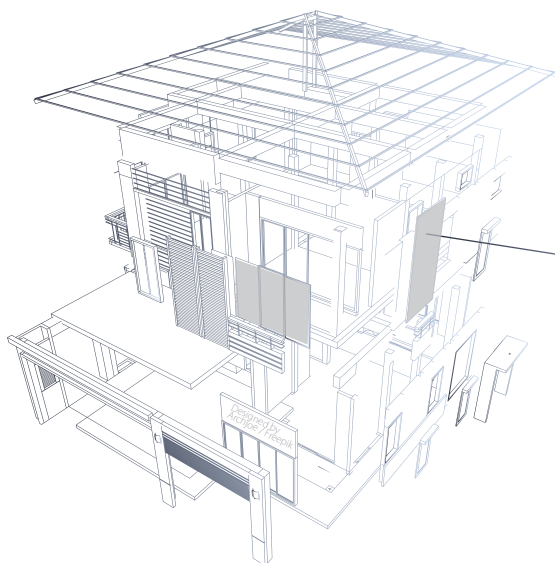
PU Insulation Thickness (mm)	40	50	60
Weight (kg/m)	2.00	2.60	3.10

** Calculation **Total Weight (kg/m)**: Inner Layer Thickness + Insulation Thickness + Outer Layer Thickness

Insulation Properties

Item	Specifications		
Type of Insulation	Polyurethane(PUR) / Polyisocyanurate(PIR)		
Foam Density	40 - 45 kg/m ³ / 50 - 55 kg/m ³		
Insulation Grade	Non CFC, Non HCFC		
K Value (Thermal Conductivity)	0.024 w/mk - 0.026 w/mk		
Thickness of Insulation	40 mm	50 mm	60 mm
U Value (Thermal Transmittance)	0.60 w/m ² k	0.48w/m ² k	0.40 w/m ² k
R Value (Thermal Resistance)	1.67 w/mk	2.08 w/mk	2.50 w/mk

Ledex Premium® Rockwool Panel Plus



Ledex Premium® Rockwool Panel Plus

BQ Specification

Ledex Premium® Rockwool Panel Plus 50 mm 0.40 mm TCT

Brand

Profile

Rockwool
Thickness

Material
Thickness

Details to be mentioned in BQ specification:

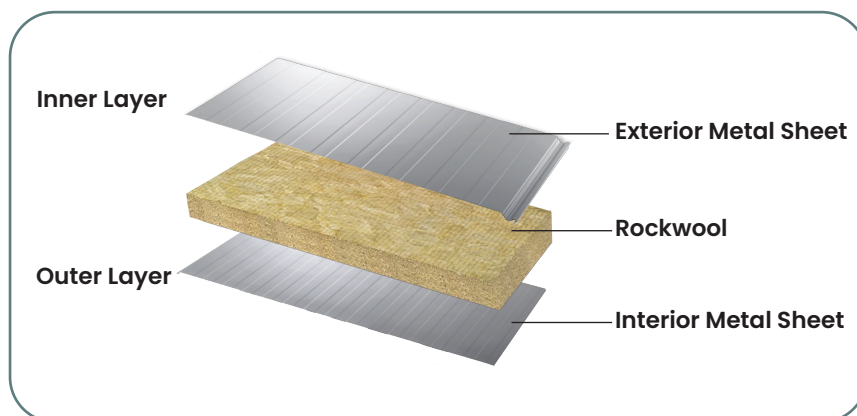
1. Brand
2. Profile
3. Thickness
4. Material
5. Coating
6. Colour
7. Warranty

Example

Design, fabricate and install "Ledex Premium® Rockwool Panel Plus 50 mm" 0.4 mm TCT In Bluescope Zacs Natural 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)

3 LAYERS OF ROCKWOOL PANEL



Thickness Available

Inner /Outer Layer Thickness TCT (mm)	0.40	0.47	0.53
Weight (kg/m)	2.70	3.10	3.60

