

Pre-Engineered
Building [PEB]

www.iyarawanich.com

COMPANY PROFILE

IYARA WANICH COMPANY LIMITED

IYARA WANICH COMPANY LIMITED was established on 24th April, 2007 for conducting general construction contracting. The work of the company is to construct building, civil work, utilities system, including the one-stop real estate management service by experts with experiences. In 2011, the company has seen problems on construction, so the policy was established to change the work structure to be stronger and focus more on the packaged works.

In 2012, the company has signed the contract to be the agent to distribute Pre-Engineering Steel Building from Australia and other products officially. At present, the company has the factory that can produce the pre-engineering building in various types of systems, such as knock-down system, pre-cast, or modular system. Moreover, the company has increased a business line to produce and distribute pulleys and cranes to meet the needs of industrial factory more than before. The company has held the work principles for honesty and sincere as well as aware and focus on work quality, including before and after sale service to create satisfactory for customers. Nowadays, **IYARA WANICH COMPANY LIMITED** has been trusted by general customers and leading companies in Thailand.

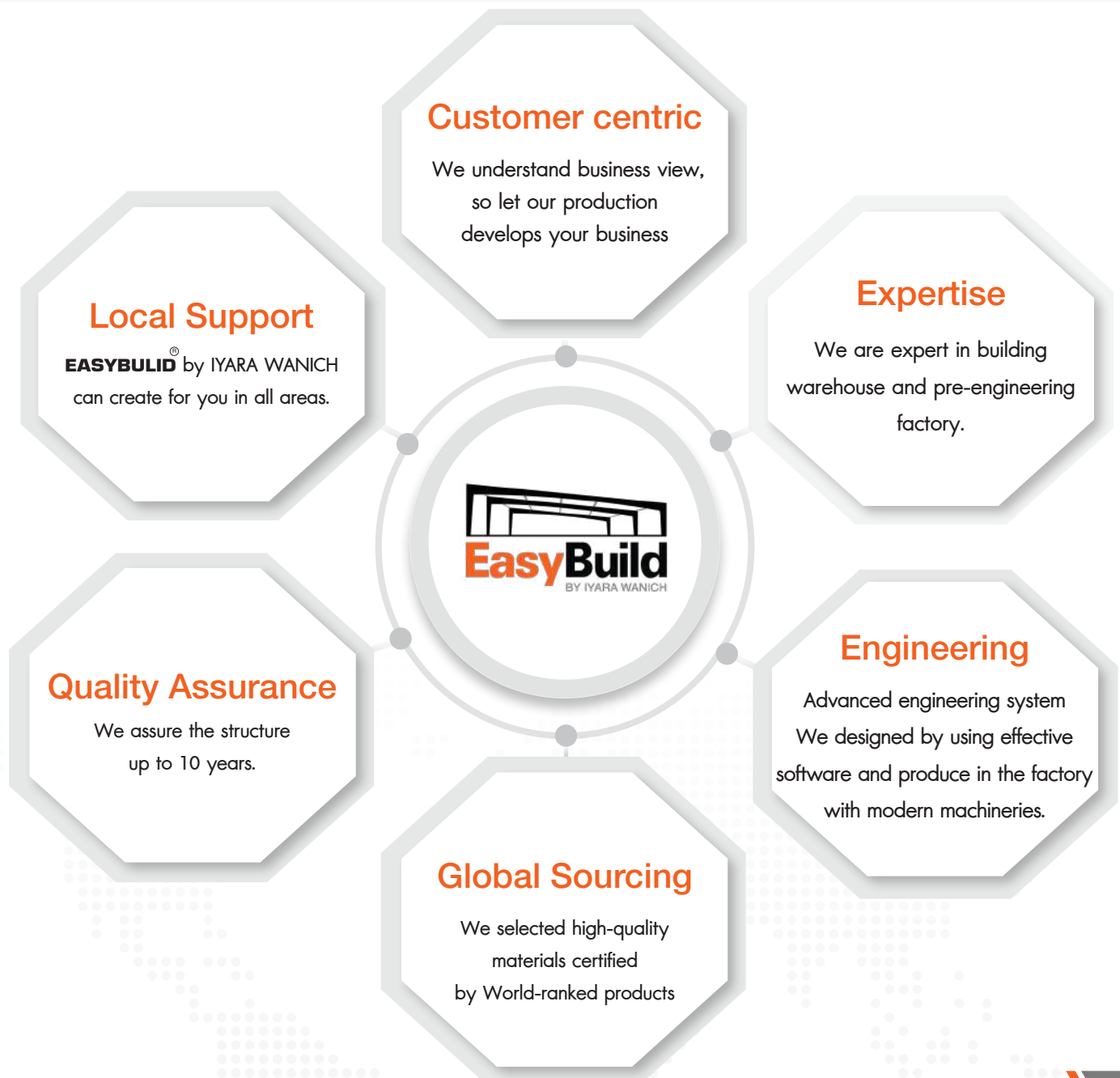
IYARA WANICH COMPANY LIMITED

Aims to develop the personnel potentials, including services with the objective to create quality and standardized works with satisfied services.





