

BLUA

BUILDING SOLUTIONS



**MANUFACTURE OF
PRE ENGINEERED BUILDING**



BLUA BUILDING SOLUTIONS

About Us

BLUA Building Solutions specializes in the design, manufacturing, and installation of Pre-Engineered Buildings (PEB) and Structural Steel projects. Our company was founded by a team of seasoned professionals with extensive experience in business development, project management, execution, and customer relationship management.

Driven by the growing demand for Pre-Engineered Buildings in India, **BLUA Building Solutions** emerged to provide comprehensive, end-to-end solutions for all building needs. Our mission goes beyond merely supplying buildings; we leverage our expertise at every stage of the project—right from concept and planning to design, detailing, manufacturing, and execution. We aim to deliver economical, high-quality, and superfast building solutions tailored to meet our clients' unique requirements.

Vision

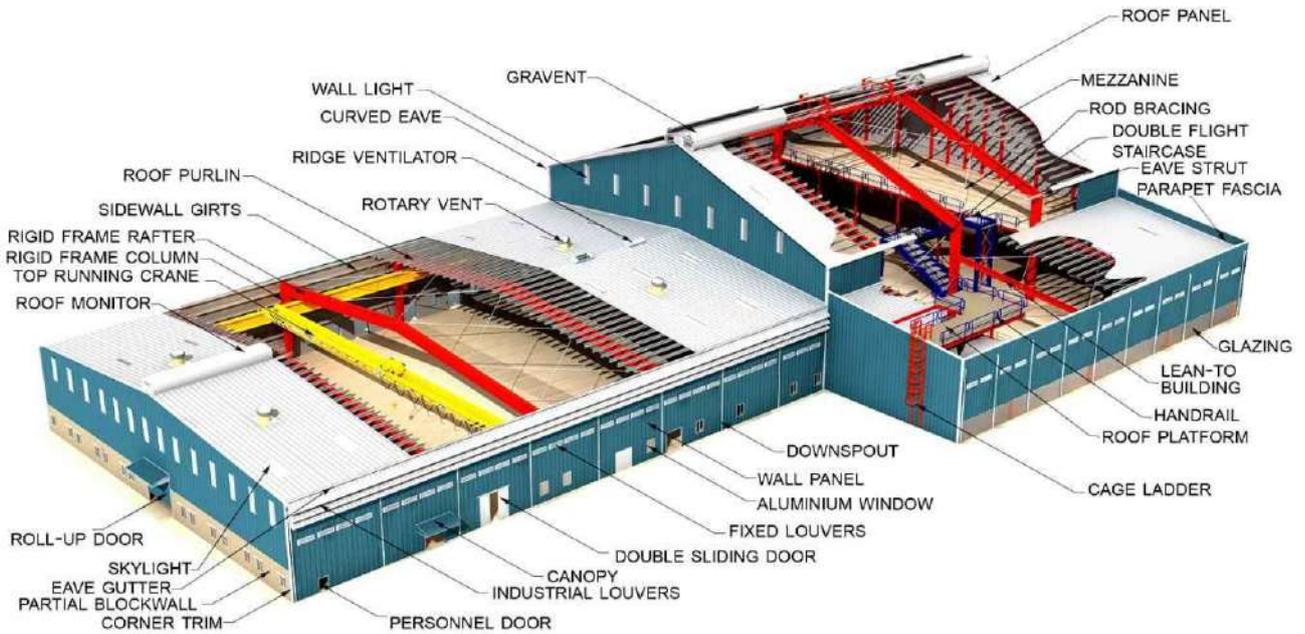
To be the most reliable solution provider in the field of Pre-Engineered Buildings and Structural Steel Projects.

Mission

Our mission is to provide complete end to end solution to clients for their steel building requirements and enrich them with the experience at our services with utmost satisfaction.



