



An ISO 9001:2008 certified Pre-Engineered Steel Building Company

Design, Manufacture & Erection of :
• Pre-Engineered Steel Buildings
• Profile Sheets • Z-Purlins • Accessories

PEB

PRE-ENGINEERED STEEL BUILDING



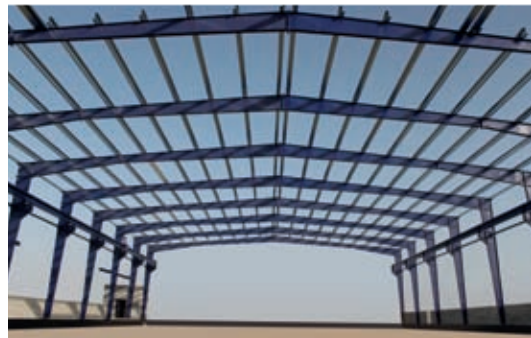
We Provide
Solutions

www.nwewllc.com

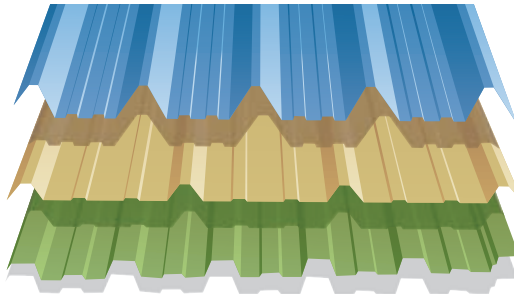


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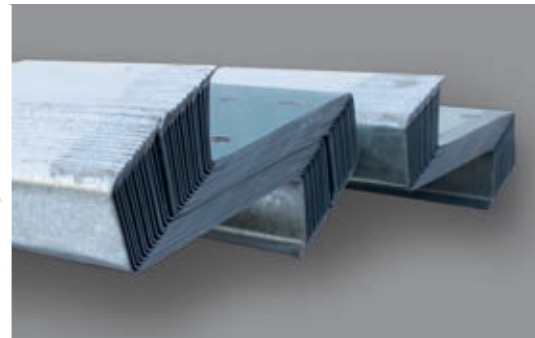
Design, Manufacture & Erection of:



Pre-Engineered Steel Buildings



Profile Sheets



Purlins

PEB

PRE-ENGINEERED STEEL BUILDING

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We Provide
Solutions



“Our vision is to provide utmost professional services in Engineering, Production, Quality Assurance & Project Management of Pre-engineered Steel Buildings to assure customer satisfaction.”

“We being a local PEB company in the Sultanate of Oman, continuously strive to exceed our customer’s expectations.

We deliver Pre-engineered buildings, solutions and services that are optimum to meet our customer’s requirements. ”



About us



North West Engineering LLC was established in 1994 in the Sultanate of Oman. We have been accredited with ISO 9001:2008 for Design, Manufacture and Erection of Pre-engineered Steel buildings, Profile sheets, "Z" Purlins and other related PEB accessories.

The manufacturing facility is spread over an area of 20,000 m² and located at Road #15, Rusayl Industrial Estate, Sultanate of Oman.

We have a technical collaboration with MBS (Metal Building System), Tekla (X steel) and Loseke Technologies (USA) and are licensed to use the PEB frame design and plotting modules to produce economical PEB buildings.

"We Provide Solutions" for Pre-engineered Steel Structure Buildings used for factories, ware-houses, workshops, exhibition centres, showrooms, aircraft hangars, shopping malls, sports hall, labour camps, super markets, cold stores, office buildings, multi-storied buildings, car parking sheds and any other special steel structure buildings.

North West specializes in Pre-Engineered Metal Building Systems from design till Erection through Planning, Engineering, Fabrication and Erection. Design & Detailing work is carried out by a highly skilled engineering team having rich experience and expertise exclusively in metal buildings. We use fully optimized technology, maintaining top quality. Our design team has excellent computer aided design & drafting facilities with internationally recognized design standards and specifications of PEB.

North West with its full fledged infrastructure facilities strives for excellence in providing cost effective Pre-Engineered Steel Buildings.