WHY DID YOU CHOOSE
EASYBUILD[®]
BY IYARA WANICH





EASYBUILD® is the building with hot rolled steel structure, and the known down has been used as the building construction system. Parts of the building from the factory shall be called pre-engineered building or PEB, which is the very economy structure by using the steel to form all parts of the structure, and it is designed to support the force of the building according to the actual level under the engineering criteria. All structures will be prepared and painted from the factory before delivering to the worksite by using bolt connection. All buildings are designed under the latest building construction and standard, such as BAAA 2010, ASCE 2005, AISC 2005, IBC 2012, AISI 2005, AWS 2008, and ASTM 2006.

QUALITY
PRODUCTS
BY IYARA

What make the pre-engineering steel building of

EASYBUILD®

To be appropriate with your business?

EASYBUILD® has the outstanding points for its images and its design to be appropriate with your business as it can be made in various forms. Moreover, it has been input into the engineering procedures to be endurance and strong. The special qualifications of the high-quality **EASYBUILD®** pre-engineering steel building has the following details:

Appropriate with large structure



EASYBUILD® pre-engineering steel building can be designed with the width up to 96 meters without having the middle pole, and Overhead Crane can be installed as well.

Save construction time



Be convenience with Knock Down which is ready-made from the factory without the need to assemble and cut during the installation. It saves 50% of time.



Valuable and fair price without having any wastes

It has long using term with rust-prevention paint and color coating for 2 layers, male and female nuts, and all rings supported with zinc, so it is durable for torn and deteriorated.



Tightly secured and sure

Blots from **EASYBUILD®** are created from reinforced steel, so it is ensured for its tightly secured of the building even it is in highly variable environment.

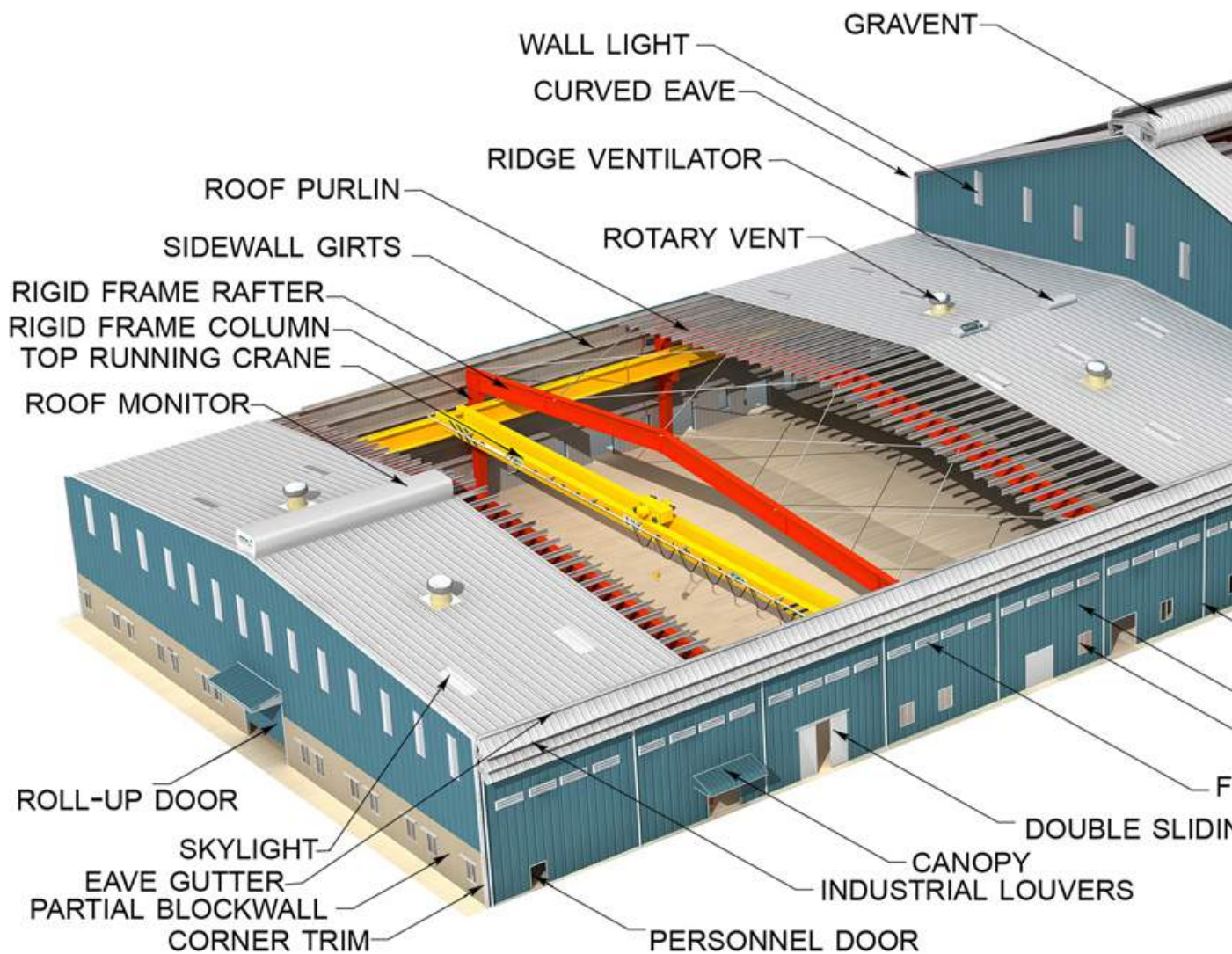
Strong, durable, and standardized.



