CSBT

CONFIDENCE
STEEL BUILDING TECHNOLOGIES LTD.

CORPORATE PROFILE

Confidence for Sustainable Structure

www.confidencesteel.com

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MESSAGE
From Managing Director

Our expectation is to ensure cost effective steel building; achieving architectural beauty on every aspects. We are skilled in erection and fabrication of pre-engineered systems maintaining quality inmaterials, service & technical events.

CSBT has developed a dynamic management in all concernsby which we facilitate for longtime maintenance. Moreoverrigorous research before subsequent operation is the key to the success stories of CSBT till date.

Engr. Kazi Abid Hasan
Managing Director
Confidence Steel Building Technologies Ltd.

MESSAGE
From Director (Operations)

Confidence Steel Buliding Technologies Ltd provides a broad range of services in the field of pre-engineering steel building development. CSBT has excellent capabilities in modern technologies that offers high level of services in Steel Structure construction, planning, designing, scheduling and quality assurance of the project.

CSBT technical team has inherited framework for design methodology, management structure & technical support for any kind of steel structure design, fabrication & erection.

Quality, flexibility and reliability are our core values recognizing customers' best interest by our heart. We adopt transparent and ethical business practices being fair and honest in all our dealings to our stakeholders.

Engr. Md. Abdus Salam
Director (Operations)
Confidence Steel Building Technologies Ltd.

Confidence Steel Building Technologies Ltd.
in brief

Confidence Steel Building Technologies Ltd is a principal designer, fabricator and erector of structural and architectural Pre-fabricated steel Gable frames. CSBT started its formal operation in the year 2011, with a group of experienced and self motivated professionals having expertises in the relevant field.

Confidence Steel Building Technologies Ltd is a principal designer, fabricator and erector of structural and architectural Pre-fabricated Steel Gable frames with specialization in forming and supply in gof profile sheet for roof and wall, C&Z purlin, decking sheet etc.

It has carried out and presently undertaken a number of projects covering its analysis, design, supervision, quality control, construction management etc. CSBT has a team of designer and fabricators of steel gable frames and dedicated canopy structures for all clients. This steel gable frames and geometric structures are focused on environmental concerns and offer numerous advantages for LEED conscious design and application. Our steel gable frame structures are lightweight, made of high content recycled material, useless energy to produce, costless to deliver and install, come with a low maintenance/low environmental impact finish and are flexible in design to the point that they can be easily de-commissioned.

This Steel gable frame components are constructed of certified, locally/imported sourced steel. The completed structure has a tough, marresistant architectural finish (paint or powder coat) that is attractive and easy to maintain.

Key Information

Name of Company:	**Confidence Steel Building Technologies Ltd.**
Type of Company:	Manufacturer of Steel Structure
Management:	Engr. Md. Abdus Salam, Director (Operations)
Production Capacity:	500 MT per Month
Number of Employees:	150 (One Hundred and Fifty)
Corporate Office:	House# 447, Flat# B-2, Road# 6-A, Mirpur DOHS, Dhaka-1216, Bangladesh.
Contact:	02-58070723 , 01919-387105, 01716-990892.
E-Mail:	confidence.steel@yahoo.com
Principal Bankers	Islami Bank Bangladesh Limited (SWIFT CODE) Al-Arafah Islami Bank Limited South Bangla Agriculture and Commerce Bank Ltd.
Trade license:	02-27436
Certificate of Incorporation:	C-127137/2015
VAT Registration No:	17101007917
Income Tax File No:	450952888448
Web Address:	www.confidencesteel.com

Confidence Steel Building Technologies Ltd.
Organizational Structure

Confidence Steel Building Technologies Ltd has got a group of experienced and self motivated professionals in the field of steel structure design, fabrication & erection under the dynamic leadership of knowledgeable & expert management body.

Board of Directors

Engr. Syed Shamim Aziz
Chairman
B.Sc. in Civil Engineering

Engr. Kazi Abid Hasan
Managing Director
M.Sc. in Civil Engineering

Engr. Md. Abdus Salam
Director (Operations)
B.Sc. in Civil Engineering

Engr. Md. Jahirul Islam Hanif
Director (Marketing)
B.Sc. in Civil Engineering

Md. Moksadur Rahman
Director (Erection)

Dr. Md. Abu Taiyeb
Director (Design)
M. Sc in Engg, Phd.

