



**Infinity Buildings**

**Engineered for  
Higher-Quality Installation**





“Every great dream begins with dreamer. Always remember you have within you the strength, the patience and the passion to reach for the stars to change the world.”

At first I would like to convey my regards to all our esteemed customers for choosing H&H MECH TECH Pvt. Ltd.

We have journeyed a long way since our establishment in year 2007 to become one of leading PEB manufacturers in India.

This has been possible only by the support and wishes of our esteemed customers and dedication of team H&H. We hope to build this trust and relationship



BOSCH CHASIS MANESAR

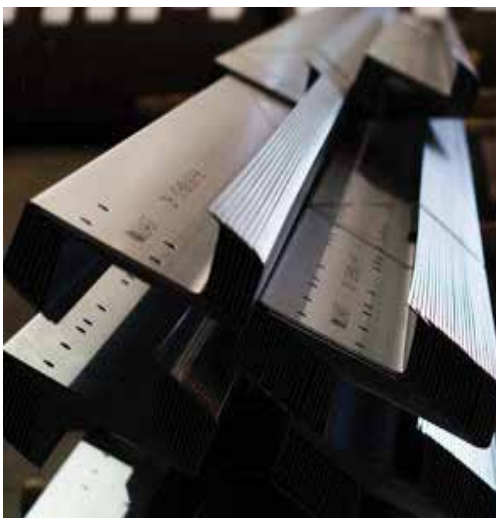
# Welcome to the preferred partner for industrial buildings

## WHO WE ARE

H&H is a renowned & one of the leading players in PEB industry – having manufacturing capacity of 36,000 MT per annum.

In the year 2007, the company started its journey as Pre Engineered Building manufacturer with a unit in Bawal Haryana.

In due course the company through successive expansions in capacities as well as product line, witnessed an explosive growth to become the most preferred partner for the construction of Pre Engineered building across the India.



Over the years, H&H has created an unblemished reputation by establishing unrivalled quality, flexibility & reliability in all its products and service offerings: central to this achievement being the company's drive to exceed customer's expectations.

Present Machine Lines: CNC Plasma , Shearing Machine (6.3mx20mm), H Beam Line, Saw Welding Line, H Beam Straightening Line, Mig Welding, Roll Forming (Standing Seam, High Rib Profiling, Z&C Roll Forming), Shearing & Bending, Chaser.