"Committed to customer satisfaction"



Facilities



The North West manufacturing plant is located at Rusayl Industrial Estate, Sultanate of Oman. The built up area of plant is spread over an area of 17,000 m². It is equipped with the latest state-of-the-art CNC machinery & equipment line having a high degree of automation for producing top quality Pre-Engineered Steel Buildings.

Ample production capacity with optimum inventory management & CNC machinery allows us to meet customer requirements, promptly.

North west delivers service which is consistent throughout the network of relationships, right from commencement of a project until final delivery.

Calibration of all testing & measuring instruments are done periodically to ensure top quality PEB.



CNC Plasma Cutting Machine



Submerged Arc Welding Machine



CNC Punching & Drilling Machine



CNC Beam Drilling & Cutting Machine

Facilities



At North West, Primary, Secondary & Profile sheet of PEB is manufactured in-house using latest technology that is second to none in the industry. This fully integrated manufacturing process allows management to monitor every step of production while our commitment to state-of-the-art equipments reduces costs and improves quality. Adequate manufacturing capability exists to meet the requirement of our customers, now and in future.

By combining the best technology and the best manufacturing practices under one roof, North West creates PEB that exceeds our client's expectations.



Plate shearing Machine



Plate Punching and shearing Machine



Shot Blasting Machine



Painting Booth

Profile sheet & Secondary Members



ROOF & WALL PANELS:

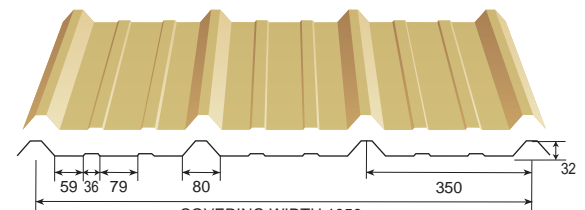
The pre-painted roof and wall panels shall be of 26 gauge / 24 gauge steel roll-formed sheets.

The steel shall have a minimum yield strength of 29kN/cm^2 and shall conform to ASTM 653.

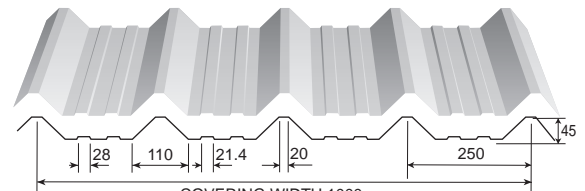
Zinc coating on steel is achieved by continuous hot-dip galvanization that equals or exceeds ASTM A 527 standard.

Exterior surface shall be precision polyester coated type top finish with dry film thickness of $25 (\pm 5 \text{ microns})$. The reverse side shall be of grey/ white colour with 5 microns of dry film thickness.

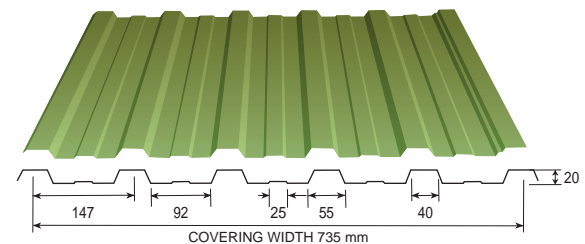
North West profile sheets are available in 3 different profile sections and a variety of colour options to choose from.



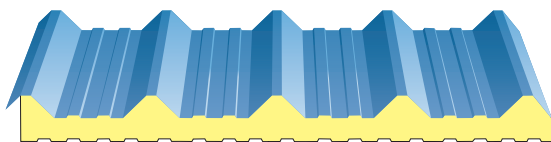
NW 32/350 Profile Sheet



NW 45/250 Profile Sheet



NW 20/147 Profile Sheet



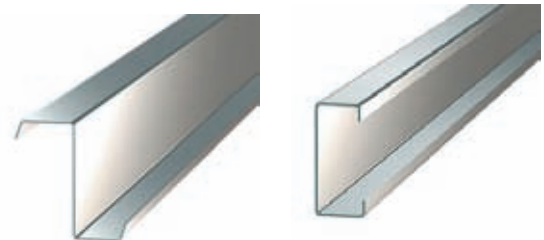
SANDWICH / COMPOSITE PANEL:

Polyurethane injected composite panels available in various thickness and density.

'Z' & 'C' PROFILE PURLINS & GIRTS:

Purlins / Girts are made of galvanized steel conforming to ASTM A 653 Grade 50.

