

PRE ENGINEERED BUILDING SYSTEMS



GROUP COMPANY PROFILE

GULATI INDUSTRIAL FABRICATION (P) LTD.

Established in the year 1970, started with light fabrication jobs, now pioneer in heavy fabrication of pressure vessels, storage tanks, CO₂ generation, preservation and storage, exports to various countries in Europe, USA, Africa and Middle East.



OMEGA PEB SOLUTIONS LTD.

We are in a business of Turnkey Design, Fabrication & Erection of Pre Engineered Buildings with same level of commitment as persued by us for last 35 years.



OMEGA CONSTRUCTION EQUIPMENT

Established in the year 2005, Manufacturer of Articulated Pick & Carry Mobile Cranes and E.O.T Cranes (1 ton -150 tons). Delivered over 300 cranes in first year.



ELEMENTS OF PRE ENGINEERED BUILDING



The Strongest System

Omega provides Metal Building System to meet a variety of construction needs. Whether be a basic Steel Building or Buildings with multi-aisle cranes and mezzanine floors.

Structural System

Omega offers variety of structural systems for building with varying sizes and complexities.



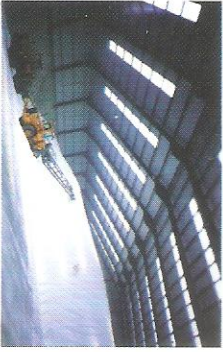
Mezzanine Systems

Space saver Mezzanine floors for various functionality like Office, Storage, Shop Floor & Assembly area.



Roof & Wall Systems

From the most basic fluted, flat or embossed system and fascia system provide design flexibility from start to finish



