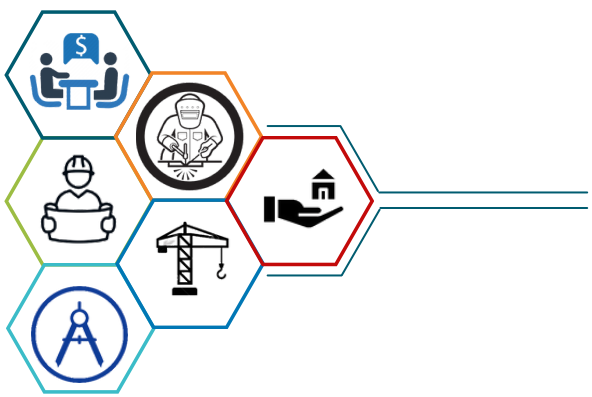
Delta Infrastructures

SOURCE FOR STEEL BUILDINGS



#101, Vertex Fairmount, Beside Domino's Manipal County Road,
Singasandra, Bangalore, 560068.

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phone : (080) - 6716 6964 sales@deltainfrastructures.com

CORPORATE OFFICE : HYDERABAD

BRANCH OFFICES : BANGALORE | CHENNAI | KURNOOL
FACTORY : DODBALLAPURA

Every groundbreaking idea is formed out of the willingness - to think differently, to go beyond. Every action is born out of a skill we all possess -imagination.

Delta Infrastructures undertake all types of steel designing projects and work with clients from a project's conceptual stage to its estimation and costing and to final stages of analysis and design and drawings for project execution. Our skilled, dedicated, and trained structural design engineers with expertise in STAAD Pro V8i to work on your projects which are detailed on X-Steel 3D software, and complete fabrication drawings along with design and building analysis reports are generated for each building.

Vision

To be a leader in innovative and most reliable manufacturer,service and solution provider iin the steel industry by leveraging our engineering expertise.

Mission

To supply high-quality steel products, providing related services and solutions to client base while utilizing innovative technologies within an environment of motivated employees, focused on continuous improvement, highest business standards, value for our customers and sustained return on investment to our shareholders.

HIGH PERFORMANCE PRE- ENGINEERING BUILDINGS.

Delta's Pre-Engineered Building System Value. Strength. Flexibility We excel to innate, and pioneering, a way of life.

We are engaged in the design, manufacture, supply and installation of pre-engineered steel buildings & building components for industries, warehouses, commercial centres.

From planning to occupancy, nothing matches Delta Infrastructures Pre-Engineered Building System in terms of versatility, flexibility and total value-engineering.

Our Pre-Engineered Building System, strength, value, and style — are custom-built into every project. Our engineers work diligently to provide accurate calculations that are completely explained and referenced. They strive for comprehensiveness and clarity, mindful that their work must be easily understood by consultants at locations around the world.

Other distinct advantages include quick construction time and capacity for design flexibility – allowing our engineers to create a unique, and attractive appearance that fits the distinctive business image of each customer.

- The steel work frame is machine fabricated, thereby ensuring high dimensional accuracy. This reduces the potential need for rectification.
- Steel's excellent strength-to-weight qualities result in smaller foundations, which save construction time.
- Prefabricated elements are ready for immediate erection upon arrival at site, with no subsequent delays (for curing for example) this means that following trades can start work as soon as connections are made.
- Confidence in frame accuracy means reliance can be placed on worked planned in advance.
- A qualified and permanently employed workforce both in fabrication shops and on site increases confidence and reliability.

MEET & EXCEED QUALITY AND DESIGN STANDARDS.

People:
Delta Infrastructures has a diligent team and been actualised by a strong management and a fully motivated and focused team of forward-thinking professionals who excel in their line of activity. Their individual strengths and varied skill-sets have greatly benefited the Company in strategically structuring its way to the top. The team has been carefully chosen to outperform in all quarters.

We are expertise in understanding of complex structures, in-depth knowledge of designing pre-engineered steel buildings.

Direct interaction:
Delta's project management team directly interacts with the customers, drastically cutting down on response time, and facilitating collaborative understanding.

Research & Development:

Our R&D professionals know that innovation needs to be shared throughout the company to achieve maximum success. That's why learning is an ongoing activity throughout the organization. The Products Research & Development Department engages in continuous training programs for all technical staff, in addition to providing extensive technical training to new sales executives and engineers.

Infrastructure:
Delta's design codes and engineering software are by far, the most advanced and efficient in the industry. By adopting the latest globally-accepted procedures, the Company is aiming at achieving newer heights.