Zinc coating on steel is achieved through a process of continuous hot dip galvanizing that equals 275 gsm class G90. It has a minimum yield strength F_y of 345N/mm^2 .



Profile Roll Forming Machine



C & Z Profile Machine

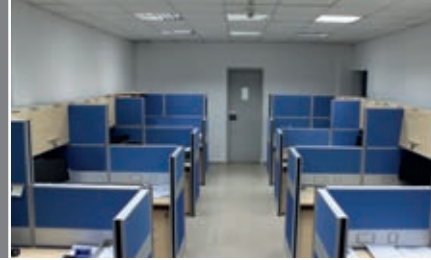


Profile Roll Forming Machine



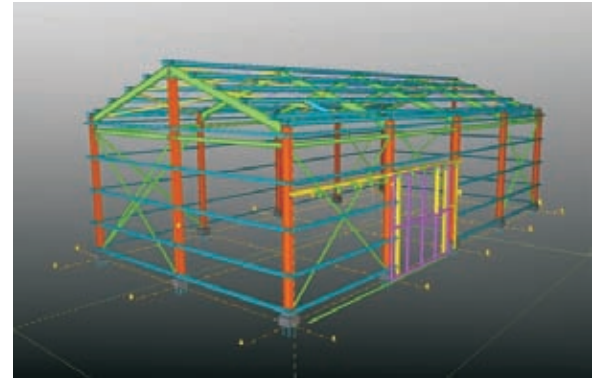
CNC Folding Machine

Design Facilities



- The North West Design and Engineering department has a team of highly qualified and trained engineers, designers, detailers & checkers.

- North West has a technical collaboration with MBS (Metal Building Software), Tekla (X steel) and Loseke-Precision Plus, USA to produce economical buildings.



- Design / Load codes:
Latest codes of AISC, BS 5950 and MBMA are used.



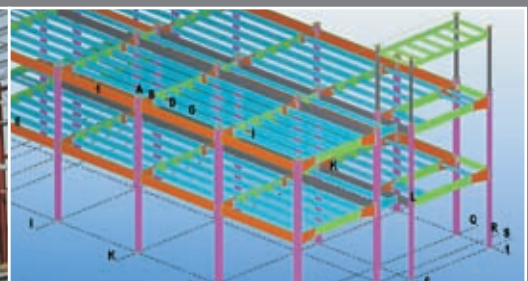
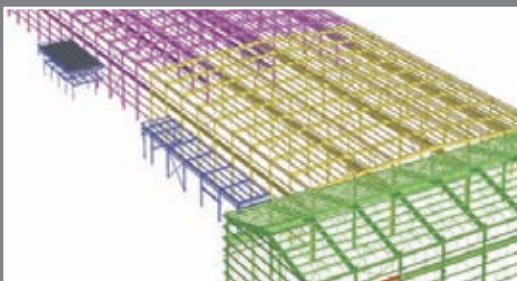
- MBMA is an acronym for Metal Building Manufacturer's Association. It is globally recognized and accepted standard for the design and manufacture of Pre-engineered steel buildings.



TEKLA



Loseke Technologies, Inc.
Serving the industry's software needs.



PEB Vs Conventional Steel Buildings



Pre-Engineered Buildings (PEB)

Conventional Steel Buildings

Construction time

Construction time is lesser by 1/3rd due to Pre-engineered fabrication and ease of assembly.

Longer construction time due to site-fabricated components and use of non-standardized materials

Structure weight

Pre-engineered buildings are 30% lighter through the optimum design & use of steel. Members are tapered built-up plate sections with larger depths in the area of highest stress.

Primary steel members are selected from standard hot rolled 'I' sections, which is heavier than what is actually required by design.

Quality

Superior quality due to shop fabrications with stringent quality control practices and excellent surface finish applications at plant.

Average quality due to site fabrication using sub-standard manufacturing equipment and practices in an uncontrolled environment.

Future expansion

PEBs are designed with future expansion in mind. It is easy and cost effective.

Future expansion would be difficult and more likely, costlier.

Flexibility/Changes

Easy to re-locate and dismantle as all connections are nut-bolted.

Changes are not feasible because of welded connections.

