



We Don't Supply Buildings
We Deliver Projects



INTERARCH LIFE
INTEBVBCH FILE

Introduction

Interarch Building Products Pvt. Ltd. commenced operations in 1984, and pioneered the high-end metal interior products market in India. Today, Interarch is proud to be the leading Turnkey Pre-Engineered Steel Construction Solution provider in India with integrated facilities for Design, Manufacture, Logistics, Supply and Project Execution capabilities for Pre-Engineered Steel Buildings, Metal Roofing & Cladding Systems and Light Building Systems.



INTERARCH

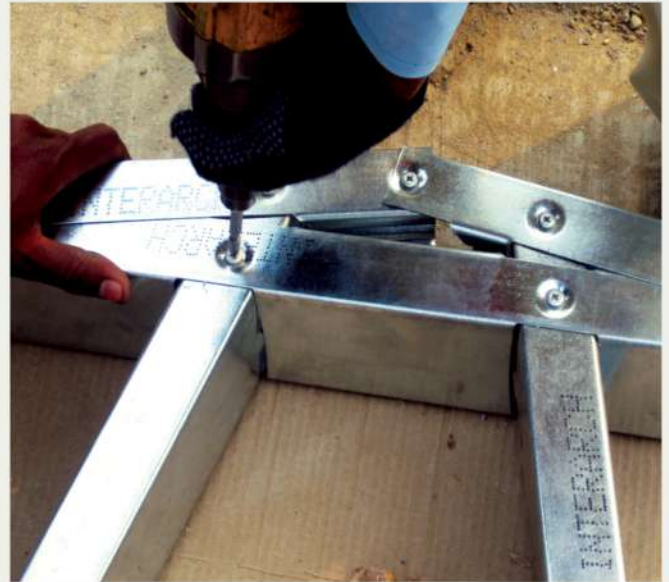
Light Gauge Framing System for Load Bearing Walls & Roofs

The Interarch Light Gauge Framing System is the ultimate union of design, materials, machinery and manufacturing of standard stud and track profiles which are produced automatically by combining software and machine control systems.

The software and machinery are specifically designed for high volume manufacturing operations, Interarch Light is ideal for applications where speed, reliability and flexibility are critical in delivering a project.

Every output profile is accurately formed, cut, punched, dimpled and individually labeled, ready to screw together for assembly.

Once at the site, they can be further assembled as per architectural drawings by simply snapping the wall frames and floor joists together and fixing them with self-tapping screws.



Key features

DESIGN PARAMETERS

AS/NZS 4600-2005 (Cold-Formed Steel Structures)

BS 5950-5 - Structural use of steelwork in building Code of Practice for the design of cold-formed thin gauge sections.

AISI-S100-2007 (North American Specification for the Design of Cold-formed steel Structures member)

IS: 801 - 1975 (Reaffirmed 1995) - (Indian Standard Code of Practice for Use of Cold-Formed Light Gauge Steel Structural Members in General Building Construction)

Substrate

a) Grade of Steel

1. Galvalume Steel - AZ 150/550 MPa

2. Galvanized Steel - Z 275/550 MPa

b) Section Size: 89 mm X 41 mm X 11 mm

c) Thickness : 0.75 mm / 0.95 mm / 1.25 mm

Fixing Screw :

Wafer head steel screws



Fixing arrangement :

Fixed to plinth beam by steel anchor fastener



LGFS FRAMING SYSTEM

Cold-formed galvanized / galvalume steel framing wall panels, roof trusses and floor joists.



TYPES OF ROOFS

a) Sloping Roof



b) Flat Roof



c) Hip Roof

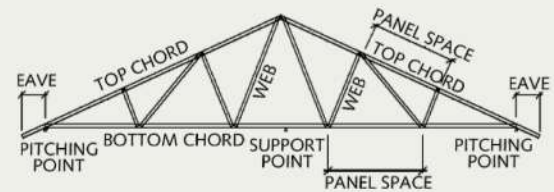


LGFS ROOF TRUSS SYSTEMS

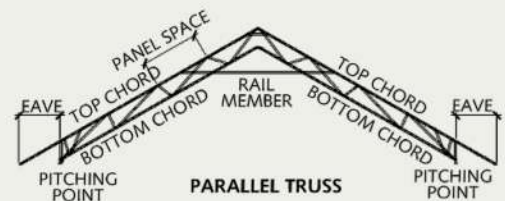
LGFS Roof Truss can be designed in various shapes / forms using Light Gauge Framing System as per required slope and design requirements.



