UTKARSH®
Life demands. We deliver.

Reinventing
construction for U

UTKARSH®
Life demands. We deliver.

UTKARSH INDIA LIMITED
Arrjavv Square, 95A, Elliot Road, 4th Floor, Kolkata-700 016, India
www.utkarshindia.in | 033 4190 0001

From Us to U

Dear Friends,

Living by John Henry Newman's philosophy - "Growth is the only evidence of life", we have evolved into Utkarsh India Limited from Utkarsh Tubes and Pipes Ltd., by diversifying into infrastructural solutions. A nation's growth undoubtedly lies in its infrastructural development.

Expanding our horizons beyond national borders, we have been touching more lives by adding infrastructural development across the globe, proudly contributing to the growth of foreign nations. A feat like this would have been impossible without the invaluable support of our esteemed suppliers, distributors and dealers. I extend my deepest gratitude to them.

Also, without an innovative, talented and passionate team of smart and far-sighted people, scaling the mountains of success over the last 40 years, would have been a dream. A strong and experienced management ensures a smooth flow of the inner workings, much like our pipes. Utkarsh's adeptness stems from this seamless coordination among management, co-workers and our associates.

Sticking to our corporate ethos of 'U are our commitment', we bring the strong promise of consistency and reliability, ensuring optimum consumer satisfaction.

'Customer first' is the motto that drives us to bring you quality.

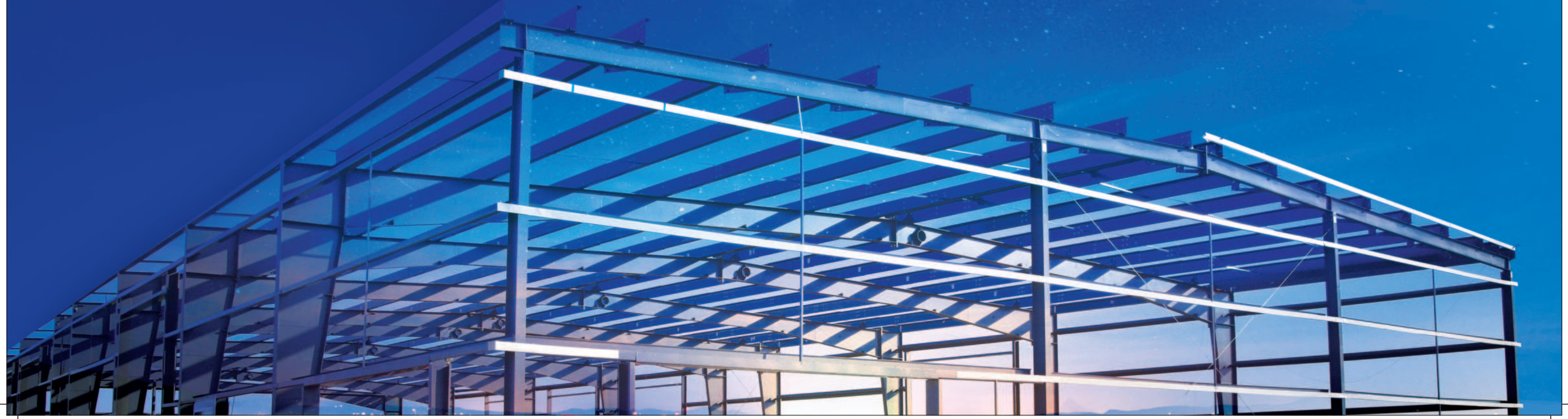
Regards,
SUNIL BANSAL
UTKARSH BANSAL

Shaping tomorrow with strength

Utkarsh India is a trusted name in engineered infrastructure, delivering precision-made solutions in MS, GI & ERW Pipes, Railway Electrification Towers, Polymer Products, Poles and Mounting Structures. With 40+ years of expertise, we set benchmarks across sectors.

In 2021, leveraging the legacy and technical expertise, Team Utkarsh forayed into Pre-engineered Steel Buildings—providing end-to-end solutions that include design, drawing, fabrication and erection. Our advanced facility in Gurap, West Bengal, has enabled us to deliver nearly 80 lakhs sq. ft. of built-up space across India.