At Delta Infrastructures, we think, we imagine, we engineer things with nerves of steel. We pre-engineer to create steel structures that conform with your requirements. That's what makes us a reckoning power, a pioneering influence in the Pre-engineered Steel Building Industry in India.

Delta Infrastructures delivers end-end building solutions - for commercial, industrial, logistics, aviation, agriculture, sports stadia and other sectors - powered by technical collaborations with global leaders, to surpass customer expectations through innovation, design versatility, world-class service, high-end engineering expertise and cost-effective solutions.
multi-storied buildings, aircraft hangars, stadia etc.
Covering a wide spectrum of application areas, Delta has brought innovation, design distinction, international expertise and above all, global quality to every customer who aspires for technological and structural superiority.
Delta infrastructures has had an industry-dominating presence in the manufacture of new-age steel products for the infrastructure, construction, pollution control and automotive sectors.
Delta Infrastructures has evolved into a multi-faceted, multi-location enterprise. Today, its business verticals include Engineering components and Pre-engineered buildings .

Rich Culture for new ideas and innovations

Delta Infrastructures delivers end-end building solutions - for commercial, industrial, logistics, aviation, agriculture, sports stadia and other sectors - powered by technical collaborations with global leaders, to surpass customer expectations through ideas ,innovation, design versatility, world-class service, high-end engineering expertise and cost-effective solutions.

PROJECT EXCELLENCE IS OUR TOP PRIORITY.

Delta's Pre-Engineered Buildings are simple and economical in design, yet fully functional and diverse in purpose. When it comes to innovations in engineering, Delta sets the standard for other PEB companies. The entire engineering/detailing process is 100% computerized.

The talented group of engineers and architects that makes up our R&D Department work within a culture that fosters idea generation and perfection to the fullest. The end result is a consistent flow of design, process and product innovations.

Our Pre-Engineered Buildings, can be certain that your project will benefit from the dedicated efforts of our Product Research and Development Department.

ENGINEERING EXCELLENCE.

Engineered for Value

Delta is focusing its energies on increasing the utility of the buildings
and reducing costs by the application of optimized design technology.

Armed with advanced engineering capabilities, the Company ensures spotless clarity and delivery that fits the brief - from concept to creation.

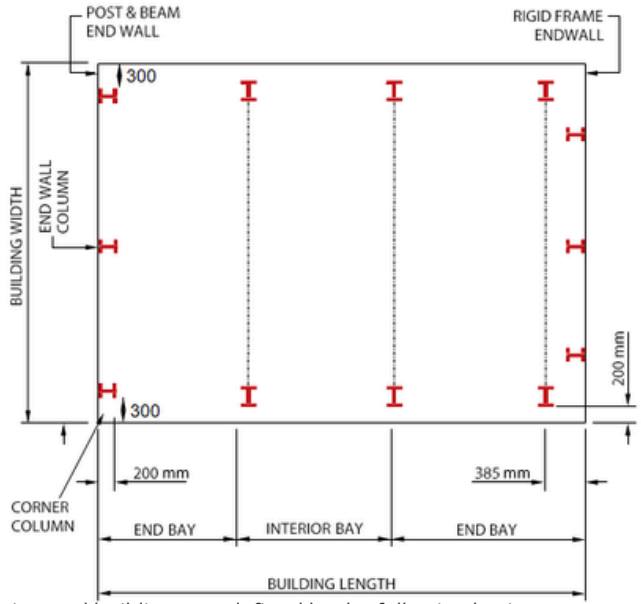
The primary function of the Engineering Department is to give a finite shape to the client's wish list by:

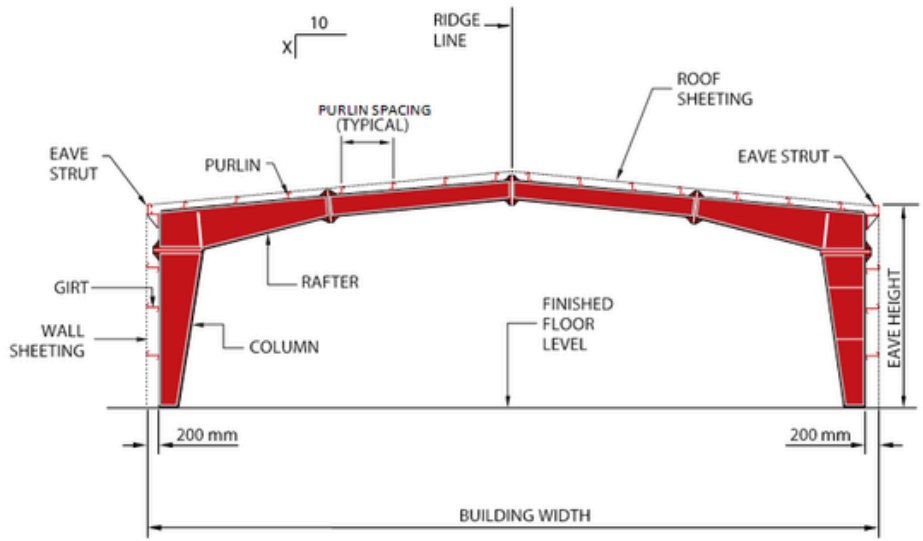
- Finalizing the building specifications as per requirements
- Evaluating and developing solutions and presenting the best possible options
- Continuously interacting with the client, providing in-house technical consultancy to ensure an optimum building design solution
- Proposing flexible options that are easy to expand, easy to set up and change
- Finalizing the building design