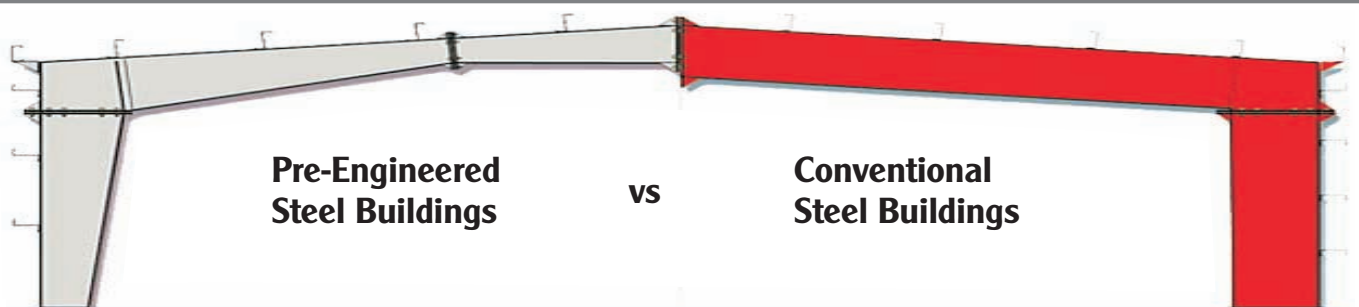
Performance

All components are designed specifically to act together as a system for maximum efficiency, precise fit and peak performance at site.

Components are custom designed for a specific job. Design and detailing errors are possible.

Advantages of Pre-engineered Buildings

- Low cost
- Aesthetic & modern appearance
- Larger clear span at affordable prices
- Water tight roofs
- Low cost maintenance
- Extensive choice of layout
- Ease of future expansion



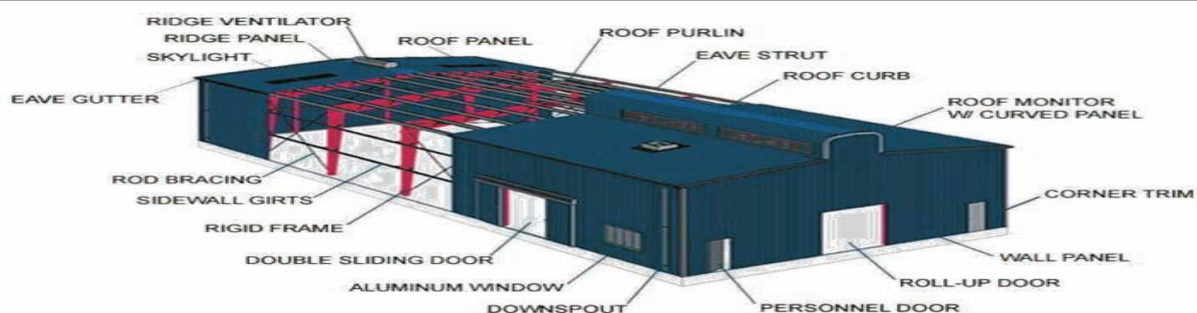
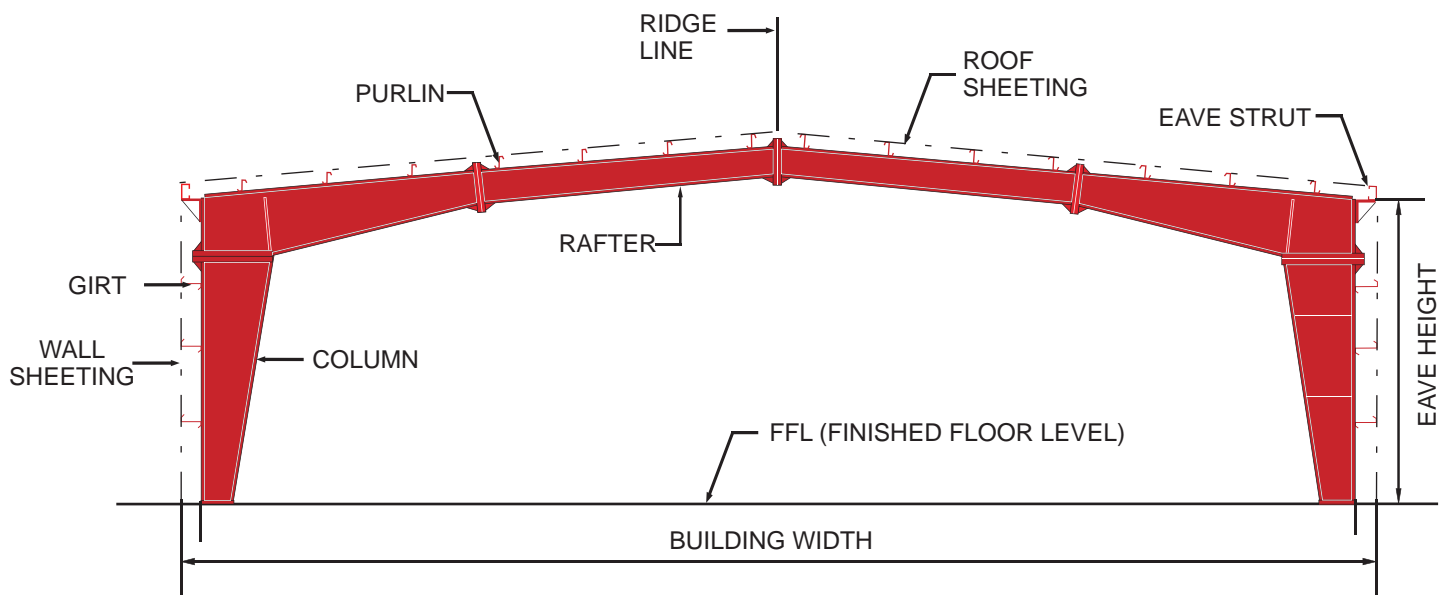
Pre-engineered Buildings:



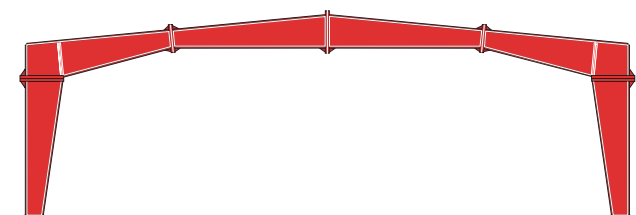
North West Engineering's steel buildings are computer designed and completely pre-engineered at factory to give the customer, finest pre-engineered steel buildings.

The conventional steel buildings cannot compete with cost efficiency of pre-engineered buildings. All components are computer designed to ensure on-site erection at fastest speed and least expenses.

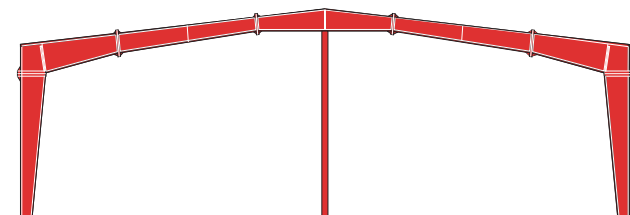
Pre-engineered steel buildings are a combination of built-up (Plates) section, hot rolled section, cold formed section, single skin sheeting and "Z" purlins. Structural accessories include Mezzanine floors, Crane systems, Canopies, Fascia and Stair-case etc.



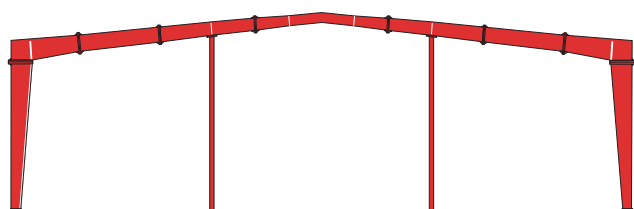
PEB Frames



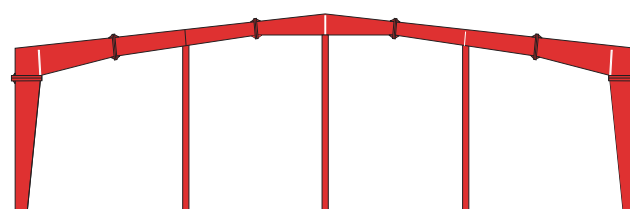
Clear Span
(Economical span 16m to 36m)