AT UTKARSH, WE BUILD MORE THAN STRUCTURES WE BUILD TRUST



Our commitment

At Utkarsh India Ltd., we are firmly committed to the success of our business, specialising in the design, detailing, manufacture and installation of pre-engineered steel buildings. Our policy reflects our unwavering dedication to excellence across all aspects of our operations.

We take pride in delivering superior quality, safeguarding the environment and setting industry benchmarks.

Our Mission

At Utkarsh India, we strive to redefine excellence by delivering high-quality products and outstanding customer service. Much of our clientele comprises satisfied customers who continue to choose us over others.

Our Key motives

- To deliver world-class products and services at competitive prices through cutting-edge technology and innovation, while maintaining our commitment to excellence
- To consistently prioritise quality, protecting the company's long-term reputation and integrity
- To foster inclusive growth by developing talent and creating opportunities for our employees
- To share every success with our partners, recognising the vital role all stakeholders play in our achievements

Our Vision

Team Utkarsh always aspires to be a driving force in nation-building by empowering key sectors such as infrastructure, agriculture and water supply through reliable and advanced engineering solutions.

Our focus is on creating lasting value for our customers and stakeholders, while continually improving through research, responsible practices and a commitment to progress.

We envision a future where our products and principles help shape stronger communities and a more resilient nation.

Why Utkarsh?

- Custom-designed, cost-efficient structures
- Engineered with STAAD.Pro, AutoCAD, Tekla
- On-time project delivery
- Expert support from design to handover
- In-house QA-QC lab
- 40 years of industry legacy
- A 100+ acre sprawling facility by NH-19
- Advanced machinery & profiling systems
- Raw materials from SAIL, TATA STEEL, AMNS
- Ongoing R&D in hybrid structures & high-grade steel
- Pan-India erection network

Engineering Department

- 20+ Expert Structural Design Engineers
- Skilled and Detail-Oriented Draftsmen
- Experienced Project Engineers
- Software Used for Structural Design - STADD (latest version)
- Software Used for Detailing / Drawing - Tekla, AutoCAD

Comparisons between conventional & pre-engineered buildings

PARAMETERS	CONVENTIONAL STEEL BUILDING	PRE-ENGINEERED STEEL BUILDING
Structure Weight	Heavier and Higher Steel Consumption	Less and Optimized
Erection and Cost	More time and cost as more weight is concerned	Less time and cost as less weight is concerned
Delivery	More time is required as weight is high	Less time is required as weight is less
Manufacturing and time	At site and more time is required	Within controlled environment and less time is required
View	Good but not compact	Compact, neat and clean
Erection time	More time is required	Less time is required

Applications of pre-engineered steel buildings

- Warehouses and distribution centres
- Industrial factories
- Workshops
- Aviation facilities and hangars
- Cold storage units
- Heavy structural engineering projects
- Community and government buildings
- Railway stations
- Bridges
- Airport buildings
- Multi-storey buildings
- Malls and multiplexes
- Indoor stadiums and auditoriums
- Hospitals
- Schools and more...

PEB parameters and components

Pre-engineered steel buildings are 100% custom-designed to provide maximum space utilisation, excellent aesthetics and the highest safety standards.

Our foundation of basic architectural measures

Building Width: The distance between the outside of the eave strut of the rear side wall and the outside of the eave strut of the front wall

Building Length: The distance between the outside flange of the end wall columns on the left and right end walls

Building Height: The eave height is the distance between the base plate and the eave strut