Design Philosophy

At Delta, designs are up-to-the-minute - aesthetically and environmentally.
They are created keeping in mind both Indian and International design codes. Traditionally, all PEB designs follow US design codes as the concept was originally formulated there. These codes, thanks to incessant research-based upgradations, are acknowledged to be the most comprehensive and technically advanced in the world, and offer an intelligent blend of design strength and product cost. Delta can also offer buildings designed to IS codes in addition to international codes.

DELTA'S BUILDING PARAMETERS





Pre-engineered buildings are defined by the following basic parameters: Building Width, Length, Height, Roof Slope, End Bay Length, Interior Bay Length and Design Loads.

Building Length:
Building length is the distance between the outside flanges of endwall columns in opposite endwalls. It is a combination of several bay lengths.

Building Height:
Building height is the eave height, which is usually the distance from the bottom of the main frame column base plate to the top outer point of the eave strut. When columns are recessed or elevated from the finished floor, eave height is the distance from the finished floor level to the top of the eave strut.

Building Width:
No matter what primary framing system is used, the building width is defined as the distance from outside of eave strut of one sidewall to outside of eave strut of the opposite sidewall.

Roof Slope (x/10):
This is the angle of the roof with respect to the horizontal. The most common roof slopes should not be less than 0.5/10.
Any practical roof slope is possible.

End Bay Length:
This is the distance from the outside of the outer flange of endwall columns to the center line of the first interior frame column.

Interior Bay Length:
This is the distance between the center lines of two adjacent interior main frame columns. The most common bay lengths are 6, 7.5, and 9 meters. Any bay length is possible up to 10 meters.

Design Loads:
Unless otherwise specified, Delta Infrastructures
Pre-Engineered Buildings are designed for the following minimum loads:

Roof Live Load: 0.57 kN/m2:

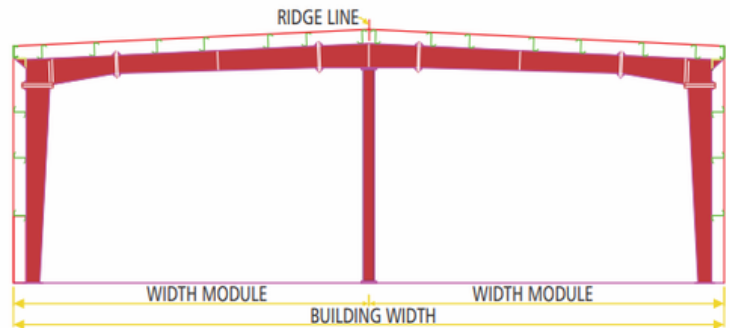
Design Wind Speed: 130 km/hr, 3 Sec Gust Design parameters of snow loads, earthquake loads, collateral loads, crane loads or any other loading condition must be specified when requesting a quotation.

Loads are applied in accordance with American codes and standards applicable to pre-engineered buildings unless otherwise requested at the time of quotation.

DELTA'S BUILDING TYPES

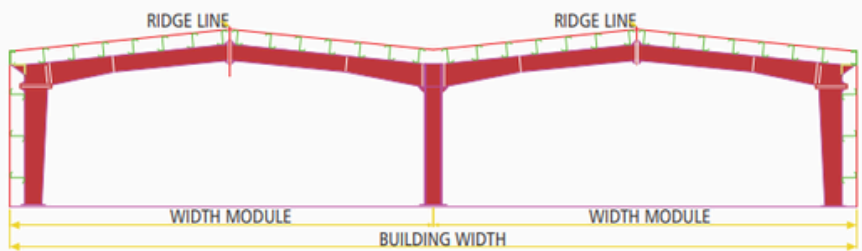
PRIMARY FRAMING SYSTEM:
At Delta no matter what primary framing system is used, we can built any type of geometric frame . Some of the most commonly used primary framing systems are featured here

