



INSULATED PANELS &
PRE-ENGINEERED METAL
BUILDING SYSTEM

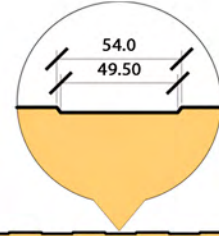


A MEMBER OF MACROLITE GROUP OF COMPANIES

iWALL

Effective Coverage	1145 mm
Rib Height	2 mm
Insulation Thickness	25, 50, 75, 100, 125 & 150 mm
Insulation Material	Polyurethane
Material Finish	PPGI, PPGL, Aluminum, Stainless Steel PVDF, Alum. Kraft and Kraft Paper
Metal Thickness	0.40 to 0.60 mm
Length of Panel	Up to 12.3 meters
Density	38-45 kg/m ³

AN INSULATED WALL PANEL SYSTEM THAT ENSURES EXCELLENT INSULATING VALUES TO APPLICATIONS WHERE CONTROLLED TEMPERATURE MUST BE ACHIEVED.



iDOOR

INSULATED DOORS / AVAILABLE IN SWING AND SLIDING



iPEMBS

IS A PRE-DESIGNED METAL BUILDING SYSTEM COMPOSED OF STEEL MEMBERS THAT FORM RIGID FRAMES, PRIMARY AND SECONDARY STRUCTURES TO LOW AND MEDIUM RISE BUILDINGS. IT IS FAST AND EASY TO INSTALL USING BOLTED CONNECTION SYSTEM.

STRUCTURAL COMPONENTS

Primary Built-up Members
minimum yield strength is 248 MPa (A-36)

Secondary Members
minimum yield strength is 248 MPa (A-36)

Bracing Systems
minimum yield strength is 228 MPa (A-33)

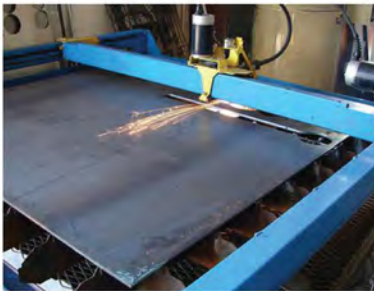
ADVANTAGES

- AESTHETICALLY DESIGNED
- FAST AND EASY INSTALLATION
- HIGHER RESISTANCE TO SEISMIC FORCES DUE TO LOW WEIGHT FLEXIBLE FRAMES
- FACTORY CONTROLLED QUALITY
- SIMPLE FOUNDATION, EASY TO CONSTRUCT AND LIGHTWEIGHT
- ECONOMICALLY DESIGNED
- TRANSFERRABLE FACILITY



APPLICATIONS

- FOOD MANUFACTURING FACILITIES
- ELECTRONIC FACILITIES
- WAREHOUSES
- STORAGE FACILITIES
- COVERED COURTS
- STADIUMS
- HANGAR
- BUS TERMINALS
- SHOWROOM OFFICES
- SCHOOL INDOORS



1



2



3

- 1 CNC Plasma Cutter**
Can cut up to 25 mm MS Plate with minimum speed of 300 mm/min. to a maximum of 3500 mm/min.
- 2 Bolted Connection System**
- 3 Gantry Welder**
Can weld two sides of the beams at the same time

PRIMARY FRAMING SYSTEMS



CLEAR SPAN (MAX OF 50 M)