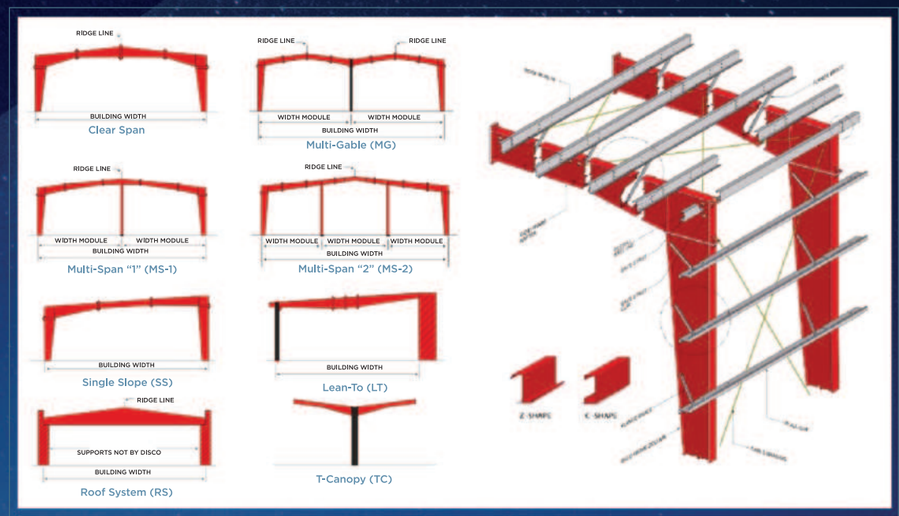
Building Clear Height: The minimum usable height inside the building, referred to as the clear height

End Bay Length: The distance from the outside of the outer flange of the end wall columns to the centre line of the first interior frame columns

Interior Bay Length: The distance between the centre lines of two adjacent interior main frame columns, typically based on the owner's requirements

Roof Slope: The angle formed by the roof relative to the horizontal

PICTURES OF PRIMARY FRAMING SYSTEMS



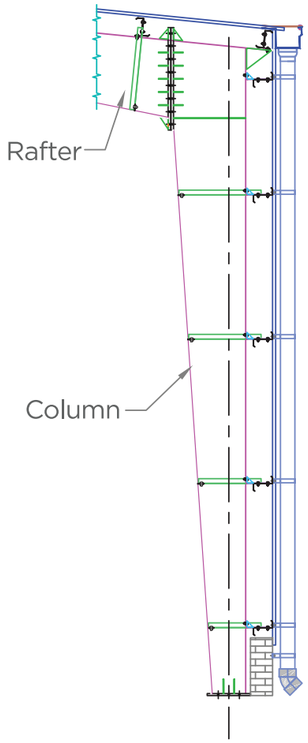
Structural Components

Primary built-up members

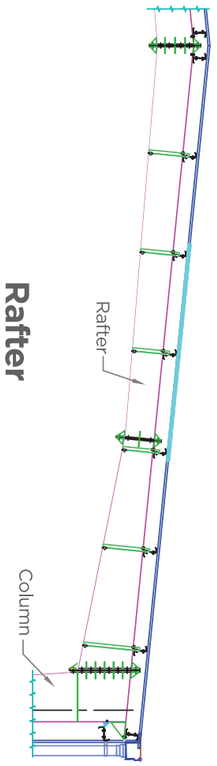
Minimum Yield Strength: 345 MPa
High-Strength Steel:
ASTM A572

Secondary built-up members

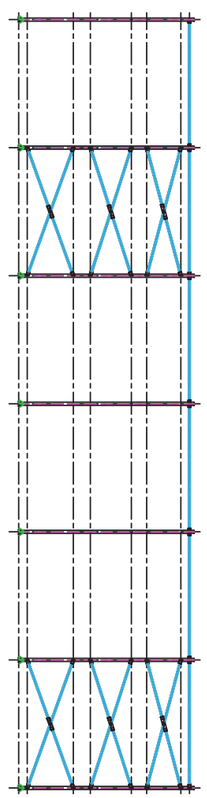
Minimum Yield Strength: 345 MPa
High-Strength Steel:
ASTM A553