## PLANT & MACHINERY



CNC PLASMA CUTTING



SHEARING MACHINE



C&Z ROLL FORMING LINE



H-BEAM LINE & WELDING LINE

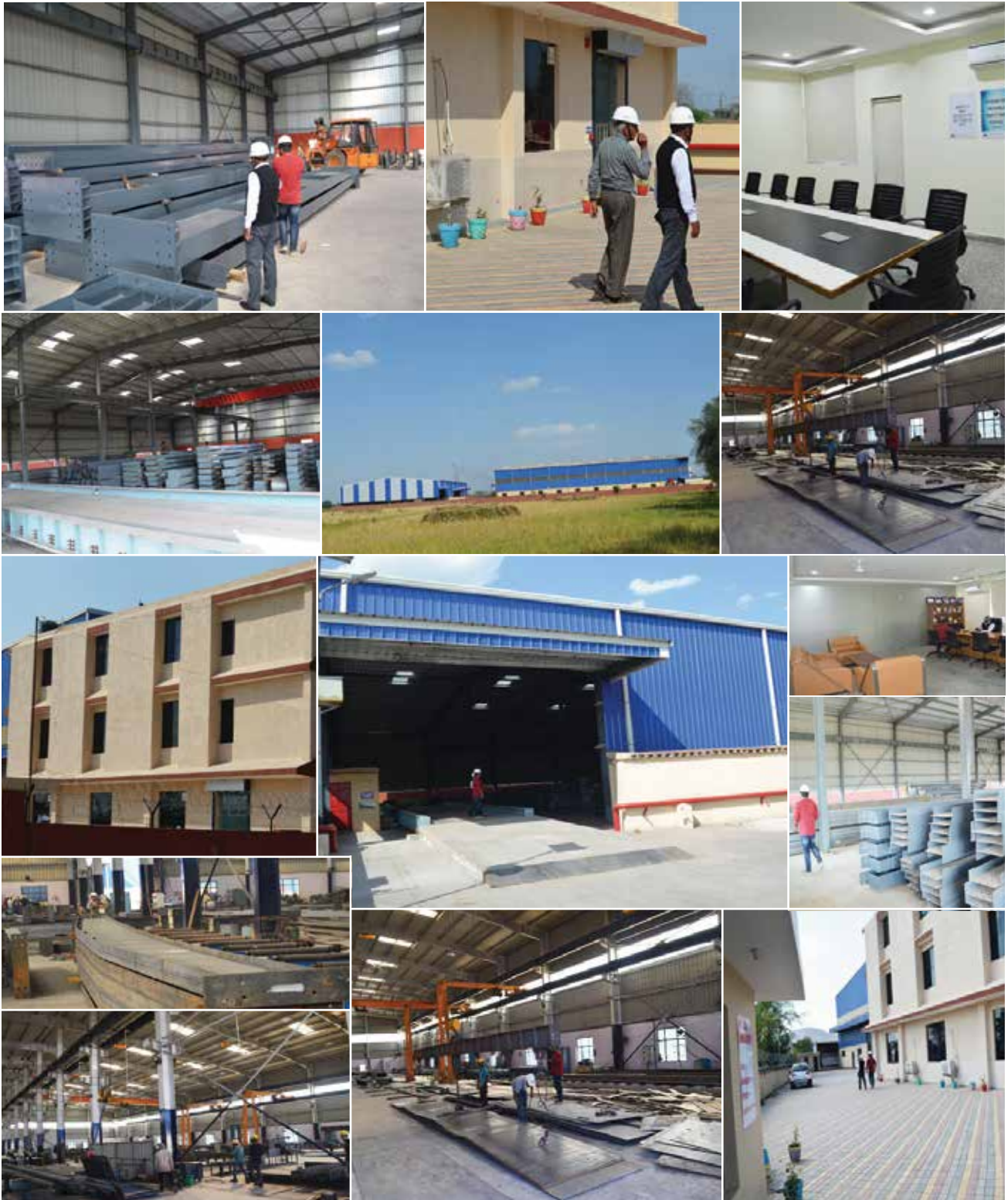


HIGH RIB ROLL FORMING LINE



H-BEAM STRAIGHTENER

# H&H FACTORY PREMISES



# Welcome to the preferred partner for industrial buildings

## Unmatched Design & Engineering Capability

A strong in-house engineering team offers technical support that includes optimized design & detailing, through internationally acclaimed software's. From design to erection our team of professionals ensures an architect's vision into reality.



## State-of-art Manufacturing

The brand's product superiority is well complemented by its manufacturing expertise. World class manufacturing facility strategically located at Bawal Haryana ensures on time product delivery with consistency in quality

## Customer Centric Solutions

H&H provides customer centric solutions with a wide product basket for diverse applications. Our on time delivery promise is well augmented by multi-locational installation teams and sales network.

With a focus on customer's success, we offer value added services like construction, engineering & preventive maintenance support.

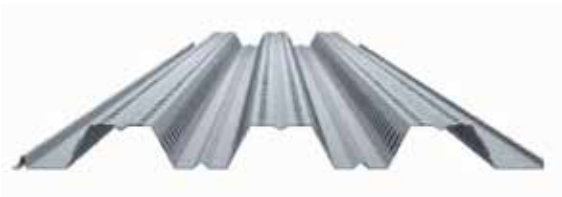


# BUILDING COMPONENTS



- ◀ **HIGH RIB**  
 Cover Width: 1080 mm  
 Thicknesses: 26 / 24 gauge  
 Standard Colors: H&H standard colours

- ▶ **DECKING**  
 Cover Width: 960 mm  
 Thicknesses: 0.8 -1.25 mm  
 Standard Colours: Pre-galvanized

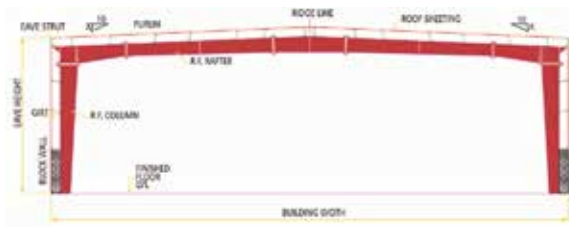


- ◀ **COLD FORMED SECTIONS**  
 Profile: C & Z Sections  
 Thicknesses: 1.5 - 3.0 mm  
 Standard Finish: Pre-galvanized  
 120 / 275 gsm.