Rockwool Insulation Thickness (mm)	50
Weight (kg/m)	5.00

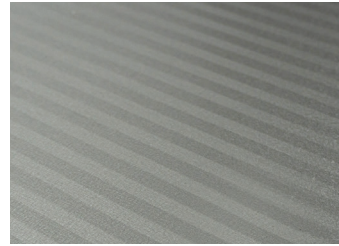
** Calculation **Total Weight (kg/m)**: Inner Layer Thickness + Insulation Thickness + Outer Layer Thickness



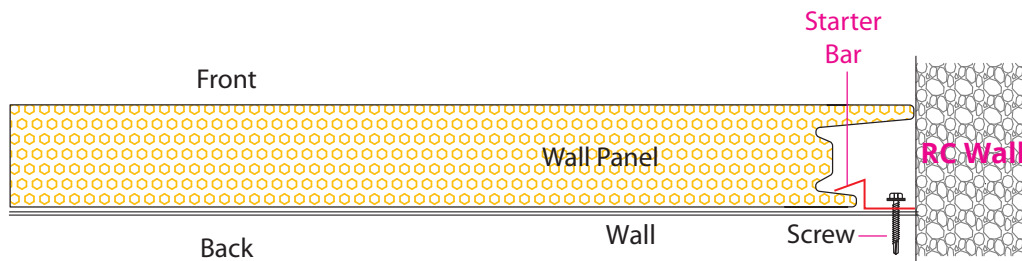
Profile	Ledex Premium® Rockwool Panel Plus
Effective Width	1070 mm
Steel Grade	Zincalume G300 Steel
Outer Layer Finishing	Prima Maju, Colorbond
Inner Layer Finishing	Prima Maju, Colorbond
Type of Insulation	Rockwool
Insulation Density	100 kg/m³
Insulation Thickness	50 mm
Standard Length	Minimum Length 1500 mm, Maximum Length 6000 mm
Surface Available	Liner Surface, Plane Surface & Micro Wave Surface
Tolerance	Length ± 2 mm, Width ± 5 mm, Metal Thickness ± 0.03 mm, Rockwool Thickness ± 2 mm

Item	Specifications
Type of Insulation	Rockwool
Rockwool Density	100 kg/m³
Insulation Grade	Non CFC, Non HCFC
K Value (Thermal Conductivity)	0.034 w/mk
Thickness of Insulation	50 mm
U Value (Thermal Transmittance)	0.680w/m²k
R Value (Thermal Resistance)	1.471 w/mk

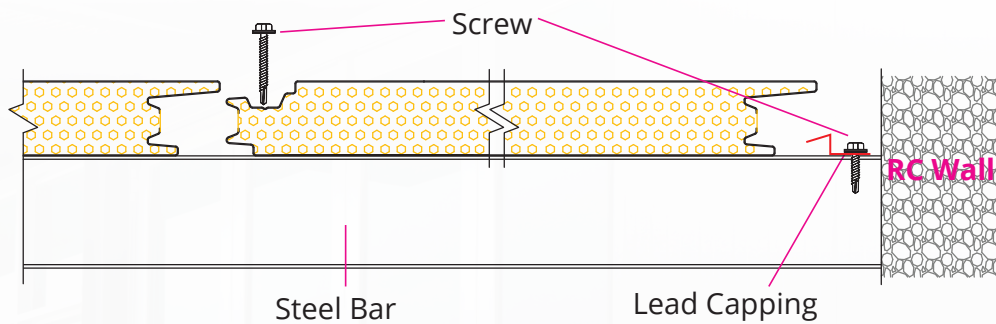
A square wave signal with three pulses. The signal is at a low level for most of the time, with three rectangular pulses of equal height and width. The pulses are separated by equal intervals of time.



