SINCE 1961

BAJAJ
STEEL SRTUCTURES

Pic of Rishab Cotton, Rajasthan

product brochure

About Bajaj Steel Industries Limited

Bajaj Steel Industries Limited (Bajaj), Nagpur India, established in 1961, is a public limited company, listed on Bombay Stock Exchange. With over five decades of experience and expertise, Bajaj is a world class engineering facility with diversified sectoral presence, in Largest and Modern Cotton Ginning & Pressing Machinery Manufacturer in India in technical collaboration with Central Institute for Research on Cotton Technology, ICAR, Govt. of India World class Delinting and decorticating.

Bajaj Steel Building, a division of Bajaj Steel Industries Limited, Nagpur India, established in March 2010 and executed more than 90 Steel Building projects.

Bajaj Steel Industries Ltd. an ISO 9001:2008 certified company has always focused on providing complete solutions by ensuring high degree of precision in Designing, manufacturing commissioning and after sales support. Bajaj has been awarded with prestigious 'Star Export House' Certificate by 'Ministry of Commerce & Industry'.

Bajaj has in-house Design & Engineering Capabilities to reach new frontiers of technical excellence. It has established dedicated Engineering center & also Design & Development centers for the entire range of products and their manufacturing technologies.

Our team understands that time is the most critical asset in project implementation. Bajaj is committed to a high degree of service and assures delivery of Bajaj Steel Building with Strength, Speed and Safety.

Company is having extensive facilities for following:

1. Design,
2. Detailing
3. Fabrication
4. Erection & Commission

Bajaj Steel Capabilities

- Spread over a total land area of 30 acres.
- Plant build-up area over 31,000 sq. meters.
- Large number of CNC machines with multi floor CNC setup
- Automated machines and processing of Buildings
- Quality set up for all kind of tool room machines for in house development of jigs and fixtures.
- Efficient power backup for non stop working.

Design Setup

- Experienced team of senior designers and detailers.
- Fully equipped Design and Planning Departments with Multi point Auto CAD, STAAD to provide quick and efficient technical support for Layouts and Operational details.
- Design departments fully equipped with high speed plotters and printers.

Fabrication Setup

- High capacity fabrication facility
- Qualified and trained welders
- All fabrication works carried out on fixtures
- Highly equipped fabrication shop with CNC & Strip Cutting Machine, H-Beam Assembly Machine, Single–Arm Cantilever Automatic Submerged Arc Welding Machine, H -Beam Flange Straightening Machine, MIG welding, Z-Shaped Purlin roll forming machine, C-Shaped Purlin roll forming machine, Sheet Profile roll forming machine, 10MT hydraulic decoiler, shot blast machine, EOT crane of 10MT, Drilling machines, Threading machine, Portable automated gas cutting machine, Hydraulic Power press, CNC press brake for capacity up to 16 mm thick plates up to 6 mtr long.