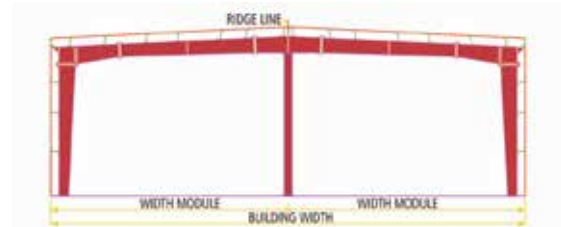
## Building Types Primary Farming System

At H & H, practically any type of geometric frame can be built. Some of the most commonly used primary framing systems are featured here...

### ■ Clear Span



### ■ Intermediate Column - 1



### ■ Multi Gable - 2



### ■ T - Canopy



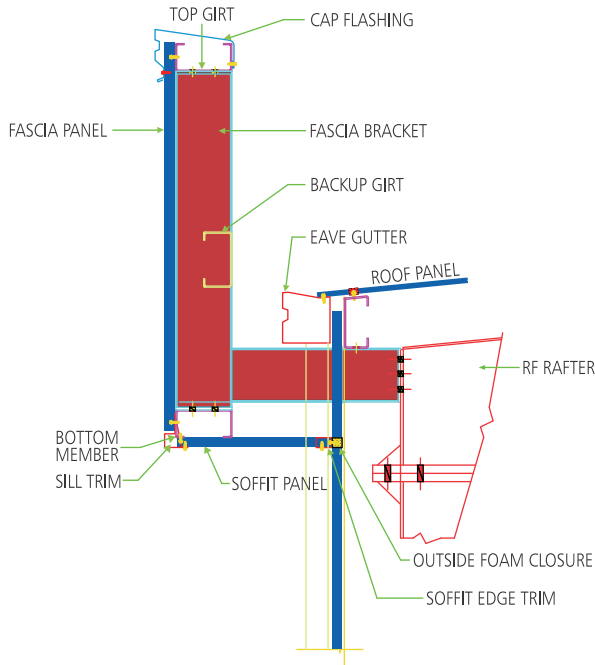
### ■ L - Canopy



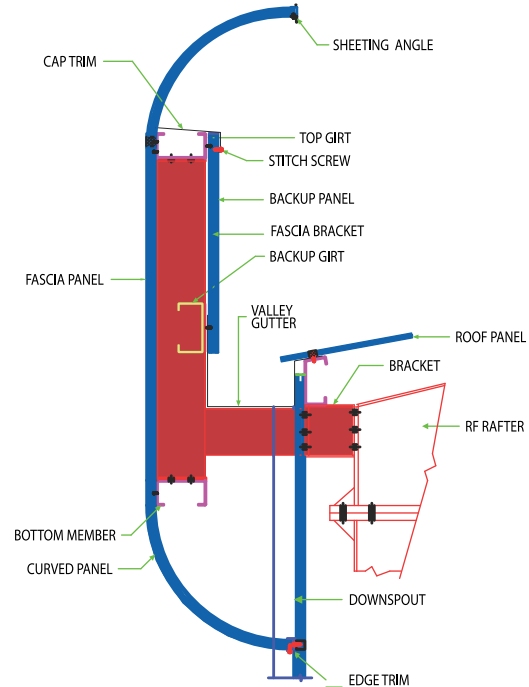
# BUILDING ADDITIONS

## ■ Fascia

### Cantilevered Fascia

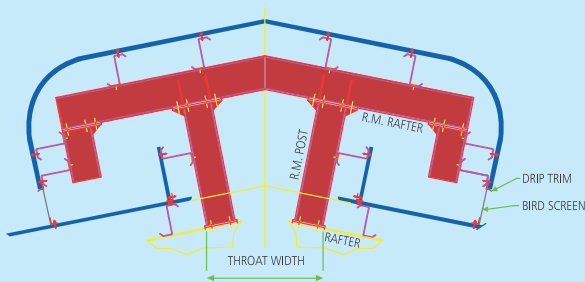
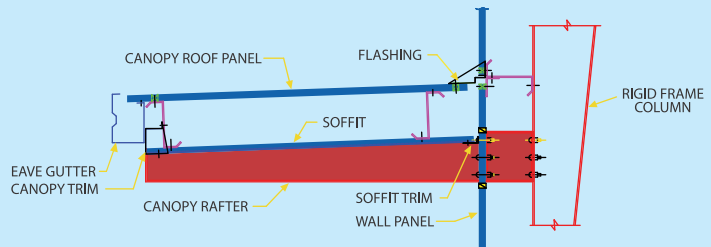


### Cantilevered Fascia with Curved top & bottom



## ■ Canopies

H & H Mechtech standard canopies are 2.0 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.