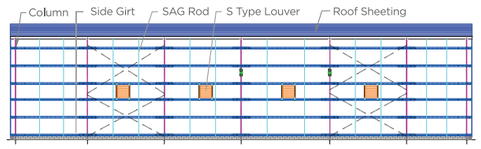
Column



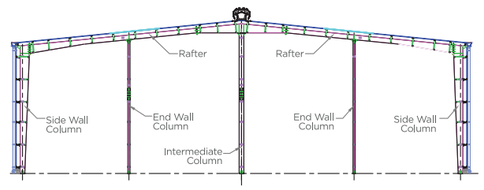
Rafter



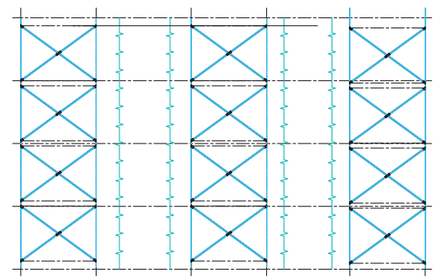
Wall Bracing Elevation



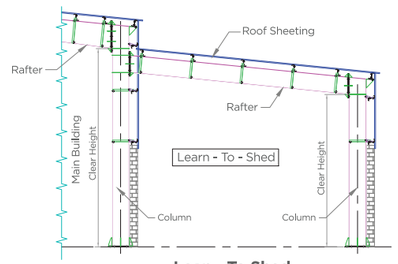
Side Wall Framing Elevation



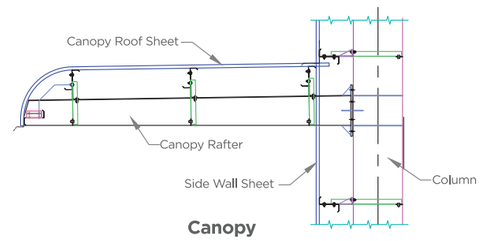
End Wall Cross Section



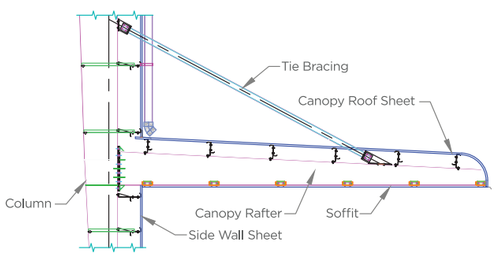
Roof Bracing Plan



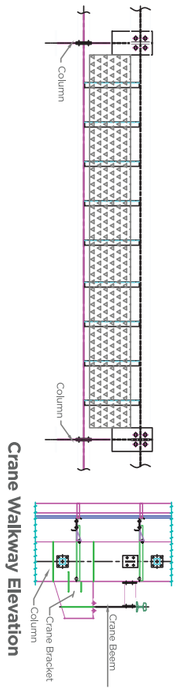
Lean - To Shed



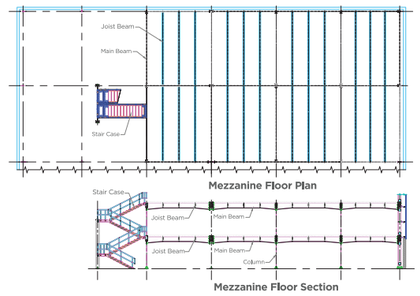
Canopy

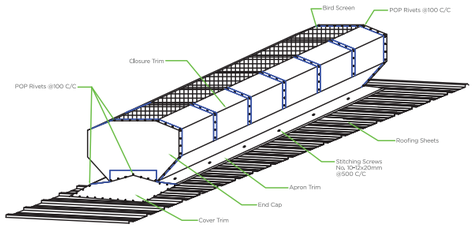


Canopy With Soffit

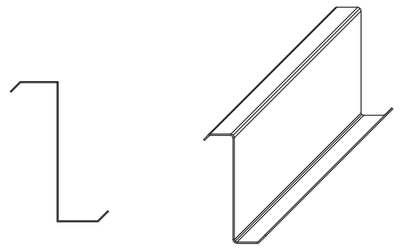


Crane Walkway Elevation

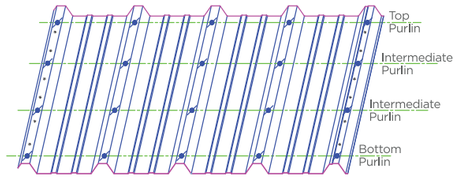




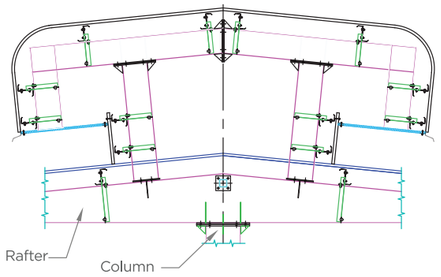
Ridge Ventilator



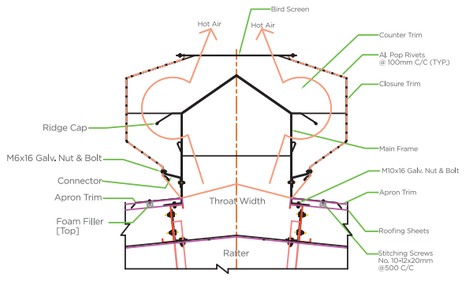
Cross Section of Purlin & Girt 3D View



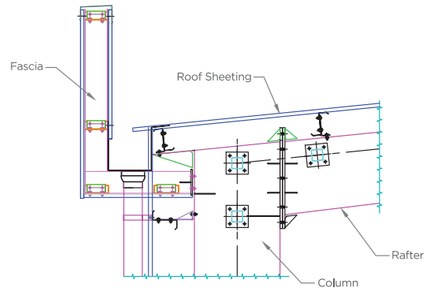
Roof Sheets



Roof Monitor



Cross Section



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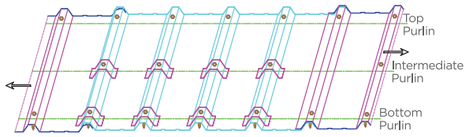
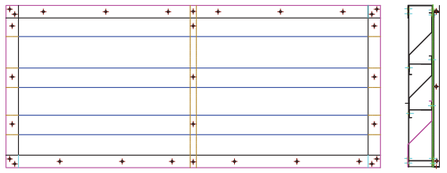
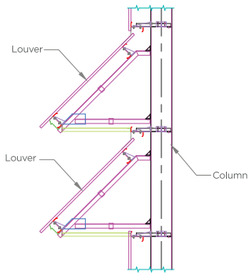