Fabrication Setup

CNC & Strip Flame Cutting

H-Beam Assembly

Single –Arm Cantilever Automatic SAW

MIG/MMA (IGBT) Welding

H-Beam Flange Straightening

Portable Automatic Gas Cutter

SUBMERGED ARC WELDING

10MT HYDRAULIC DECOILER

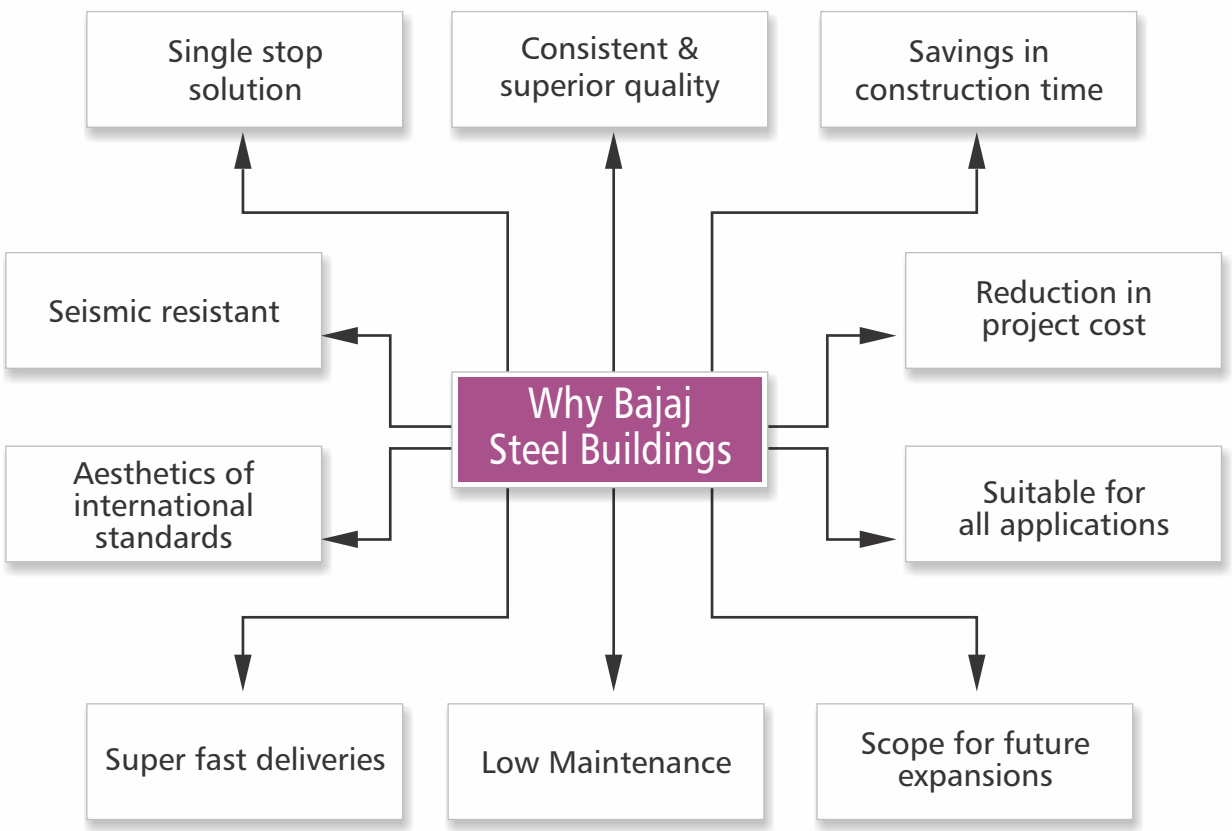
Z & C Roll Forming

Roof Panel Roll Forming

About Bajaj Steel Buildings

Bajaj Steel Buildings is a product of Engineering Excellence & Design Perfection which has been the Benchmark of Bajaj Steel Ind. Ltd. Bajaj Buildings are Safe, Technologically advanced, Cost Effective, Single stop solution to all the sectors meeting all the customer needs through its versatility in Designing & Fabrication.

- The Deflection Limits are followed in accordance with the Indian Standard Codes, hence durability of Bajaj Building is more as compared to any other
- As all the components are manufactured off site, the usage of heavy equipments and extensive labour at site is drastically reduced
- All the buildings are individually designed for wind loads and earthquake zones to offer long lasting solutions


Single stop solution
Consistent & superior quality
Savings in construction time
Seismic resistant
Reduction in project cost
Why Bajaj Steel Buildings
Aesthetics of international standards
Suitable for all applications
Super fast deliveries
Low Maintenance
Scope for future expansions

Building Concept

Bajaj Steel 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

The longitudinal distance of Building measured from out to out of End wall Steel Lines.

Building Clear Height

The vertical dimension from the finished floor level to the lowest underside point of the rafter.

Building Width

The lateral distance of Building measured from out to out of Sidewall Steel Lines.

Roof Slope

This is the angle of the roof with respect to the horizontal. The most common roof slopes is 1/10. Any practical roof slope is possible.

End Bay Length

The longitudinal distance measured from Endwall Steel Line to the center of first column.

Interior Bay Length

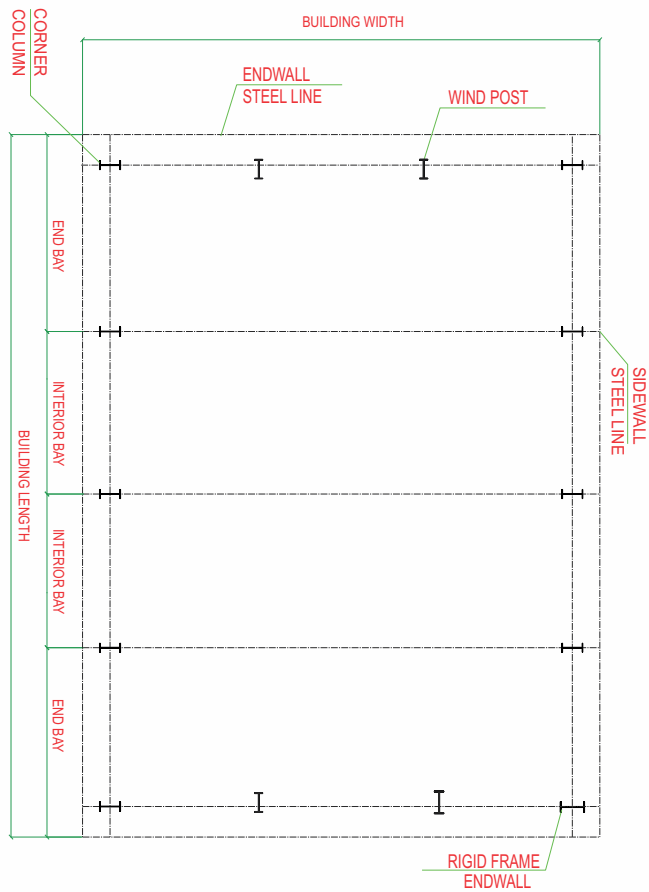
This is the distance between the center lines of two adjacent interior main frame columns. The most common bay lengths are 6, 7 & 8 meters.