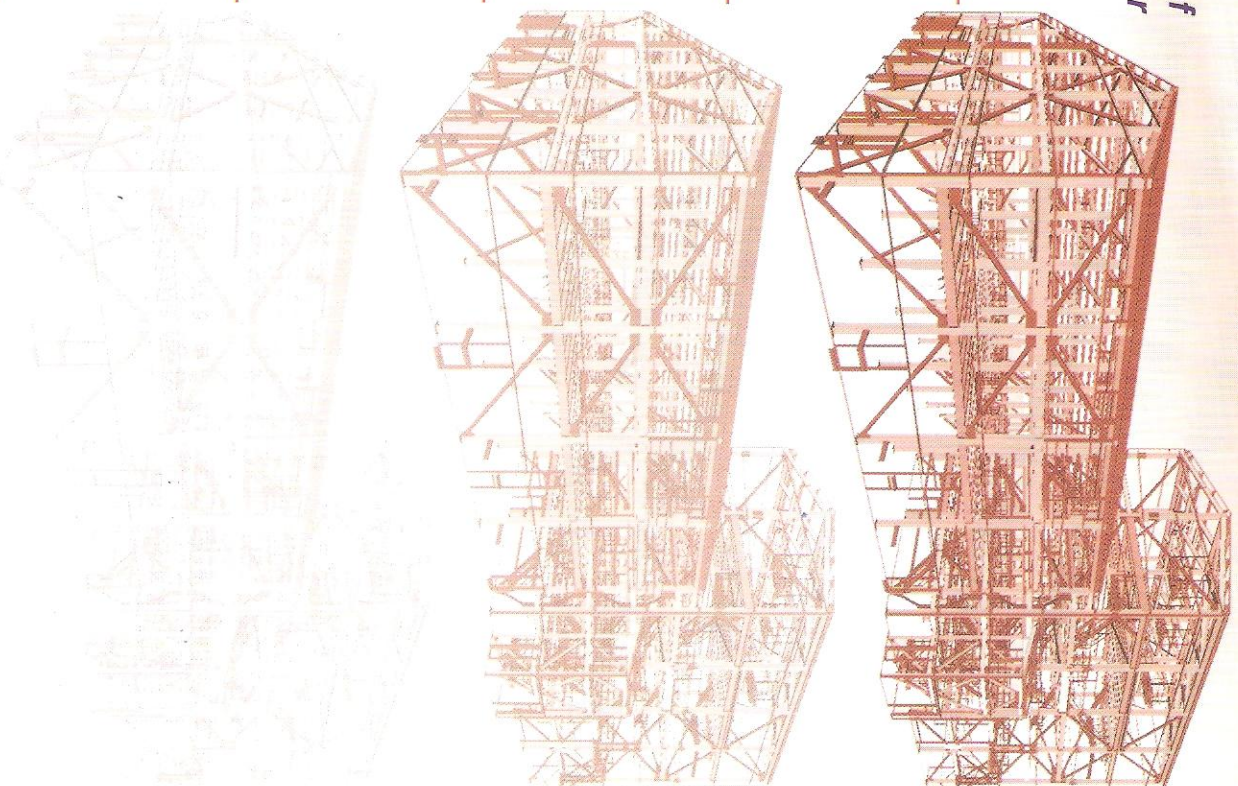
Medium Heavy Storage Space

Omega offers a variety of structures that are ideal for climate control and storage.