BLUA Building Solutions



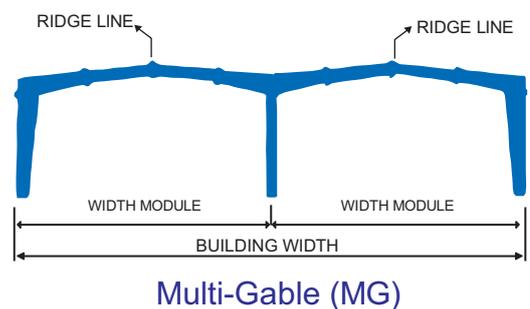
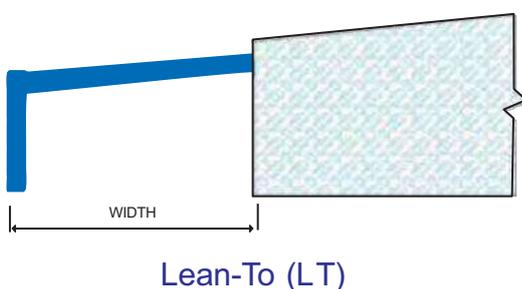
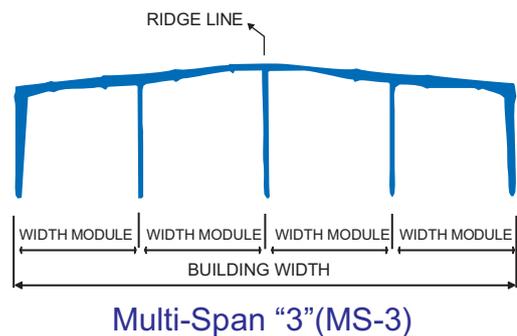
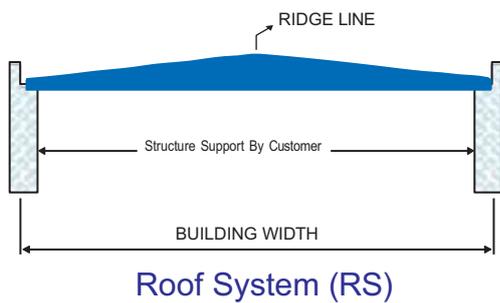
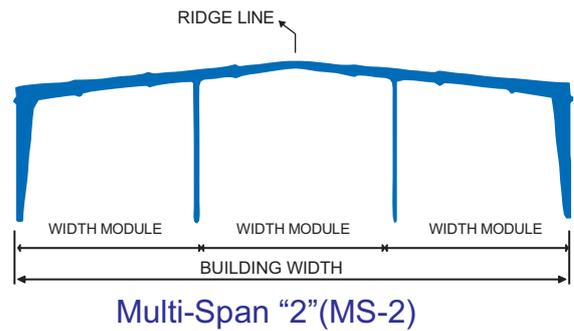
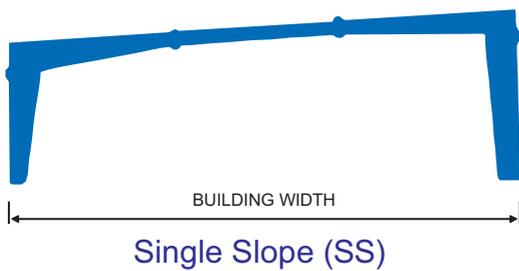
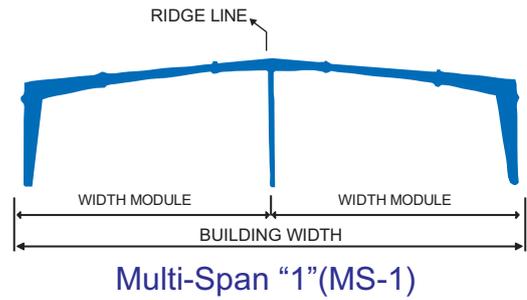
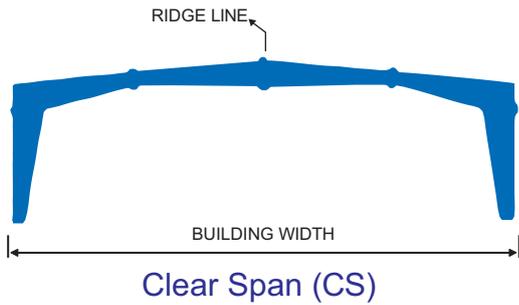
We follows codes set in the manuals by -



American Welding Society

PRIMARY FRAMING SYSTEMS

Blua Buildings Solutions are optimized to meet specific requirements of each client. The most common primary framing systems are shown below. All frames shown are symmetrical about the ridge line. Framing systems asymmetrical about the ridge line and Multi-Span systems with unequal width modules are possible, but require special study. Practically any frame geometry is possible.