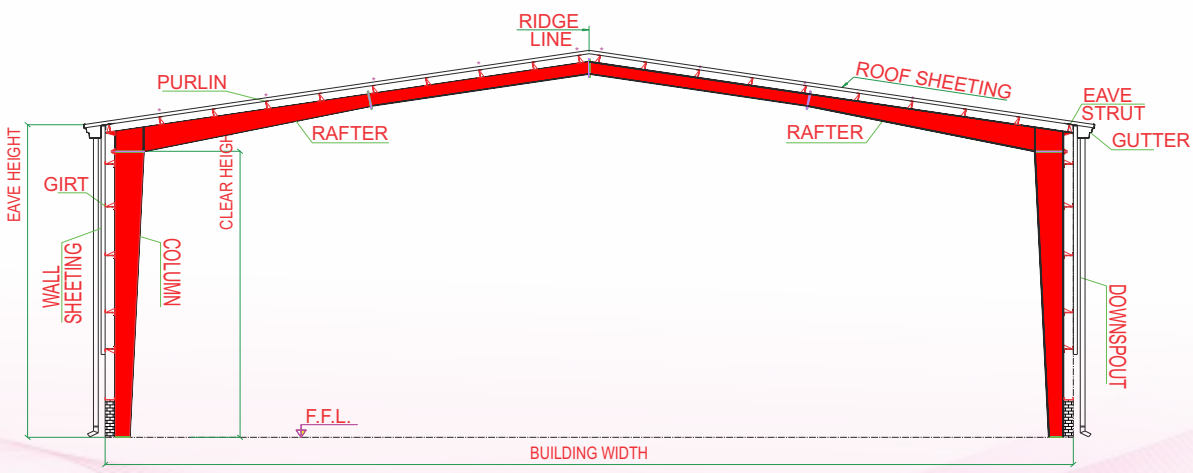
Design Loads

Unless otherwise specified, Bajaj Steel Buildings are designed for the following design parameters:

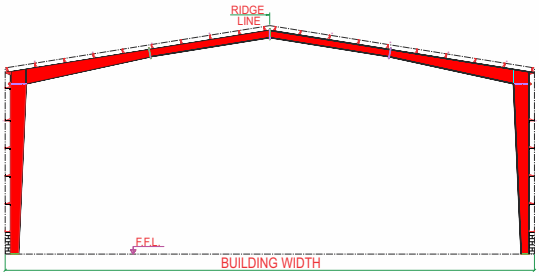
Design parameters of snow loads, earthquake loads, collateral loads, crane loads or any other loading condition must be specified when requesting a quotation.

Loads are applied in accordance with Indian codes

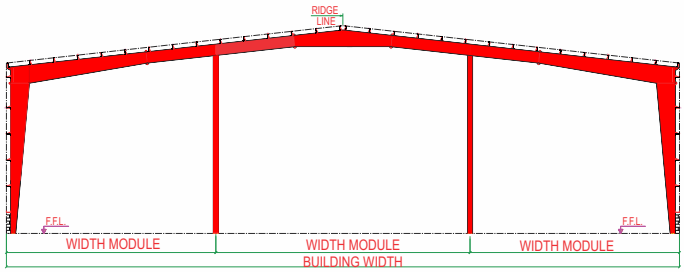




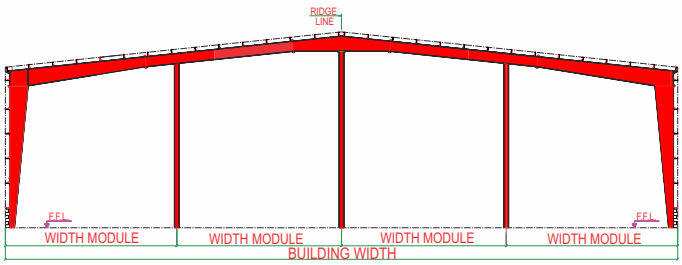
Standard Framing Systems



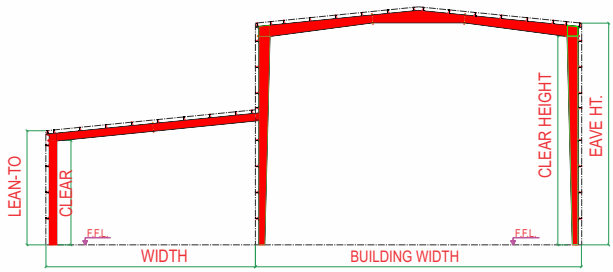
CLEAR SPAN (CS)



MULTISPAN "3" (MS-3)

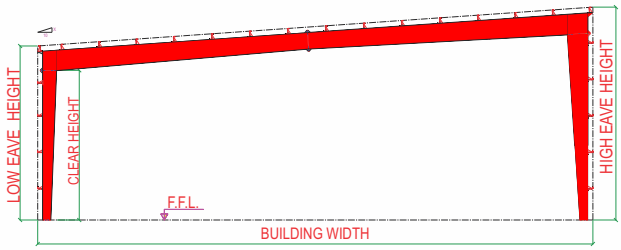


MULTISPAN "4" (MS-4)

