

## PEB-Lite™ solution



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The construction industry is poised to grow in the coming years. With the challenging times, one looks for an option that helps in commencement of the building requirements faster, thus reducing the time involved in construction. PEB-Lite™ solution is the answer to such requirements.

PEB-Lite™ solution is a unique pre-engineered building solution that allows easy and quick installation. The frame is manufactured from high strength galvanized steel members known as CEE-plus™ and ZED-plus™. This allows design flexibilities to add any architectural feature to your building and provides more open area to work inside the building. Its lightweight makes it easy to transport and saves foundation cost as well.

The solution comes with LYSAGHT® Roofing and Wall Cladding, manufactured from high strength ZINCALUME® steel or COLORBOND® steel to add strength, life and aesthetics to your building.

PEB-Lite™ solution comes with marked members which are to be fixed using a nut and bolt system. This makes installation of the structure easy even for less skilled workers. The superior design methodology makes PEB-Lite™ solution more earthquake resistant and long lasting than any conventional building system.

PEB-Lite™ solution is available in standard options or supplied as customised solution. PEB-Lite™ solution is commonly used for small industrial units, warehouses, agricultural sheds, site offices, cabins, residential buildings, roof-tops, etc.



## Features



- Light-weight, high strength



- Nut and bolt system
- No cutting, welding, painting at site



- LYSAGHT® cladding, available in wide range of colours



- Ready-to-assemble kits

## Benefits



- Saves foundation cost



- Easy to install and relocate



- Aesthetically pleasing



- Early return on investments



# Applications



## Residential

For residential purposes, PEB-Lite™ solution is most efficient as it provides faster erection and is designed for occupant comfort.

With low construction cost as one of the major advantages, this solution is a perfect fit for residential applications like -

- Low Cost Housing, Labour Colonies, Mass Housing
- Rehabilitation and Relief Centres
- Emergency Housing, Temporary Shelters
- Roof Top Extension

## Agriculture

PEB-Lite™ solution is ideal for applications that require hygiene, cleanliness, leak proof and secured storage. This solution takes into consideration a life-time benefit through its long life and corrosion resistant properties.

The PEB-Lite™ solution is best suited for agricultural applications like -

- Small processing units for Dairy Products, Processing and Packing Units, Rice Mill, Distilleries, Oil Mills, Feed Mills
- Storage Sheds, Grain Storage Silos





# Applications



## Commercial

PEB-Lite™ solution meets the required functionality of the commercial sector and is well accepted for various building requirements. It provides quick utilisation of space, easy maintenance and lower foundation cost, thus resulting into early return on investments.

It is most commonly used for -

- Warehouses and Storage Sheds
- Garages, Workshops and Repair Shops
- Parking Sheds and Utility Buildings
- Small Scale Industries, Site Office
- Assembling, Packing and forwarding units

## Institutional

For its unique features like availability in standard options, accurate dimensions and clear width, PEB-Lite™ solution is the most preferred and apt solution for institutional buildings. The added benefits that one can draw from this versatile product are that it provides all-weather protection, has better ventilation and can be erected in a smaller time frame.