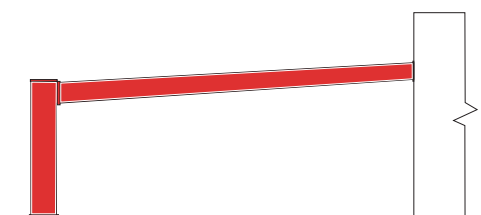
Multi-Span- I
(Economical span 24m to 60m)



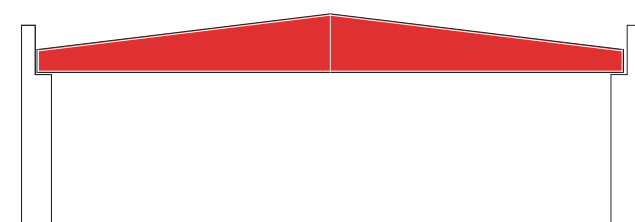
Multi Span- II
(Economical span 36m to 72m)



Multi-Span- III
(Economical span 48m to 96m)



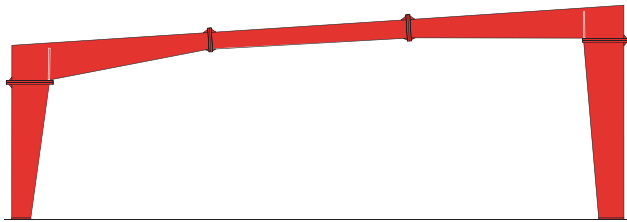
Lean to Frame
(Economical span 10m to 18m)



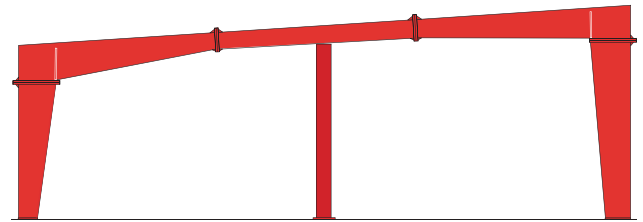
Rafter system
(Economical span 12m to 25m)



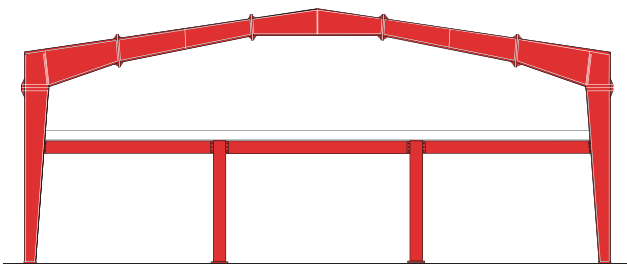
PEB Frames



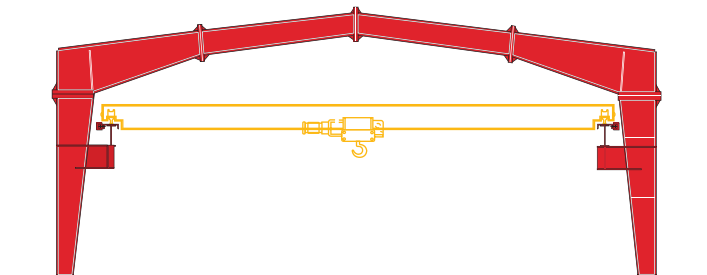
Clear Span Single Slope
(Economical span 6m to 18m)



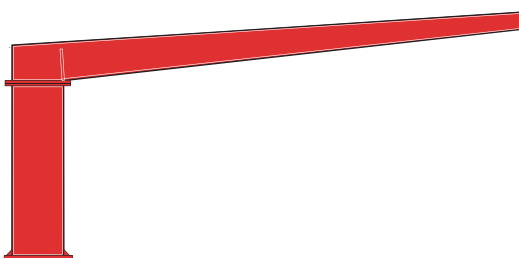
Multi-Span Single Slope with two spans
(Economical span 24m to 36m)



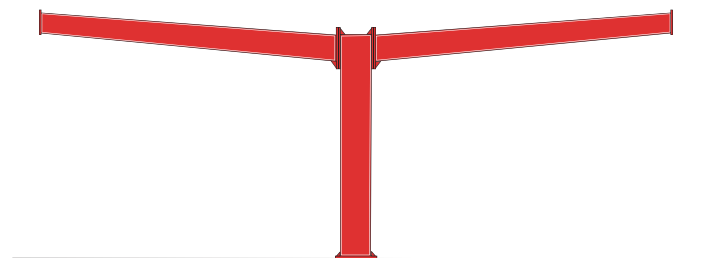
Typical frame with mezzanine



EOT crane with clear span



Single slope- canopy



'T' (Butterfly) - Canopy



PEB Accessories



➤ Sliding Door (Single & Double Leaf):

Easy operating top hung bottom guided. Maintenance free door panels will match building panels. Provision for locking from inside & outside.