TRUNCATED TRUSS



FULL TRUSS



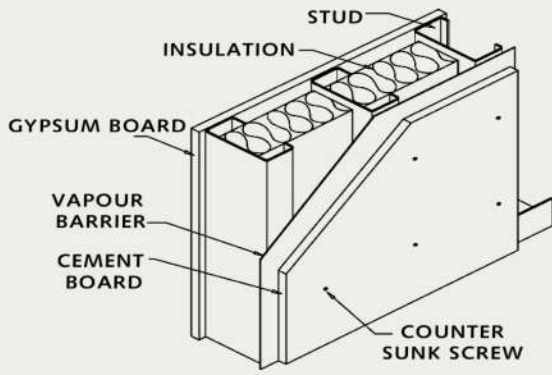
PARALLEL TRUSS

INSULATION SYSTEM (ROOF AND WALL)

Roof insulation should be Fiber glass insulation 50mm thick, 16 Kg/cum with FSK facing.

Wall insulation should be Rockwool 50 mm thick, 48 Kg / cum density.





TYP. WALL FINISHING DETAIL

EXTERNAL FINISHES

- a) Cement board
- b) TRACDEK® Hi-Rib® metal profiled colour coated galvalume sheet
- c) Glazing
- d) Wood Planks, Cement Planks
- e) Brick Tiles / Ceramic Tiles
- f) Rendering plaster over cement board
- g) Aluminium Composite Panel



LGFS WALL DETAIL

1	Outside Finish	Weather Shield Paint
2	Outside Cladding	8mm / 10mm Cement Board or 9mm Heavy Duty Cement Board
3	Building Wrap	Building Wrap
4	Framing	Steel Stud – 89mm x 41mm x 11mm
5	Insulation (Roof/Wall)	Glasswool as roof insulation Rockwool as wall insulation
6	Internal Lining	12.5 mm Gypsum/ 10mm Cement Board / 12 mm Laminated Board



Exposed Brick Cladding



Wall Tile and Cement Board



Aluminium Composite Panel



Cement Board



Glazing



TRACDEK Hi-Rib® Metal Profiled Colour Coated Galvalume Sheet



Stone Cladding



Cement Board



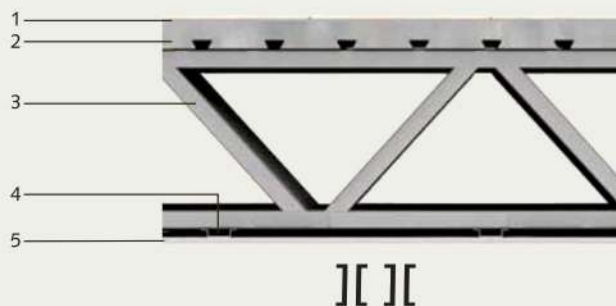
INTERNAL FINISHES

- a) Cement Board - 10mm thick with 2 coats of paint
- b) Gypsum wall Board - 12.5mm thick, with 2 coats of distemper painted and finished
- c) Wooden Paneling / Laminated board
- d) False Ceiling / Metal Ceiling - Gypsum board false ceiling painted or Pre Painted Steel / Aluminum ceiling



TYPES OF FLOOR (GROUND, GROUND + 1)

For multi-floor building up to Gr + 1 floor, the first floor will be galvanized steel joist supported on the building wall frames. Decking Sheet suitable for 50mm Foam concrete floor or wooden floor (civil works scope) or 75 mm RCC



SERVICES IN LGFS SYSTEMS

Electric and plumbing work is easy and safe without any need for drilling or punching.