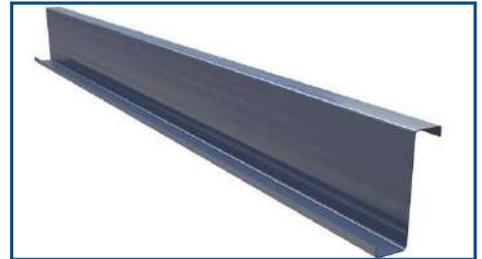


SECONDARY FRAMING

Secondary framing consists of elements which support the roof and wall sheeting and transfer load to the primary framing. These include Roof Purlins, Wall Girts and Eave Struts.

Roof Purlins

Roof purlins are cold formed Z profile, normally 200 to 250 mm deep made out of 1.6 mm to 3mm thick steel. These are fixed to the top flange of the rafters by means of clips bolted to the rafters, and purlins web bolted to the clips. Purlins ends overlap to act as continuous beams.



Wall Girts

Wall girts are cold formed Z sections, normally 200 to 250 mm deep made out of 1.6 mm to 3mm thick steel. These are fixed to the outer flange of the side wall columns by mean of clips bolted to the column and girt web bolted to the clips. Girts ends overlap to act as continuous beams.



Eave Struts

Eave Struts are C profiles, normally 200 to 250 mm deep made out of 2 mm to 3mm thick steel. These are fixed to the outer flange of the side wall columns by means of clips bolted to the column and eave strut bottom flange bolted to the clips.

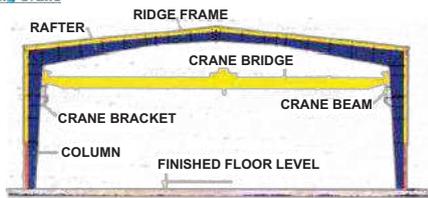


CRANES AND MEZZANINES

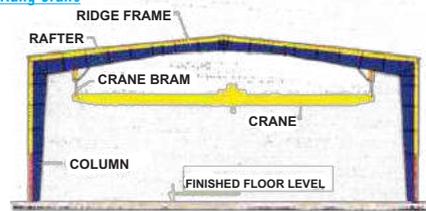
Cranes in Buildings

Blua's PEB can be designed to accept most types of crane systems such as EOT, Monorail, Under-hung cranes and other load carrying devices like conveyors etc., in both clear span and multi span buildings. When a crane system is to be integrated, Blua's scope is limited to brackets and crane runway beams which support the crane system. Complete information on the crane systems is required in order to design and estimate buildings with cranes.

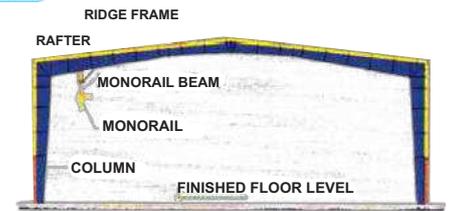
Top Running Crane



Under-Hung Crane



Monorail Crane

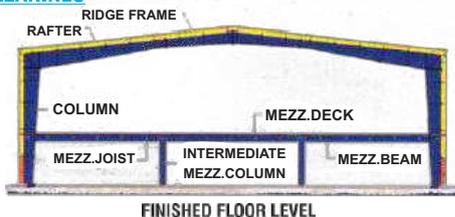


Mezzanines in Buildings

Intermediate mezzanine floors are possible in metal building, mezzanine can be provided in complete or partial area in PEB to suit loading requirement for office or storage. Mezzanine floors consist of Chequered Plate or Galvanized Decking Sheet, supported by joists connected to main mezzanine beams. Main beams normally run across the width of building and are located under main rafters while joists run parallel to length of building. Top flange of joists fit immediately below the top flange of mezzanine beam. A reinforced concrete slab (not supplied by Blua's) is casted on top of Galvanized decking sheet.