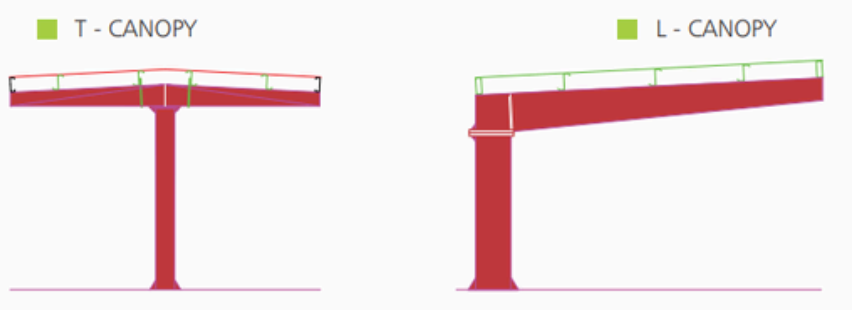
CLEAR SPAN



BEAM COLUMN - 1* (BC1)

MULTI GABLE - 2 (MG-2) - (CS+CS)**



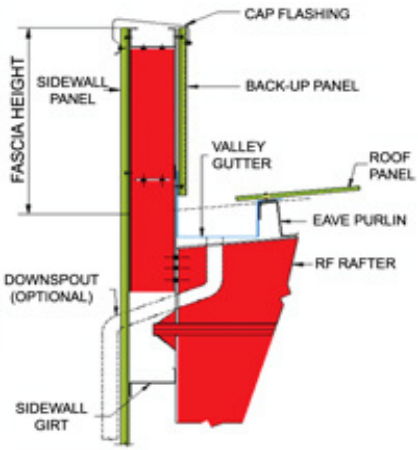


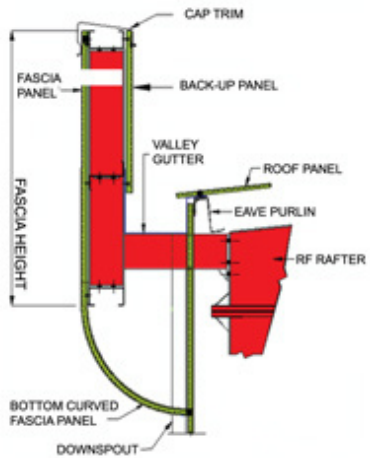
DELTA'S BUILDING ADDITIONS

FASCIA

Delta offers two types of Fascias

- Parapet / Flush
- Cantilevered with three sheeting options - straight, bottom curved and top & bottom curved

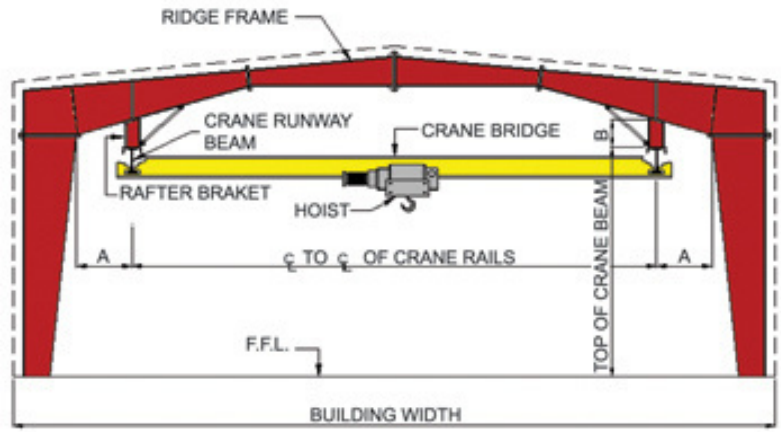




CRANE SYSTEMS

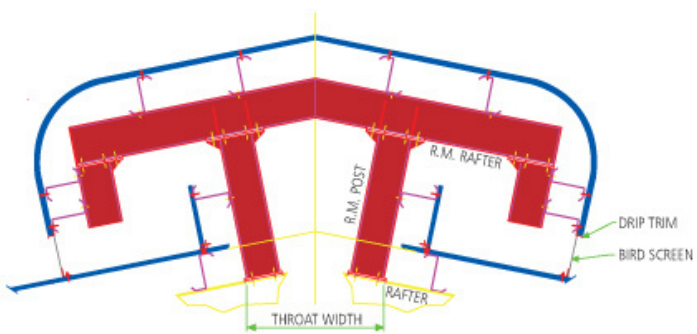
Delta designs buildings to support various crane systems, such as EOT, Monorail, Under Hung, Jib, etc.
Overhead cranes of up to 25MT are generally supported with brackets. For capacities more than 25 MT, a stepped column/independent support system is provided for Delta to provide the best and the most economical solution, the following crane data need to be assessed…