CSBT Team

Name	Designation	Qualification	Year of Experience
N A M Akhtarul Haque	Consultant	B. Sc. in Civil Engg	19
Archect Khalid Mahmud	Consultant	B. Architecture	8
Md. Sultan Ahmed	Manager (Engg)	Diploma in Civil Engg	25
Md. Roysul Islam	Manager (Accounts)	M. Com (Acctounting)	5
Md. Rafiqul Islam	Manager (Commercial & Purchase)	Dip. in Mech. Engg	17
Md. Nazmul Hoque	Architect	B. Architecture	7
Md. Masum Billah	Asst. Manager (Production)	Dip. in Mech. Engg	4
Md. Abdullah	Asst. Manager (Engg)	Dip. in Civil Engg	4
Md. Asaduzzaman	Site Engineer	Dip. in Civil Engg	2
Md. Sabbir Hossain		B. Sc. in Mech. Engg	15
Md. Abdul Halim	Store officer	H.S.C	10
Md. Salim Hossain	Office Assistant	S.S.C	5

Confidence Steel Building Technologies Ltd.
CSBT Factory Facility

Confidence Steel Building Technologies Ltd has installed all the fully automatic machineries at its factory for most effective production, optimizing all resources involving latest technology and modern equipments. It is now producing best quality products with a current monthly capacity 500 MT.

Production Floors Space:
15,000 sft

Machinery Facilities
Hydraulic drilling and Punching machine
Hydraulic Punch machine (manual)
Magnetic H-Beam Drilling machine
Column Beam Welding machine
Sand Blasting machine
Auto welding machine
Mig welding Machine
Wall & roof sheet forming M/C
Purlin C/Z M/C
Ridge Cap Forming M/C
Deck Forming M/C

Transport and Erection Facilities
10 MT Mobile Crane
7 MT Truck Mounted Crane
5 MT overhead Crane
3 MT Pickup Van
1 nos Car
3 nos Motor cycle

Workshop Manpower:

Production:	25 person
Fabrication:	32 person
Erection:	50 person
Welder:	25 person
Marketing:	3 person
Accounts, admin & store:	5 person
Security:	5 person
Transport & Delivery:	5 person
Total manpower:	**150 person**

Factory Management

Engr. Jahirul Islam
Director (Marketing)
B. Sc. in Civil Engg
14 years of experience

Md. Sultan Ahmed
Manager (Engg)
Dip. in Civil Engg
25 years of experience

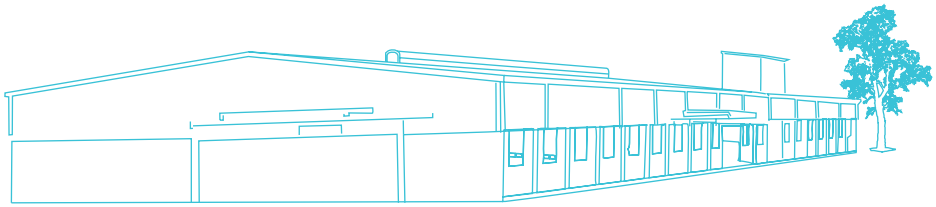
Md. Masum Billa
Asst. Manager (Production)
Dip. in Mechanical Engg
4 years of experience

Md. Abdullah
Asst. Manager (Engg)
Dip. in Civil Engg
3 years of experience

Md. Asaduzzaman
Site Engineer
Dip. in Mech. Engg
1 year of experience

Md. Sabbir Hossain
Site Engineer
Dip. in Mech. Engg
1 year of experience

Md. Abdul Halim
Store Officer
8 years of experience



Factory Address: Plot-221, Dhaka-Aricha Highway, Jadurchar, Hemaetpur, Savar, Dhaka.
Contact: 01839-597942

Confidence Steel Building Technologies Ltd.
Design Codes

The buildings are designed in accordance with the following codes:

Loads on all buildings are applied in accordance with:
Bangladesh National Building Code, 1993

Built-up sections and hot rolled sections are designed in accordance with:
1989 Manual of Steel Construction–Allowable Stress Design
American Institute of Steel Construction, Inc. (AISC)

Cold formed members are designed in accordance with :
1986 Edition of Cold Formed Steel Design Manual
American Iron and Steel Institute (AISI)

Welding is applied in accordance with:
1996 American Welding Society (AWS D.1.1.96)
Structural Welding Code–Steel Manual

General Specifications

Component	**Specification**	**Strength** (KN/cm2)
Built-up Materials	ASTM A572M Grade 345 Type 1	Fy =34.5
Hot Rolled Members Tubes	JIS-G 3466-STKR 490/ASTM A500 Grade B	Fy =32.5
Hot Rolled Members Channels	EN–10025 S355JR	Fy =35.5
Anchor Bolts	JIS–G3101– S S 400	Fy =23.5
High Strength Bolts	A325 M Type 1 Hot Dip Galvanized/Din 933 HEX Head Bolt Grade 8.8/4.6	Ft =30.3
Roof Panel	ASTM A792M Grade 345 Class 1 Coating Az150, Colored sheet thickness =0.47 mm	Fy =34.5
Bracing Cable	ASTM–A475–Extra High Strength Class A	Fy =119.7

CSBT MILESTONES

GREATWALL CERAMICS INDUSTRIES LTD.

Factory Address: Gilarchalla, Sreepur, Gazipur.
Executed: 2014
RMWH: 83,000 sft, RMWH-2: 20,000 sft

CHARU CERAMIC INDUSTRIES LTD.