EASYBUILD® pre-engineering steel building has been produced from the reinforced steel for up to 345 MPa. (50,000 psi), and it is higher than the structural steel sold in general market. It is produced and inspected for quality for all parts from the factory.

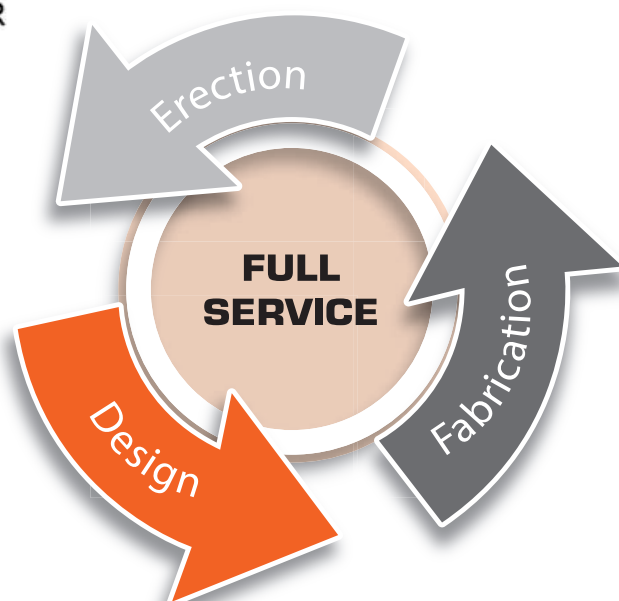
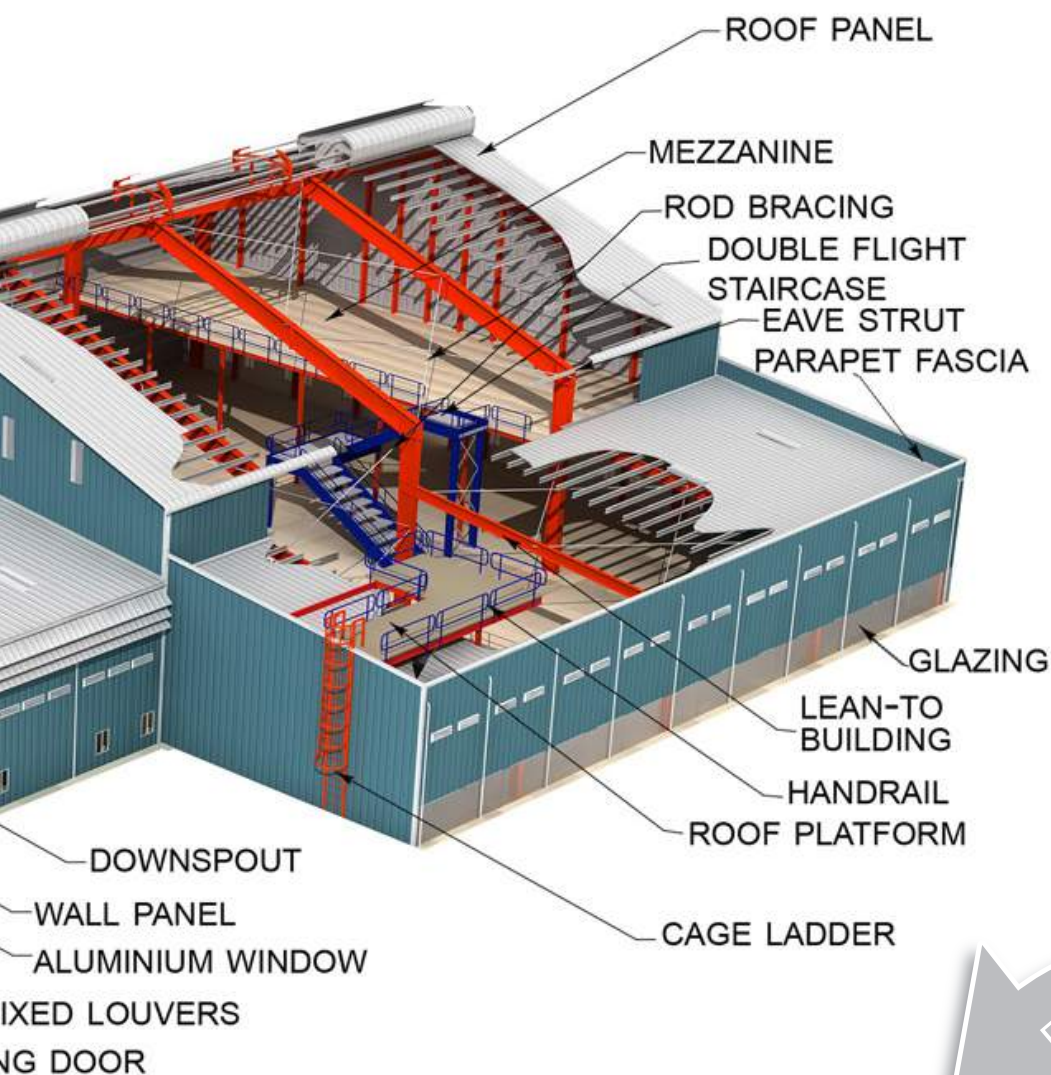
EASYBUILD[®] BUILDING FORMAT

The **EASYBUILD[®]** building structure can be designed from the 3-metered wide up to 96-metered wide. The height of the wall ranged from 3 meters up to 30 meters. The standard structure of EASYBUILD can be applied to use in various types of works and can be designed appropriately with the use of your business.