- Location of crane with travel length
- Centre to Centre distance of crane rails
- Vertical and horizontal clearances
- No. of cranes operating in a single bay
- Crane hook height
- Wheel loads
- Type of crane operations
- Wheel base and bumper distances



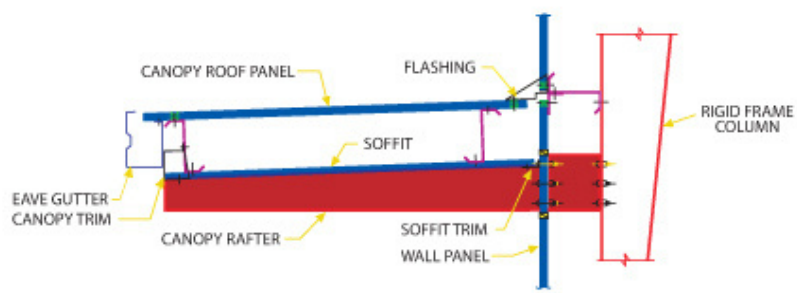
ROOF MONITOR

Delta's standard roof monitor has a throat width of 1.5 M and a height of 1.0 M, made from hot rolled sections. Panels for roof monitor will be the same as supplied for the main building unless otherwise specified. We can also supply roof monitor of varied sizes as per clients' requirements.



CANOPIES

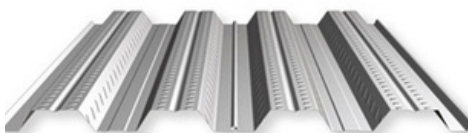
Delta's standard canopies are 1.5 M wide and can be provided at eave or any height below the eave.
If required, Soffit panels can also be provided. Rafters for canopies are made from hot rolled or built-up I sections.



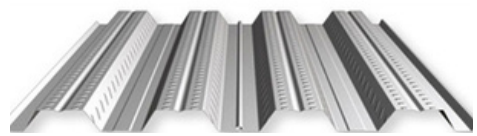
DELTA'S BUILDING COMPONENTS

SMART RIB
Cover Width: 1000 mm
Thicknesses: 26 / 24 gauge
Standard Colors: Delta's standard colours

PRIME RIB
Cover Width: 1006 mm
Thicknesses: 26 / 24 gauge
Standard Colours: Delta's standard colours



SUPER DECK 52
Cover Width: 962 mm
Thicknesses: 0.63 -1.25 mm
Standard Colours: Pre-galvanized

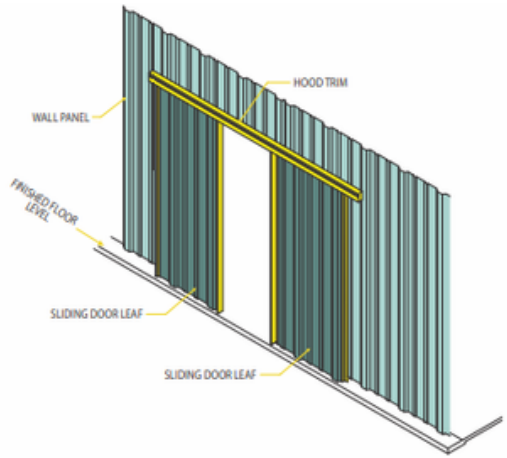


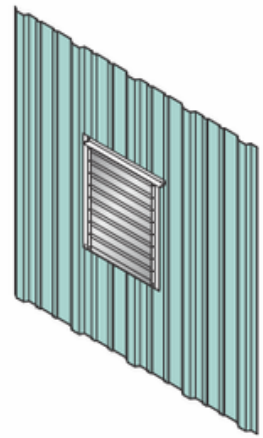
SUPER DECK 75
Cover Width: 900 mm
Thicknesses: 0.8 - 1.25 mm
Standard Colours: Pre-galvanized

COLD FORMED SECTIONS
Profile: C & Z Sections
Thicknesses: 1.5 - 3.0 mm
Standard Finish: Pre-galvanized 120 / 275 gsm.

DELTA'S BUILDING ACCESSORIES

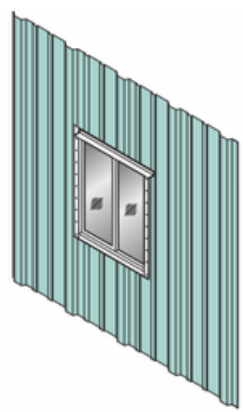
SLIDING DOORS - SINGLE LEAF OR DOUBLE LEAF
Delta's standard double/single sliding doors are of size 4.0 X 4.0 M. We are also equipped to offer any size up to 8.0 X 6.0 M as per customers' requirements.



