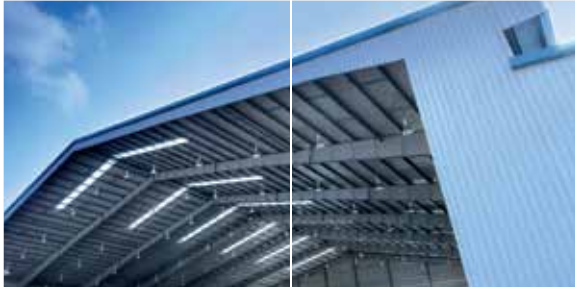


SPECIFICATION GUIDE



Structural Solutions



Roofing & Walling Solutions



House Framing Solutions



TABLE OF CONTENT

SPECIFICATION GUIDE 4

- a. Roofing and Walling Solutions
- b. Structural Decking System
- c. Structural Purlins
- d. Steel Framing System
- e. Pre-engineered Building System

PRODUCT PROPERTY TABLE 5 - 10

- a. Roofing and Walling Solutions
 - i. LYSAGHT® KLIP-LOK® OPTIMA™
 - ii. LYSAGHT® SPANDEK® OPTIMA™
 - iii. LYSAGHT® TRIMDEK® OPTIMA™
 - iv. LYSAGHT® CUSTOM ORB®
 - v. LYSAGHT® CUSTOM BLUE ORB®
 - vi. LYSAGHT® BORNEO TILE®
 - vii. LYSAGHT® STYLEDEK™ OPTIMA™
 - viii. LYSAGHT® MULTICLAD™ OPTIMA™
 - ix. LYSAGHT® HR-29™
 - x. LYSAGHT® PRESTIGE® PANEL II
 - xi. LYSAGHT® 360° SEAM® 25 or 38
 - xii. LYSAGHT® 360° SELECT SEAM® 25
 - xiii. LYSAGHT® ZIPDEK®
- b. Structural Decking System
 - i. LYSAGHT® BONDEK® II
 - ii. LYSAGHT® POWERDEK®
- c. Steel Framing System
 - i. LYSAGHT® SMARTRUSS®

TYPICAL DRAWINGS 11 - 18

- a. Roofing and Walling Solutions
- b. Structural Decking System
- c. Steel Framing System

BILL OF QUANTITY 19 - 21

- a. Roofing and Walling Solutions
- b. Structural Decking System
- c. Steel Framing System

METALLIC & PREPAINTED STEEL 22 - 23

PROJECT REFERENCE 24 - 26

BlueScope Lysaght is one of Asia's largest rollformers that is dedicated to manufacture, supply and installation of top quality and intensive processed steel building products with a legacy of more than 135 years worldwide and over 50 years in Asia.

The company comes under the umbrella of BlueScope Steel, one of the world's leading steel solutions providers with offices and operations in 17 countries and strength of more than 21,000 employees.

BlueScope Lysaght offers an extensive range of building solutions for roofing and walling, structural decking, rainwater goods, pre-engineered building systems and steel framing systems under its LYSAGHT® brand.

The LYSAGHT® brand is synonymous with producing high quality steel building components that are part of Asia's built environment. BlueScope Lysaght's portfolio, ranging from cutting-edge architecture, landmark projects, utility buildings for industrial, commercial and residential applications is a testament of its enduring reputation as a building solutions provider.

Products Backed by Research & Development in World-Class Laboratory

Behind every solution, lies a commitment of continuous research and development as well as innovation to ensure that LYSAGHT® products stay at the forefront of technology through stringent quality control and testing procedures.

With a LYSAGHT® solution, there is an assurance that they are stringently tested in BlueScope Lysaght Technology Centre, the company's world class National Association of Testing Authorities (NATA) registered laboratory.

LYSAGHT® products are manufactured under strict process governed by ISO9001:2000 Quality Management System and ISO14001 Environment Management System.

Solutions Based on Partnership

With decades of experience, BlueScope Lysaght possesses the competence and expertise to assist customers with the design and construction of projects.

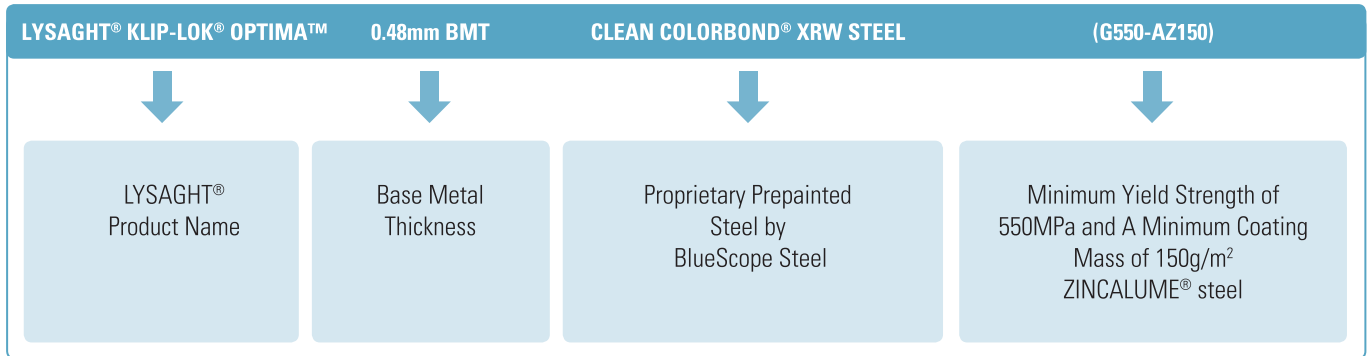
The company has an advantageous position of tapping on the resources from its network all over the region to tailor-fit or trouble shoot customers' building requirements.

With quality and services being the focus, BlueScope Lysaght will maintain its market leadership, giving confidence to its customers and partners in an increasingly competitive market.

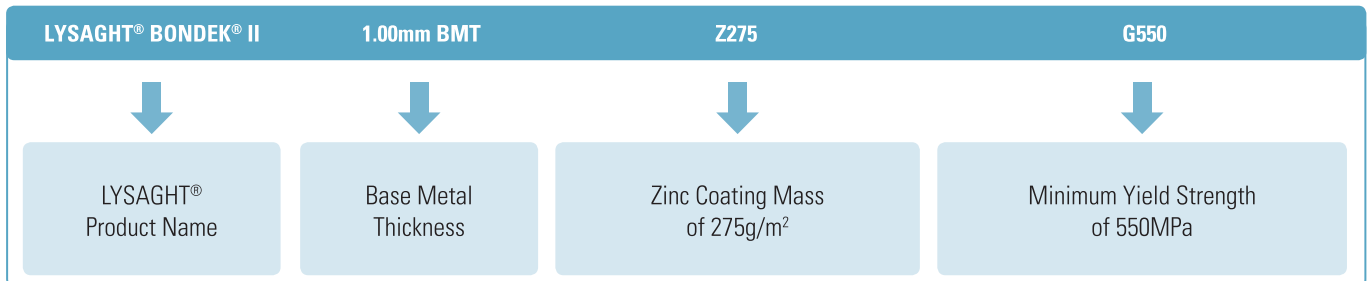


SPECIFICATION GUIDE

A. ROOFING AND WALLING SOLUTIONS*

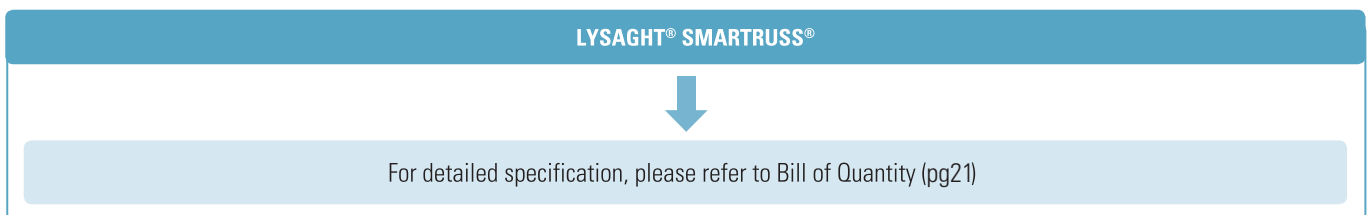


B. STRUCTURAL DECKING SYSTEM*



* Please note that these are specification example only. For more detailed specification, please refer to Bill of Quantity (pg19 - 20)

C. STEEL FRAMING SYSTEM



PRODUCT PROPERTY TABLE

A. ROOFING AND WALLING SOLUTIONS

1. LYSAGHT® KLIP-LOK® OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Supports						Max Roof Overhang Unstiffened	Max Roof Overhang Stiffened With Angle & Gutter
							Roof			Wall				
							Single Span	End Span	Internal Span	Single Span	End Span	Internal Span		
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm
G550	0.42	0.47	4.39	980	43	2° (1 in 30)	850	900	1450	1550	1550	2700	150	450
G550	0.48	0.53	4.98	980	43	2° (1 in 30)	1000	1200	2200	2000	2300	3600	200	500
G550	0.60	0.65	6.15	980	43	2° (1 in 30)	1500	1500	3000	2500	2700	3600	250	550

2. LYSAGHT® SPANDEK® OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Supports						Max Roof Overhang Unstiffened	Max Roof Overhang Stiffened with Angle & Gutter
							Roof			Wall				
							Single Span	End Span	Internal Span	Single Span	End Span	Internal Span		
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm
G550	0.42	0.47	4.60	935	24	3°(1 in 20)	1500	2100	2300	2200	3100	3300	200	450
G550	0.48	0.53	5.21	935	24	3°(1 in 20)	2200	2400	3300	2300	3200	3300	250	500

3. LYSAGHT® TRIMDEK® OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Supports						Max Roof Overhang Unstiffened	Max Roof Overhang Stiffened with Angle & Gutter
							Roof			Wall				
							Single Span	End Span	Internal Span	Single Span	End Span	Internal Span		
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm
G550	0.42	0.47	4.24	1015	28.5	3°(1 in 20)	1200	1900	2500	2200	2500	3300	150	250
G550	0.48	0.53	4.80	1015	28.5	3°(1 in 20)	1600	2100	3000	2300	2700	3300	150	250

4. LYSAGHT® CUSTOM ORB®



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Supports													
							Roof						Wall							
							Single Span	End Span	Internal Span	Overhang		Sprung Curved	Single Span	End Span	Internal Span	Overhang				
										Unstiffened	Stiffened									
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
G550	0.42	0.47	4.29	762	16	5°(1 in 12)	700	900	1200	200	300	800	1800	2500	2700	200				
G550	0.48	0.53	4.87	762	16	5°(1 in 12)	800	1300	1700	250	350	800	1800	2700	2700	250				