Factory Address: Madhobpur, Habiganj.
Executed: 2015
Area: 3,50,000 + 32,000 sft

PETROMAX REFINERY

Address: Babubari, Rampal, Bagerhat.
Executed:2014~2015
Area: 25,000 sft

POLY CABLES

Factory Address: Habiganj.
Executed: 2015

SHYAMOLI BEVERAGE (PVT.) LTD.

Mineral Water Factory
Address: Baliarpur, Savar, Dhaka.
Executed:2012~2013

ARAFAT DAIRY

Factory Address: Lalmonirhat.
Executed: 2013

F K TEXTILES

Factory Address: Habiganj.
Executed: 2015

AGRO INDUSTRIAL TRUST **(AIT)**

Floating Feed Mills
Address: Rakhaliarchalla, Shafipur, Gazipur.
Executed:2013

BGB

Address: Pilkhana, Dhaka.
Executed:2016

TRANSCOM BEVERAGE

Beverage Factory
Address: Konabari, Gazipur.
Executed: 2012

MISSION FOOD INDUSTRIES LTD.

3-storied Food
Factory Address: Ashulia, Savar, Dhaka.
Executed:2011

UNIFILL COMPOSITE DYEING MILLS LTD.

Dyeing Factory : Turnkey Project
Address: Gobindobari, Kashimpur, Gazipur.
Executed:2006~2008
Area: 80,000 sft

UNIFILL TEXTILE MILLS LTD.

Address: Tarabo, Narayangonj.
Executed:2009
Area: 18,000 sft

ANAM CLOTHING

Embroidery Factory : Turnkey Project
Address: Khatul Bazar, Gazipura, Tongi, Gazipur.
Executed:2008

Technical aspects

PRE-ENGINEERED BUILDINGS COMPONENTS

A Pre-Engineered Buildings (PEBs) is a steel shell utilizing three distinct product categories:

1. Built-up "I" shaped primary structural framing members (columns and rafters).
2. Cold-formed "Z" and "C" shaped secondary structural members (roof purlins, eave struts and wall girts).
3. Roll formed profiled sheeting (roof an wall panels).

Basic Building Parameters

Pre-engineered buildings are defined bythe following basic parameters: Building Width, Length, Height, Roof Slope, EndBay Length, Interior Bay Length andDesign Loads.

Building Length

Building length is the distance betweenthe outside flanges of endwall columns inopposite endwalls. It is a combination ofseveral bay lengths.

Building Height

Building height is the eave height, whichis usually the distance from the bottom ofthe 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 side wall.

Interior Bay Length

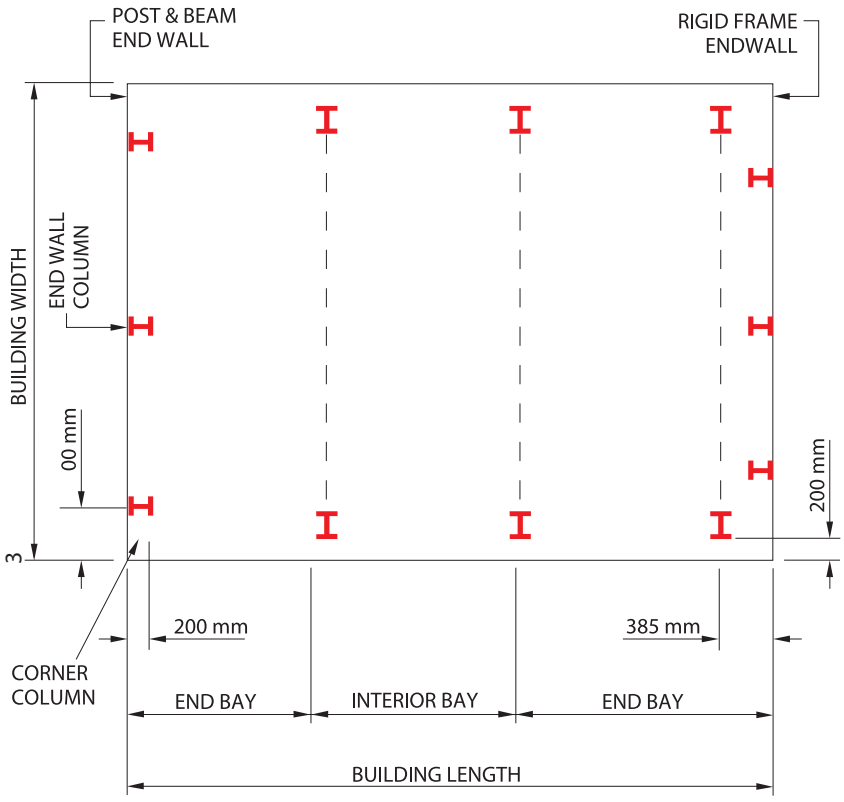
This is the distance between the center lines of two adjacent interior main frame columns. The most common bay lengths are 6, 7.5, and 9 meters. Any bay length ispossible up to 15 meters.