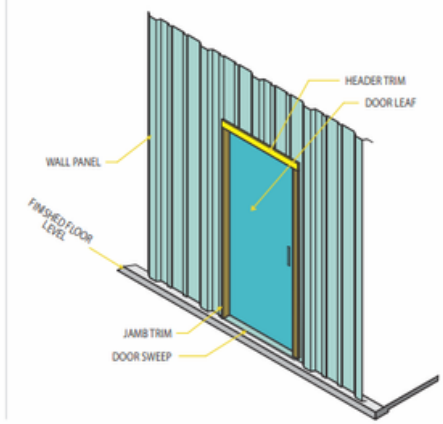


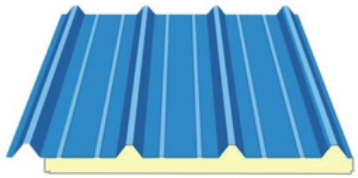
LOUVERS
Delta's standard louvers are 2.0 M long X 0.60 M wide in size. Non-standard sizes can also be provided on request.

WINDOWS
Delta's standard windows are of size 1.0 M X 1.0 M - in either aluminum or powder coated steel.
Non-standard sizes can also be provided on request

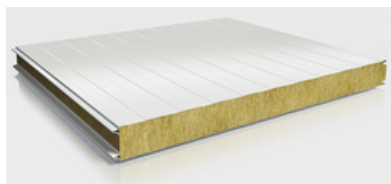


PERSONNEL DOORS
Delta's standard single/double personnel doors are of size 0.9 X 2.1 M and 1.8 X 2.1 M respectively. For factory applications, the doors are equipped with emergency push bars.





PUF ROOF PANELS
Delta's Metal-faced polyurethane sandwich panels are the system of choice today for large industrial buildings refrigerated warehouses, office blocks, exhibition halls, fair pavilions, schools, and sports halls with thickness 30mm, 50mm, 80mm & 100mm



P**UF WALL PANELS**
Delta's wall Panels are provided with Tongue & Grove joints and specially designed Cam locks to enhance airtight assembly. PUF Sandwich panels are available with pre coated GI sheets, SS sheets with thicknessess 30mm, 50mm, 80mm & 100mm

BUBBLE INSULATION
Bubble insulation is cost effective, high efficiency performance for a wide range of applications. Thermal insulation material is versatile in use for residential, commercial and agriculture such as covers the roofs, ceilings, crawl spaces, wall and attics and even utilize for packaging purposes.

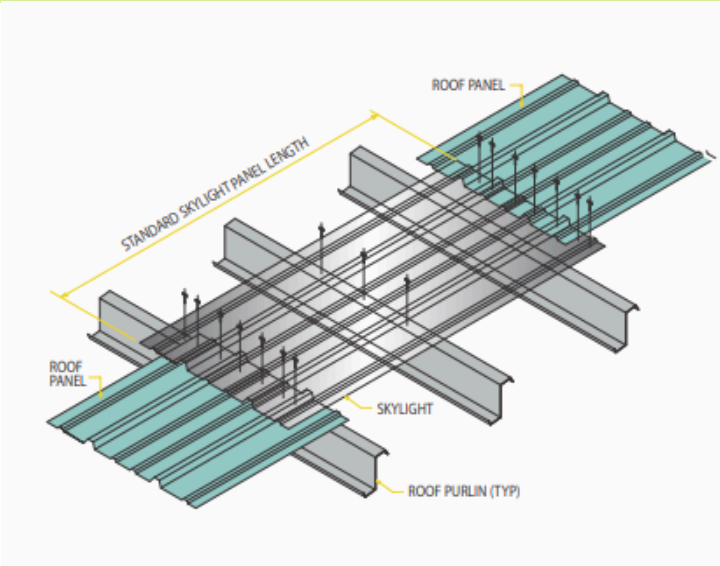
ROCKWOOL INSULATION COIL
Delta's Rockwool Roll is used mainly in pre-engineered buildings for roofs and walls to achieve excellent thermal and acoustic insulation. It can be used for both under purlin and over purlin application on the roof.