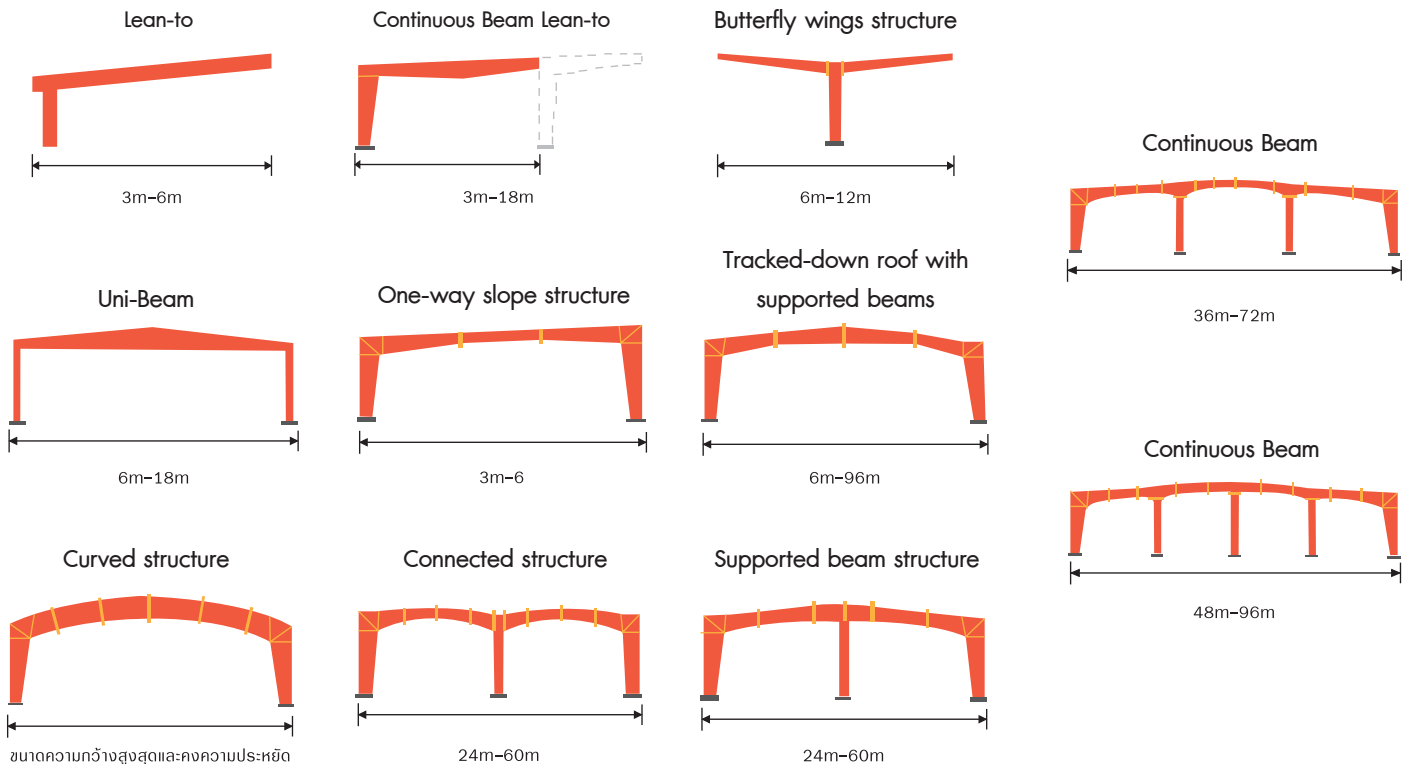
Appropriate with the following

- Industrial factory
- Warehouse and goods distribution warehouse
- Maintenance building
- Aviation warehouse
- Cool room
- Market and wholesale-retail department stores
- Gym and in-door stadium
- Exhibition hall
- Convention hall
- Others



Main Frames

// There are 11 types of the standardized main frames as



// Design and Engineering

The design and engineering shall apply standard software for design and determine the specifications of the building for both 2D and 3D. The latest software of the well-known program developing company is used and structural engineers are expert. The modern system is used as usual. The design and engineering department shall operate by using computer or all processes, and it helps to customers to obtain stable, effective, and valuable structure and structural cladding. We use the following software:



SAP2000[®]

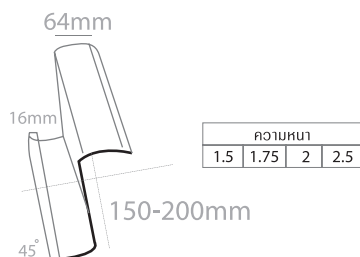
Tekla[®]
Structures

A
AUTOCAD

RAM Elements V8i

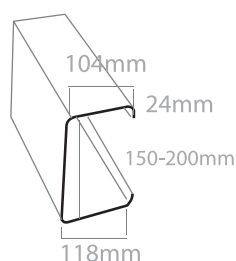


Secondary Members Frames



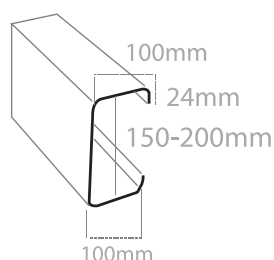
Thickness Z (Z-Purlin / Grit)

The Z-purlin has the width for 200 mm and the width of the fin is 64 mm. The tip of the fin shall be folded for 16 mm with 45-degree angle to the fin



Eave Strut

The Eave strut has the width of 200 mm and has both fins paralleled with the slope. The upper fin has 104 mm width and the lower fin has 118 mm Width. The tip of both fins shall be folded for 24 mm.



C-Section

The C-section has the width for 200 mm and both fins have the width for 104 mm and the tips were folded for 24 mm. When it is used, it shall have the angle perpendicular with the structure of the roof beam.