5. LYSAGHT® CUSTOM BLUE ORB®



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Supports													
							Roof						Wall							
							Single Span	End Span	Internal Span	Overhang		Sprung Curved	Single Span	End Span	Internal Span	Overhang				
										Unstiffened	Stiffened									
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
G300	0.48	0.53	4.87	762	17	5°(1 in 12)	700	900	1200	200	300	800	1800	2500	2700	200				
G300	0.60	0.65	6.09	762	17	5°(1 in 12)	1600	1600	1800	200	300	800	2400	3000	3300	250				

PRODUCT PROPERTY TABLE

A. ROOFING AND WALLING SOLUTIONS

6. LYSAGHT® BORNEO TILE®



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Step Height	Modular Length	Min Recommended Roof Pitch	Maximum Allowable Support Spacing
MPa	mm	mm	kg/m ²	mm	mm	mm		mm
G300	0.42	0.47	5.04	420	16	380	18°	380

7. LYSAGHT® STYLEDEK® OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Step Height	Min Recommended Roof Pitch	Maximum Allowable Support Spacing		Tolerances	
								Internal Span	End Span	Length	Width
MPa	mm	mm	kg/m ²	mm	mm	mm		mm	mm	mm	mm
G300	0.42	0.47	4.15	1050	35	15	15°	600	300	+0/-15	+10/-0

8. LYSAGHT® MULTICLAD® OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Maximum recommended Spacing of supports			Max Roof Overhang Unstiffened	Max Roof Overhang Stiffened With Angle & Gutter
						Walls				
						Single Span	End Span	Internal Span		
MPa	mm	mm	kg/m ²	mm	mm	mm	mm	mm	mm	
G550	0.42	0.47	3.87	1110	12	1200	1600	1800	300	600

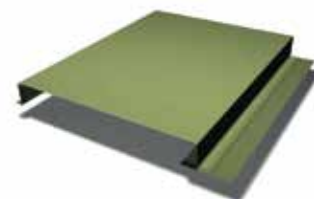
9. LYSAGHT® HR-29™ OPTIMA™



Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Minimum Recommended Roof Pitch
MPa	mm	mm	kg/m ²	mm	mm	
G550	0.42	0.47	4.43	970	38	2°
G550	0.60	0.65	6.21	970	38	2°
G550	0.75	0.80	7.69	970	38	2°

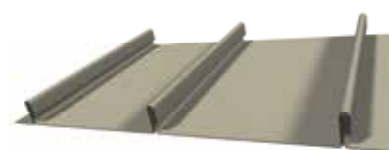
PRODUCT PROPERTY TABLE

A. ROOFING AND WALLING SOLUTIONS



10. LYSAGHT® PRESTIGE® PANEL II

Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Panel	Maximum Recommended Clip Spacing
						1.0m
MPa	mm	mm	kg/m ²	mm	mm	mm
G300	0.55	0.60	6.74	300	25	1000



11. LYSAGHT® 360° SEAM® 25 or 38

Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Height of Seam	Minimum Recommended Radius		Maximum Recommended Clip Spacing
						Sheet Profile		
						Pre-curve	Sprung curve	
MPa	mm	mm	kg/m ²	mm	mm	mm	mm	mm
G300	0.55	0.60	5.21	521	25	1500	30,000	600
G300	0.55	0.60	5.48	495	38	1500	30,000	-

Recommended clip spacing at 600mm c/c



12. LYSAGHT® 360° SELECT SEAM® 25

Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Height of Seam	Minimum Recommended Roof Pitch
MPa	mm	mm	kg/m ²	mm	mm	
G300	0.55	0.60	5.25	517	25	7.5°



13. LYSAGHT® ZIPDEK®

Steel Grade	Base Metal Thickness	Total Coated Thickness	Mass	Width of Coverage	Depth of Rib	Min Recommended Roof Pitch	Maximum Recommended Spacing of Support			
							Roof		Wall	
							End Span	Internal Span	End Span	Internal Span
MPa	mm	mm	kg/m ²	mm	mm		mm	mm	mm	mm
G300	0.55	0.60	6.51	400	65	1°(1 in 50)	1800	2050	2050	2500

PRODUCT PROPERTY TABLE

B. STRUCTURAL DECKING SYSTEM

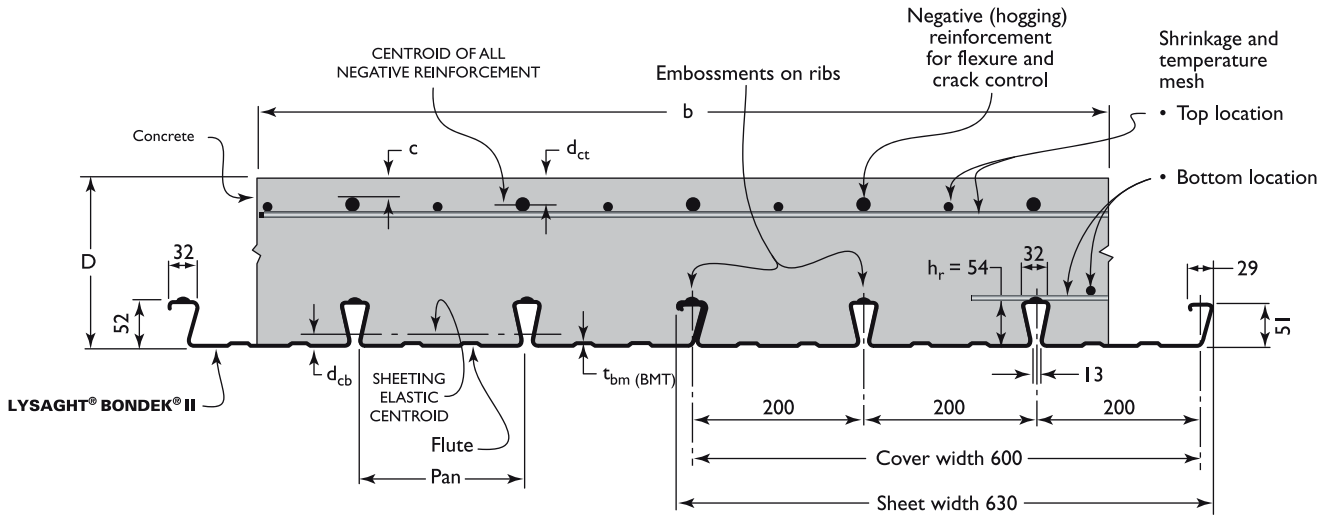
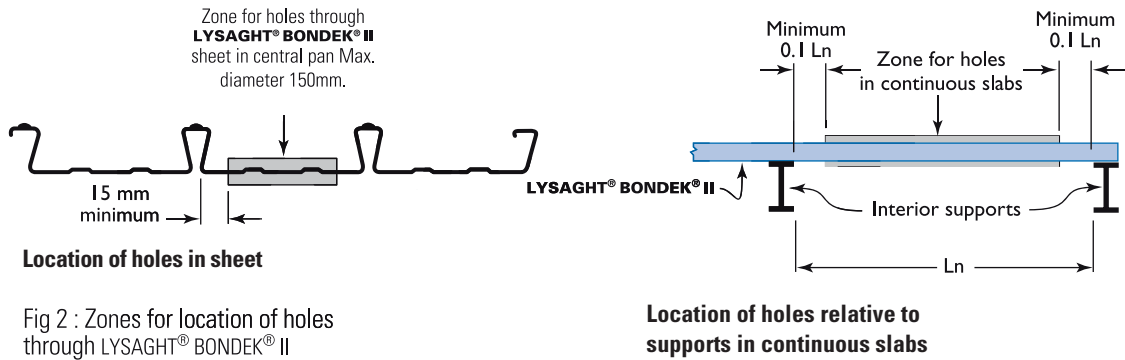


Fig 1 : Typical cross section of a slab showing common terms.



Location of holes in sheet

Location of holes relative to supports in continuous slabs

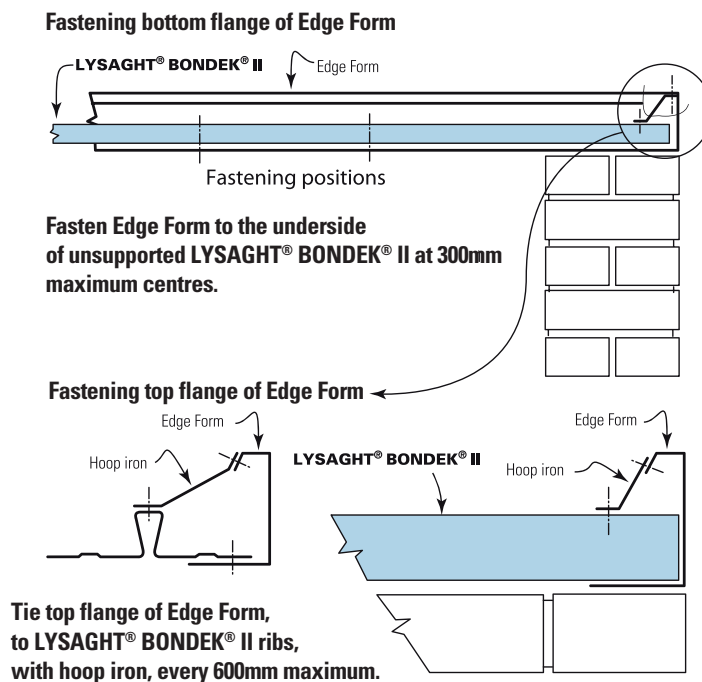


Fig 3 : Typical fastening of EDGE FORM to LYSAGHT® BONDEK® II

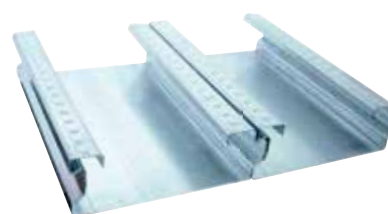
PRODUCT PROPERTY TABLE

B. STRUCTURAL DECKING SYSTEM



i. LYSAGHT® BONDEK® II

Product	LYSAGHT® BONDEK® II structural formwork & composite slab dovetail re-entrant profile produce from cold rolled galvanised steel
Nominal Thickness	0.75mm or 1.00mm BMT (Base Metal Thickness)
Rib Height	51mm
Nominal Weight	10.3kg/m ² for 0.75mm & 13.6kg/m ² for 1.00mm
Nominal Cover Width	600mm
Steel Grade	G550 MPa conforms to BS EN 10147 & AS 1397
Coating Class	Z275 - Zinc coating 275g/m ² coating mass
Basic Construction Load	1.5kPa
Minimum Slab Thickness	110mm
Maximum Production Length	11.8m (for Export)



ii. LYSAGHT® POWERDEK®

Product	LYSAGHT® POWERDEK® structural formwork & composite slab produce from cold rolled galvanised steel with embossments on the top of flanges to provide mechanical connection between the steel and concrete
Nominal Thickness	1.5mm BMT - G450 1.2mm BMT - G500 1.0mm BMT - G550
Rib Height	100mm for 1.0mm, 1.2mm & 1.5mm 120mm for 1.2mm & 1.5mm
Nominal Weight	Rib Height 100mm 1.0mm - 19.03kg/m ² Rib Height 100mm 1.2mm - 22.62kg/m ² Rib Height 100mm 1.5mm - 28.00kg/m ² Rib Height 120mm 1.2mm - 24.20kg/m ² Rib Height 120mm 1.2mm - 29.60kg/m ²
Nominal Cover Width	300mm
Steel Grade	450MPa - 550MPa conforms to BS EN 10147 & AS1397
Coating Class	Z275 - Zinc coating 275g/m ² coating mass
Basic Construction Load	1.5kPa
Minimum Slab Thickness	150mm
Maximum Production Length	11.8m (for Export)