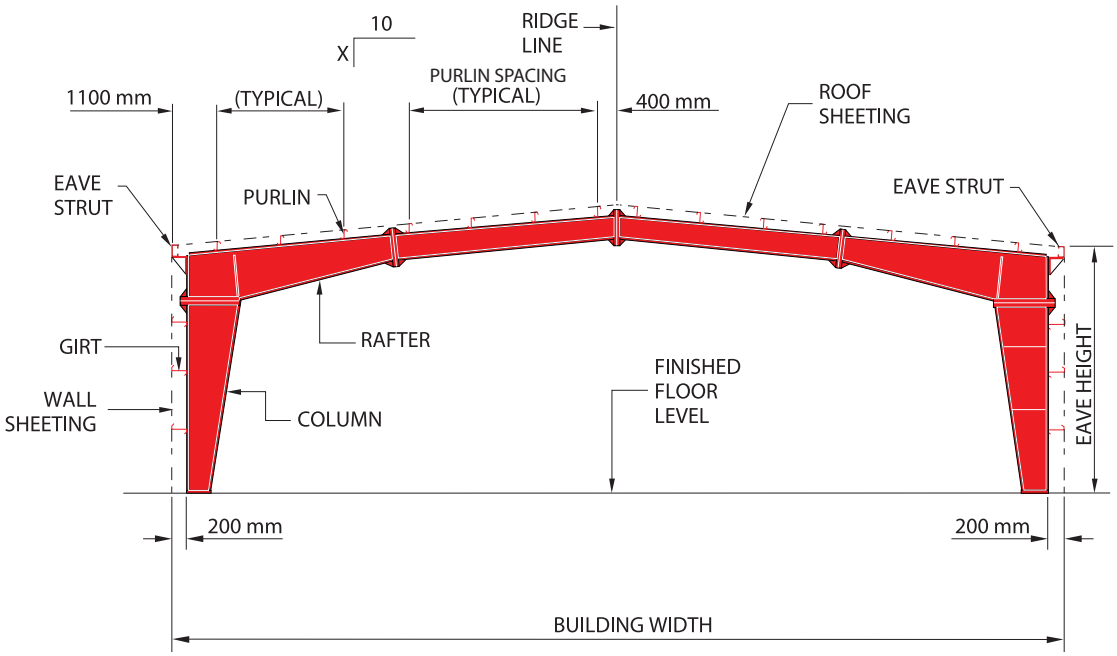
End Bay Length

This is the distance from the outside of the outer flange of end wall columns to the center line of the first interior frame column.

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.





Pre-Engineered Buildings Advantages

Fast Project Construction:
Anchor Bolts are delivered earlier than the Building.
Buildings are fabricated and delivered within a short period due to standardization.
Fast erection because all members are field bolted.

Superior Product Quality:
Design Quality is consistent and is based on latest design in USA Codes.
Welding is done by professional welders.
Materials are ordered as per recognized standard.
Fabrication is done as per a Quality Plan.

Functional Versatility:
Modular construction.
Large clear Spans (up to 100m).
Long Bay Spacing (up to 13m without Jack Beams).
Buildings are easily expandable on all sides (allowing for future expansion).