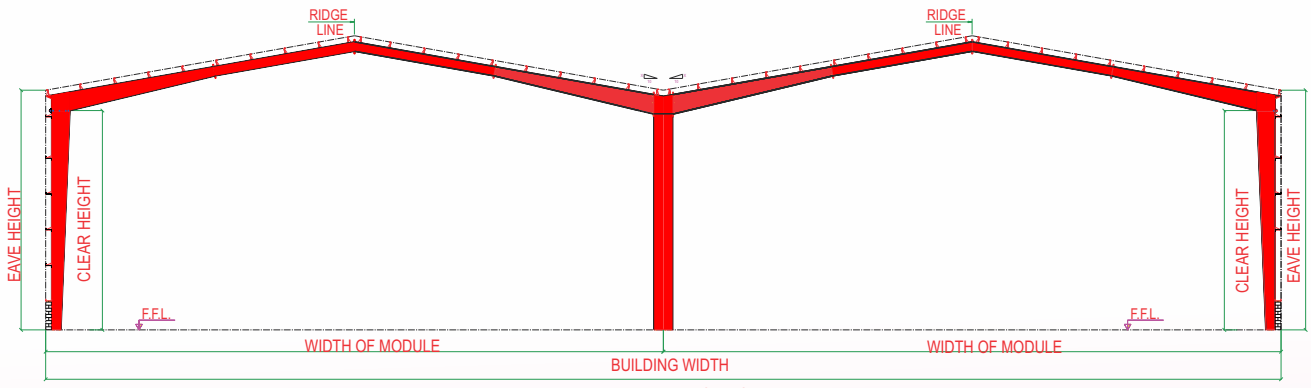


LEAN - TO (LT)

RIGID FRAME



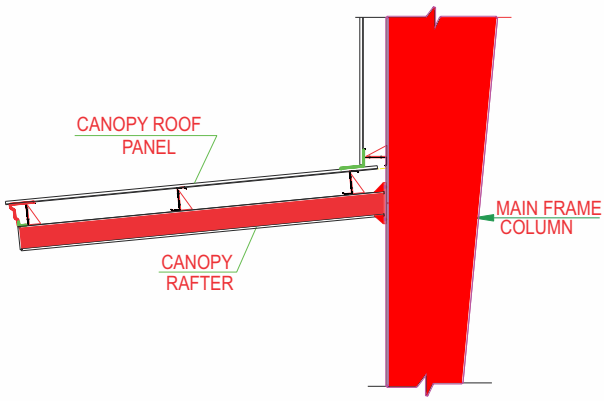
SINGLE SLOPE (SS)



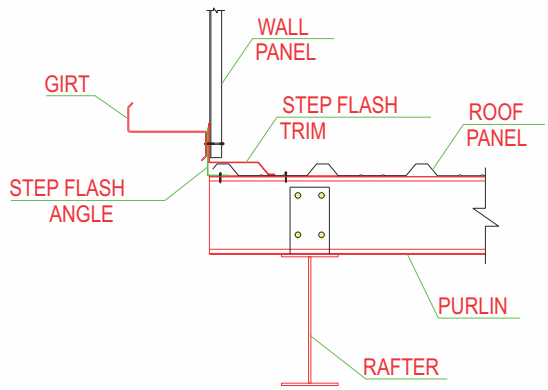
MULTI-GABLE (MG)

Structural Sub Systems

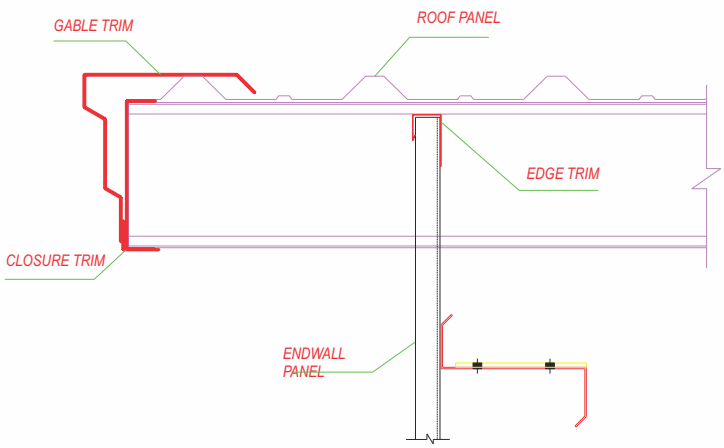
This section contains few sub system with simple sketches.