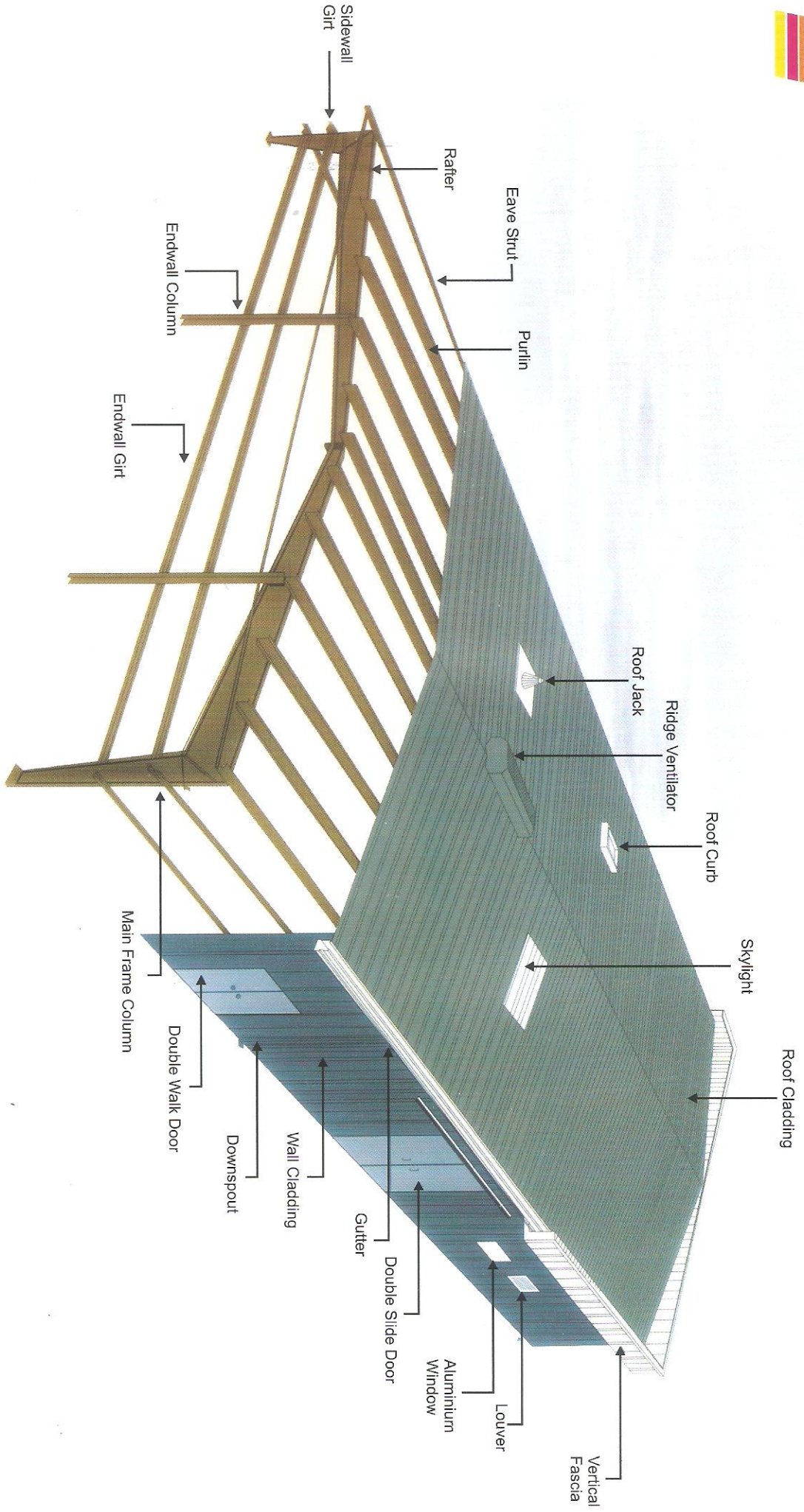
Environmental

Omega strives to meet all building challenges using Environmental Best Practices.



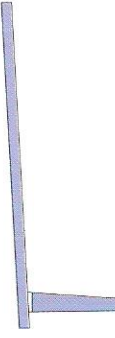



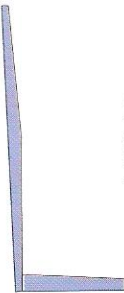



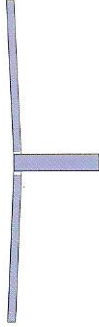
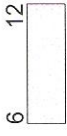






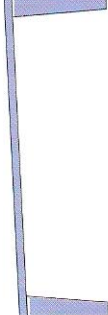

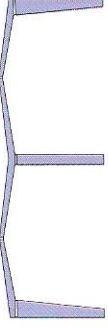



ELEMENTS OF PRE ENGINEERED BUILDING



BASIC BUILDING STRUCTURE

Suggested wide range of spans, mts. for most economical buildings.

 LEAN TO CANOPY		 RIGID FRAME CLEAR SPAN (RFCS)	
 LEAN TO		 RIGID FRAME MULTI-SPAN -1	
 BUTTERFLY CANOPY		 RIGID FRAME MULTI-SPAN -2	
 SPACE SAVER CLEAR SPAN		 RIGID FRAME MULTI-SPAN -3	
 SINGLE SLOPE CLEAR SPAN (SSCS)		 MULTI-GABLED CLEAR SPAN	

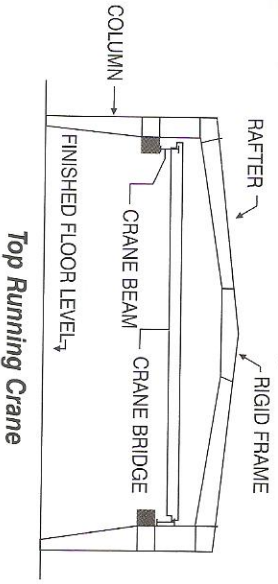
The table above is a general guideline on recommended frame types for different widths .
 OMEGA custom-designs each order to the specified type, width, height, bay spacing, loading and other Building parameters to Customers' Consultants requirements and IS-Codal provisions with inputs from AISC (American Institute for Steel Construction.)

Standard Eave height : 3M-8M
 Std bay spacing : 6M / 7.5M / 9M / 10M
 Standard Loadings : Live load Roof : 0.75 KN / M² (As per IS 875-1984)
 Wind load : As per wind speed specified in IS 875 Part -III
 Seismic load : As per IS 1893 Part -2002

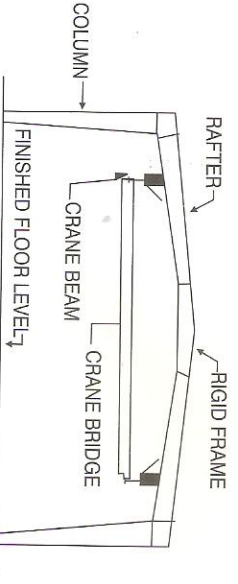


OVERHEAD CRANES & MEZZANINES

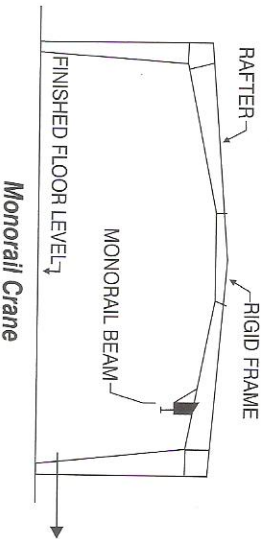
CRANES IN BUILDING SYSTEM
 OMEGA PEB Solutions are engineered to handle all types of Crane Systems such as EOT, Monorail and Conveyors in both clear span and multi span buildings.