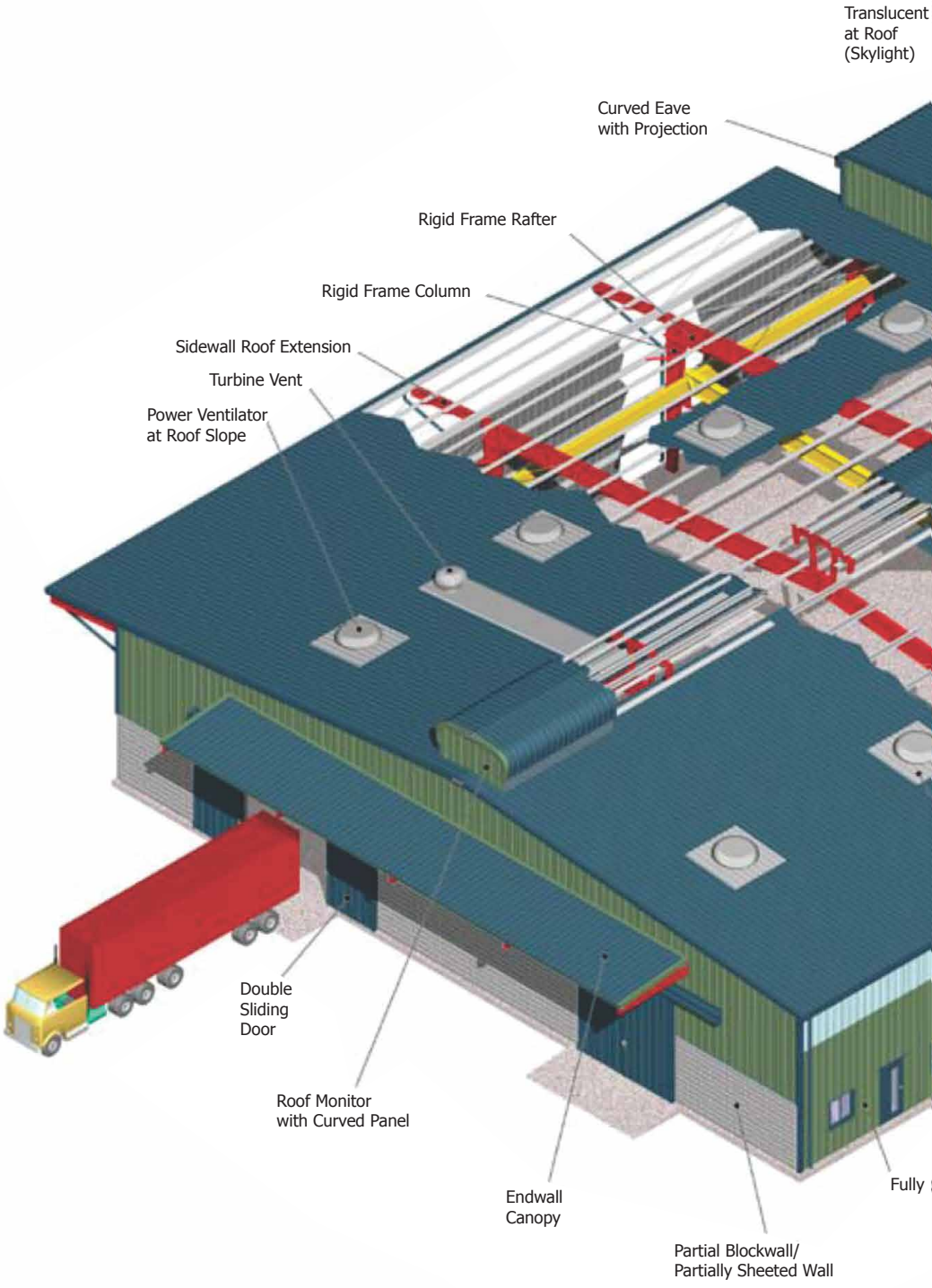
Low initial cost due to:
the use of tapered built up structural members (Columns & Rafters);
the use of Z shaped secondary members (Purlins & Girts) that allows overlapping;
foundation are fewer and lighter.

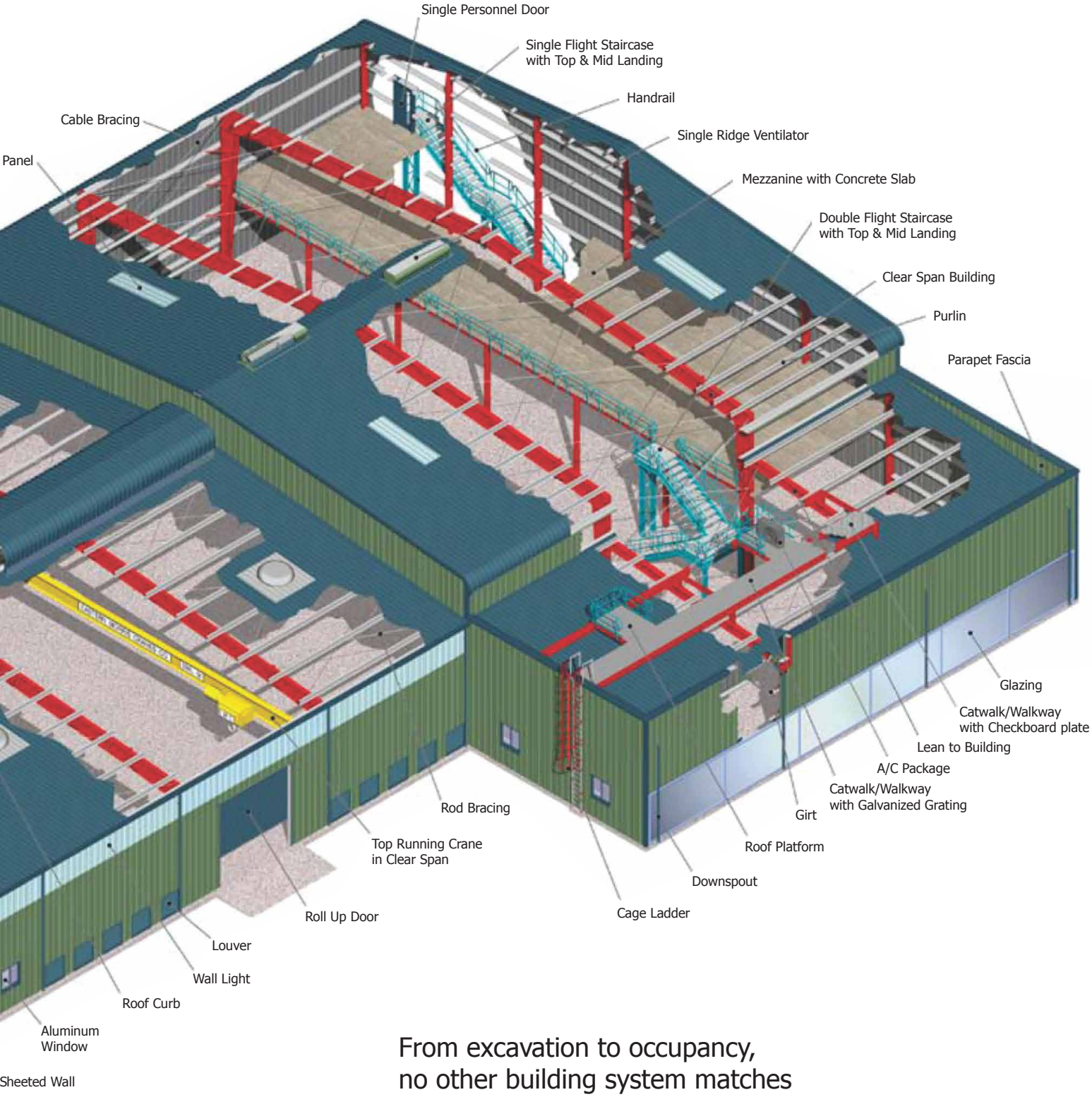
Architectural Flexibility:
Aesthetic features such as fascias, parapets and curved eaves greatly improve the appearance of the building.
Flashing and Trims are available in different shapes and colors.
A wide range of wall and roof sheeting.
Readily available interface details between steel and other materials (glazing, blockwall, curtainwall, etc).