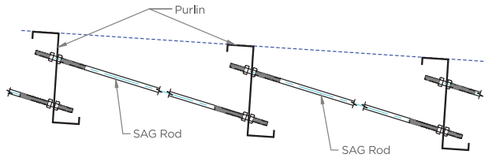
Roof Day Light Panel Fixing



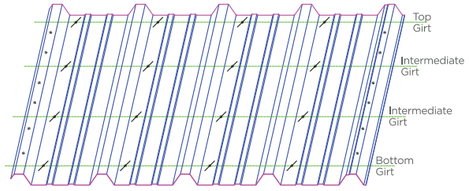
S Type Louver



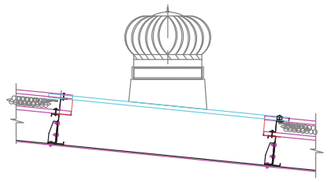
Industrial Louver



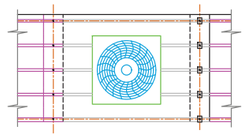
SAG Rod Fixing Detail



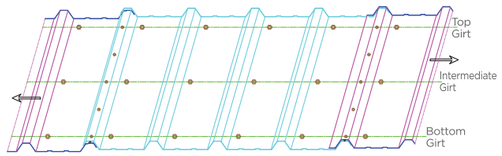
Wall Cladding Sheet



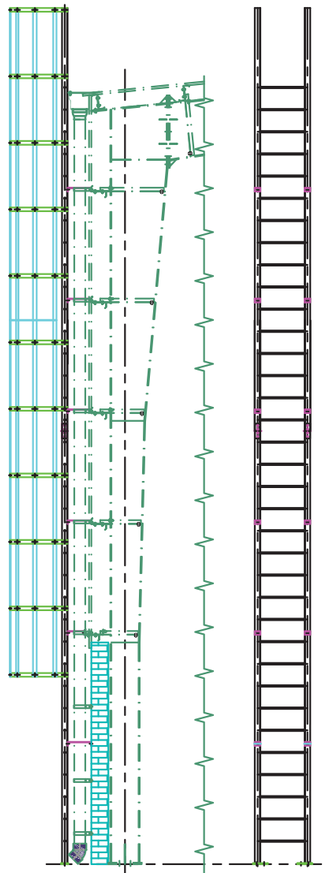
Turbo Ventilator Elevation



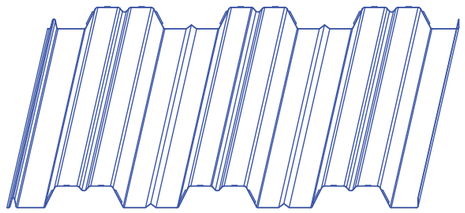
Turbo Ventilator Plan



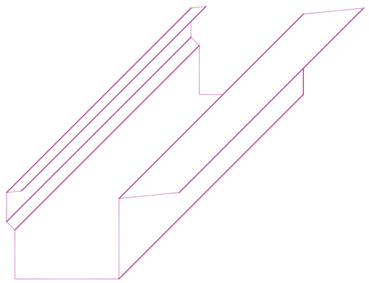
Wall Light Sheet Fixing



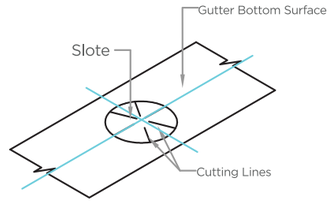
Cage Ladder



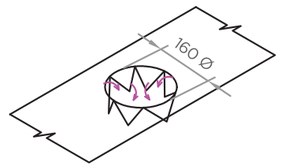
Deck Sheet



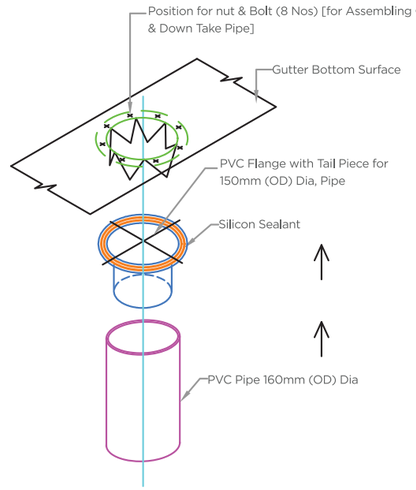
Eave Gutter



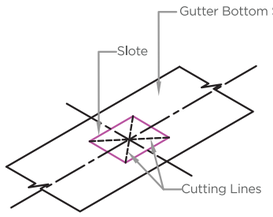
Cut the Slot in Gutter Mid Before Bending
[Step-I]
Typ. Steps for Fixing PVC with Gutter



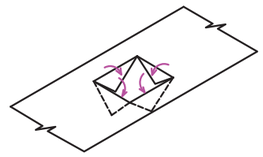
Bend Down The Cut Portions Towards Pipe
[Step-II]



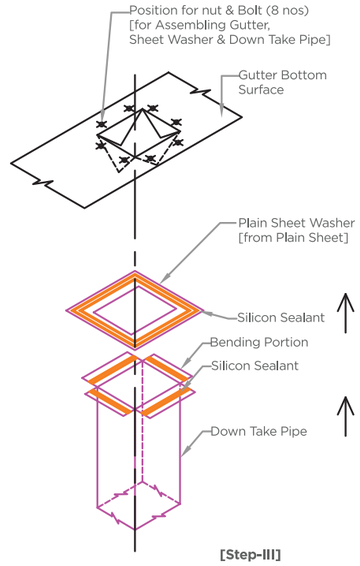
Fix the DSP With Bending Portion
[Step-III]



Cut the Slot in Gutter Mid Before Bending
[Step-I]



Bend Down the Cut Portions Towards Pipe
[Step-II]