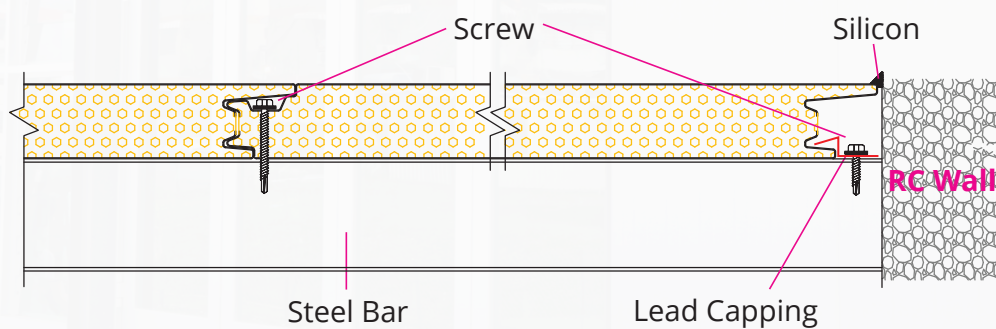
Step 1



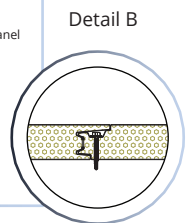
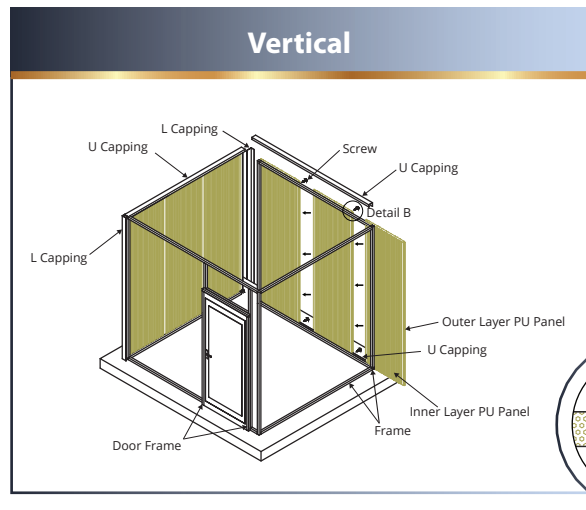
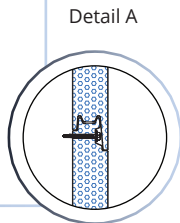
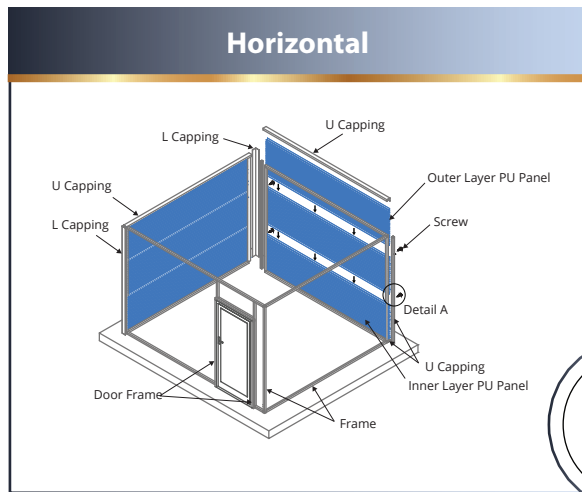
Step 2



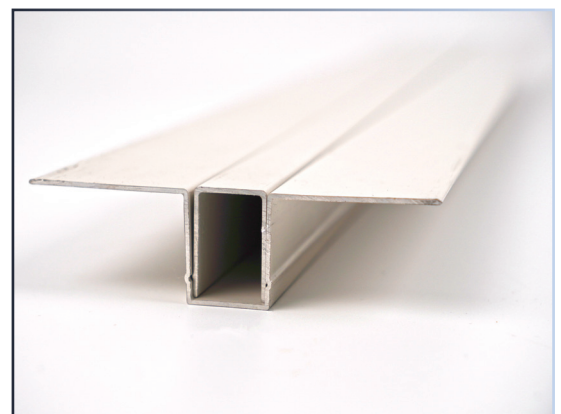
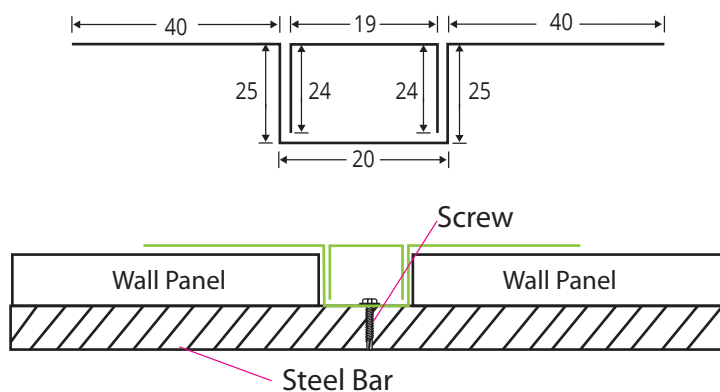
Step 3