Electrical Outlets



Tap Fixing Arrangement

PRODUCTS		
1	Floor Covering	Ceramic Tile / Wooden Floor
2	RCC Floor	75 mm concrete over Metal Decking
3	Framing	Floor Joist – 250mm deep / Double C
4	Ceiling Substrate	25mm Steel Ceiling Battens
5	Ceiling Lining 1	12.5mm Gypsum



TYPES OF FLOOR SYSTEMS

a) Built-up Joists



b) LGFS Joists



Wash Basin Fixing Arrangement



Frame Opening



Wall / Floor mount WC Fixing Arrangement



Wall AC Fixing Arrangement



Conduit / MCB Box Fixing Arrangement



Arrangement of Pipe line for Various Services



Window Fixing Arrangement

Benefits

Interarch Light Gauge Framing Systems has got unmatched advantages over the conventional construction system. Few of them have been listed below for your reference:

- a) Steel structure (strength and durability)
- b) Can be customized to meet specific requirements i.e. shape, size and design
- c) Time - saving in construction
- d) No pollution during construction
- e) Use of non-toxic green materials
- f) Insulation system reduces energy consumption and acts as sound barrier from outside
- g) Earthquake and wind resistant
- h) Termite proof
- i) Longer life span and easy to maintain
- j) Dismantling possibilities if required
- k) Dry Wall interior and exterior finishes
- l) Easy transportation and handling
- m) Recyclable

Types of Structures

1. PRE-ENGINEERED HEAVY STEEL STRUCTURES FOR TALL BUILDINGS AND INFRASTRUCTURE APPLICATIONS



2. HYBRID STEEL STRUCTURES

COMBINATION OF BUILT-UP PRIMARY FRAMING AND INFILL LGFS FRAMING.