Parts of the minor structure shall be cold formed members than can support 345 MPa (50,000 psi) and has the features according to ASTM 570 (Grade 50) of ASTM 653 (Grade 50) or equivalent

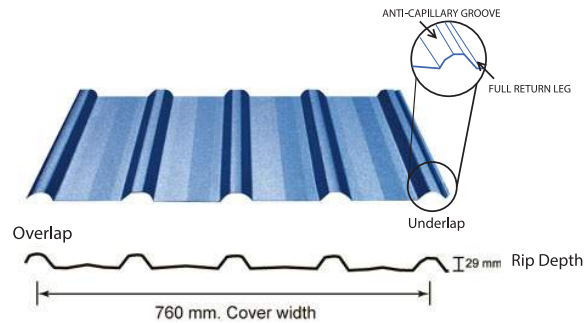


EASYBUILD® BUILDING TYPE

We used the wall, and metal roofing with the best quality from Bluescope Lysaght with the outstanding strong roofing, easy for installation, no leaking problem, and it has modern form. It is popular in Thailand as the valuable option for various types of building whether it is the industrial factory, warehouse, commercial building, and residence. We have both ZINCALUME® and Clean COLORBOND® color models.

PRODUCT FEATURES

APPLICATION	Roofing & Walling
FIXING TYPE	Pierce-fixed by Self Drilling Fastener
MATERIAL	ZINCALUME® Steel complying with AS1397/G550 (550 Mpa min. yield Strength, 150 g/m ² min. coating mass)
RECOMMENDED MIN. ROOF SLOPE	5 (1/12 approx.)
MAX. LENGTH OF ROOF PER SHEET	24 m. recommended
MAX. LENGTH OF WALL PER SHEET	15 m. recommended
MIN./MAX. RADIUS FOR CRIMP CURVE	450-59,999 mm
MIN. RADIUS FOR SPUNK CURVE	> 60,000 mm
TOLERANCES LENGTH WIDTH	+15mm, -15mm +4mm, -4mm



BMT/BASE METAL THICKNESS ()	0.35		0.42		0.45		0.48	
	ZINCALUME® Steel	Clean COLORBOND® Steel	ZINCALUME® Steel	Clean COLORBOND® Steel	ZINCALUME® Steel	Clean COLORBOND® Steel	ZINCALUME® Steel	Clean COLORBOND® Steel
TCT / TOTAL COATED THICKNESS (mm)	0.40	0.436	0.47	0.505	0.50	0.565	0.53	0.565
WEIGHT PER AREA (kg./sq.m.)	3.61	3.68	4.29	4.36	4.58	4.65	4.87	4.94
WEIGHT PER UNIT LENGTH (kg./m.)	2.71	2.80	3.26	3.31	3.44	3.31	3.70	3.76
COVERAGE (sq.m./ton)	281	271	233	229	221	215	206	202

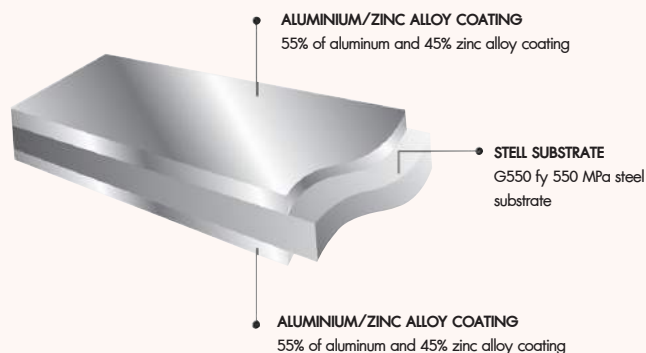
MAXIMUM ALLOWANCE SUPPORT SPACING*

ROOF APPLICATION	0.35	0.42	0.45	0.48
SINGLE SPAN (mm)	1000	1100	1200	1500
END SPAN (mm)	1100	1300	1500	1700
INTERNAL SPAN (mm)	1500	1900	1500	2300
UNSTIFFENED OVERHANG (mm)	150	150	150	200
WALL APPLICATION	0.35	0.42	0.45	0.48
SINGLE SPAN (mm)	1200	2000	2100	2200
END SPAN (mm)	1200	2000	2100	2200
INTERNAL SPAN (mm)	1800	2500	2600	2800
UNSTIFFENED OVERHANG (mm)	150	150	150	200

*FOR BUILDING HEIGHT LESS THAN 10 M. (DESIGNED WIND LOAD 50 KG/SQ.M. OR LESS)

ZINCALUME is the steel coated with mixed metal between 55% of aluminum and 45% of zinc, and it is appropriate with the construction usage (for roofing and wall) and general industrial products that require the steel that is durable to the erode and has higher feature than general steel coated with zinc. It is produced under AS 1397-1993.