Low Maintenance and Operating Costs:
Virtually no maintenance required for all panels.
Roof requires only periodic cleaning.Annual washing of Eave Gutters.
Energy efficient roof and wall systems through usage of insulation.
Watertight roofs.

Isometric View of a Steel Building

For those who demand quality
at a reasonable price



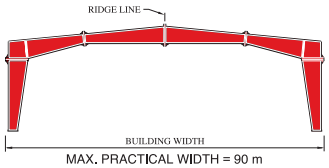


From excavation to occupancy, no other building system matches the pre-engineered building system in speed and value

Primary Framing Systems

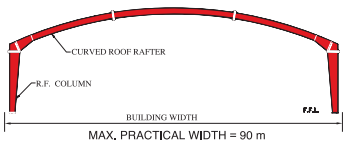
CSS Pre-Enginee red Buildings are constructed using a variety of framing systems. The diagrams on this page illustrate those most commonly employed. They are symmetrical at the ridge line. Asymmetrical and non-equal Multi-span Framing Systems are also available.

Clear Span (CS)



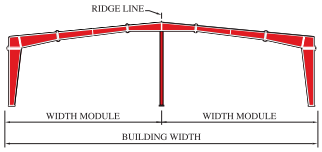
MAX. PRACTICAL WIDTH = 90 m

Arched Clear-Span (AS)



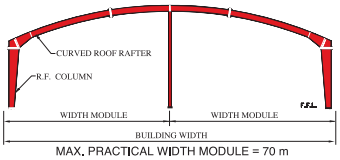
MAX. PRACTICAL WIDTH = 90 m

Multi-Span "1" (MS-1)



MAX. PRACTICAL WIDTH MODULE = 70 m

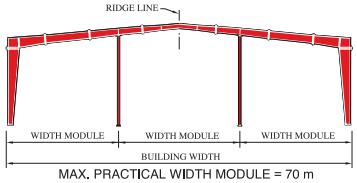
Arched Multi-Span (AMS-1)



MAX. PRACTICAL WIDTH MODULE = 70 m

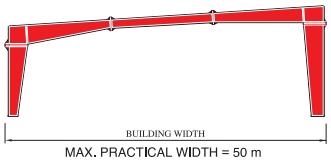
More Multi-Spans are possible (AMS-2, AMS-3,...)

Multi-Span "2" (MS-2)



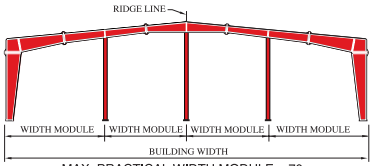
MAX. PRACTICAL WIDTH MODULE = 70 m

Single Slope (SS)



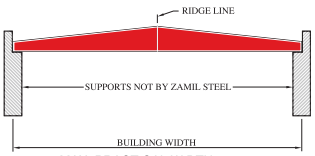
MAX. PRACTICAL WIDTH = 50 m

Multi-Span "3" (MS-3)



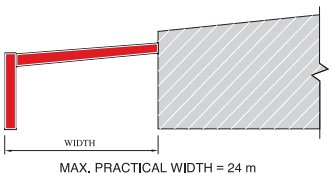
MAX. PRACTICAL WIDTH MODULE = 70 m

Roof System (RS)