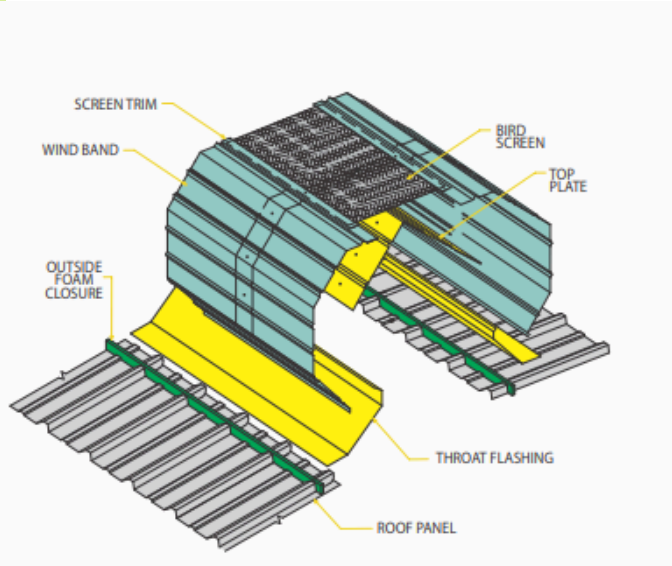
TURBO VENTILATORS
Delta's Air Ventilation System which is an ideal option to be used for maintaining optimal temperature inside the structure, and to maintain the freshness. These Air Ventilation System are easy to install on the roof of the structure, which spins in sync with the wind power.

GLASS WOOL INSULATION
Glass wool Insulation is one of the most widely used forms of insulations world-wide because of its thermal and acoustic properties, light weight, high tensile strength and exceptional resilience. Glass wool is one of the most dominant types of insulations preferred in applications with service temperatures ranging upto 250C.

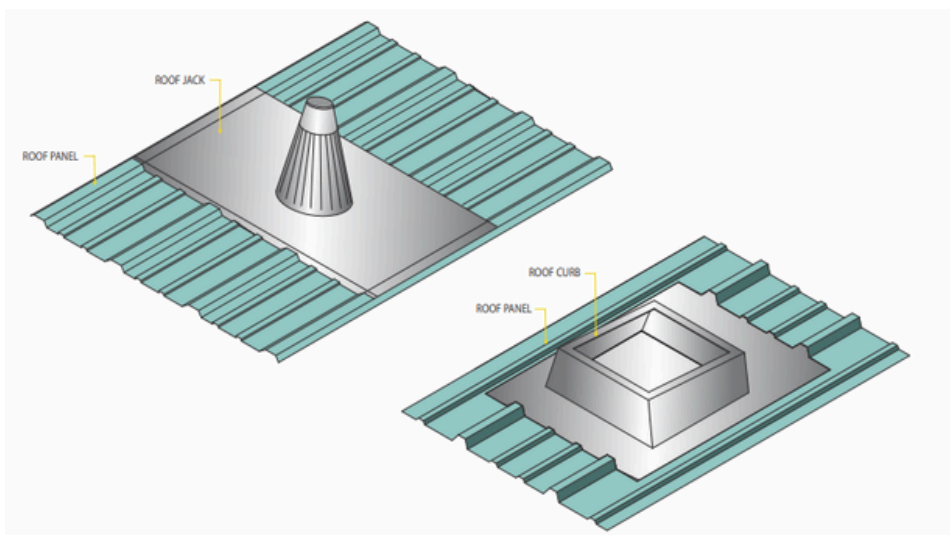
SKY LIGHTS AND WALL LIGHTS
Delta's standard sky lights/wall lights come in two variations, either in FRP or Polycarbonate of 1.5mm thickness and size 1.0 M X 3.0 M.
Non-standard lengths are also available on request.

RIDGE VENTILATORS
Delta's standard ridge ventilators are of 0.3M throat width and can be supplied either continuous or in modules of 3.0 M length.