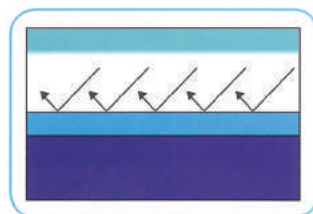
ZINCALUME Steel Layer



Bluescope double protection layer system

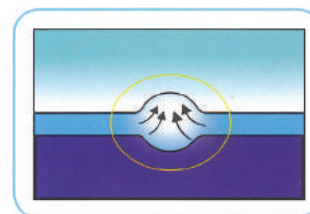
ZINCALUME® coated alloy has 2 types of rust prevention. Aluminum shall help preventing the erode from the oxidation and steel body. Zinc helps preventing the erode on the cut section and lining section. The substances of the zinc shall provide electrolytic reaction and shall prevent the erode on the steel body.

Barrier Protection



What Happens with 55% Al-Zn is that the aluminum provides a good barrier. However at edges or scratches the zinc goes to work and furnishes the sacrificial protection.

Galvanic Protection



The special coating on the sheet is composed of 55% aluminum and 43.5% zinc with 1.5% silicon. The significance of this material is that its corrosion resistance is vastly superior to tradition products such as galvanized steel. Yet it costs no more.

Finish Coat Custom
Formulated System (Polyester)
สี Polyester เคลือบผิวด้านหน้า



Clean COLORBOND® is the excellent product from the research, test, and development of the products of Bluescope steel for several years by using advanced color coating technology on ZINCALUME® to produce steel coated with color which is durable for erode and has beautiful and long-lasting color. This "Clean" color coating with advanced technology is designed for preventing dusts accumulation in hot and humid climate, so the product has long-lasting term of usage, beautiful, and durable.

INSULATION

The PE insulation has the 5-mm thickness, and it is closed cell insulation produced from polyethylene with modern technology of production to join metalized film with non-crosslinked polyethylene foam with low heat through the use of dry laminate coated with P.E.T (polyethylene Terephthalate). This helps the surface of the insulation to be durable from scratches, climate, and humidity.



// Structure

The structure has the opened cell polyethylene for 1 side by using pure foil sheet. The upper aluminum sheet shall reflect the heat radiant first, and then polyethylene insulation shall resist heat from the “heat conduction” and “heat accompanying” not to be in the air layer at the lower part of the insulation, so it prevents heat perfectly.



// Closed cell material

Metalized film insulation with closed cell for 1 side by using pure aluminum foil with the thickness shall have high reflectivity and low emissivity for the most effective usage to prevent heat.

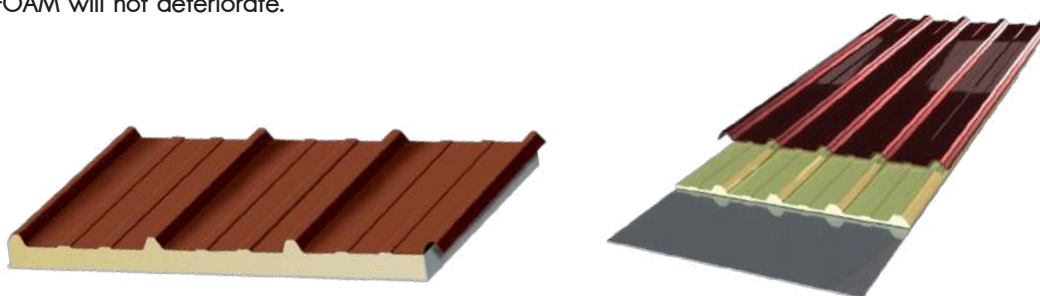


PU Foam INSULATION

// It is appropriate with the roof with the slope of 3 degree or more. Thus, it is depending on the length of the sheet and the quantity to support rain water. The roofing wave has the height of 25 mm. with the width of 800 mm. The installation system is bolt type.

// Facing only for metal sheet as the special model with wings, working as the wings for joining at the side of the sheet to help the joining line at the side of the sheet looks neat and beautiful without having gaps at the joining line. It can connect the sheet beautifully and neatly. The overlapped range is the same as general metal sheet.

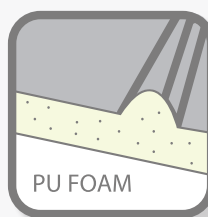
// It is money-saving roofing that can use the thinness of PU FOAM for ½ inches. It is cheaper than the PE roofing with 10-mm thickness, but the heat prevention feature and nuisance prevention are quite different. Moreover, PU FOAM will not deteriorate.