Assembly Concept

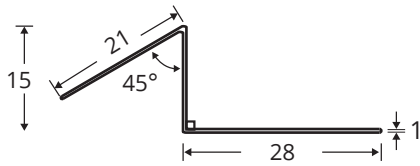


Aluminium Concealed Joint

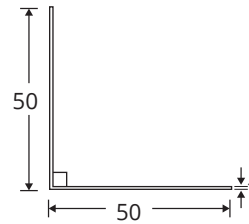


Accessories

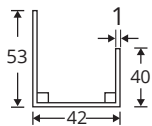
Starter Bar (Applicable for 40mm, 50mm, 60mm)



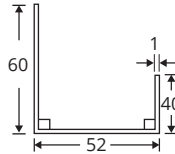
L- Capping (Applicable for 40mm, 50mm, 60mm)



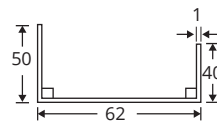
U Capping - WP 40



U Capping - WP 50



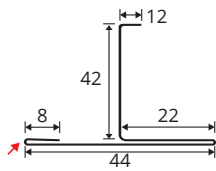
U Capping - WP 60



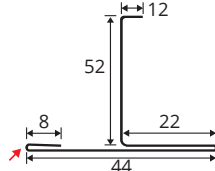
* All units are measured in mm

* All capping above are manufactured using G.I. material with a thickness of 1.0mm.