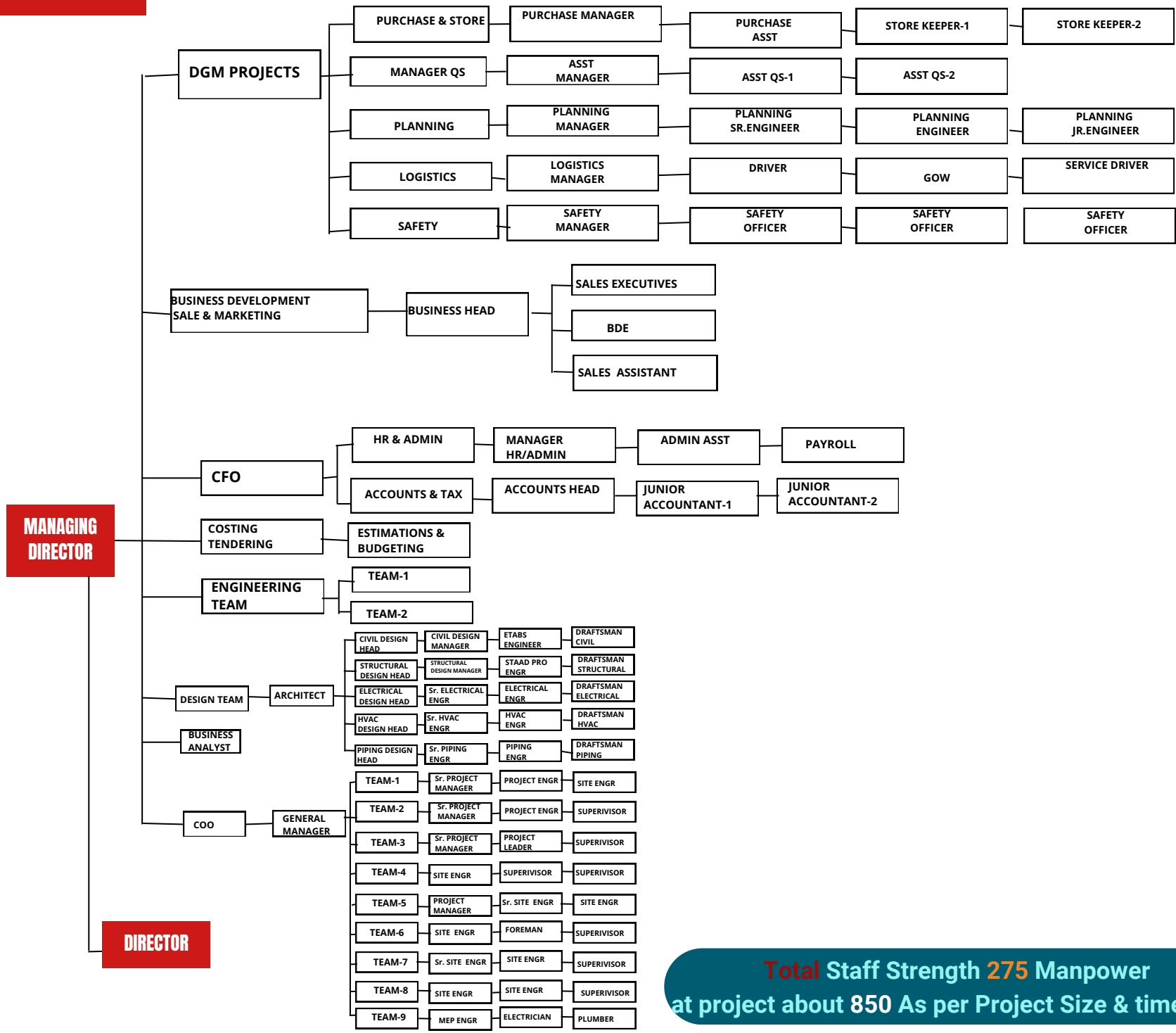




ROOF JACKS & ROOF CURBS
Roof jacks and curbs are manufactured as one-piece constructions from self-extinguishing glass fibre reinforced polyester with 3 mm thickness and polyester gel coated weathering surface on exteriors. Each unit will be white in colour and opaque to light. The base of these products will have the same configuration as of Delta's roof profiles. Roof jacks are available in opening sizes from 50 -300 mm dia and roof curbs are available in 900 mm square, and are used for fixing powered ventilators supplied by others.



STAFF STRENGTH



Total Staff Strength 275 Manpower
at project about 850 As per Project Size & time lines

QUALITY PRE-ASSURED

At Delta, quality is the key attribute around which all activities and processes are executed. We adopt a comprehensive quality plan complying with MBMA, ASTM and AWS requirements at various stages of design and manufacturing.



















APPLICATIONS

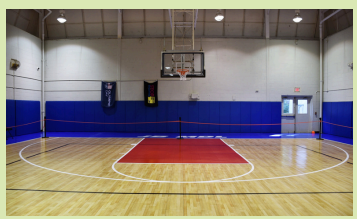
FACTORY

MULTISTOREY

WAREHOUSE

OFFICE COMPLEX

SHOWROOM



SPORTS STADIUM

COLD STORAGE

CONVENTIONAL STEEL

SOME OF OUR ESTEEMED CUSTOMERS

AKCM

Hero

molbio

Lindner

MultiElement Minerals

ESTHETE

INDIAN DESIGNS Exports Pvt. Ltd.

EKA Nasu

SRC COMPANY INFRA PVT.LTD.

V3 MOULDING PRIVATE LIMITED

VAGMI BUILD PRO PVT LTD

KIA

ideas ahead AV redefined

RAJEEV INSTITUTE OF TECHNOLOGY

ZC

Pre-Engineered Buildings

Design

Supply

Installation

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