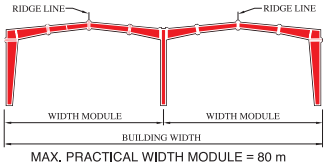
MAX. PRACTICAL WIDTH = 30 m

Lean-To (LT)



MAX. PRACTICAL WIDTH = 24 m

Multi-Gable (MG)



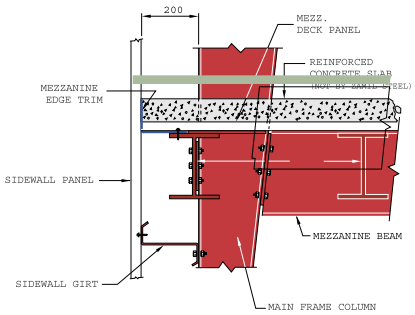
MAX. PRACTICAL WIDTH MODULE = 80 m

Mezzanine Systems

The standard mezzanine framing system consists of a steel deck supported by joists framed onto main mezzanine beams. The main beams may also be supported by intermediate columns if dictated by design loads. The top flange of the joists fits immediately below the top flange of the primary beams. Applied floor loads, such as dead, live and collateral loads along with mezzanine column spacing, can affect the economy of a mezzanine system.

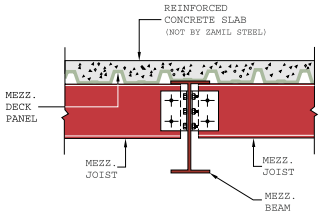
Unless otherwise specified, the primary mezzanine beams should run across the width of the building parallel to the main frame rafters. Joists should run parallel to the roof purlins along the length of the building. Multi-level mezzanines, including features such as interior equipment platforms, catwalks, floor openings and staircases are also available.

Mezzanine Beam Connection to Main Frame Column

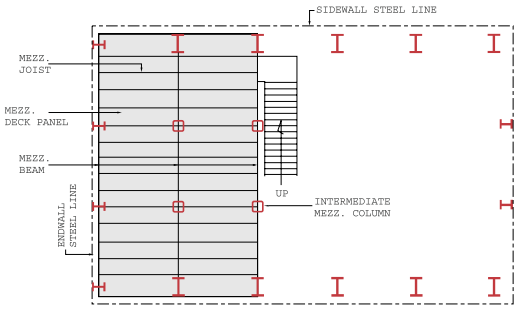


Mezzanine Floor View

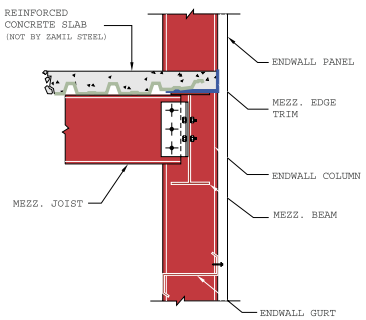
Mezzanine Joist Connection to Mezzanine Beam



Mezzanine Plan



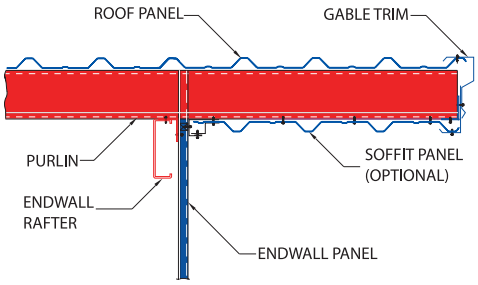
Joist Connection to Endwall Column



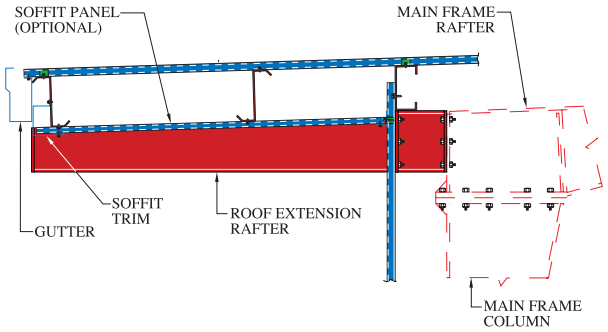
Structural Subsystems

This section contains few subsystem examples of actual Pre-Engineered Buildings, along with simple sketches of some of their structural configurations.