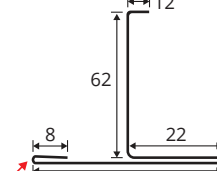
h-Joint Capping - WP 40



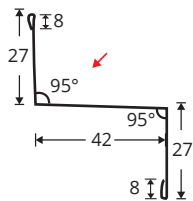
h-Joint Capping - WP 50



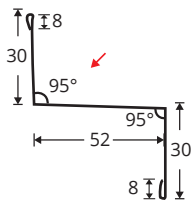
h-Joint Capping - WP 60



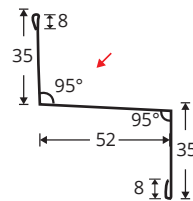
Z-Joint - WP 40



Z-Joint - WP 50



Z-Joint - WP 60



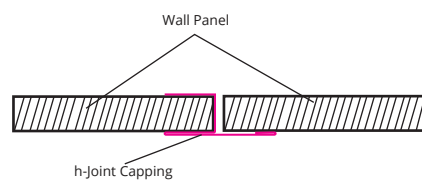
* All units are measured in mm

* Any special sizes will be customized on request

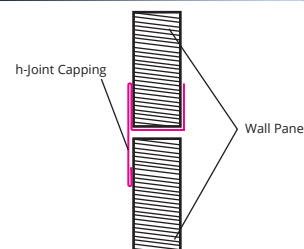
* Color Pointer →

Z-Joint Installation Concept

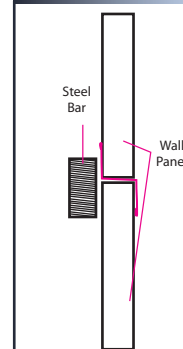
h- Joint Horizontal Installation

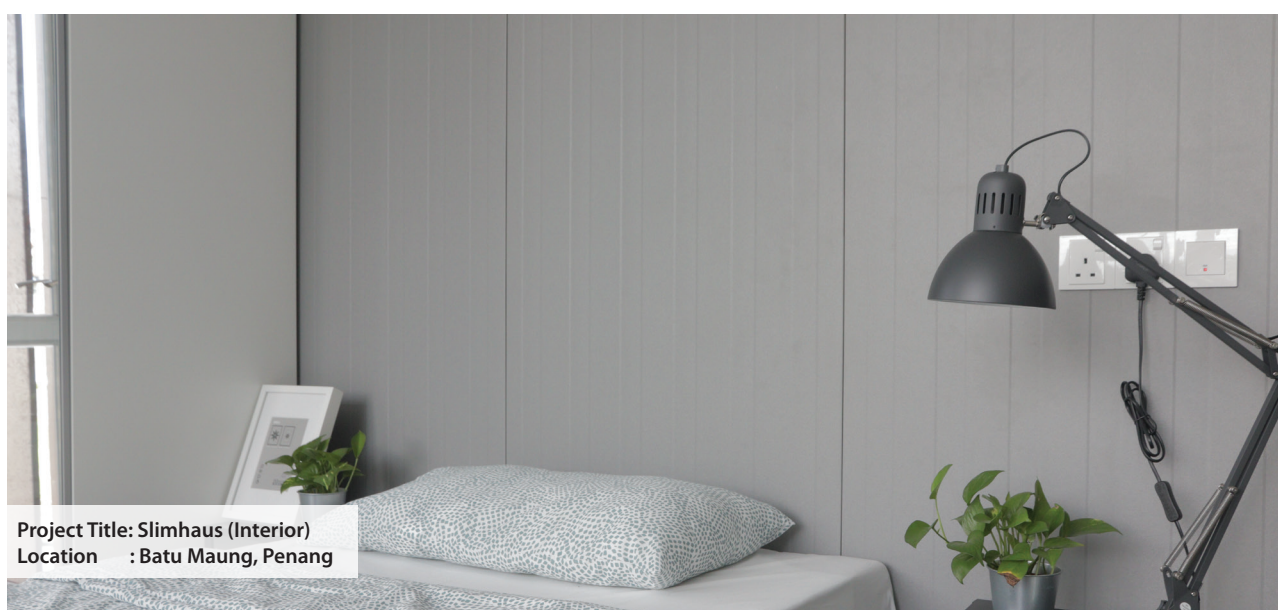


h- Joint Vertical Installation

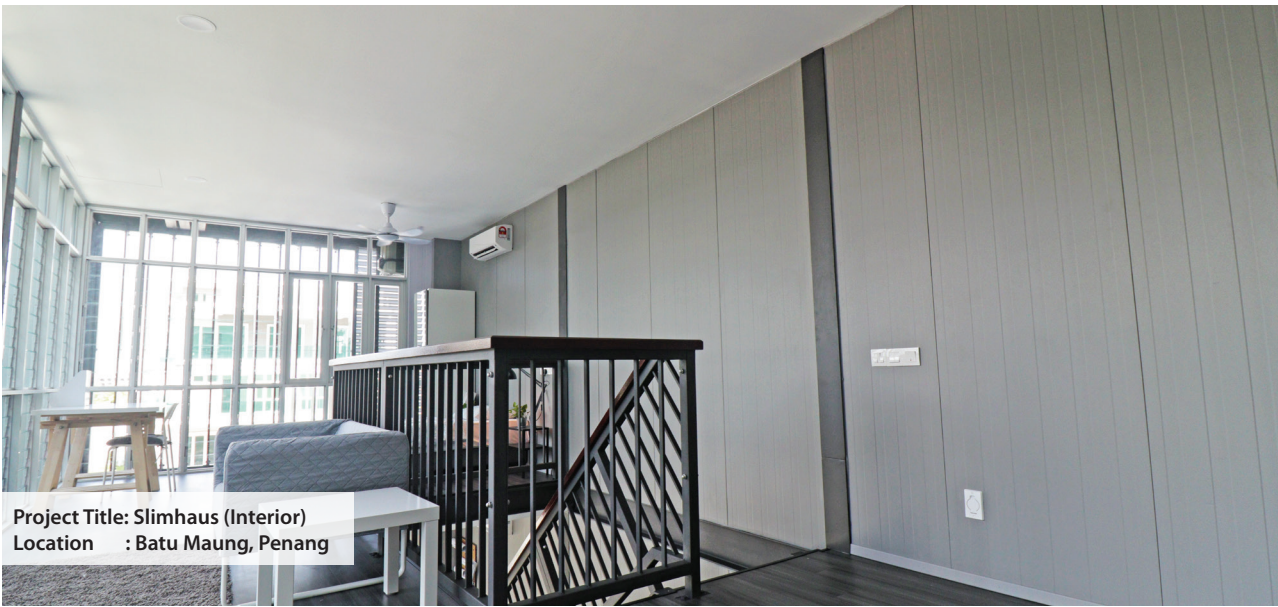


Z-Joint Installation





PROJECT REFERENCES





PRIMA[®]
M A J U



Most Popular



PRIMA MERAH



PRIMA MARAKAN



PRIMA BIRU



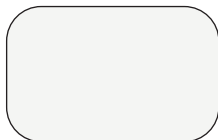
PRIMA HIJAU



PRIMA SILIKA



PRIMA COKLAT



PRIMA AWANA



PRIMA LADA



PRIMA MAGNET



PRIMA KASTURI



PRIMA EMBUN



PRIMA KEKABU

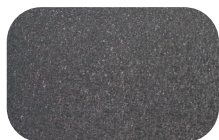


PRIMA BACKER

VERMOE[®]



THUNDER
GREY



DAZZLING
BLACK



ALLURING
BROWN

Elements[®]