[Step-III]
Fix the Dsp with Bending Portion (By Rivetting)
As Covering Form out side

Typ. Steps for Fixing DSP with Gutter

Unmatched design of pre-engineered steel buildings

Applicable design codes

MBMA (Metal Building Manufacturers Association)

- In accordance with the 2006 edition of the low-rise building systems manual
- Wind load: IS-875 (Part III) – 1987
- Earthquake load: IS-1893 (Part II) – 2002
- Hot rolled and built-up steel: manual of steel construction, 9th edition (AISC)
- Cold-formed sections: 1996 edition (AISI)
- Welding – Structural steel: AWS D1.1 (1998)

BIS (Bureau of Indian Standards)

- Design dead load: IS-875 (Part I) – 1987
- Design imposed load: IS-875 (Part II) – 1987
- Design wind load: IS-875 (Part III) – 1987
- Earthquake resistance: IS-1893 (Part I) – 2002
- Design of hot rolled built-up sections: IS-800 (1984 & 2007)
- Tapered built-up sections: AISC, 9th edition
- Cold-formed sections: IS-801 (1975)
- Welding – AWS D1.1 (1998), IS-816 (1969)

Utkarsh India employs modern design software such as
STAAD Pro and MBS, along with drafting software like AutoCAD and Tekla.