PRODUCT PROPERTY TABLE

C. STEEL FRAMING SYSTEM

i. LYSAGHT® SMARTRUSS®

GENERAL TECHNICAL SPECIFICATIONS

METAL ROOFING		
Webs & Chords	C-Channel Sections Height : 100mm and 75mm	
Design Standard	Australian Standard AS4600 and prevailing wind loads of the region	
Load Design (CP3)		
	<ul style="list-style-type: none"> Live load on roof Metal Roof (inclusive truss self-wt) Ceiling Board + Timber Joist/Batten General Wind Speed* 	0.25kPa 0.22KN/m ² 0.13KN/m ² 34m/sec
Structure Design (AS4600)		
	<ul style="list-style-type: none"> Truss deflection (permanent loads only) Batten deflection 	Span/250 Span/150
Roof Battens	LYSAGHT® TOPSPAN®	Manufactured from same material as web and chord.
Base Steel Standard	Australian Standard AS 1397 - 2001	Min 550MPa for steel < 1mm Min 450MPa for steel > 1mm
Sections < 1mm thick	Protective metallic alloy coating Zinc (43.5%), aluminium (55%) and silicon (1.5%) applied by galvanising hot dip process.	Coating thickness on both sides 0.05mm (total) as in AS 1397 - 2001 for coating class AZ150.
Sections > 1mm thick	Protective metallic coating of zinc applied by hot dip process.	Coating thickness on both sides 0.05mm (total) as in AS 1397 - 2001 for coating class Z275.
Fasteners	Comply with AS 3566 Class 2	All anchor bolts and connecting plates shall be either galvanised or manufactured from the same material as the trusses.
Batten Spacing	Metal roof, batten spacing of 1200mm shall be assumed.	

CONCRETE ROOF TILES		
Webs & Chords	C-Channel Sections Height : 75mm and 100mm	
Design Standard	Australian Standard AS4600 and prevailing wind loads of the region	
Load Design (CP3)		
	<ul style="list-style-type: none"> Live load on roof Roof Tile load (inclusive truss self-wt) Ceiling Board + Timber Joist/Batten General Wind Speed* 	0.25kPa 0.70KN/m ² 0.13KN/m ² 34m/sec
Structure Design (AS4600)		
	<ul style="list-style-type: none"> Truss deflection (permanent loads only) Batten deflection 	Span/250 Span/150
Roof Battens	LYSAGHT® TOPSPAN®	Manufactured from same material as web and chord.
Base Steel Standard	Australian Standard AS 1397 - 2001	Min 550MPa for steel < 1mm Min 450MPa for steel > 1mm
Sections < 1mm thick	Protective metallic alloy coating Zinc (43.5%), aluminium (55%) and silicon (1.5%) applied by galvanising hot dip process.	Coating thickness on both sides 0.05mm (total) as in AS 1397 - 2001 for coating class AZ150.
Sections > 1mm thick	Protective metallic coating of zinc applied by galvanising hot dip process.	Coating thickness on both sides 0.05mm (total) as in AS 1397 - 2001 for coating class Z275.
Fasteners	Comply with AS 3566 Class 2	All anchor bolts and connecting plates shall be either galvanised or manufactured from the same material as the trusses.
Batten Spacing	Concrete tiles, batten spacing of 330mm shall be assumed.	

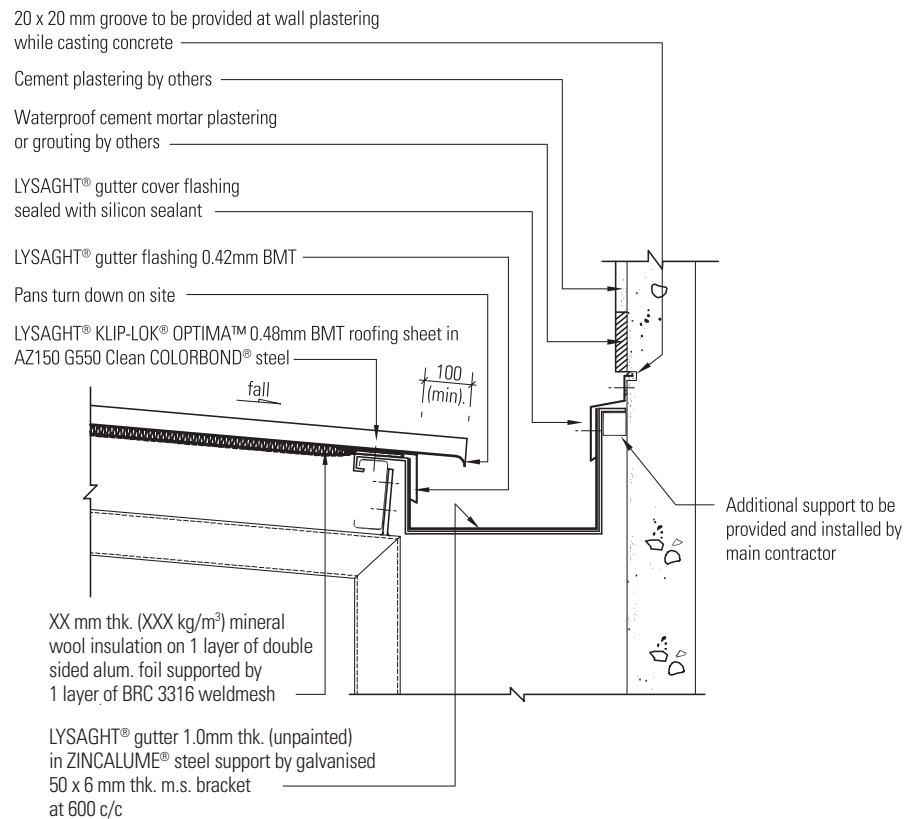
This is a general technical specification and may vary in accordance to roof design, and design requirements and variations. Please contact BlueScope Lysaght for reference.

* Design for General Wind Speed can be customised to specific project requirements.