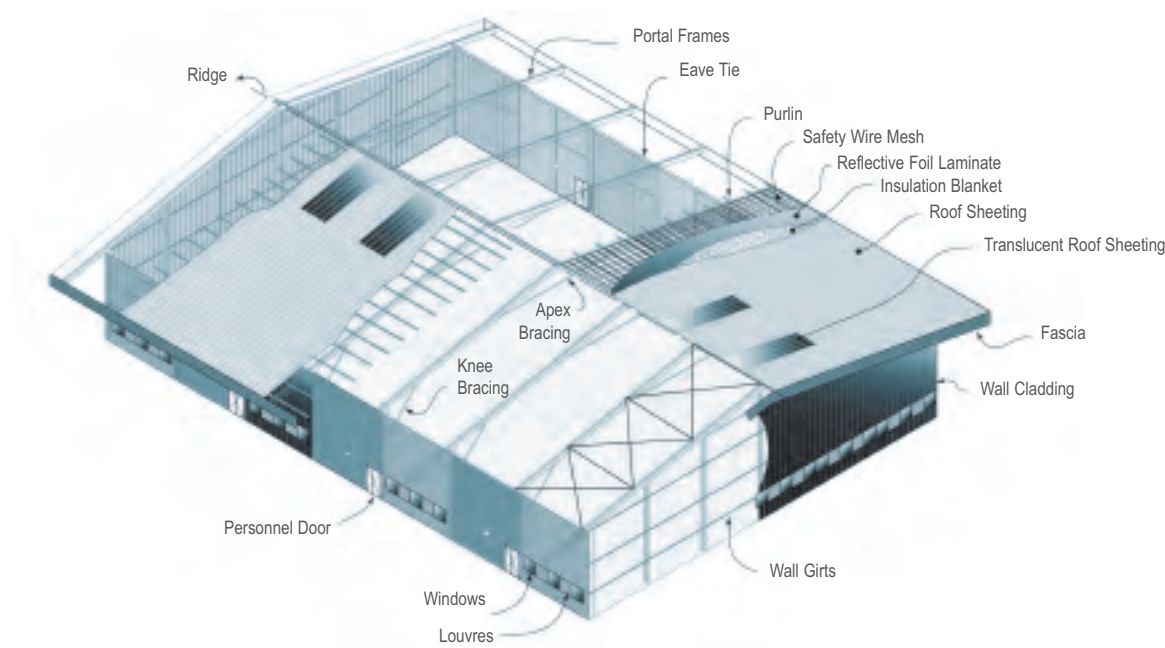
PEB-Lite™ solution is specially suited for institutional buildings like -

- Schools, Libraries and Laboratories
- Community Centres and Reading Halls
- Indoor Sports Complex, Badminton Court, Covered Swimming Pool and other recreational outfits





# Designed to your needs

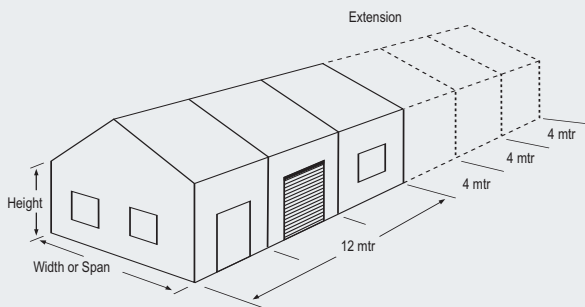


PEB-Lite™ solution - Standard Option

PEB-Lite™ solution offers three standard options -

- PEB-Lite™ 4M
- PEB-Lite™ 3M
- PEB-Lite™ Kit

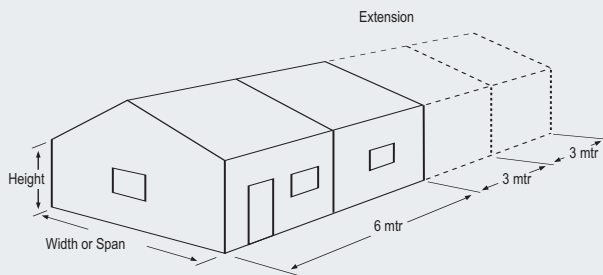
## PEB-Lite™ 4M



Building Type	Length	Width	Height	Extension
Warehouse	12 m	12 m	5 m	4 m
Small Processing Unit 1	12 m	12 m	6 m	4 m
Small Processing Unit 2	12 m	12 m	4 m	4 m
Community Hall	12 m	12 m	5 m	4 m
Open Storage Shed	12 m	12 m	6 m	4 m