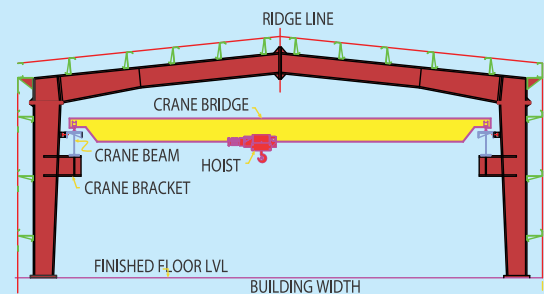
## ■ Roof Monitor

H & H Mechtech 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.

## ■ Crane Systems

H & H 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 H & H 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
- Crane hook height
- Wheel loads
- Vertical and horizontal clearances
- Wheel base and bumper distances
- Type of crane operations
- No. of cranes operating in a single bay



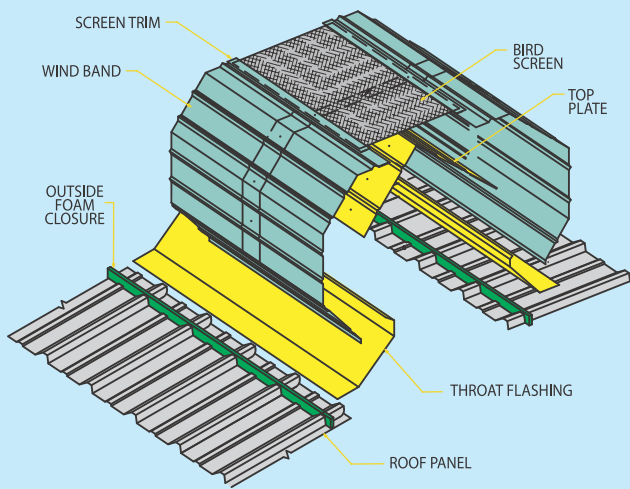
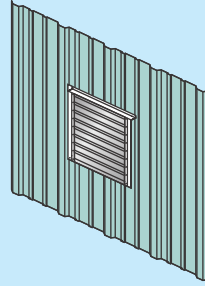
In case the above data is not furnished by the client, standard Electromech Crane Data is used upon client's approval.



# BUILDING ACCESSORIES

## ■ Louvers

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



## ■ Ridge Ventilators

H&H Mechtecth's standard ridge ventilators are of 0.3 M throat width and can be supplied either continuous or in modules of 3.0 M length.