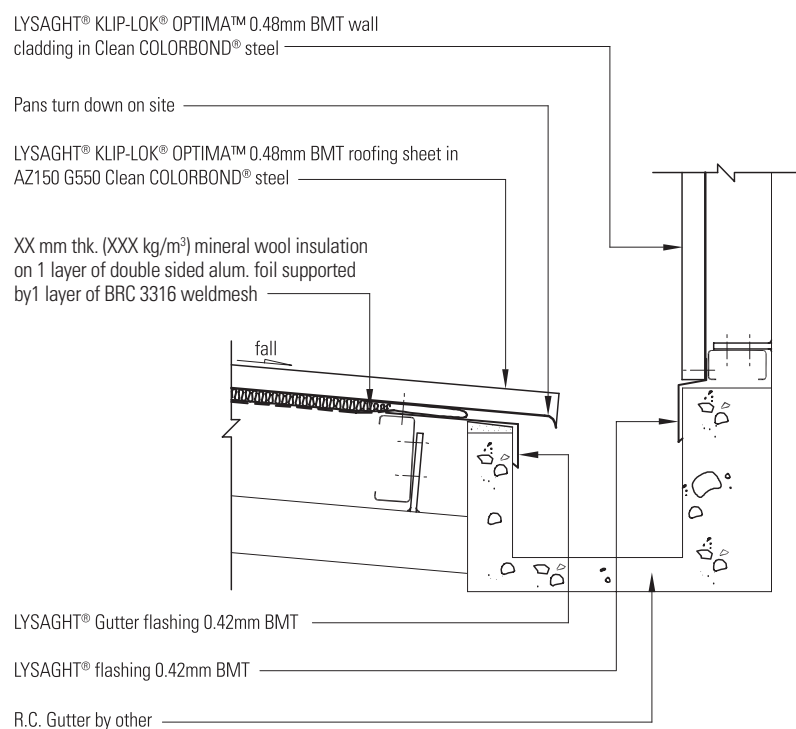
TYPICAL DRAWINGS

A. ROOFING AND WALLING SOLUTIONS

Typical Gutter Detail 1



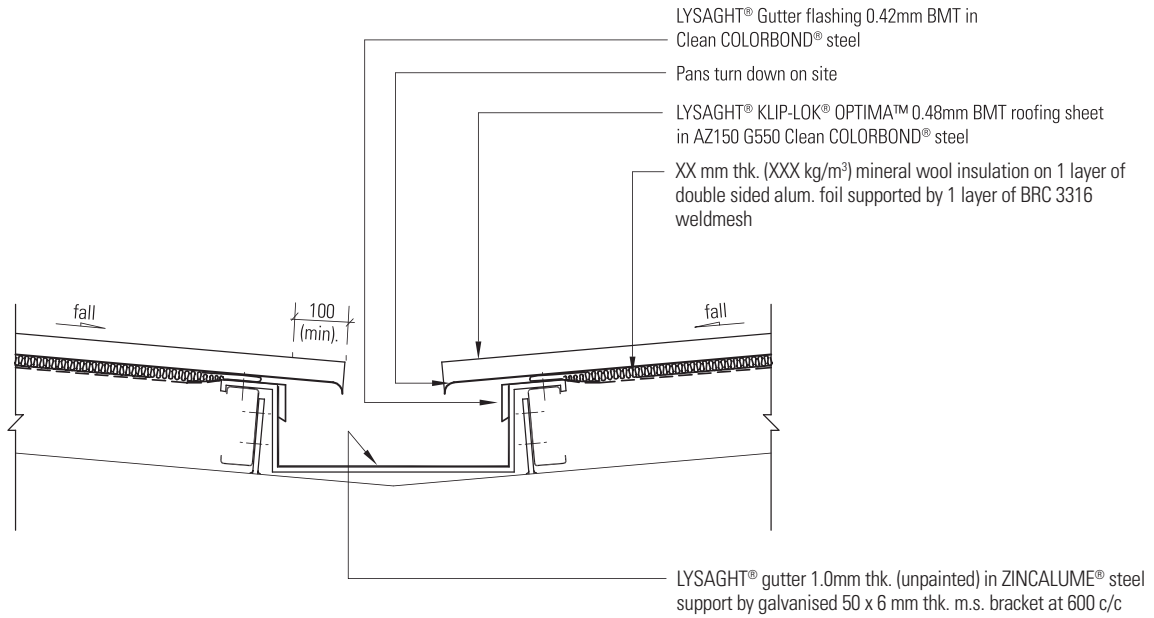
Typical Gutter Detail 2



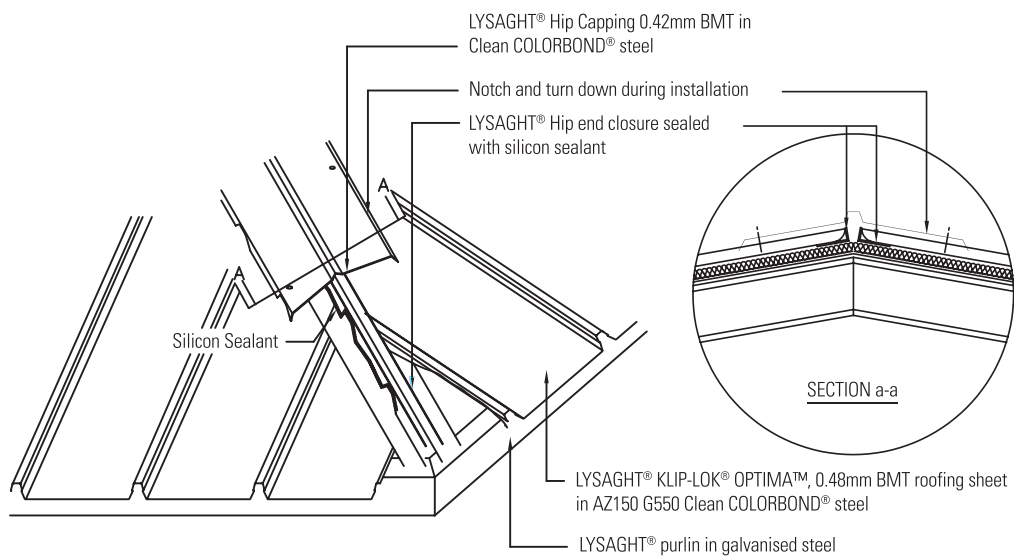
TYPICAL DRAWINGS

A. ROOFING AND WALLING SOLUTIONS

Typical Valley Gutter Detail



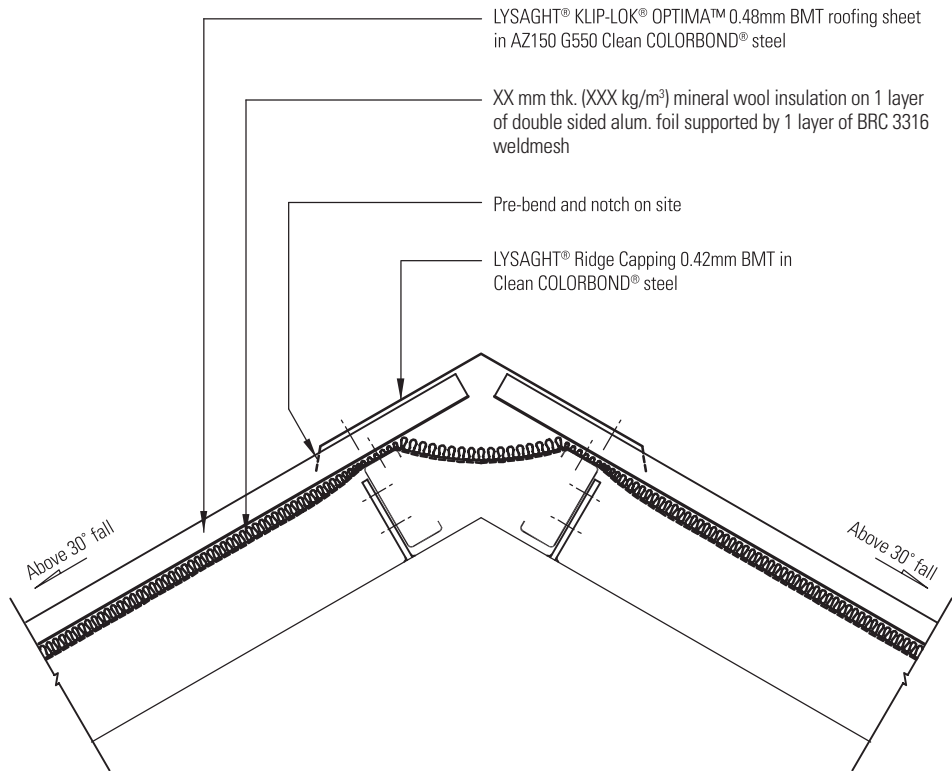
Typical Hip Capping Detail



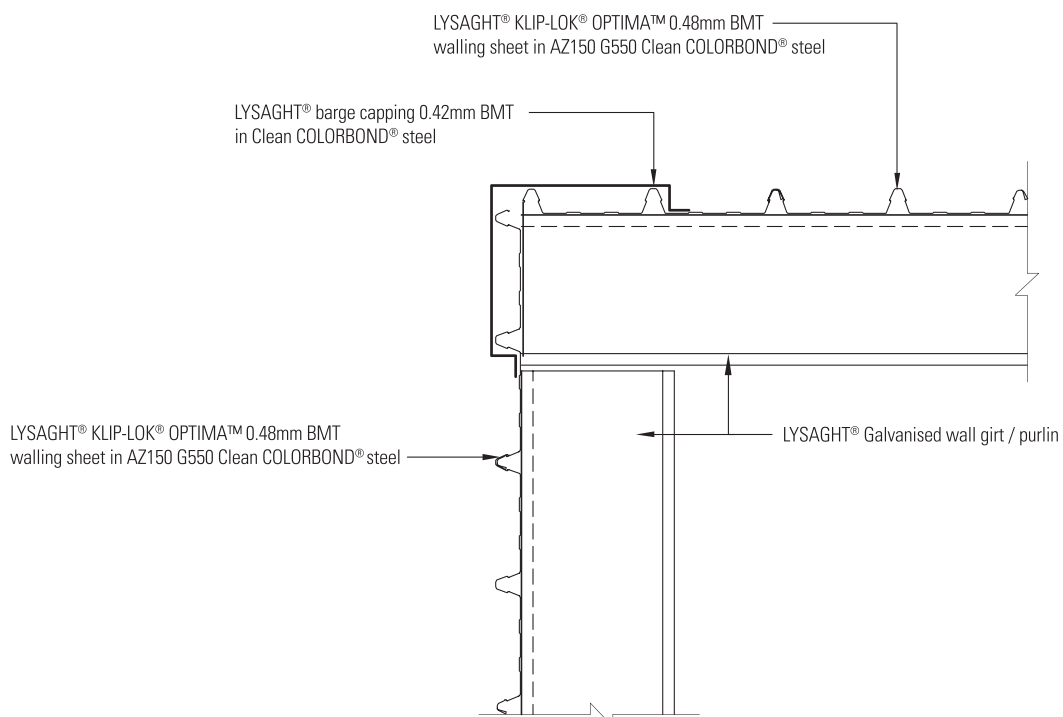
TYPICAL DRAWINGS

A. ROOFING AND WALLING SOLUTIONS

Typical Ridge Capping Detail



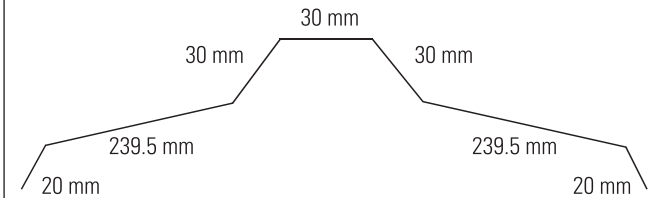
Typical Corner Capping Detail



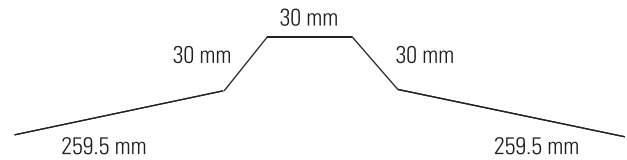
TYPICAL DRAWINGS

A. ROOFING AND WALLING SOLUTIONS

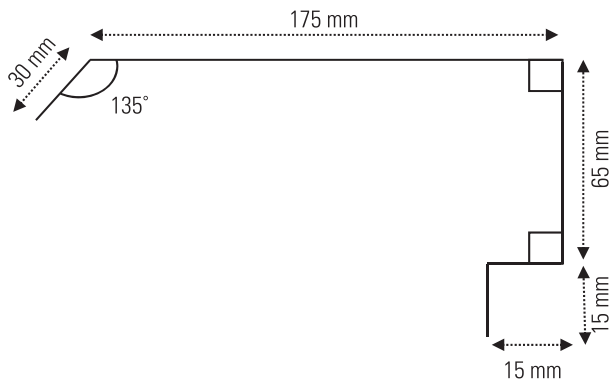
Type 1 Ridge Capping



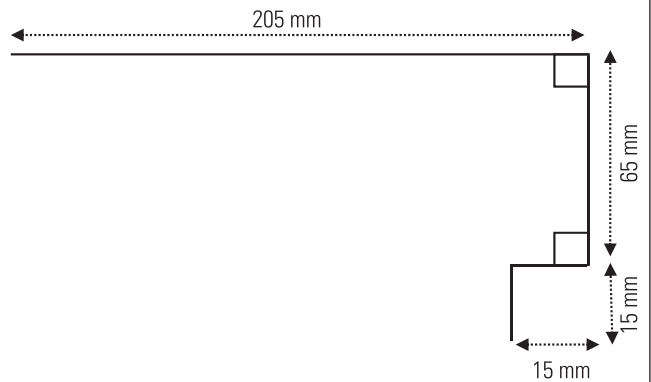
Type 2 Ridge Capping



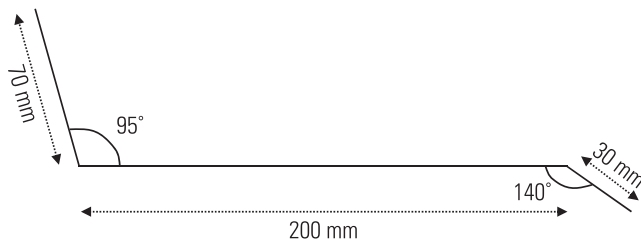