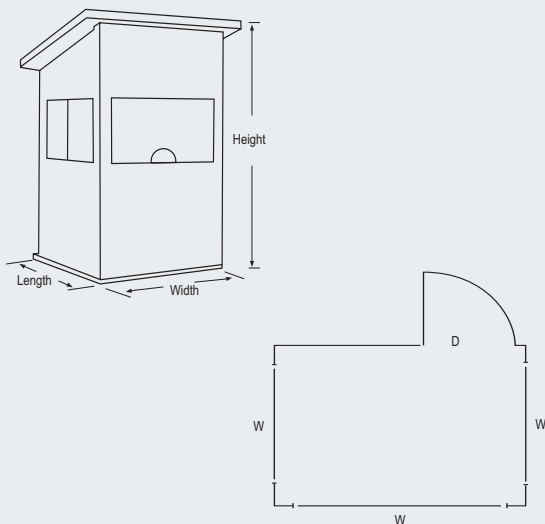
## PEB-Lite™ 3M



Building Type	Length	Width	Height	Extension
Small Processing Unit 3	6 m	6 m	3 m	3 m
Parking Shed	9 m	6 m	4 m	3 m
Car Garage	3 m	6 m	3 m	3 m
Site Office	6 m	3 m	3 m	3 m



## PEB-Lite™ Kit



Application	Length	Width	Height
Guard Hut	1.20 m	1.80 m	2.28 m
Toll Booth/Security Booth - Two Persons	1.20 m	2.50 m	2.28 m
Milk/Newspaper Booth	1.80 m	2.50 m	2.28 m



# Advantages over conventional steel buildings

## Conventional Method



- Lesser safety during site fabrication
- Requires welding
- Needs skilled labour



- Heavy steel sections are difficult to handle and erect



- Requires painting to protect steel from corrosion
- Higher maintenance cost



- Cutting of structural members at site
- Higher hidden cost on wastage

## PEB-Lite™ solution



- Nut and bolt system, safe to erect
- Easy and quick to install
- No special skill required for installation



- Light-weight; easy to handle and erect



- No painting required
- Galvanised structural members last longer



- All structural members are pre-cut
- Ready to install members delivered directly to site



## Structural Members

CEE-plus™ and ZED-plus™ sections for column, rafter, purlin and girts, manufactured from high strength galvanised steel with 275 g/m<sup>2</sup> zinc coating conforming to AS1397.

## Cladding

LYSAGHT® Roof and Wall Cladding, manufactured from high strength ZINCALUME® steel, a Zinc - Aluminium alloy coated steel which complies with AS1397, G550, AZ150 (550 MPa minimum yield strength, 150 gm/m<sup>2</sup> min. coating mass) or pre-painted COLORBOND® steel, manufactured in accordance with AS/NZS 2728 type 3-4.

## Flashings and Trims

All flashings and trims are manufactured from ZINCALUME® steel or COLORBOND® steel.

## Translucent Sheet

UV coated high strength Ampelite translucent sheet with nominal 1.5 mm glass fibre reinforced polyester.

## Louvres

LYSAGHT LOUVREMAX™ manufactured from high strength ZINCALUME® steel or COLORBOND® steel.

## Fasteners

Special fasteners for external applications designed to match the performance qualities of ZINCALUME® steel and COLORBOND® steel and conforming to AS 3566 Class 3.

## Insulation (optional)

As per industry standards.

### LYSAGHT® Roof and Wall Cladding Profiles

Profile	Roof	Wall
 <p>TRIMDEK® 1015</p> <p>Pierce Fixed System</p>	✓	✓
 <p>SPANDEK® 935</p> <p>Pierce Fixed System</p>	✓	✓
 <p>CUSTOM ORB® 990</p> <p>Pierce Fixed System</p>	✓	✓
 <p>FLEXICLAD® 1110</p> <p>Pierce Fixed System</p>		✓
 <p>PANELRIB® 1110</p> <p>Pierce Fixed System</p>		✓



## Design Advantages

- Light-weight
- High Strength
- Aesthetically Pleasing
- Overall Cost Savings
- Longevity
- Quick and Easy to Install
- Quick and Easy to Relocate
- Easy to extend in length

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