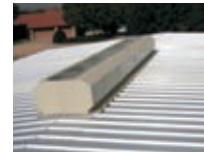
➤ Louvers:

Louvers shall be made up of steel and Aluminum fixed type supplied with accessories and available in standard sizes & colour matching with building wall sheets.



➤ Ridge-Ventilators:

Ridge ventilators are provided at the ridge for ventilation system. The size and quantity depends upon the application of Building.



➤ Fasteners:

Standard fasteners from internationally reputed companies are used.



➤ Butyl Sealant Tape & Silicon Sealant tube:

Standard products from internationally reputed companies are used.

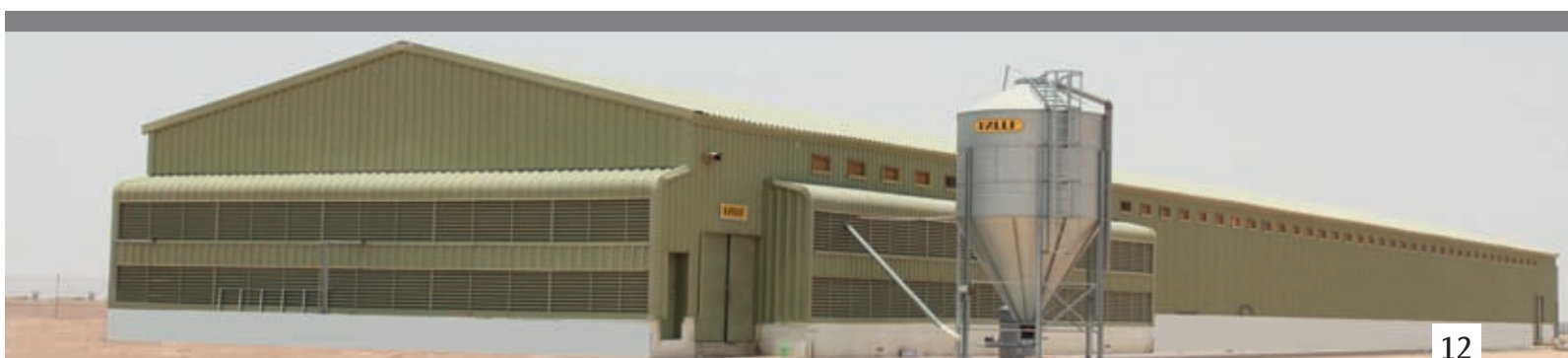


➤ Filler Block

Sealing all roofing / cladding profiles against water / water vapours ingress. Roof light fillers. Eaves and ridge fillers.