(Consult Blua for advice on the most economical mezzanine design).

MEZZANINES



HI-RIB ROOF AND WALL CLADDING SYSTEMS

Hi-Rib Roofing and Cladding systems are metal sheets with corrugation, corrugation gives high strength to the sheets. Our sheets are light weight which gives 1000 mm wide coverage with 30 mm rib depth at 200-250 mm c/c with two/three stiffener ribs which makes it the strongest profile in its category.

Features

- ▶ Blua Hi Rib sheets are a combination of both high strength and corrosion resistance with least maintenance cost.
- ▶ Easy and Faster to install, thereby cutting down project time.
- ▶ Lesser weight, thereby putting lesser load on structure.
- ▶ Weather Proof.
- ▶ Aesthetically pleasing.
- ▶ Eco-friendly.
- ▶ Better Scrap value.

Base Material – There are basically two types of material – Galvalume and Galvanized steel.

Galvalume : Galvalume high tensile cold rolled steel as per AS:1397, coating class AZ 150 (min 150gsm/m² zinc – aluminium alloy coating mass, total of both sides), 550 MPa/300 MPa yield strength. The alloy coating comprises of 55% aluminium, 43.5% Zinc and 1.5% silicon. Available in bare finish and colour coated finish with sheet thickness between 0.47mm to 0.60mm.

Galvanized Steel : Galvanized cold rolled steel as per IS:277, coating class Z 120 (min 120gsm/m² zinc coating mass, total of both sides), 240 MPa yield strength. Available in colour coated finish.

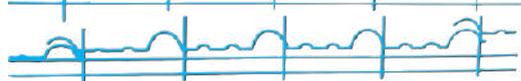
(Consult Blua for any non-standard thickness/colour/yield strength - will be made available on demand.)

Fixing Procedure – The sheets shall be fixed over the purlins/Girts with Zylon coated hex head self drilling fasteners with integrated neoprene/EPDM washers.

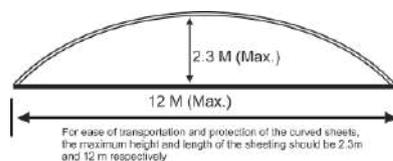
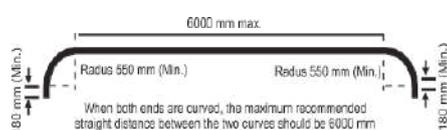
For Roof Sheeting



For Wall Cladding



Blua Hi-Rib sheet is also available in **Crimped Curved Shape**. It can be used to give building a unique aesthetic look.



-Bring new Design to buildings

-Reduction of many flashings/capping.



Hi-Rib Roofing Sheet



Wall Cladding Sheet



Bare Galvalume Sheet



Color coated Galvanized Sheet

FURTHER OPTIONS FOR ROOF PANELS

We offer three more options for profile sheet i.e Klippon sheet, Standing seam sheet and Mangalorean Tile.

Klippon Sheet

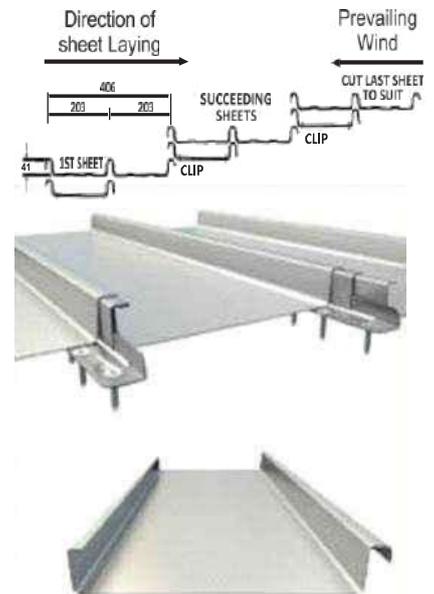
Klippon sheet is designed to be fastened to the roof purlin with fixing clips which are concealed during fixing and do not require any fastening holes through the steel sheet. The clips for fastening klippon requires only two fasteners per clips. The two fasteners are inserted only through the two punched holes. Four dimples are also provided in the clips but these are for auxiliary fasteners only. All the ribs are clipped on and are interlocked. Klippon sheets are ideally suited for region which receive heavy rainfall and can be used on slopes as low as 1:20.