QUALIFICATIONS



Good outside noise prevention, especially sound from aircraft. It reduces 20-40 decibel, depending on the building type and usage.



PU FOAM can be installed with the same surface of roofing without having gaps, preventing from rust and vapor due to the change of climate.



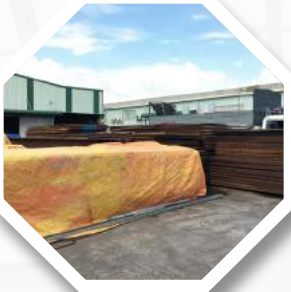
Heat prevention, and it reduces the heat of the roof for 15-30 degree Celsius.



PU FOAM is mixed with fire retardant with self-extinguishing qualification, so it is durable from acid, alkali, and humidity. Moreover, it is anti-water absorbance, so it is safe from ants, termites, and pests.

Production Process

Raw Material »



Cutting Machining »



Combination Weld »



« Holes Machining



« Deforming



Combination and Welding Finish »



Shot Blasting »



« Quality Check



Paint « Spraying



Completed Products »



EasyBuild
BY IYARA WANICH

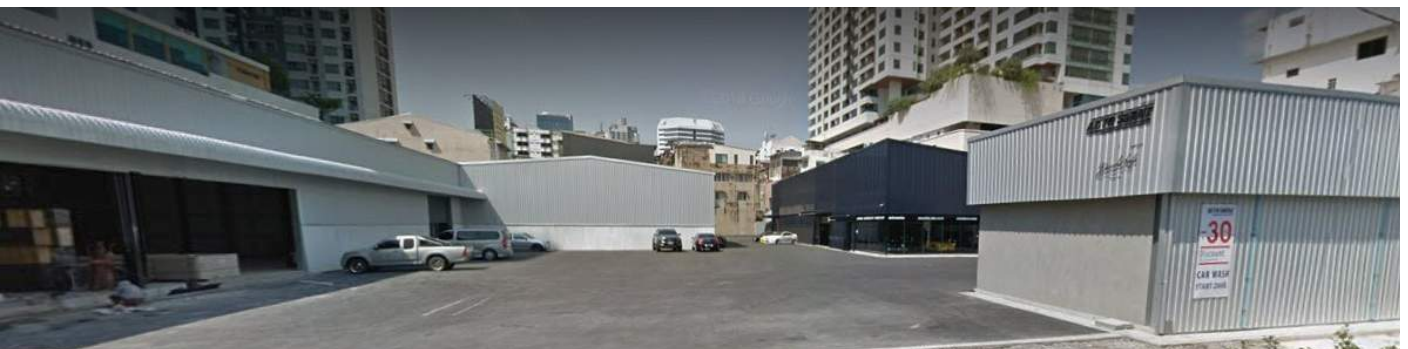
Reference Project

CHECKMATE HORSE CLUB LAM LUK KA



Reference Project

AUTO WERKS THANON RAMA 4



Reference Project

UNION PAPER KHLONG7



MANA SAPTHAWEE CHAIYAPHUM



Reference Project

NW INDUSTRY GUAWGUILE SAMUT SAKHON



WATER PARK CHIANGMAI



Reference Project

PROLOG RAYONG



Reference Project

THUATHONG KALASIN



Reference Project

THANOMMIT MARKET RAMA 4



MARY MART THAI MARKET



Reference Project

LANTAMART



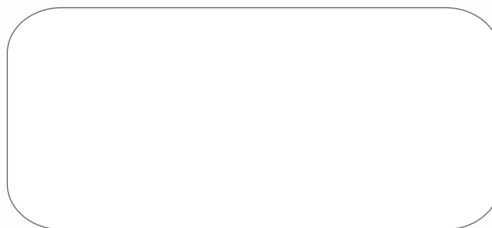
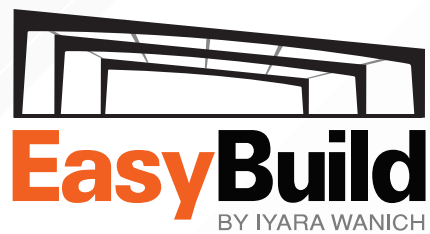
KRABI SUPER CHEAP



Reference Project

SUPER CHEAP BANG JO





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Line Official



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