CHERRY MABELLA
(WOOD GRAIN)



CHERRY PINE
(WOOD GRAIN)

Colorbond[®]
PETAL



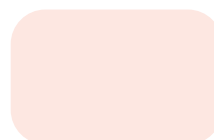
Ruby Hibiscus



Sahara Iris



Sky Brunnera



Rose Pink



Sunny Marigold

*Colors may vary in print due to differences in printing processes and materials. Please consider this chart as a reference guide only.

COLOR CHART



TRG
(SEMARAK)



DEEP MAROON
(MARAKAN)



MTR
(TANAH LIAT)



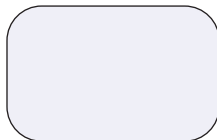
MEGA BLUE
(TELANG)



TORRES BLUE
(EMBUN)



PEARL GREY
(MENDING)



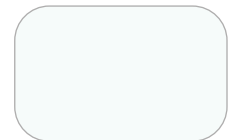
DOVE WHITE
(MERGAS)



LIGHT BEIGE
(LADA PUTIH)



DARK GREY
(KABUS)



CANDLE WHITE
(LILIN)



DARK BROWN
(SENI BALI)



YODO GREEN
(PANDAN)



PLUS GREEN
(KASTURI)



BACKER COLOR



YELLOW
(KUNING)



CLOUDY DAY



LAVAROCK



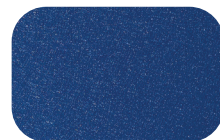
GREEN SUMMER



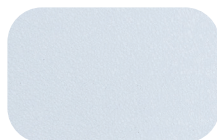
SMOKYROCK



SANDY SAHARA



HEAVENLY BLUE



COTTON MALLOW



SAPPHIRE



RED GARDEN



BLUE



GAVALUME



Zincalume®



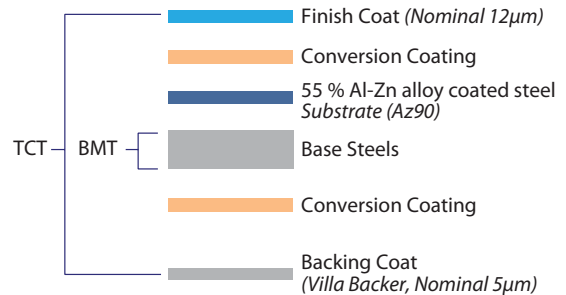
Zacs® AZ 90	
Thickness BMT (mm)	Thickness TCT (mm)
0.20	0.25
0.25	0.30
0.30	0.36
0.35	0.40
0.40	0.45