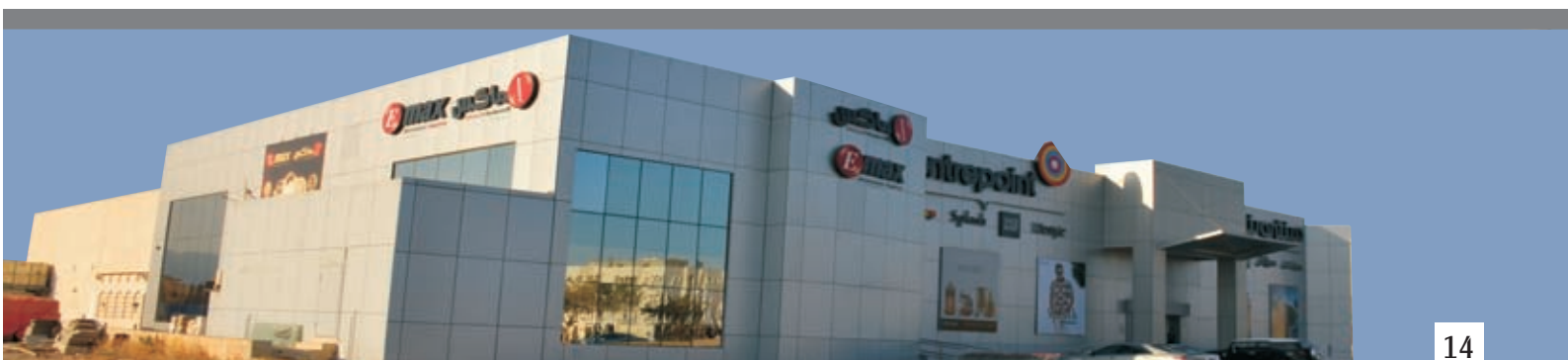
Projects - Factory, Warehouse & Stores



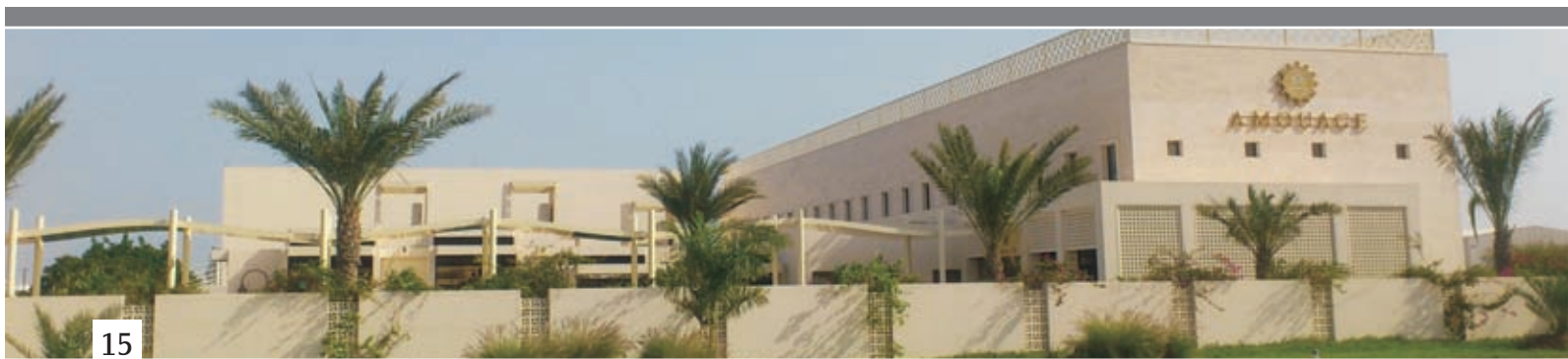
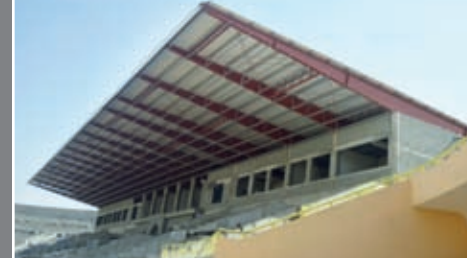
Projects - Factory & Workshop Buildings



Projects - Commercial Buildings



Projects - Multi-storied Buildings & Warehouses



Projects - Warehouses & Factories



Quality & Reliability



North West is accredited to major internationally recognized Pre-Engineered steel structural building standards thereby guaranteeing top quality Pre-engineered steel structural buildings and exceeding customer expectations.



- An ISO 9001:2008 Certified Pre-Engineered Steel Building Company
- HSE Policies in place • Quality Assurance • Exceeding Customer Expectations

Our Customers



- Transparency • Trust and Reputation • Client Oriented
- Effective Project Management • Infrastructure, Systems & Skilled Manpower



Executed more than 2000 PEB Buildings

www.nwewllc.com



**An ISO 9001:2008 certified
Pre-Engineered Steel Building Company**



Reliability • Quality • Professional Service



North West Engineering Works L.L.C.

P.O. Box: 123, Postal Code: 124,
Road No. 15, Rusayl Industrial Estate, Sultanate of Oman.
Tel: +968-2444 6692, 2444 6940 | Fax: +968-2444 6693
E-mail: info@nwewllc.com



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