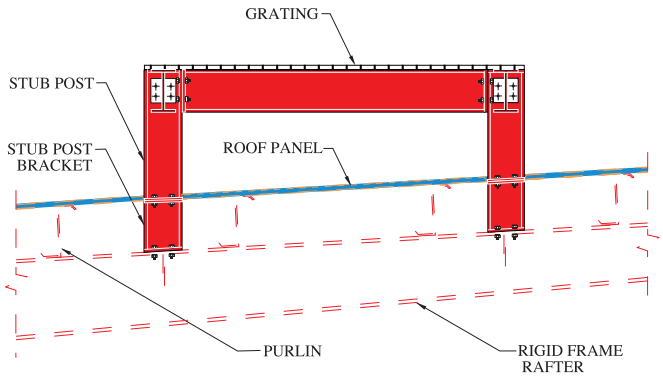
Endwall Roof Extension



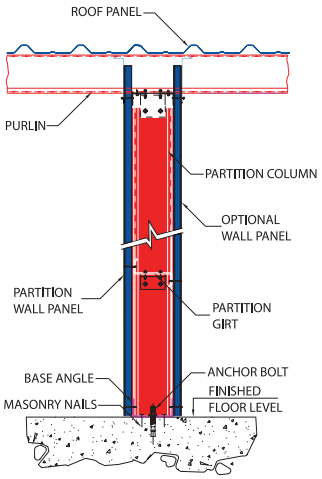
Sidewall Roof Extension



Roof Platform

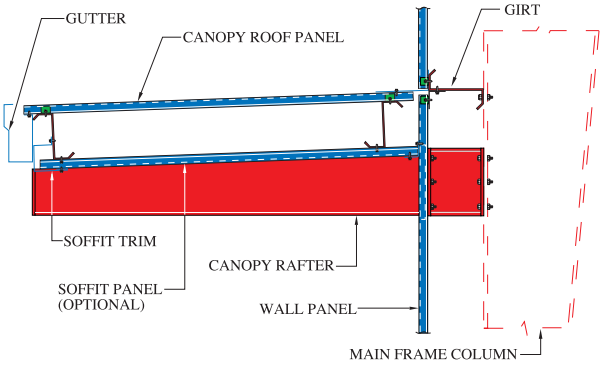


Transverse Partition

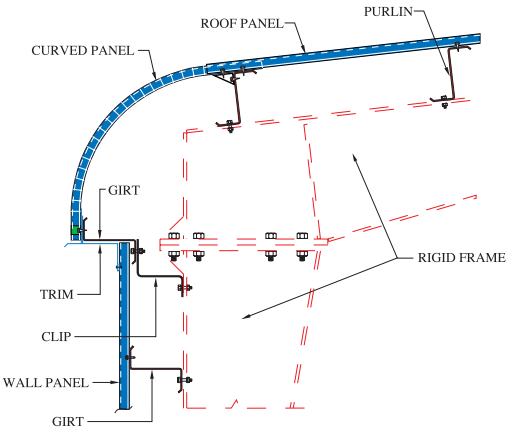


Structural Subsystems

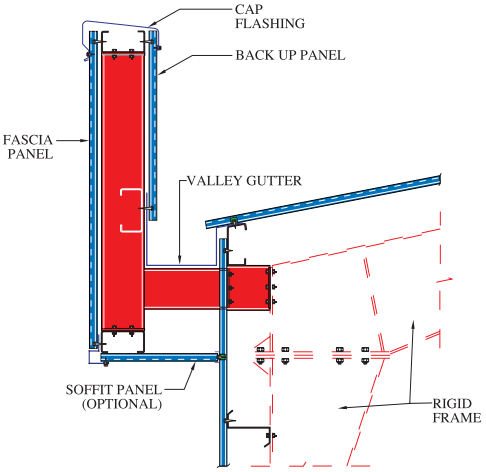
Canopy



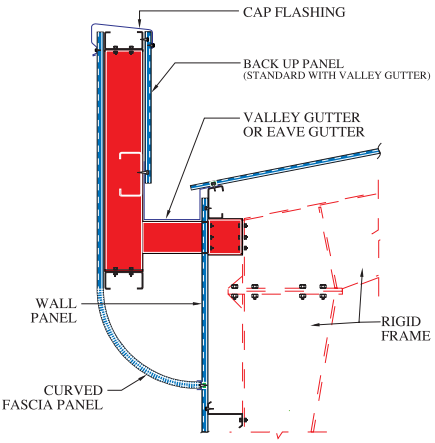
Curved Eave with Projection (without valley gutter)



Vertical Fascia with Back Up Panel and Valley Gutter



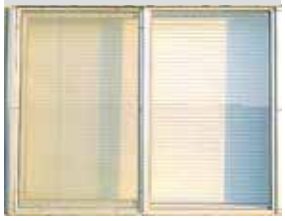
Bottom Curved Fascia



Building Accessories

CSS Pre-Engineered Buildings can be designed with your choice of a variety of attractive and architecturally sound accessory options. Windows, doors, natural lighting and ventilation accessories are available to fit almost any of your requirements. Here are a few examples, as they appearin existing buildings.

Window



Fixed Louver

Adjustable Louver

Roof Skylight

Insulation

Wall Light

Ridge Ventilator

Power Ventilator

Roof Curb
Shown supporting a Power Ventilator

Turbine Ventilator

Sliding Door

Personnel Door

Roll-up Door

CSBT Factory

Statements, descriptions, specifications and dimensions contained herein are in effect as of the date of this issue. CSBTL reserves the right to make material subtitutions and changes in specifications and construction methodology as and when deemed necessary.

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CSBT

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