Strength that supports crane systems

At Utkarsh, we design crane systems only after a thorough understanding of the client's requirements. Our pre-engineered steel buildings are capable of supporting various crane systems, ensuring functionality, safety and reliability.

Buildings with mezzanine systems

Utkarsh mezzanine solutions integrate seamlessly with existing infrastructure, providing additional floor space for a variety of applications. Engineered with precision and structural integrity, our mezzanine systems offer a cost-effective means to expand storage, production or office areas.

The structural framework ensures both stability and safety, complying with all relevant industrial standards. Whether enhancing storage capacity or optimising office layouts, our mezzanine systems redefine spatial efficiency— offering a smart, practical solution for businesses seeking to maximise available space.

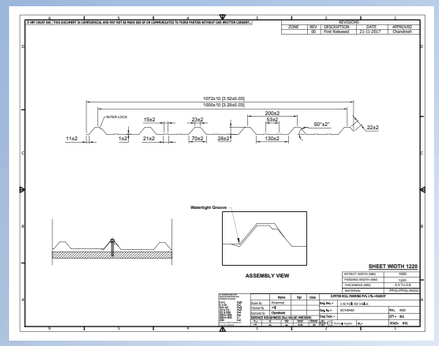
Roofing and wall cladding

Utkarsh pre-engineered steel buildings typically feature roofing and wall cladding made from premium 550 MPa colour-coated Galvalume sheets, conforming to AZ-150 (150 grams/m²) as per ASTM A792 or AS 1392. Various sheet thicknesses are available to suit different structural requirements.

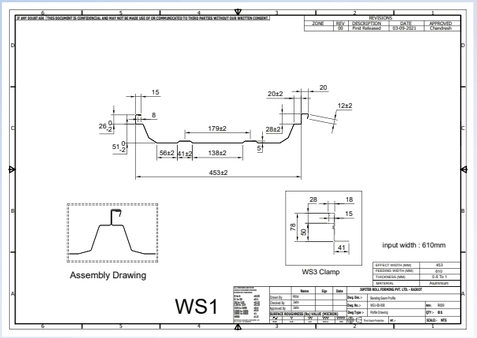
Bare and Colour Coated Galvalume Sheeting

- Technical Specifications - As per ASTM A 792M Fy 550 MPa AZ 150
- Coating Specifications - Regular Modified Polymer (RMP), Silicon Modified Polymer (SMP), Special Durable Polyester (SDP), Polyvinylidene Fluoride (PVDF)

Standard Trapezoidal Profile



Standing Seam Profile



Details of Built-up Section

- Technical Specifications - ASTM A 572M Grade 345 / IS 2062 E350 Grade A, Fy 345 MPa
- Source - Steel Authority of India Limited (SAIL)

Projects

Location : Kolkata, Near Science City,
Dist. South 24 Parganas, West Bengal
Industry : Logistics
Usage : Cold Storage and G+2 Office Building
Area : 82000 square feet

Location : Jeetpur, Dist. Bara, Nepal
Industry : Manufacturing
Usage : Factory
Area : 2,33,000 square feet
(combined area of 3 sheds)

Location : Dugni, Dist. Saraikela Kharsawan,
Jharkhand
Industry : Metal
Usage : Factory
Area : 1,14,000 square feet

Location : Deulti, Dist. Howrah, West Bengal
Industry : Manufacturing
Usage : Factory
Area : 88000 square feet

Location: Bhadreswar, Dist. Hooghly, West Bengal
Industry: Textile **Usage:** Factory **Area:** 54000 square feet