CLEAR SPAN - ARCHED



MULTISPAN



MULTIGABLE



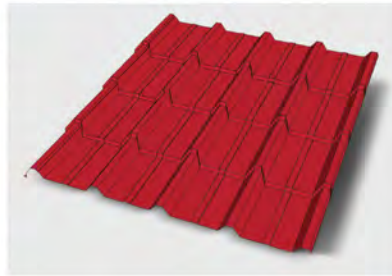
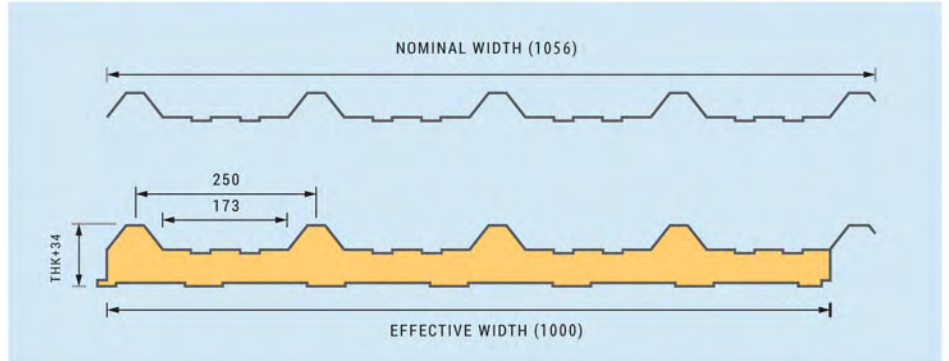
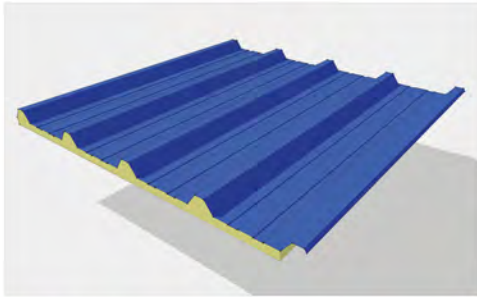
SINGLE SLOPE



LEAN TO

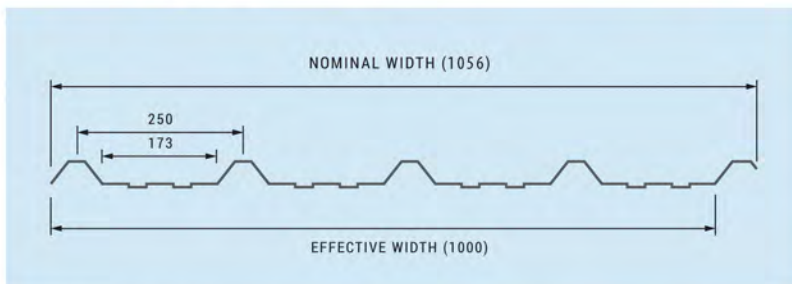
iROOF / RIB 34-U

Effective Coverage	1000 mm
Rib Height	34 mm
Rib Spacing	250 mm
Insulation Thickness	25, 50 & 75 mm
Insulation Material	Polyurethane
Material Finish	PPGI, PPGL, Aluminum, PVDF, Alum. Kraft and Kraft Paper
Metal Thickness	0.40 to 0.60 mm
Length of Panel	Up to 12.3 meters
Density	38-45 kg/m ³



iROOF / TILE 34

Effective Coverage	1000 mm
Rib Height	34 mm
Rib Spacing	250 mm
Material Finish	PPGI, PPGL, Aluminum & PVDF
Metal Thickness	0.40 to 0.60 mm
Length of Panel	long span



iROOF / SSR 50-U

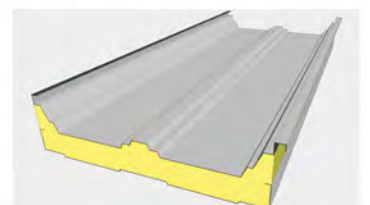
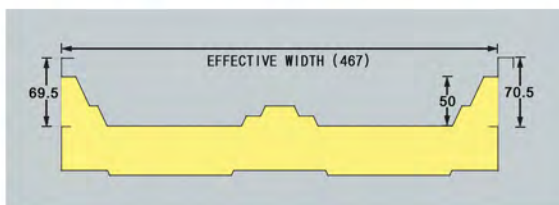
Effective Coverage	467 mm
Rib Height	50 mm
Insulation Thickness	50 mm
Insulation Material	Polyurethane
Material Finish	PPGI, PPGL, Aluminum & PVDF
Metal Thickness	0.40 to 0.60 mm
Length of Panel	Up to 12.3 meters
Density	38-45 kg/m ³



AVAILABLE IN DIFFERENT COLORS



(MAY VARY FROM ACTUAL COLORS)



NOTABLE CHARACTERISTICS OF INSULATED PANELS

LIGHT WEIGHT

The extreme lightness of the panel makes it possible to reduce weight supported by the structures and the bracketing points. Panels which are from 8.8 to 13.2 kg/m² can be lifted manually without mechanical help.