Standing Seam

The panels are joined and sealed together by a portable electric seamer. This roof system is attached to the building with unique clip arrangement. The sheets are custom rolled to any transportable length max upto 12Mtrs. However, our specialized service of on-site roll forming enables single length upto 100Mtrs long without end laps, therefore on most jobs you can have single sheet from ridge to eaves resulting into zero laps. It's recommended for roof slopes upto 1:50.

Mangalorean Roof Sheet

Also known as "Khaprail" sheet in Hindi. These sheets are aesthetically attractive, Light weight, strong and durable.

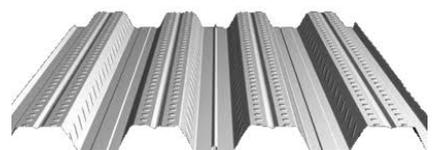
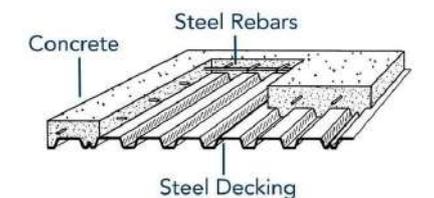


PARAMETER	DIMENSIONS
DEPTH	28 MM
PITCH C/C	177.5 MM
SUPPLIED WIDTH	987.5 MM
COVERED WIDTH	887.5 MM
AVAILABLE LENGTH	AS PER CLIENT REQUIREMENT
THICKNESS	0.40 - 0.60 MM

Decking Sheet For Mezzanine Floor

Decking Profile is used as a composite floor system and is easy to install, which makes its preferred choice. It gives a immediate access to a working platform.

PARAMETER	DIMENSIONS	DIMENSIONS
DEPTH	44 MM	51 MM
PITCH C/C	130 MM	230 MM
SUPPLIED WIDTH	960 MM	970 MM
COVERED WIDTH	910 MM	925 MM
LENGTH	MAX 12 MTRS	MAX 12 MTRS
THICKNESS	0.60 - 2 MM	0.60 - 2 MM



INSULATED ROOF AND WALL CLADDING

Heating or cooling is one of the largest operating expense in a building. That is why it is important that each building has good thermal insulation adapted for the usage of the building. We offer Glasswool roll insulation with foil scrim kraft (FSK) or white metalized scrim kraft vapour barrier, Bubble insulation, XLPE, Rockwool slabs and Puf Panels.

Blua's Insulated roofing and wall cladding are individually designed for each project and adopted to the specific requirements of the customer. Single or double skin insulated roof and wall cladding represent a major breakthrough in meeting the demand for a versatile high specification system. The cost efficiency achieved makes it viable proposition for all users who require higher insulation values in term of energy efficient roof and walls.

Single Skin Insulation

Single skin insulation in metal building means insulation used underneath the sheeting as underdeck insulation. Insulation is rolled over the purlins or girts and the sheets are fixed to the secondary framing through the insulation. Only the vapour barrier is visible from inside the building.

Double Skin Insulation

Double skin insulation in metal building comprises of internal liner panels directly screwed to the secondary framing, sub-girts screwed through spacer blocks and liner sheets to the purlins below. Glasswool roll insulation/Rockwool slabs is laid over the sub-girt and finally the outer panel is screwed to the sub-girt through the insulation. Double skin wall cladding comprises of an internal liner screwed to the inside face of girt and external sheet is fixed with insulation on the outside of building.

Puf Panels

PUF Panels are lightweight, durable and energy efficient panels. They are suitable for many different applications. They are used in commercial / industrial buildings, warehouses, cold storage, clean room, telecom shelters, labor hutment, ripening chamber, porta cabin, security cabins, site offices, prefab toilets and prefab structures. They are just perfect for roofing and wall cladding purposes. PUF Panels have many benefits including energy savings, better thermal insulation, high load-bearing capacity, durability, weatherproof, resistant to corrosion and physical impact etc. Also, they offer easy installation and flexible design options.