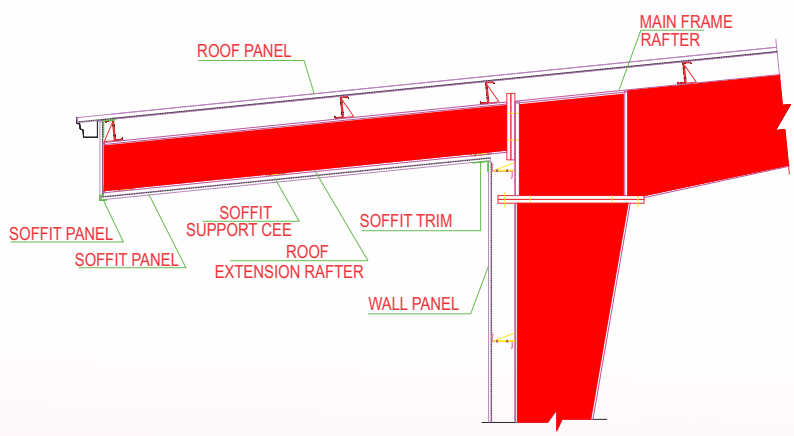
MAIN FRAME WITH CANOPY



TRANSITION OF BUILDING



ENDWALL ROOF EXTENSION

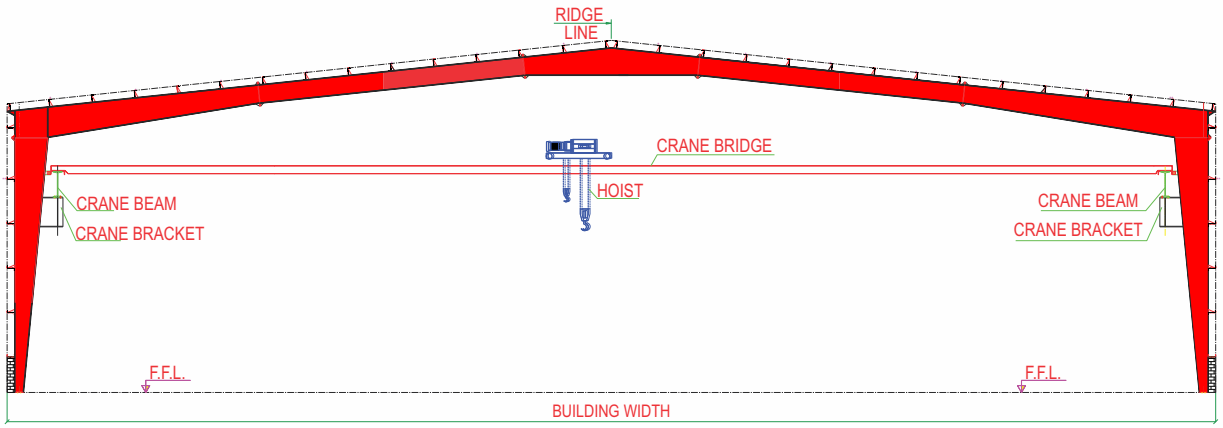


SIDEWALL ROOF EXTENSION

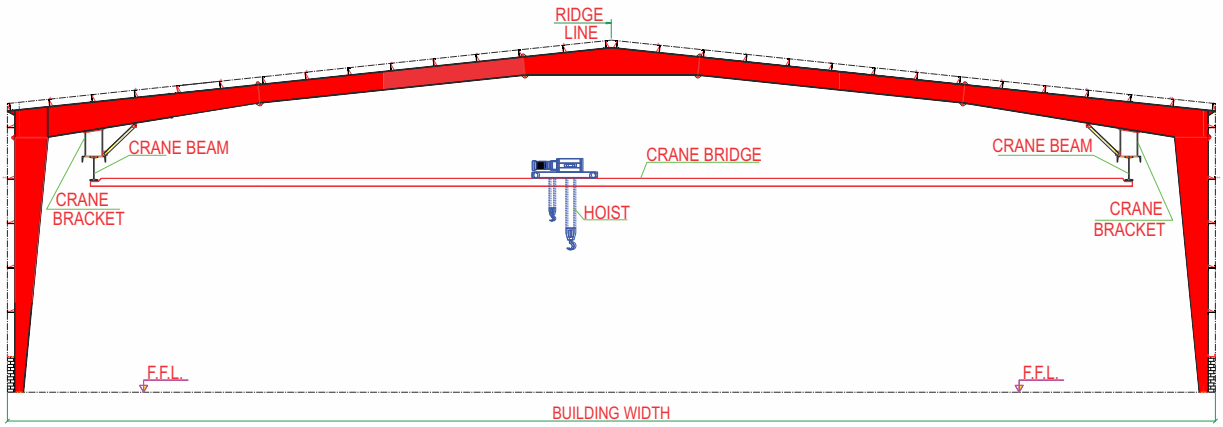
Structural Sub Systems

Crane Systems

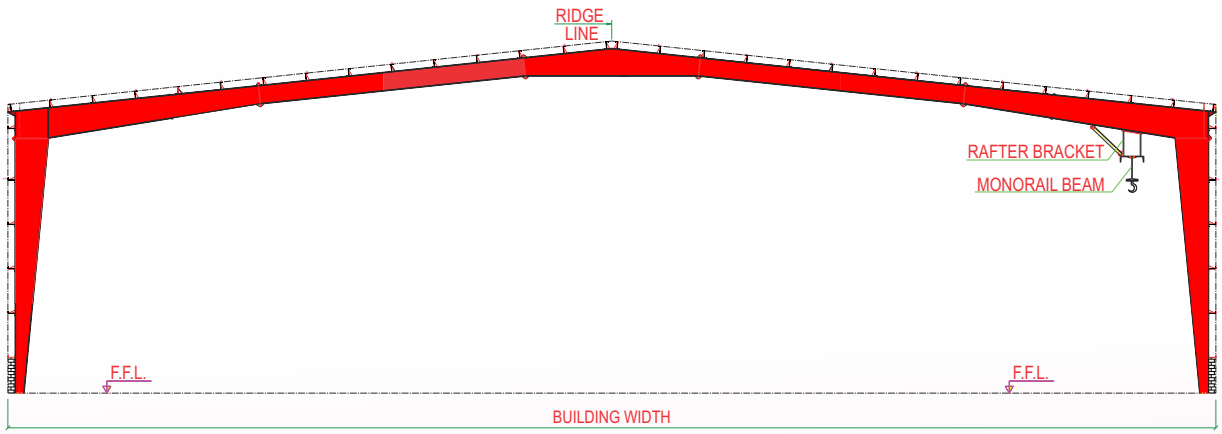
For a crane system Bajaj Steel Building supply is usually limited to the supply of column or rafter brackets and the crane runway beams that support the crane system. Bajaj Steel Building needs the customer's complete crane system information in order to design and estimate crane buildings.