Type 3 Longitudinal Fascia Capping



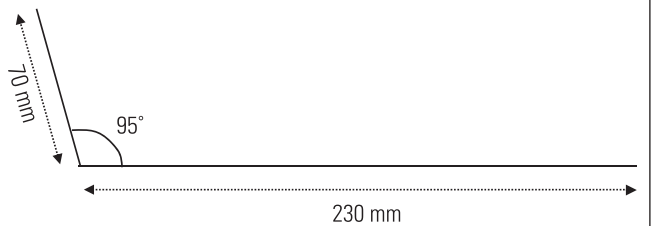
Type 4 Transverse Fascia Capping



Type 5 Longitudinal Parapet Flashing



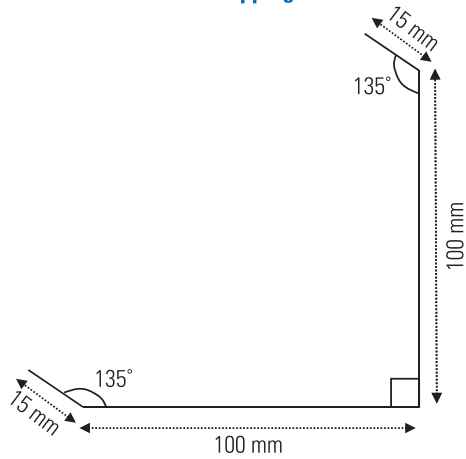
Type 6 Transverse Parapet Flashing



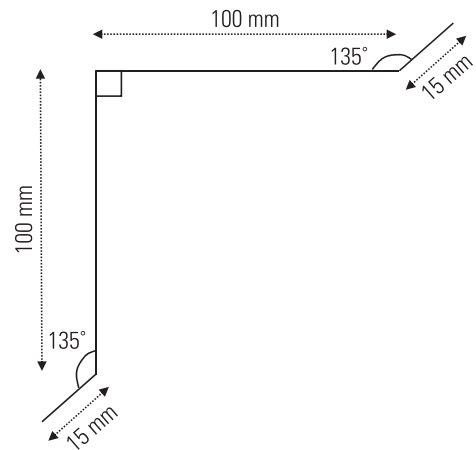
TYPICAL DRAWINGS

A. ROOFING AND WALLING SOLUTIONS

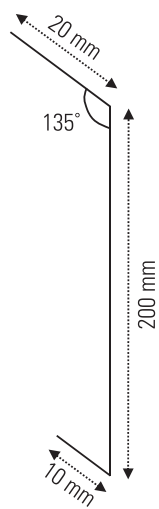
Type 7 External Mitre Corner Capping



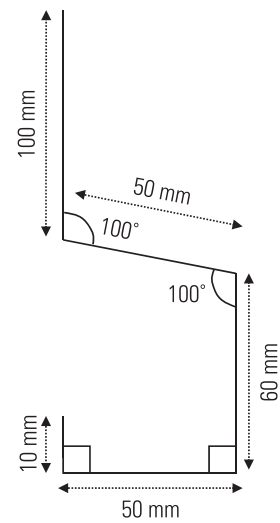
Type 8 Internal Mitre Corner Capping



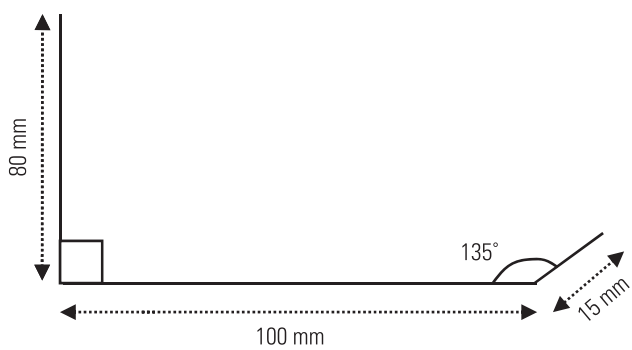
Type 9 Parapet Flashing (Top Piece)



Type 10 Soffit Trim Flashing



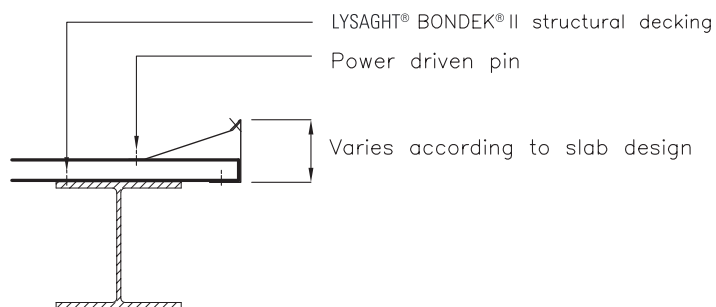
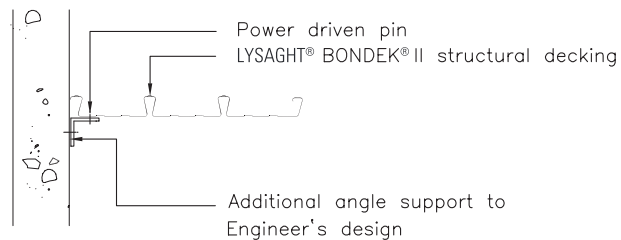
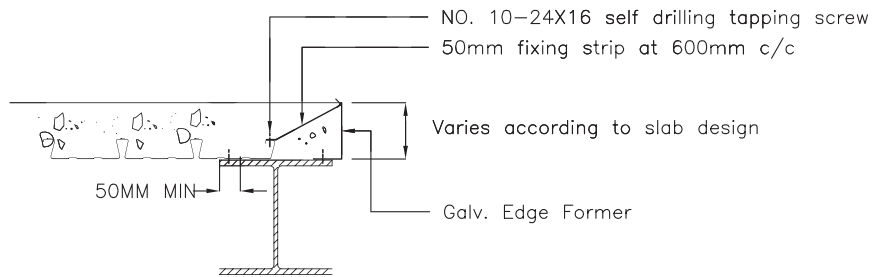
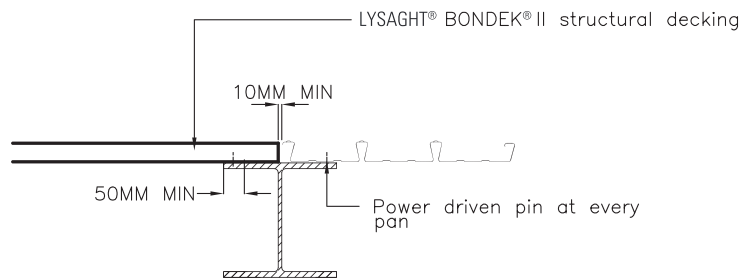
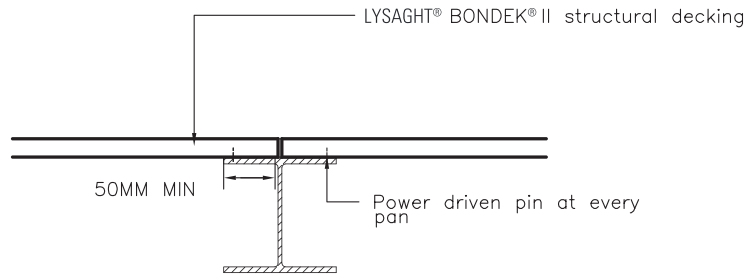
Type 11 Door or Window Jamb