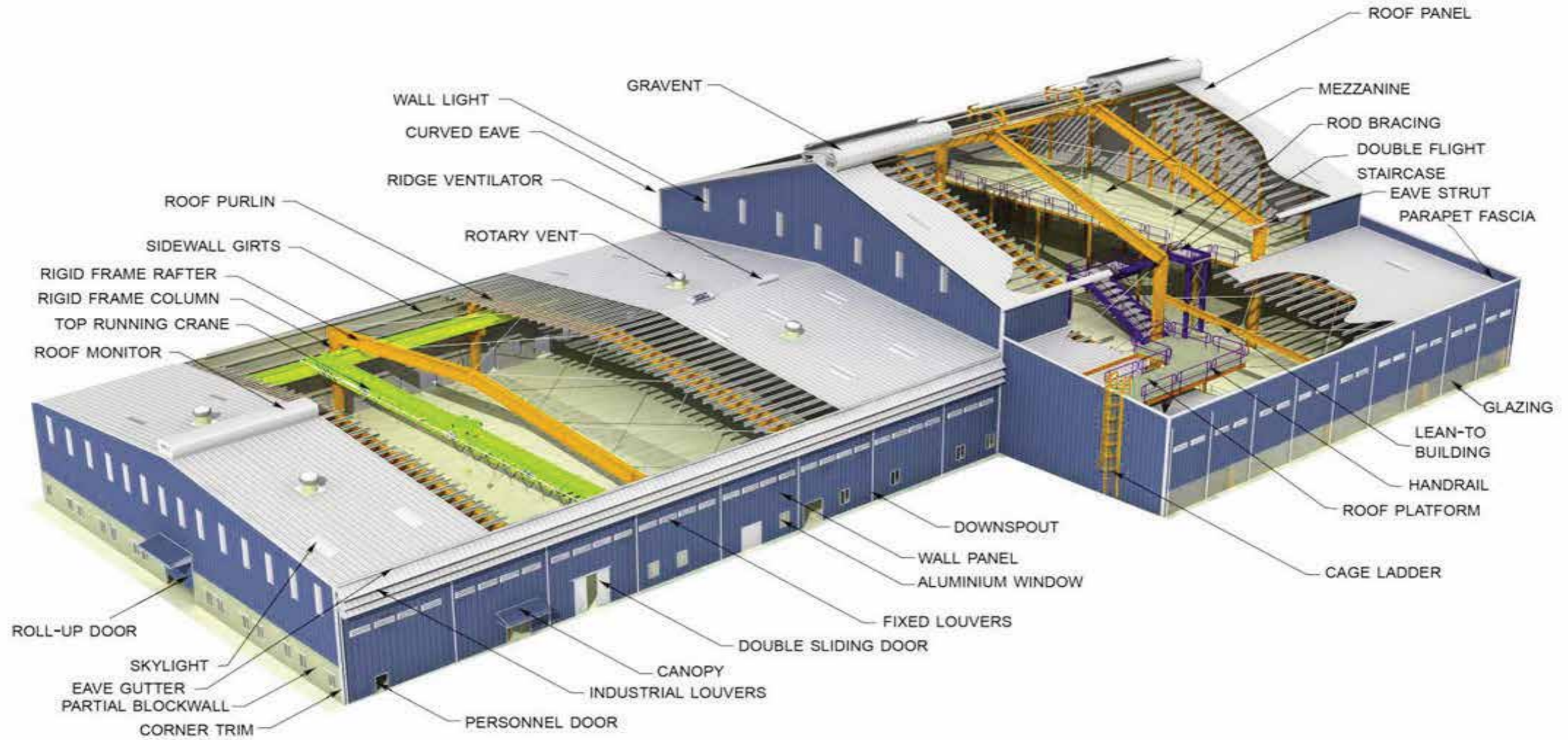
# ROOF MONITOR RIDGE VENTILATOR



CROSS SECTION - RIGID FRAME CLEAR SPAN



# TYPICAL PRE-ENGINEERED STEEL BUILDING





Climate change, Sustainability and Green have become the most ubiquitous words. The demand for environmentally-friendly, or green, construction solutions has increased in recent times. People across various sectors are concerned with sustainable goals. It has been widely acknowledged that buildings consume a major portion of materials, resources and energy, thus contributing directly or indirectly to the environmental maladies. Therefore the paradigm of green buildings has been evolved to counter the malignant effects on the environment.

A GREEN BUILDING has characteristics that reduce its environmental impact during its life cycle - from construction all the way through to the end of the building's useful life. These green building characteristics are measured against three criteria:

- **Environmental:** The impact the building will have today and in the future when considering factors as energy usage, efficient use of space, recyclability, materials used for construction, all in an effort to conserve natural resources.
- **Economic:** Lowering operating costs, enhancing asset value, improving productivity, as well as optimizing lifecycle performance.
- **Health & Community:** Improvement of air quality, occupant comfort, and overall health conditions.

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H&H, a prime player in the pre fabricated metal buildings sector has been the preferred choice for many of the customers across various sectors. The company believes in the cause for a green future and acts as a catalyst for a revolution for attaining sustainable goals. Buildings fabricated by H&H have some innate features that make them green to a large extent. H&H the pioneer in the pre engineered buildings sector in India, offers comprehensive solutions for LEED compliance. Our design and methodologies enable customers to get substantive LEED points that contribute to the rating of a building as green.

# H&H GREEN BUILDINGS

## Steel - the Green Metal:

Steel is the basic material that is used in the construction of a pre engineered building. It negates the harmful effects associated with concrete and cement. Steel used by H&H for any building can be 100 % recycled in the future, after the building has lived its life. Steel also lowers the life cycle cost as it is easier to maintain.

## Reflective Roof Effect:

H&H uses metal roof panels that have high solar reflectance index (SRI). This helps in reducing the energy consumption.