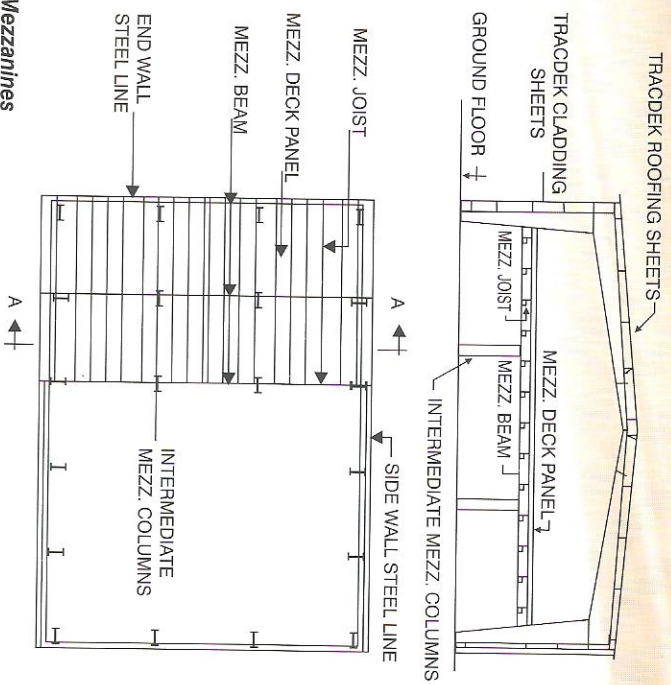
Top Running Crane



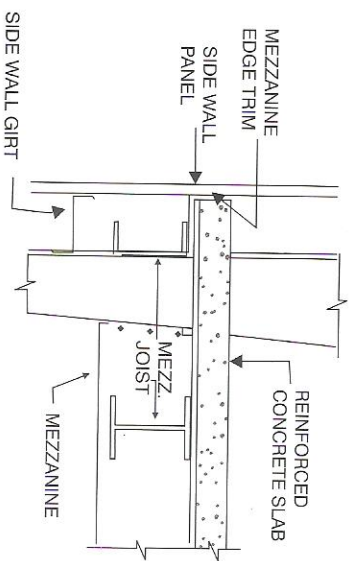
Underhung Crane



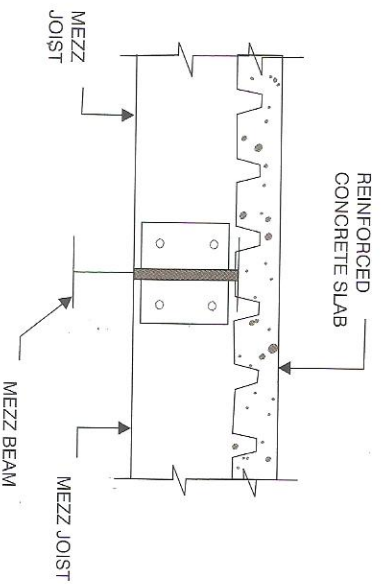
Monorail Crane



Mezzanines



Mezz. Beam Connection To Mainframe Column



Mezz. Beam Connection To Mezz. Beam

MEZZANINES FLOOR SYSTEMS IN BUILDING

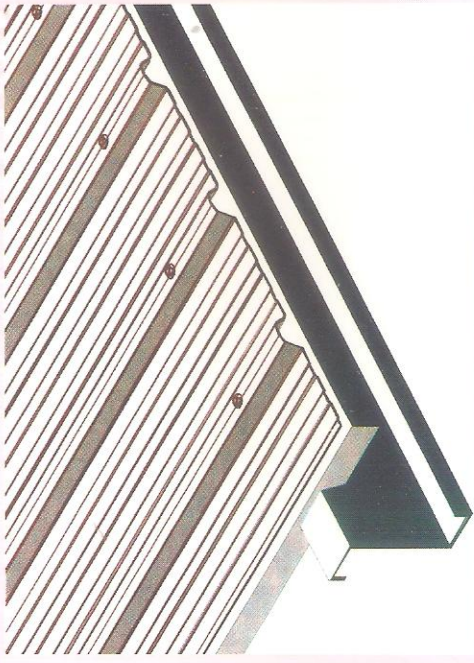
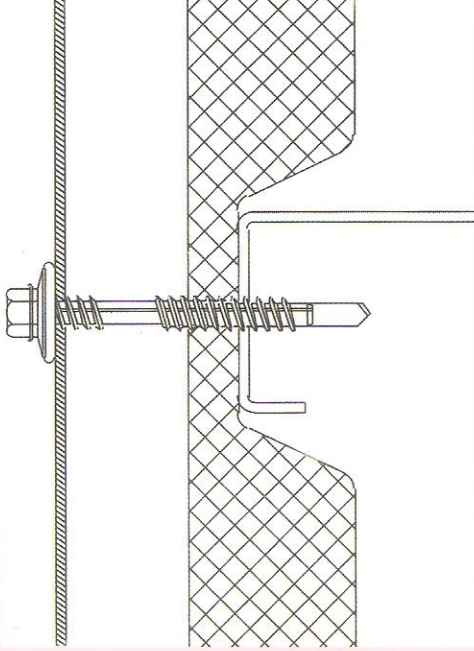
Column beam joists system to Support, Decking sheet / RCC Slabs / Chequered plates/ carrying loads varying from 2.5KN/M² to 15 KN/M² for Office space, Storages, Assembly area etc.