TYPICAL DRAWINGS

B. STRUCTURAL DECKING SYSTEM

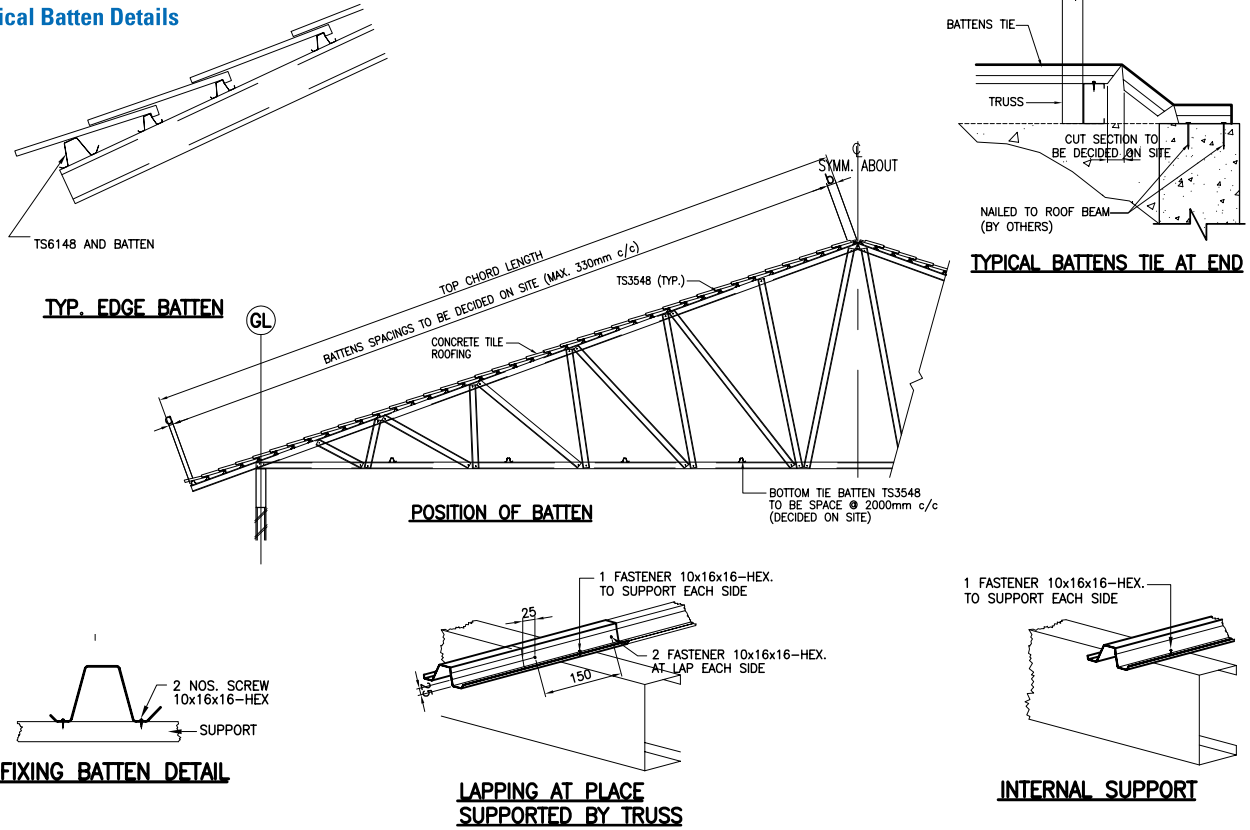
Typical Detail



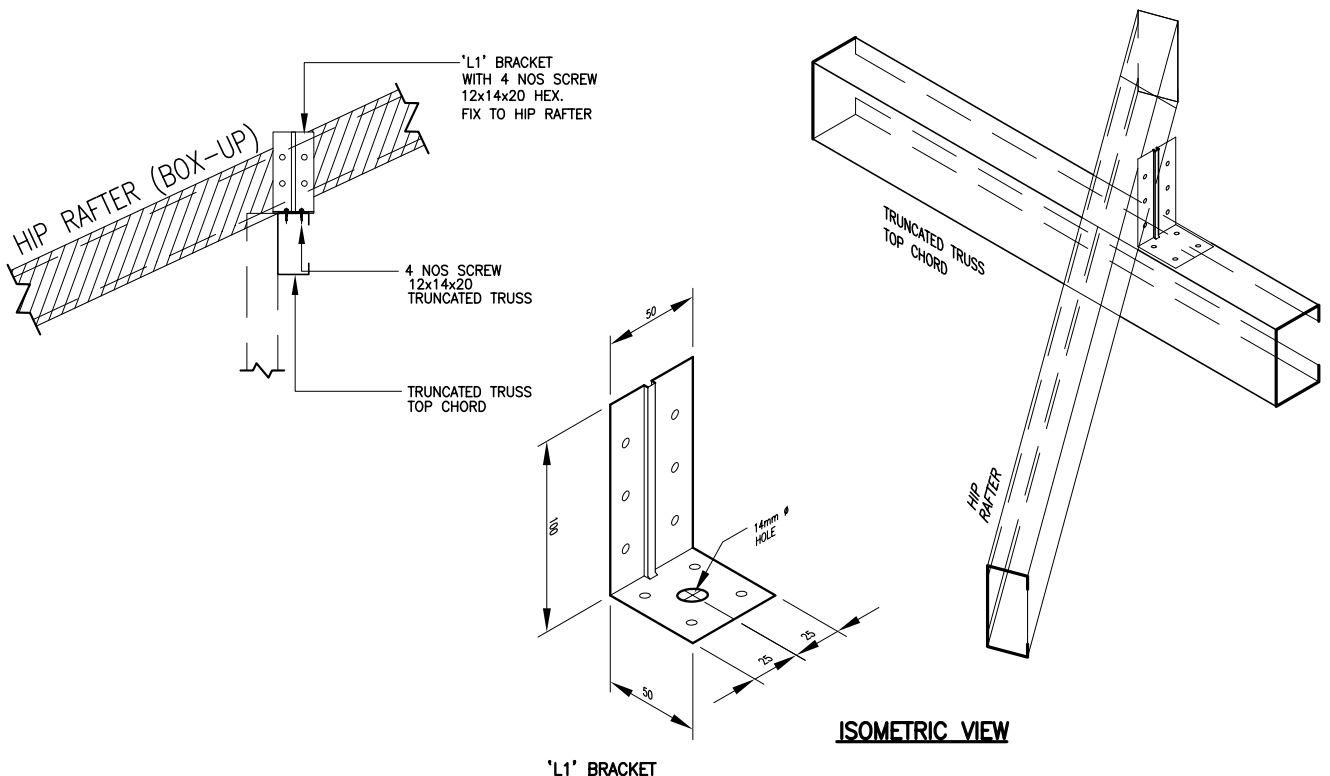
TYPICAL DRAWINGS

C. STEEL FRAMING SYSTEM

Typical Batten Details



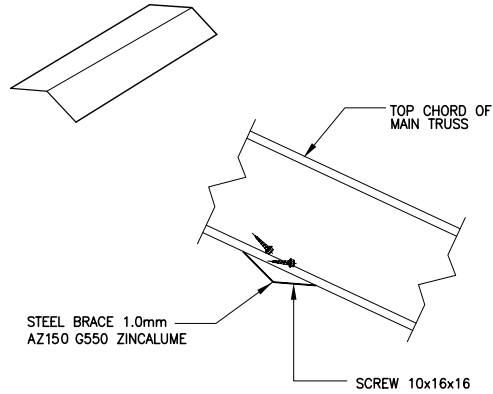
Typical Connection Details of Hip Rafter on Truncated Truss



TYPICAL DRAWINGS

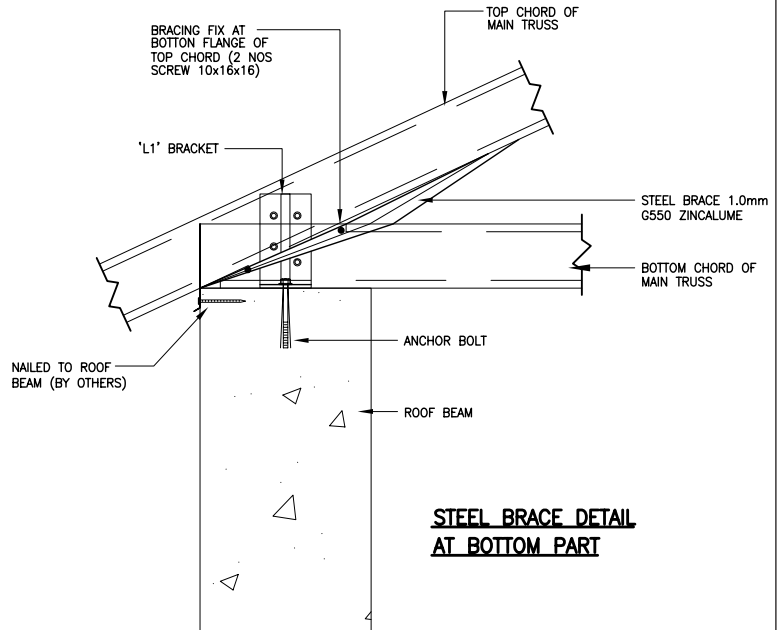
C. STEEL FRAMING SYSTEM

Typical Bracing Details



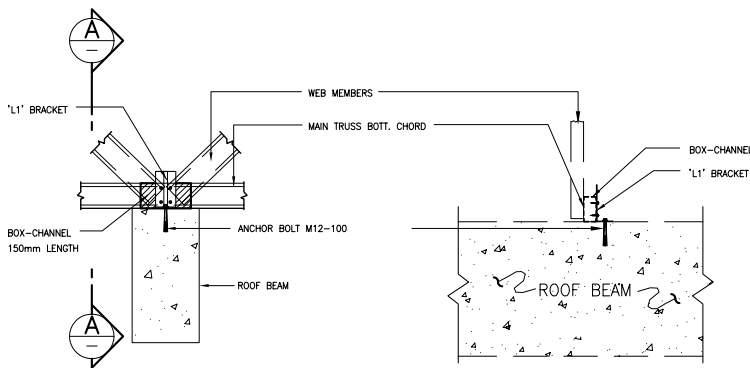
STEEL BRACE DETAIL

STEELBRACE is a tension bracing system for the bracing of truss roofs (BRACING TO BE FIX AT SOFFIT OF TOP CHORD OF TRUSS)

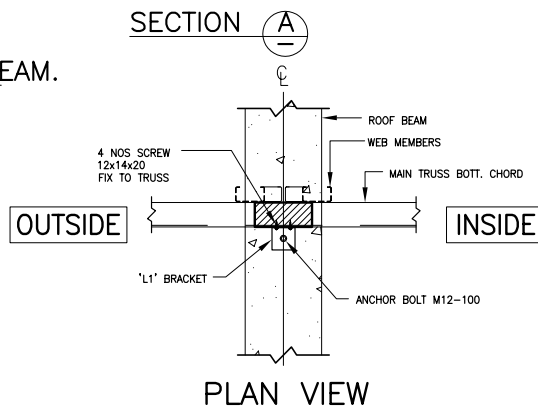


STEEL BRACE DETAIL AT BOTTOM PART

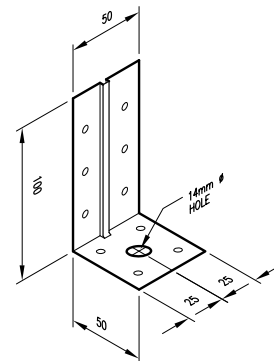
Typical Truss Connection Details on Roof Beam (Intermediate Support)



TYPICAL DETAILS OF WALL PLATE ON TOP OF ROOF BEAM.