## Insulated Metal Panels:

H&H offers effective insulation solutions for both the roof and walls. The panels have a superior R value that will contribute towards greater thermal and energy efficiency

## Sky Lights:

SkyLights help in ushering natural light into the building. This ensures minimum or negligible usage of artificial lighting thus contributing towards lesser emissions.

## Regional Materials Usage:

Materials that are used by H&H are procured from regional sources. This helps to cut costs & emissions on transportation & logistics.

## Innovation & Design:

The pre engineered buildings abricated by H&H use appropriate software, which ensure that resources are optimized.



## Long bay Spacing:

H&H offers long bay spacing that will help in reducing the number of footings for any site. This technique ensures that civil work is reduced, usage of materials is optimized thus maintaining the ecological balance.

## Renewable Energy Options:

H&H efficient leak proof seam lockroofing system enables the installation of solar panels on the roof top. Solar power helps customers in meeting their power requirements, reducing the emissions and in the process be eligible for carbon credits under CDM.



## H&H SSR

### Double-lok 360° 10 Year 100 % Leak Proof Warranty

#### TECHNICAL SPECIFICATIONS:

- Consists of 610mm wide roll formed panels with a 65 mm high corrugation
- The panel is fixed with a clip allowing linear and lateral expansion and contraction
- The flat side of the panel contains cross flutes improving the panel rigidity under foot traffic
- The panels are produced in 0.55mm nominal thickness Aluzinc coated high tensile strength steel



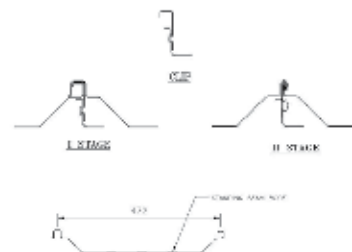
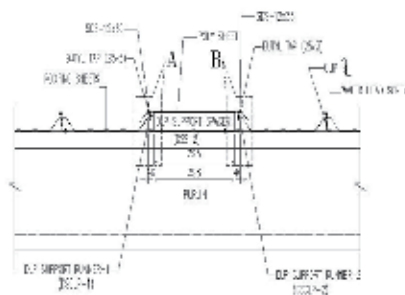
#### ACCESSORIES

In order to maintain the water tightness integrity and aesthetic appearance, a full range of accessories adapted to SS roof systems have been developed:

- Skylights
- Ventilators
- Polycarbonate vaults
- Water gutter
- Flashings



SS Clamp



#### ADVANTAGES OF SSR

- The clip allows free expansion and contraction, thus avoiding any stress in the roof system
- Long-lasting, ultimate moisture tightness
- Side lap formed on site with a special seaming machine, crimping a 360° double-lock seam
- The panel is connected to the secondary structure with a special clip and roll formed on its top into the seam
- Once seamed the entire roof forms a monolithic metal membrane
- Thermal bridges reduced to spacing clips

# OUR PROJECTS



Bosch Chassis System India Limited.  
(IMT, Manesar)



Birla Cement Dadri, Guatam Budh Nagar



Sandhra Roloforms (IMT, Manesar)



Nippon Leakless Talbros Pvt Ltd. (Bawal)



Daikin Air-Conditioners (Neemrana)



Flash Forge (VIZAG)



Hyco Gears (Bawal)



Roop Polymers (IMT, Manesar)



Mani Mahesh Metal (IMT, Manesar)



## OUR PROJECTS



SAKATA Seeds (IMT, Manesar)



Rahul Wire Ropes (Bhiwadi)



Lafarge Boral Gypsum Plant (Khushkhera)



Rohtang Tunnel Project – (Manali)



Rajshayama constructions



Metal Seam India Bawal



Bosch Chassis System India Ltd. (Uttaranchal)

# OUR PROJECTS



Aravalli Warehouse Raliawas



Ntf Gujarat



Uniproducts Gujarat



Ess Kay Fabrication



Warehouse Bilaspur



Meghatech International Bilaspur



NTF India Manesar



Rajmann Overseas



Warehouse Khetawas





# OUR PROJECTS



Amazon Manesar



Indolink Technologies Greater Noida



MICT Mumbai



ICT Mumbai



Safex Chemicals Keshwana



Micromax Bhiwadi



DPS Sonapat



GPA Foods Sonipat

## OUR VALUED CUSTOMERS





**H & H Mechtech Pvt. Ltd.**  
Steel grip with promise

**Pre Engineered Buildings & Structures**  
Construct future with Innovation

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