Projects

Location : Panchla Ganesh Complex,
Dist. Howrah, West Bengal
Industry : Logistics
Usage : Warehouse
Area : 69000 square feet

Location : Kalyani, Dist. Nadia, West Bengal
Industry : Animal Feed
Usage : Factory
Area : 1,03,000 square feet

Location: Dumka, Dist. Dumka, Jharkhand
Industry: Power, **Usage:** Factory, **Area:** 72500 square feet

Company Name - Utkarsh India Limited			
Sl. No.	Project / Customer Name	Location	Type of Project
1	Verb Exports	Purulia, WB	Warehouse
2	Reliance Industries Ltd.	Amta, WB	Warehouse
3	Reliance Industries Ltd. (Fowler)	Amta, WB	Warehouse
4	Prestige Vinyl	Jeetpur, Nepal	Factory
5	Celebrity Breweries	Dhanaiakhali, WB	Factory
6	Oriental Compressor	Budge Budge, WB	Factory
7	Megaspace Infra Ranchi,	Jharkhand	Warehouse
8	N. S. Power Dumka,	Jharkhand	Factory
9	Sat Metal	Jamshedpur	Factory
10	Rungta Mines	Dhenkenal	Warehouse
11	Megaspace Infra Ranchi,	Jharkhand	Warehouse
12	Kushal Polysacks	Kolkata	Cold Store & G+1
13	Gurap Plant - I	Gurap, WB	Factory
14	Ambica Jute Mill	Belur Math, WB	G+1
15	Roy Construction	Malda, WB	Substation
16	Arise Benin,	Africa	Warehouse
17	Nirmal Wires	Deulti, WB	Factory
18	1 & Only	Agartala, Tripura	Built-up
19	Kamdhenu	Sodpur, WB	Factory
20	Sunirman	Kalyani, WB	Factory
21	K. B. Enterprise	Panchla, WB	Warehouse
22	Nirmal Industries	Raichak, WB	Factory
23	Pudgal Ventures	Jamshedpur	Factory
24	R. D. B. Textile	Bhadreshwar, WB	Factory
25	BMR Automotive	Moregram, WB	Factory

Company Name - Utkarsh India Limited			
Sl. No.	Project / Customer Name	Location	Type of Project
26	Shakambari Enterprises	Amta, WB	Warehouse
27	R. A. I. C. Casting	Amta, WB	Factory
28	Gurap Plant - II	Gurap, WB	Factory
29	Ecolanet Technologies	Badu, WB	Factory
30	Shree Siddhi Vinayak Tatva	Amta, WB	Factory
31	IMECO Overseas	Rourkela, Odisha	Steel Structure
32	BTL EPC Ltd.	Raigarh, CG	Warehouse
33	ARV Ventures	Barauni, Bihar	Built-up
34	B. S. Agri Foods	Jungalpur, WB	Warehouse
35	Gurap Staff Quarter	Gurap, WB	Warehouse
36	Unmukt Divyang	Kolkata	Warehouse
37	BTL EPC Ltd.	Raigarh, CG	Warehouse
38	ARV Ventures Betiah,	Bihar	Built-up & Cold Formed
39	Linc Ltd.	Serakole, WB	Factory
40	Mayur Packaging	Bagnan, WB	Factory
41	Shaktigarh Textile	Shaktigarh, WB	Factory
42	ARV Ventures Multiple	Locations	Built-up
43	Viva International	Krishnarampur, WB	Factory
44	BTL EPC Ltd.	NTPC Sipat, CG	Warehouse
45	Yashoda Linen (Flax Spinning Mill)	Ujjain, MP	Factory
46	Yashoda Linen (Blended Spinning Mill)	Ujjain, MP	Factory
47	Keventer Taratala,	Kolkata Office	Building
48	J G Chemicals	Dahej, Gujarat	Factory
49	BTL EPC Ltd.	Talaipalli, CG	Warehouse
50	R. K. Transtek	Dhanaiakhali, WB	Factory

Operational Units

C & Z Purlin Profiling Machine

Mobile Standing Seam Sheeting Profiling Machine

Shot Blasting Machine

CNC Plasma Cutting Machine

Submerged Arc Welding Machine

Trapezoidal Sheeting Profiling Machine