PLAN VIEW



'L1' BRACKET

BILL OF QUANTITY

A. ROOFING AND WALLING SOLUTIONS

Item	Description	Qty.	Unit	Rate	Amount
A	ROOF COVERING				
	Supply and Install LYSAGHT® Steel Roofing				
1	Supply and install LYSAGHT® KLIP-LOK® OPTIMA™ 0.48mm BMT (Base Metal Thickness) roofing sheet in AZ150 G550 Clean COLORBOND® steel. Total Coated Thickness (TCT) = 0.53mm, cover width = 980mm; rib height = 43mm. Mass per unit area kg/m ² = 4.98kg/m ² Steel Grade = G550 (550 N/mm ² Yield Strength) Coating Grade = AZ150 (150g/m ² minimum)		m ²		
OR					
2	Supply and install LYSAGHT® KLIP-LOK® OPTIMA™ 0.48mm BMT (Base Metal Thickness) roofing sheet in AZ150 G550 ZINCALUME® steel. Total Coated Thickness, (TCT) = 0.53mm; Coverwidth = 980mm; Rib height = 43mm. Mass per unit area kg/m ² = 4.90kg/m ² Steel Grade = G550 (550 N/mm ² Yield Strength) Coating Grade = AZ150 (150g/m ² minimum)		m ²		
B	ROOF INSULATIONS; laying on galvanised steel purlins				
	Supply and install approved XXX mm thick (XXX kg/m ³ density) mineral wool insulation lining; laid on double sided aluminium foil and BRC 3316 weldmesh lay on galvanised high tensile purlins (measured separately) and lapped at joints (measured nett- no allowance made for laps)				
1	Mineral wool insulation XXX mm thick (XXX kg/m ³ density)		m ²		
2	Double sided aluminium foil		m ²		
C	FLASHING AND CAPPING				
	Supply and install LYSAGHT® Flashing and Capping 0.42mm BMT (Base Metal Thickness) in Clean COLORBOND® steel				
1	Gable capping with four bends as detailed in Dwg No. 600mm girth (To check with drawings)		m		
2	Wall capping / flashing with four bends and top ends embedded into brickwork with approved natural cured sealant and bottom ends bent over profiled roofing sheet 900mm girth (To check with drawings)		m		
				RM	

BILL OF QUANTITY

A. ROOFING AND WALLING SOLUTIONS

Item	Description	Qty.	Unit	Rate	Amount
D	1.00mm THICK ZINCALUME® STEEL GUTTER Supply and install LYSAGHT® 1.00mm BMT (Base Metal Thickness) thick gutter in ZINCALUME® steel finish Grade AZ150 G550				
1	LYSAGHT® 1mm thick gutter in ZINCALUME® steel to be formed as detailed in Dwg No: Lapped, sealed and jointed with overall girth not exceeding 1219mm girth (To check with drawings)		m		
				RM	

B. STRUCTURAL DECKING SYSTEM

Item	Description	Qty.	Unit	Rate	Amount
1	STRUCTURAL DECKING Supply of LYSAGHT® BONDEK® II 1.0mm BMT, nominal weight 13.5kg/m ² , structural decking formwork & composite slab dovetail re-entrant profile produce from cold rolled galvanised steel G550MPa tensile strength conforming to BS EN 10147 & AS 1397 with zinc coating of Z275.				
			m ²		
				RM	

BILL OF QUANTITY

C. STEEL FRAMING SYSTEM

For Metal Roof Covering

Item	Description	Qty.	Unit	Rate	Amount
A	<p>STEEL ROOF TRUSS</p> <p>Design, Supply and Install LYSAGHT® SMARTRUSS® Steel Roof Truss System with Material Warranty of up to 50 years* (*terms and conditions apply) against structural failure cause by corrosion and Design Warranty of up to 10 years.</p> <p>LYSAGHT® SMARTRUSS® (Light Weight Steel Roof Truss) System : Design to AS4600 (Structure Design) and CP3 (Load Design). Consisting Trusses comprising of Lipped Channel 75mm or 100mm (height) and 1.00mm BMT or 0.75mm BMT or 0.60mm BMT (thickness); and Battens, TS6148 at 0.48mm BMT or 0.75mm BMT (thickness) manufactured from TRUECORE® zinc/aluminium alloy-coated steel (AZ150-150g/m²; G550-minimum yield strength of 550MPa). The coated steel shall certify according to MS1196 or AS1397 and Eco-Label certified to promote usage of green-rated building material. All fasteners to comply with AS 3566 Class 2. All connection joints (brackets) shall be galvanised or either Zinalume AZ150 coated. All anchor bolts shall be zinc coated.</p>		ft ²		
1	roof area (measured on slope)		m ²		
Total/Unit				RM	

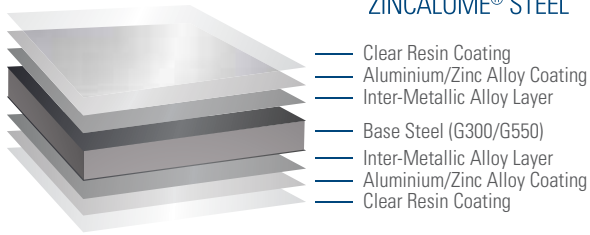
For Concrete/ clay tile roof covering

Item	Description	Qty.	Unit	Rate	Amount
A	<p>STEEL ROOF TRUSS</p> <p>Design, Supply and Install LYSAGHT® SMARTRUSS® Steel Roof Truss System with Material Warranty of up to 50 years* (*terms and conditions apply) against structural failure cause by corrosion and Design Warranty of up to 10 years.</p> <p>LYSAGHT® SMARTRUSS® (Light Weight Steel Roof Truss) System : Design to AS4600 (Structure Design) and CP3 (Load Design). Consisting Trusses comprising of Lipped Channel 75mm or 100mm (height) and 1.00mm BMT or 0.75mm BMT or 0.60mm BMT (thickness); and Battens, TS3548 at 0.48mm BMT (thickness) manufactured from TRUECORE® zinc/aluminium alloy-coated steel (AZ150-150g/m²; G550-minimum yield strength of 550MPa). The coated steel shall certify according to MS1196 or AS1397 and Eco-Label certified to promote usage of green-rated building material. All fasteners to comply with AS 3566 Class 2. All connection joints (brackets) shall be galvanised or either Zinalume AZ150 coated. All anchor bolts shall be zinc coated.</p>		ft ²		
1	roof area (measured on slope)		m ²		
Total/Unit				RM	

* warranty terms and conditions apply.

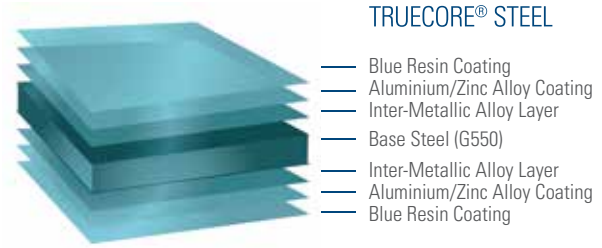
METALLIC & PREPAINTED STEEL

CROSS SECTION OF
ZINCALUME® STEEL



- Clear Resin Coating
- Aluminium/Zinc Alloy Coating
- Inter-Metallic Alloy Layer
- Base Steel (G300/G550)
- Inter-Metallic Alloy Layer
- Aluminium/Zinc Alloy Coating
- Clear Resin Coating

CROSS SECTION OF
TRUECORE® STEEL



- Blue Resin Coating
- Aluminium/Zinc Alloy Coating
- Inter-Metallic Alloy Layer
- Base Steel (G550)
- Inter-Metallic Alloy Layer
- Aluminium/Zinc Alloy Coating
- Blue Resin Coating

ZINCALUME® steel

ZINCALUME® steel is a premium metallic coated steel that uses continuous hot-dip aluminium/zinc alloy coated technology, with coating composition of 55% aluminium, 43.5% zinc and 1.5% silicon. It has a regular spangle surface and guaranteed minimum yield strength of 300 MPa (G300 steel grade) or 550 MPa (G550 steel grade). It is the signature material which can produce sleek and stylish designs with high flexibility.

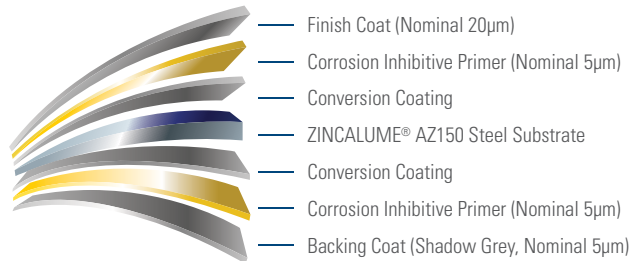
TRUECORE® steel

TRUECORE® steel is a premium hot-dip aluminium/zinc alloy coated steel with a distinctive blue resin surface finish. It has a regular blue tinted resin spangle surface and guaranteed minimum yield strength of 550 MPa (G550 steel grade).

TRUECORE® steel has a coating class of AZ150 with a minimum coating mass of 150g/m² by triple spot test.

It is typically designed for structural applications such as steel house frames and trusses where the product is not visible.

CROSS SECTION OF
CLEAN COLORBOND® STEEL



- Finish Coat (Nominal 20µm)
- Corrosion Inhibitive Primer (Nominal 5µm)
- Conversion Coating
- ZINCALUME® AZ150 Steel Substrate
- Conversion Coating
- Corrosion Inhibitive Primer (Nominal 5µm)
- Backing Coat (Shadow Grey, Nominal 5µm)

Clean COLORBOND® XRW steel

Clean COLORBOND® steel used custom formulated super polyester paint system with high quality pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ150 coating class, comprises a minimum coating mass of 150 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® steel is designed to provide a high durability, good looking and cost effective premier roofing and walling material for general exterior use. Typical uses include general exterior architecture uses, for example roofing, wall cladding, rain water goods as well as other building products material such as garage doors and infill panels.

Clean COLORBOND® steel comes with material warranty* up to 25 years against perforation by corrosion; 15 years against flake & peel; 10 years against excessive colour fading; and 5 years against dirt staining.

Clean COLORBOND® steel - SPECTRUM Series

Clean COLORBOND® steel - SPECTRUM Series used custom formulated super polyester paint system with high quality metallic pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ150 coating class, comprises a minimum coating mass of 150 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® steel - SPECTRUM Series is designed to provide a highly decorative alternative while maintaining high exterior durability, where the prestigious residential roofing and walling require a metallic lustrous looks.

Clean COLORBOND® steel - SPECTRUM Series comes with material warranty* up to 25 years against perforation by corrosion; 15 years against flake & peel; 10 years against excessive colour fading; and 5 years against dirt staining.

* warranty terms and conditions applies.

METALLIC & PREPAINTED STEEL

CROSS SECTION OF CLEAN COLORBOND® XPD STEEL



- Finish Coat (Nominal 20µm)
- Corrosion Inhibitive Primer (Nominal 5µm)
- Conversion Coating
- ZINCALUME® AZ150 Steel Substrate
- Conversion Coating
- Corrosion Inhibitive Primer (Nominal 5µm)
- Backing Coat (Snow Gum Green, Nominal 5µm)

Clean COLORBOND® XPD steel

Clean COLORBOND® XPD steel used custom formulated KYNAR®/HYLAR® PVDF paint system with high quality pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ150 coating class, comprises a minimum coating mass of 150 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® XPD steel is designed to provide premium durability in various applications which require both long term colour and gloss retention. Typical uses include prestigious roofing and walling, architectural panels and building accessories that require excellent colour and gloss retention.

Clean COLORBOND® XPD steel comes with material warranty* up to 25 years against perforation by corrosion; 15 years against flake & peel; 15 years against excessive colour fading; and 5 years against dirt staining.