TOP RUNNING CRANE



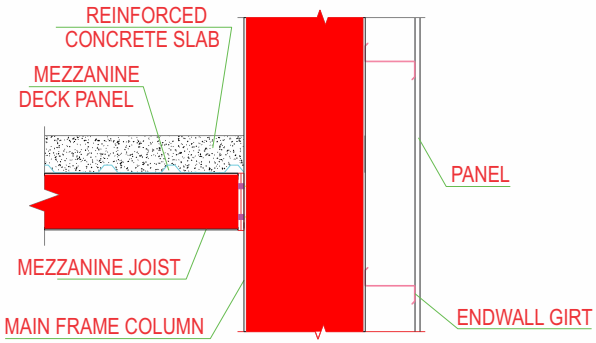
UNDERHUNG CRANE



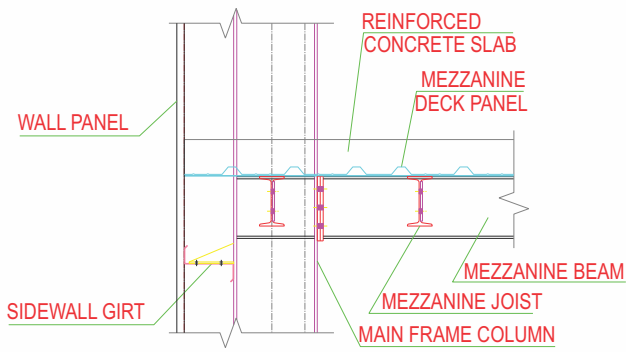
MONORAIL CRANE

Mezzanine Systems

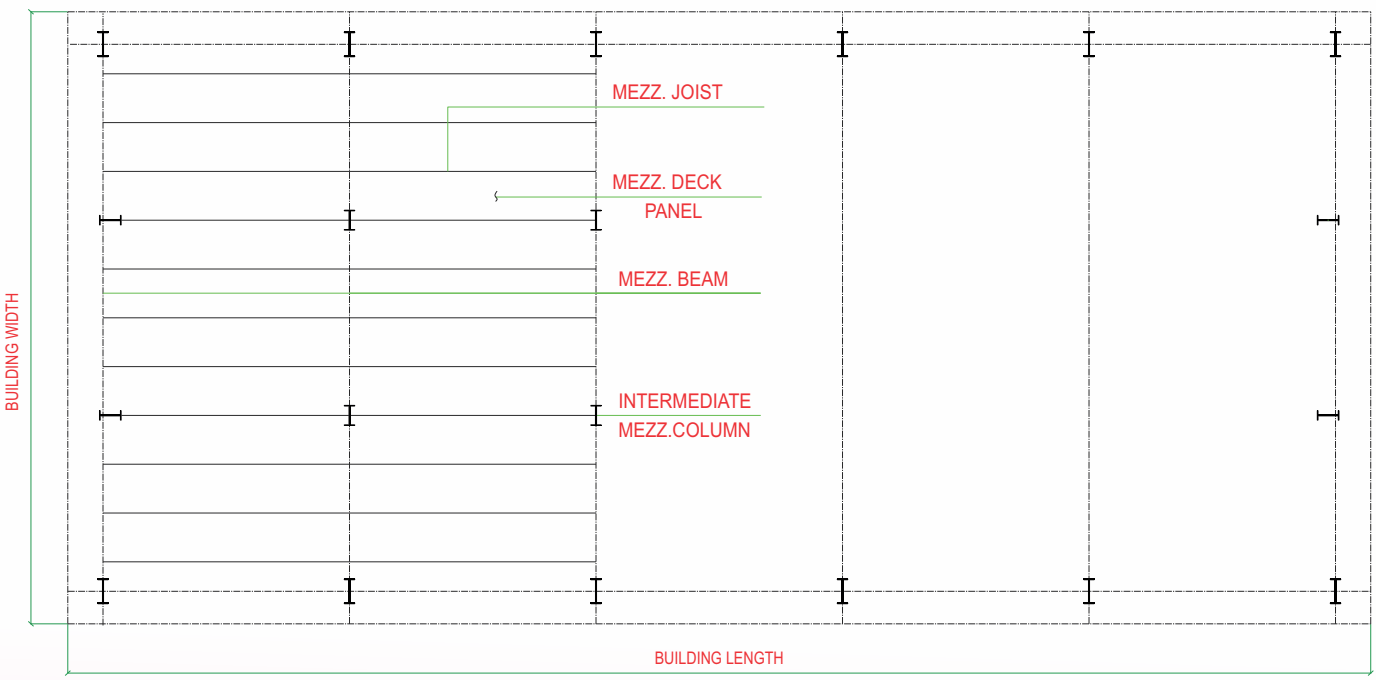
The standard Bajaj Steel Buildings mezzanine framing system consists of a steel deck supported by joists framed onto main mezzanine beams. If required by design loads, the main beams shall also be supported by intermediate columns. The economy of a mezzanine system is affected by the applied loads (dead, live and collateral) and mezzanine column spacing.