3. LIGHT GAUGE FRAMING SYSTEMS



Application of Interarch Life

1. FARMHOUSES, VILLAS & COTTAGES, GUEST HOUSES & CLUBS.



2. SCHOOLS & COLLEGES



3. OFFICES



4. ROOFTOP EXPANSIONS



5. TRANSPORTATION BUILDINGS



6. HOSPITALS



7. LABOUR HOUSINGS AND COLONIES



8. BUILDINGS IN HILL AREAS & MOUNTAINOUS TERRAIN



9. RESTAURANTS & RESORTS



10. RETAIL OUTLETS & SHOWROOMS



11. SITE & PROJECT OFFICES



12. CANTEENS



13. BANQUET HALLS



14. CONVENTION & CULTURAL CENTRES



15. STADIUMS & AUDITORIA



16. CAR PARKINGS



17. PETROL OUTLETS



18. GUARD ROOMS

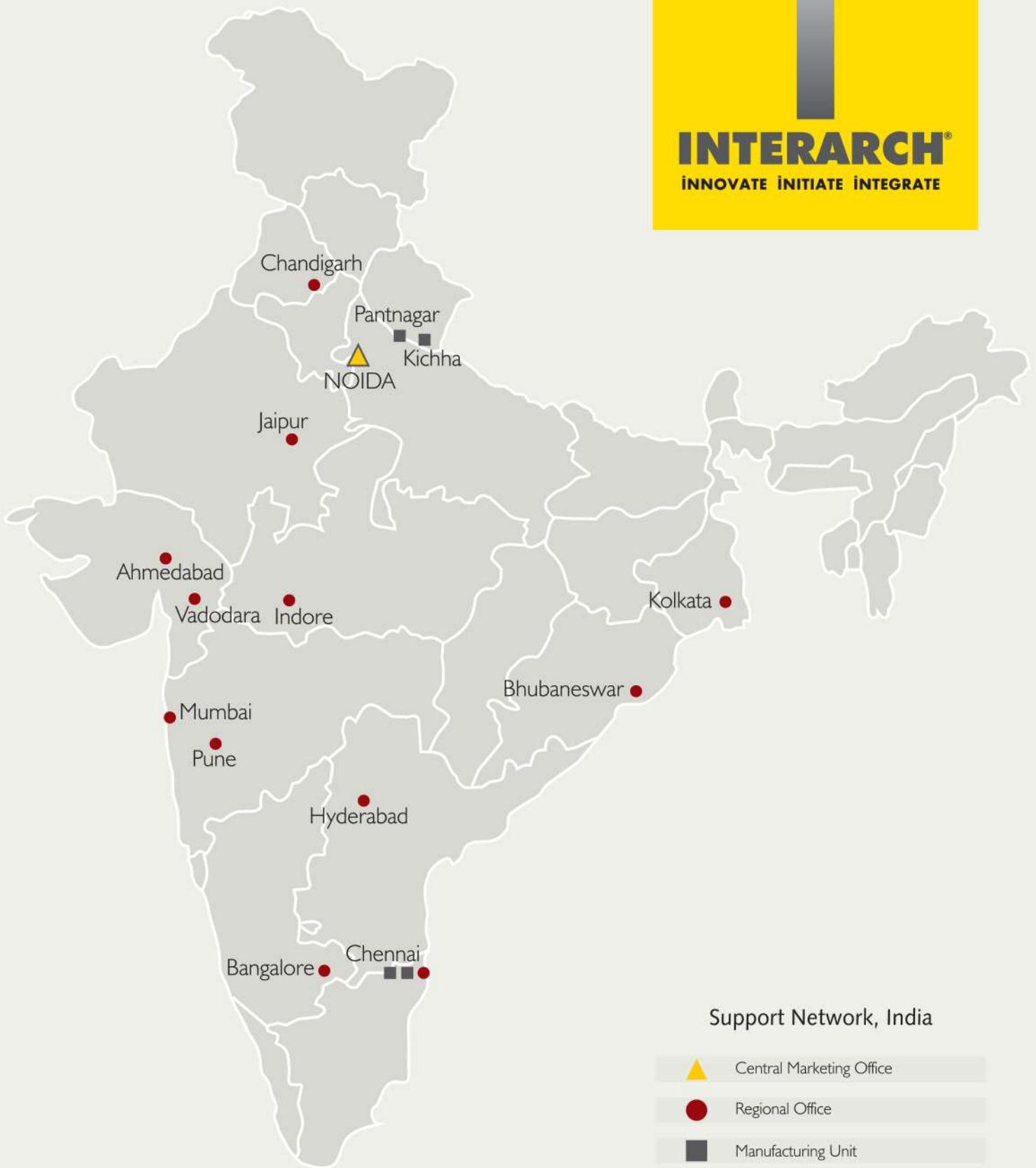


19. MEZZANINE FLOORS



20. PARTITION WALLS





Regional Offices & Manufacturing Units

Interarch offers turnkey solutions with regional offices and project control centres for marketing, sales and coordination at all locations across india.

UNIT 1

Plot No. 14, Sector 2,
Integrated Industrial Estate, Pantnagar
Rudrapur - 263153
Uttarakhand
Tel - +91 - 97606 90306, 89793 10068

UNIT 2

Khasra No. 276-A
2 KM on Kichha-Rudrapur Road
Kichha - 263148
Uttarakhand
Tel - +91 - 97606 90306, 89793 10068

UNIT 3

Plot No. D-1/1, SIPCOT Industrial Park,
Mambakkam, Sriperumbudur - 602105
Tamil Nadu
Tel - +91 - 90257 56418, 98402 45569

UNIT 4

Plot No. F-19, SIPCOT Industrial Park,
8th Main Road 1st Cross Street,
Irungattukottai, Sriperumbudur - 602105
Tamil Nadu
Tel - +91 - 81449 24399

For faster processing of enquires from:

Bangalore, Chennai, Hyderabad, Mumbai, Pune, Indore, Ahmedabad, Vadodara, Kolkata, Bhubaneswar, Jaipur & Chandigarh

Central Marketing Office:

B-30 , Sector-57 , Noida-201301

Uttar Pradesh

Tel : 0120 - 4170200

Fax : 0120 - 2581017

E-Mail: info@interarchbuildings.com

Website: www.interarchbuildings.com





INTERARCH BUILDING PRODUCTS PVT. LTD.

AN ISO 9001-2015 COMPANY

Central Marketing Office

B-30, Sector 57, NOIDA - 201 301, INDIA

Tel.: 0120 - 4170200, Fax : +91-120-2581017

E-mail: info@interarchbuildings.com | www.interarchbuildings.com

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