Clean COLORBOND® XPD Pearlescent steel

Clean COLORBOND® XPD Pearlescent steel used custom formulated KYNAR®/HYLAR® PVDF paint system with high quality metallic pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ150 coating class, comprises a minimum coating mass of 150 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® XPD Pearlescent steel is designed to provide premium durability in various applications with an aesthetically distinctive "metallic" effect as an optional finish. Typical uses include prestigious roofing and walling, architectural panels and building accessories that require excellent colour and gloss retention.

Clean COLORBOND® XPD Pearlescent steel comes with material warranty* up to 25 years against perforation by corrosion; 15 years against flake & peel; 15 years against excessive colour fading; and 5 years against dirt staining.

CROSS SECTION OF CLEAN COLORBOND® ULTRA STEEL



- Finish Coat (Nominal 20µm)
- Corrosion Inhibitive Primer (Nominal 5µm)
- Conversion Coating
- ZINCALUME® AZ200 Steel Substrate
- Conversion Coating
- Corrosion Inhibitive Primer (Nominal 5µm)
- Backing Coat (Base Grey, Nominal 10µm)

Clean COLORBOND® Ultra steel

Clean COLORBOND® Ultra steel used custom formulated super polyester paint system with high quality pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ200 coating class, comprises a minimum coating mass of 200 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® Ultra steel is designed to provide long term durability with exceptional corrosion resistance. Typical uses include exterior building profiles that require excellent corrosion resistance, from moderate to severe marine or industrial environment.

Clean COLORBOND® Ultra steel comes with material warranty* up to 30 years against perforation by corrosion; 15 years against flake & peel; 10 years against excessive colour fading; and 5 years against dirt staining.

Clean COLORBOND® Ultra Matt steel

Clean COLORBOND® Ultra Matt steel used custom formulated low gloss super polyester paint system with high quality pigments suited to high UV/temperature environment; advanced primer technology to resist paint delamination; and clean technology to prevent tropical staining. The paint system is cured with an oven-baked two-stage curing process.

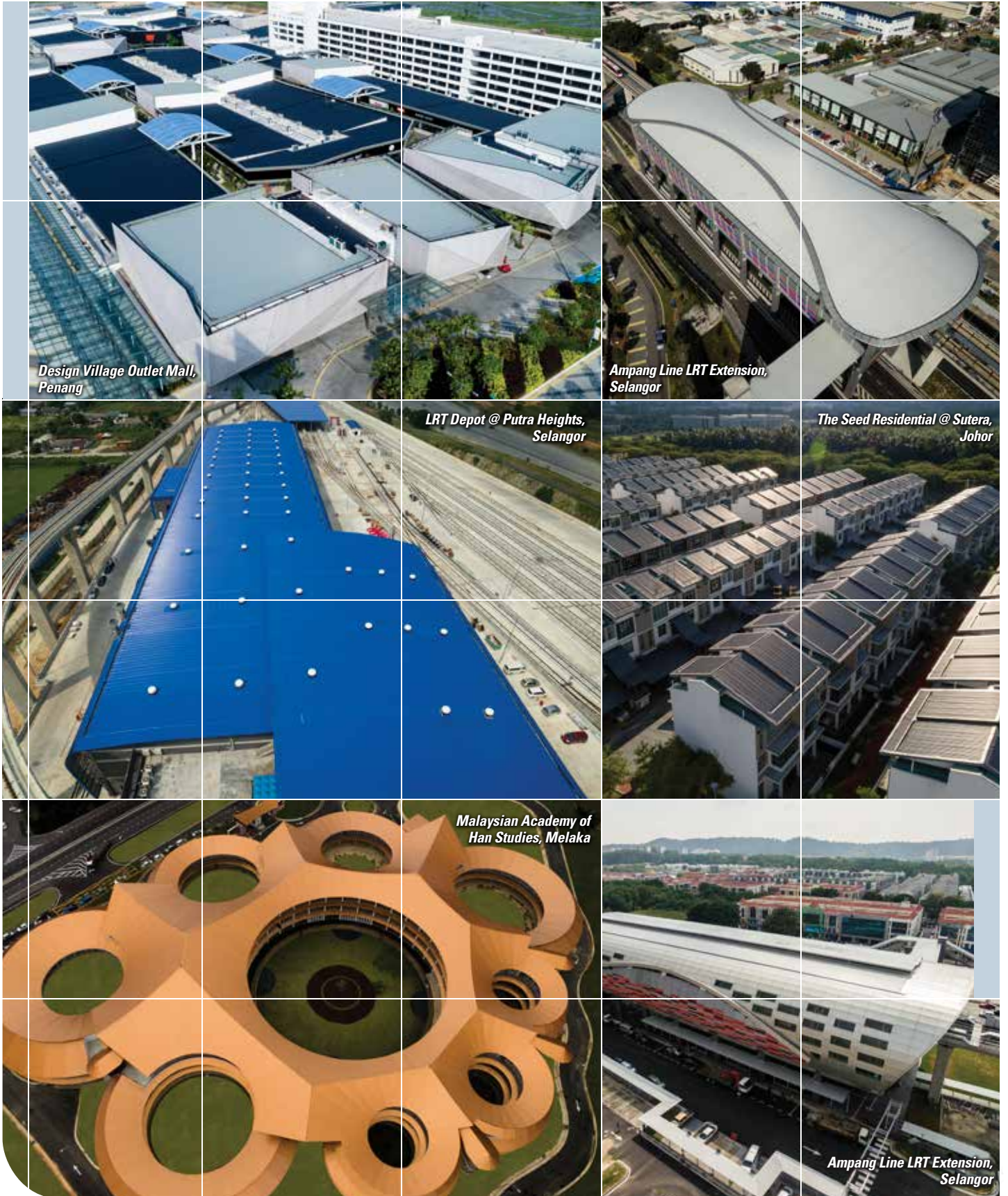
The Substrate is a ZINCALUME® steel, an aluminium/zinc alloy coated steel with AZ200 coating class, comprises a minimum coating mass of 200 g/m² by triple spot test.

With its proprietary paint system, Clean COLORBOND® Ultra Matt steel is designed to drastically reduce specular reflection, to a gloss unit of nominal 7 +/- 3, while retaining its long-term durability and exceptional corrosion resistance performance. Typical uses include exterior building profiles in applications requiring low gloss finish and excellent corrosion resistance, suited from moderate to severe marine/industrial environment.

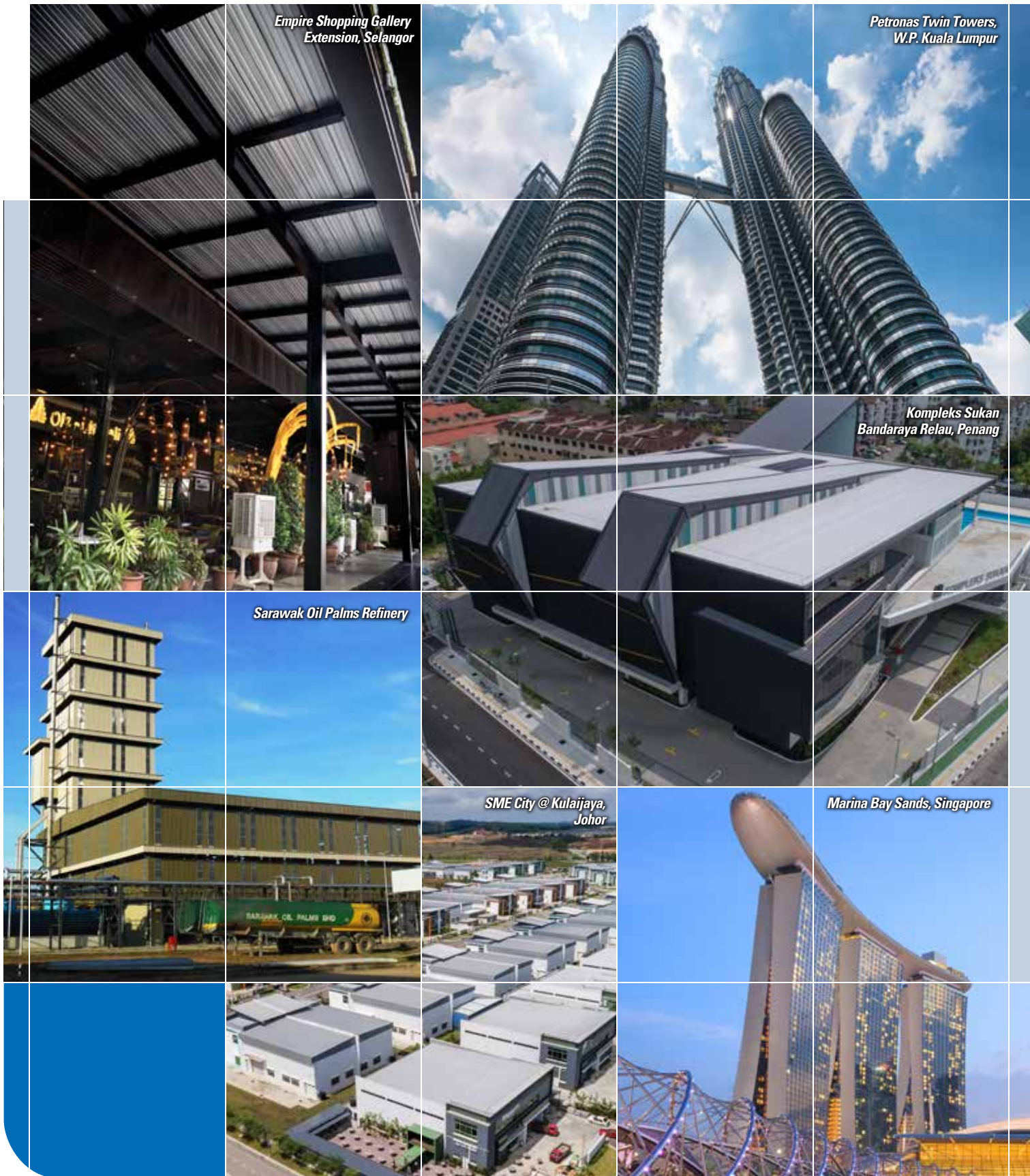
Clean COLORBOND® Ultra Matt steel comes with material warranty* up to 30 years against perforation by corrosion; 15 years against flake & peel; 10 years against excessive colour fading; and 5 years against dirt staining.

* warranty terms and conditions applies.

PROJECT REFERENCE



PROJECT REFERENCE



PROJECT REFERENCE



Sabah Art Gallery



Putrajaya Waterfront



*Hershey Chocolate Factory,
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*University College
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