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 SPECIFICATION



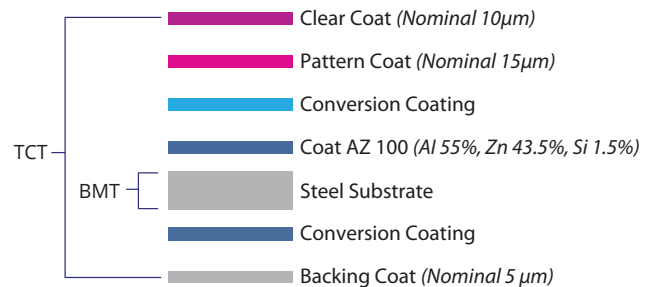
Elements®

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 SPECIFICATION



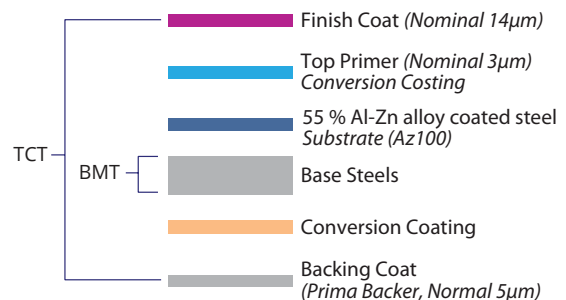
PrimaMaju® AZ 100	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 20 years.*

Warranty against color fading for up to 8 years.*

* Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATION





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 30 years.*

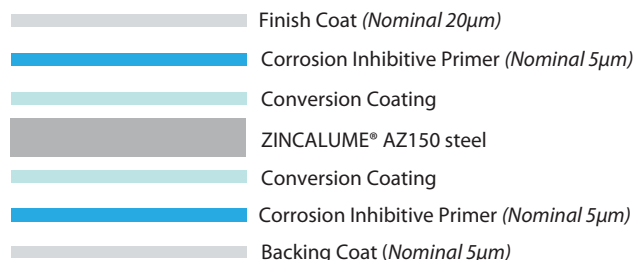
Warranty against color fading for up to 12 years.*

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

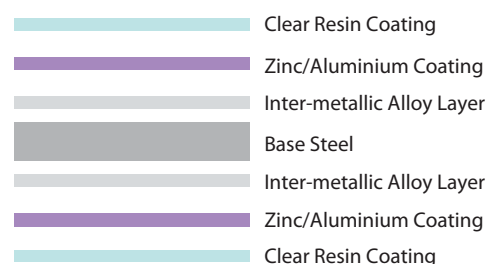


Zincalume® AZ 150	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

Warranty against perforation by corrosion for up to 25 years.*

*Warranty terms and conditions apply

STANDARD MATERIAL SPECIFICATION



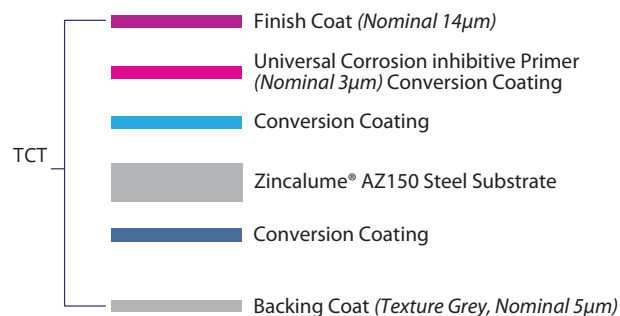
Vermoe® AZ 150	
Thickness BMT (mm)	Thickness TCT (mm)
0.35	0.40
0.42	0.47
0.48	0.53

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



LE NAM MEGASHEET (M) SDN BHD

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.

LE NAM MEGASHEET (PERAK) SDN BHD

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

LE NAM MEGASHEET (KL) SDN BHD

2, Jalan Titanium, 2, Presint 1,
Bandar Industri Bernilai Tinggi,
48200 Serendah,
Selangor



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