LOAD BEARING

The panels can be loaded to a maximum of 180 kg at a center distance of 5 m.

LOW NOISE LEVEL

The sandwich type structure of the panel guarantees good acoustical noise barrier characteristics.

DURABILITY

External sheets coupled by the insulation materials impart sturdiness, rigidity and good resistance to corrosion, erosion and deformation.

DIMENSION STABILITY

Between 30° to 100° the natural physical-chemical adhesion between foam and steel.

EASE OF INSTALLATION

A team of 4 persons can install an average of 372 sqm of panel in 8 hours with an average 50 mm thickness.

THERMAL INSULATION

Offers highest R and Lowest U (reciprocal of R) values depending on the type of product and thickness of the panel.

NON-HYGROSCOPIC

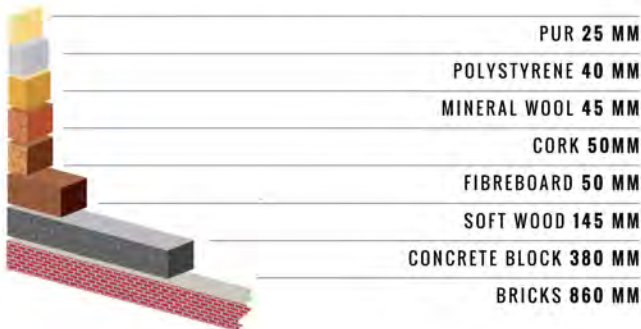
As insulations of closed cell type it has a high resistance to the absorption of moisture, chemical and is also impervious to mold, insects and vermin.

IWALL APPLICATIONS

COLD STORAGE FACILITY
COLD ROOMS
CHILLER
FREEZER / BLAST FREEZER
CLEAN ROOM

TEMPORARY FACILITY
CELL SITE CABIN
WAREHOUSE
FACTORIES
SCHOOL BUILDINGS

COMPARATIVE THICKNESS OF INSULATION

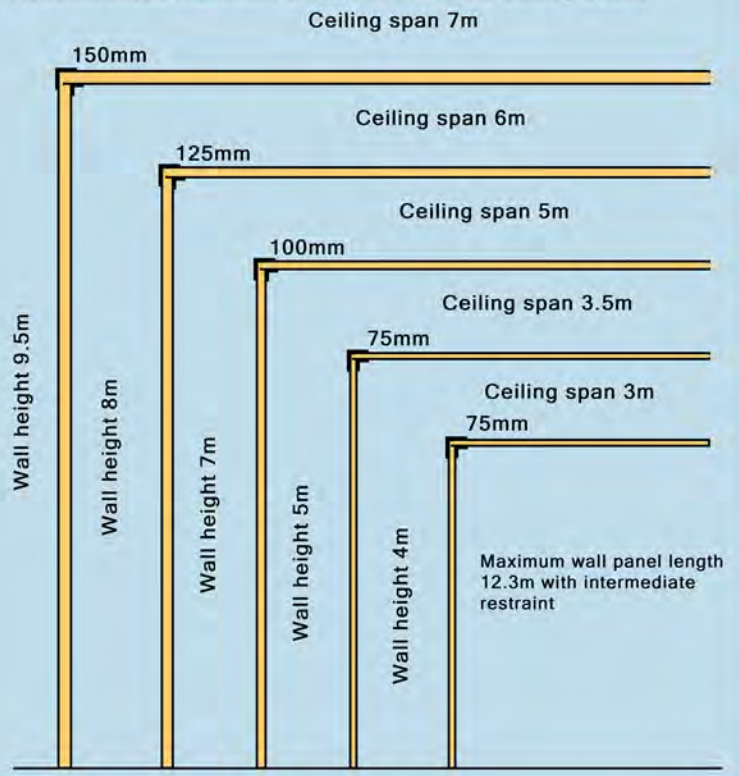


iCLAD

Effective Coverage	1000 mm
Rib Height	6 mm
Rib Spacing	195 mm
Insulation Thickness	50 mm
Insulation Material	Polyurethane
Material Finish	PPGI, PPGL, Aluminum & PVDF
Metal Thickness	0.40 to 0.60 mm
Length of Panel	Up to 6 meters
Density	38-45 kg/m ³