We offer wide range of thickness of panels as below –

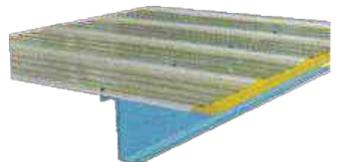
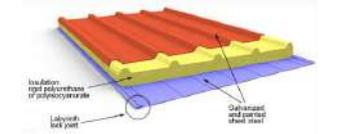
Roof Panels - 30 mm, 40 mm, 50 mm, 60 mm, 80 mm, 100 mm, 120 mm, 150 mm.

Wall / Ceiling Panels– 40mm, 50mm, 60mm, 80mm, 100mm, 120mm, 150mm.

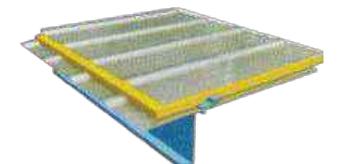
These Panels comes with density of PUF in the range of 38 Kg/ M3 to 44 Kg/ M3 and most common used density is 40kg/m3.

Items usually used either side of Puf are -PPGI sheet , SS sheet, Al. sheet, Craft Paper, Al. Foil. Client has a choice they can make any combination as per his requirement. we can totally customized as per client needs. Most common is PPGI/PPGI.

Commonly used PPGI Sheet Thickness : 0.40 mm, 0.45mm and 0.50mm (Higher Puf density & better sheet thickness will be provided on demand).