MEZZ. BEAM TO MAIN FRAME CONN.



MEZZ. BEAM TO MAIN FRAME CONN.



MEZZANINE PLAN

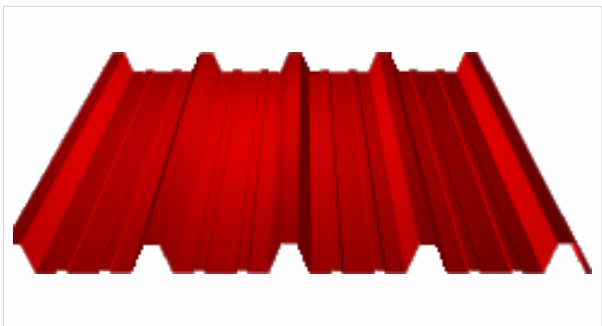
Structural Sub Systems

The standard components of Bajaj Steel Buildings consists of columns, rafters, bracing & sag rods , roof purlins, wall girts, roof & wall sheeting, anchor bolts, flashing, trims, etc are designed as per Indian standards for high strength long lasting buildings.

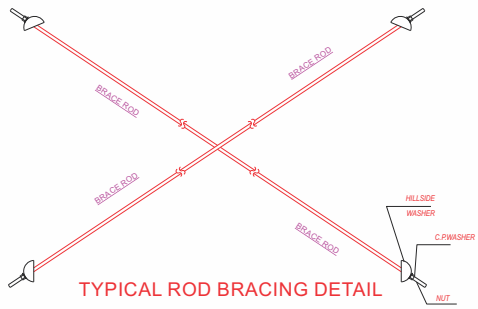
High quality steel Columns and Rafters

Spouts and Gutters

Branded Colour Coated/ Galvalume

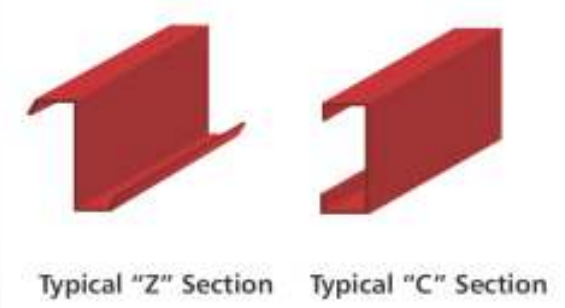


Bracing Systems



TYPICAL ROD BRACING DETAIL

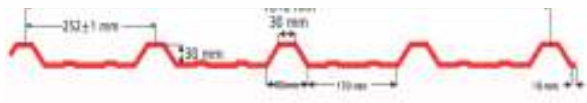
Secondary Members



Typical "Z" Section Typical "C" Section

Panels

Bajaj Steel Buildings offer roof/wall cladding of high strength (minimum 300 Mpa) Galvalume and Colour Coated GI in variety of shades & combinations are available along with Polycarbonate & F.R.P. sheets



Product Applications

- Specialized buildings for cotton ginning & pressing plants
- Factory sheds
- Ware houses
- Workshops
- Hangars
- Power plants
- Cold storage
- Multi storied buildings

OUR PRODUCT LINE

Pioneers in Cotton Ginning, Pressing Plants & Automation Machinery

Technical Collaboration with (CIRCOT)
Central Institute for Research On Cotton Technology
Mumbai,India, ICAR (Government of India)

Double Roller Gin Stand with Auto feeder

- Higher Output
- Robust Body
- Simple Operations
- Lower Maintenance
- Interchangeability of Spares
- Less Power Consumption Per Unit.