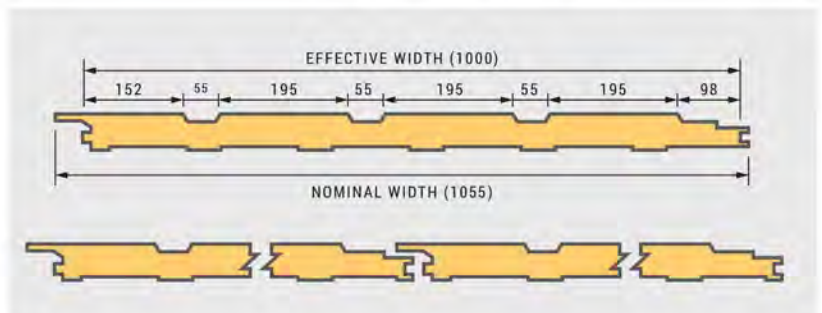
IWALL APPLICATION & SELECTION DATA

Recommended Maximum Unsupported Wall & Ceiling Spans



PRODUCT SPECIFICATION DATA

Product		Core Thickness	U Value	Weight	Temp. Range
External Steel (mm)	Internal Steel (mm)	(mm)	(kcal/mh c)	(Kg/m ²)	(°C)
0.5T	0.5T	50	0.38	11.82	25
		75	0.253	12.92	35
		100	0.19	15.49	50
0.6T	0.6T	125	0.152	16.49	65
		150	0.127	17.49	75
Flammability DIN 4102		Class B2			
Polyurethane Foam		Isocyanurate (MDI) Polyol Cyclopentane (Blowing Agent)			



AN INSULATED CLADDING/SIDING SYSTEM DESIGNED AESTHETICALLY FOR BUILDING EXTERIOR WITH ITS CONCEALED FASTENING SYSTEM AND ENHANCED INSULATION RIGIDITY TO ACHIEVE FUNCTIONALITY.



AIR-DUCT



Spiral Duct

Spiral Duct Feature

1. Thin and light weighted duct reduces material cost, transportation cost and installation cost.
2. Spiral connection extruded outside supplements the thin duct and gives high strength and elasticity.
3. Ducts comes in various sizes and the length can be adjusted by considering the storage space.
4. As the inside of duct is smooth, there is less air resistance, and the completely sealed structure increase the energy efficiency.
5. It has long lifetime and as it can easily be used by novice technicians, the labor cost and man hour are reduced, hence decreasing the raw cost.



E 90°

E 45°

TEE

C-TEE



Y.B

R.Y.B

Reducer

Groove



R-TEE

Trouser duct 90°

Cone

Dual-R-TEE

Spiral duct bridge insulation



Round diffuser

Square diffuser

Square round diffuser



Square Duct



Spinning nozzle diffuser

Round pan diffuser



TP Flexible (1P/2P)



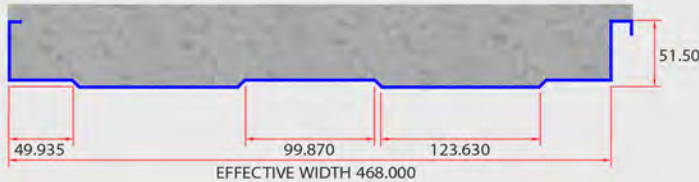
TP Clean Wool Insulation



TP Glass Wool Insulation

iDECK

Effective Coverage	467 mm
Rib Height	51.5 mm
Metal Thickness	0.80, 1.0 & 1.2 mm
Length	up to transportable length



iSPRAY FOAM

FOR MONOLITHIC WATERPROOFING AND INSULATION SYSTEM

ADVANTAGES

- PREVENTS LEAKS
- HEAT AND SOUND INSULATION
- LIGHTWEIGHT
- MOVABLE EQUIPMENT
- AVAILABLE IN VARIOUS COLORS



OUR VISION

To be a premiere world-class manufacturer and supplier of insulated pre-engineered metal building systems.

MISSION STATEMENT

We are committed to deliver the highest quality insulated pre-engineered metal building products and provide services to our valued customers. We shall endeavor to be a dependable producer and supplier measured in terms of reliability of supply, price competitiveness and quality of service delivery.



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