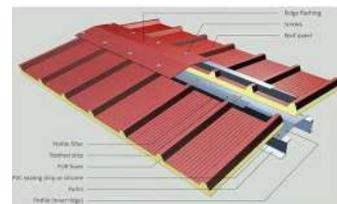
Single Skin Insulated Roof



Double Skin Insulated Roof



Double Skin Insulated Wall



ACCESSORIES



TURBO-VENTS



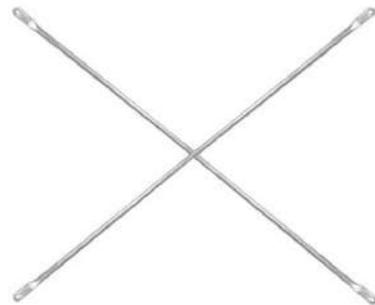
POLYCARBONATE SHEETS



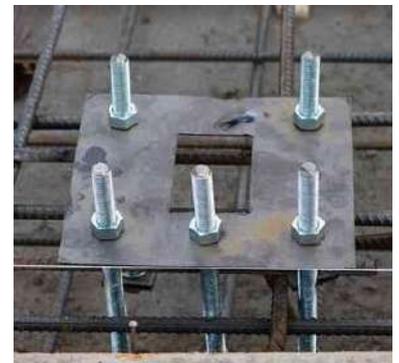
UNDERDECK INSULATION



ROOF MONITOR



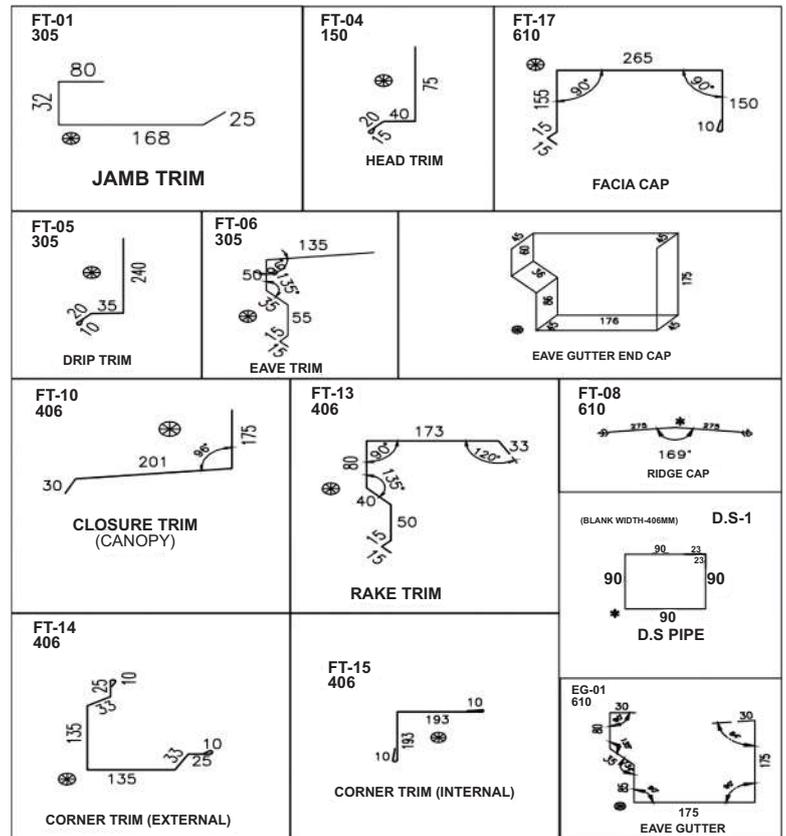
ROD BRACING



ANCHOR BOLT



RIDGE VENTS



LOUVERS

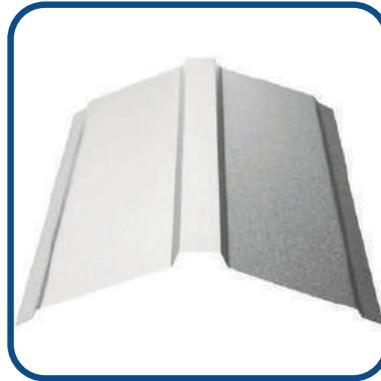
STANDARD FLASHINGS AND TRIMS

Sheeting Accessories



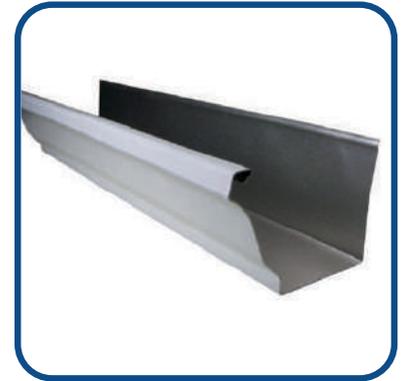
Downtake Pipes

Downtake pipes are used to transport the water down, directly from the roof or from the gutters, to the storage tank. The Gutters offer least resistance and result in optimum flow. Their wider mouth reduces wastage of water by splashing.



Ridge Cap

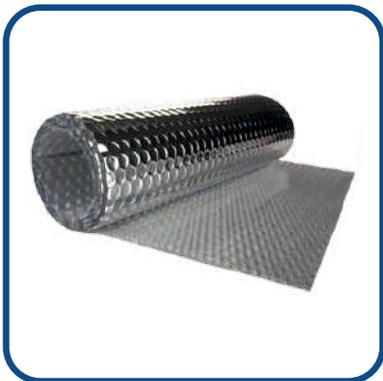
Ridge Cap, a material or covering applied over the ridge of a roof, that covers the ridge and overlaps the intersecting field roofing.



Gutter

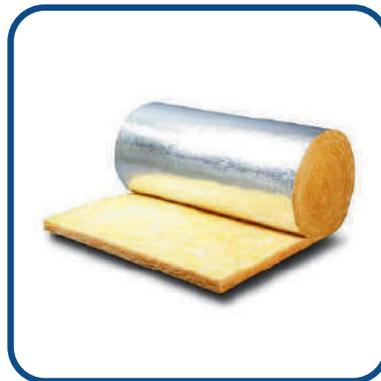
Gutter is a cold-formed "CHANNEL-SHAPED" member designed to carry water from the roof of the building to the downspouts.

Insulation



Air Bubble

Reflective air bubble insulation reflects heat and almost 97 percent of radiant heat rays to keep the inner atmosphere at stable temperature. Application of polyethylene bubble insulation includes similar to fiberglass application and such material can be used in both hot and cold climates.



Glass Wool

Glass Wool is an insulating material made from fibers of glass arranged using a binder into a texture similar to wool. The process traps many small pockets of air between the glass, and these small air pockets result in high thermal insulation properties.



Rock Wool

Mineral Wool is any fibrous material formed by spinning or drawing molten mineral or rock materials such as slag and ceramics Applications of mineral wool include thermal insulation, Filtration and plays vital role in fire resistance to the building.



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