Fully Automatic Down Packing Baling Press

- High Capacity (30-35 Bales) Per Hr.
- Medium Capacity (15-18 & 20-22) Bales/Hr.
- Small Capacity 8 Bales/Hr.
- High/ Universal Density Bales

Fully Automatic Double Roller Cotton Ginning Plant

Humidification Systems

- **Moist Air Generator type / Cold Humidification Systems**
- **Instant / Online humidification**
- **Reduces pressing force**
- **Reduces power per bale**
- **Improves lint grade & appearance**
- **Designed by Samuel Jackson USA**
- **High quality construction for longer life**
- **Improves fibre parameters**

High Capacity Cotton Seed Delinting and Decorticating Machineries.

IN COLLABORATION WITH CONTINENTAL EAGLE CORPORATION SINCE 1832

Bajaj -CEC LE 176 DELINTER

Bajaj Coneagle Decorticator / Separator

A Proven Winner Since 1962

- CEC was the first to envision and implement the modern twin-roll hulling design since 1962.
- First to incorporate a decorticator with a basket beater and high speed separation.

Bajaj Coneagle Hull Beater - 4620

Unsurpassed in efficiency, the model 4620 Hull Beater is uniquely designed with a built in tailing beater eliminating the need for additional conveying systems.

Bajaj Coneagle Cotton Seed Cleaner

Uniquely designed with 2 sieve-boatsnscreen system for maximum cleaning efficiency.

Bajaj Coneagle Linter Cleaner – LC410D

The Highest Cleaning Capacity With Maximum Effectiveness . PLC Controlled Automatic Screen Cleaning.

design@blueflames.in

SINCE 1961

BAJAJ STEEL INDUSTRIES LIMITED

Imamabada Road, NAGPUR. Pin: 440018 (MS) India
Tel. : +91-712 - 272 0071- 80 (10 lines) Fax : 272 8050, 272 3068
e-mail : bsi@bajajngp.com Web : www.bajajngp.com

ISO 9001:2008 QMS

WORK ORDER FORM

CLIENT DETAIL

a) NAME :

b) ORGANIZATION :

C) CONTACT ADDRESS :

D) MOBILE No. :

e) CONTACT No. :

f) EMAIL ID :

DATE :

JOB SITE :

I. PURPOSE : _____

II. BUILDING TYPE : ☐ CLEAR SPAN ☐ MULTI SPAN ☐ RAFTER SYSTEM

III. BUILDING DETAILS

a) WIDTH (M) : _____ b) LENGTH (M): _____ c) HEIGHT (M): _____d) ROOF SLOPE :----------

IV. ADDITIONAL LOAD DETAILS

a) LIVE LOAD (KN/Sqm) : _____ b) DEAD LOAD (KN/Sqm) : _____

V) INTERIOR MAIN FRAME SUPPORT COLUMNS : ☐ NOT REQUIRED ☐ REQUIRED

(Quantity : _____ Spacing(M) :_____)

VI. ROOF SHEETING : ☐ NOT REQUIRED ☐ REQUIRED (Type : _____)

VII. WALL CLADDING : ☐ NOT REQUIRED ☐ REQUIRED (Type_____, Brick Work Height (M): _____)

VIII. CRANE DETAILS : ☐ NOT REQUIRED ☐ REQUIRED (Please fill the details below)

a) SPAN (M): _____ b) CAPACITY (MT):_____ c) BRACKET HEIGHT (M) :

d) RUN (M): _____ e) CRANE BEAM : ☐ REQUIRED ☐ NOT REQUIRED

IX.) FRAMED OPENINGS : ☐ NOT REQUIRED ☐ REQUIRED (Size (M X M):_____, Quantity : _____)

X.) MEZZANINE : ☐ NOT REQUIRED ☐ REQUIRED (Please fill the details below)

a) SIZE (M X M) : _____b) Live Load (KN/Sqm) : _____

c) Dead Load (KN/Sqm) : _____ d) Clear Height (M) : _____

XI. SKY LIGHT : ☐ NOT REQUIRED ☐ REQUIRED (Please mention _____% of Roof Area required)

XII. WALL LIGHTS : ☐ NOT REQUIRED ☐ REQUIRED (Please mention _____%of Wall Area required)

XIII. RIDGE VENTS : ☐ NOT REQUIRED ☐ REQUIRED

XIV. ROLLING SHUTTERS : ☐ NOT REQUIRED ☐ REQUIRED

XV. TURBO VENTS : ☐ NOT REQUIRED ☐ REQUIRED

XVI. WINDOWS : ☐ NOT REQUIRED ☐ REQUIRED

XVII. INSULATION : ☐ NOT REQUIRED ☐ REQUIRED (Please mention : Roof / Wal, Type : _____)

REMARKS (IF ANY) _____