INSULATION FOR ROOF & WALL CLADDING

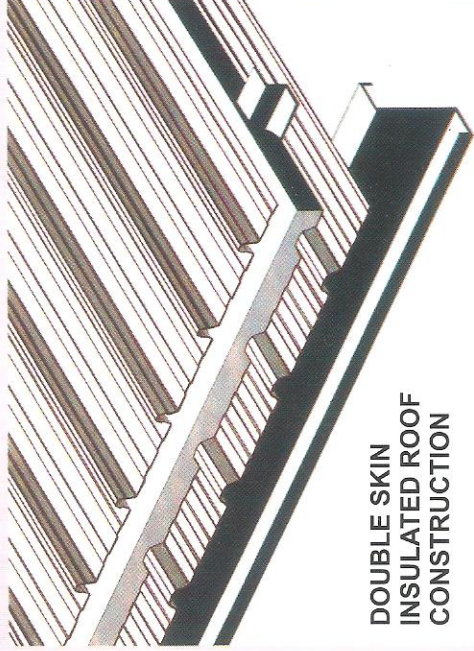
Wherever the Building needs controlled temperature irrespective of varied Ambient Conditions, Omega offers Metal Building Insulations.

Each Roofing and Wall cladding are individually designed for each project . Normally Single and Double Skin Insulation are widely accepted insulation systems.

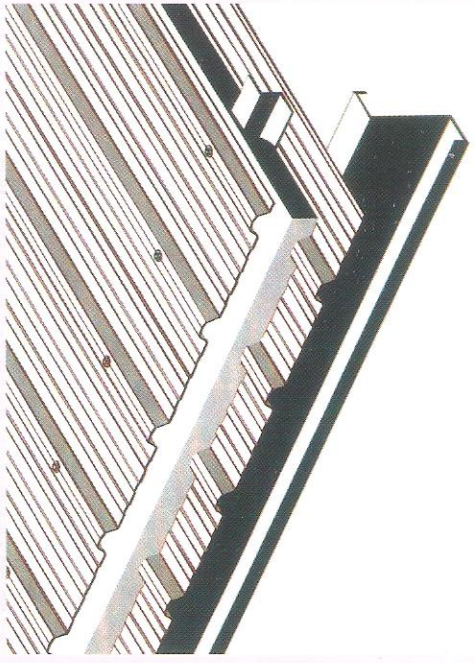
SINGLE SKIN INSULATION



DOUBLE SKIN INSULATION



DOUBLE SKIN INSULATED ROOF CONSTRUCTION





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