



Macon Construction Company Limited

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@macongrouptt

Product Catalogue



MIBS ICF BLOCK



DESCRIPTION

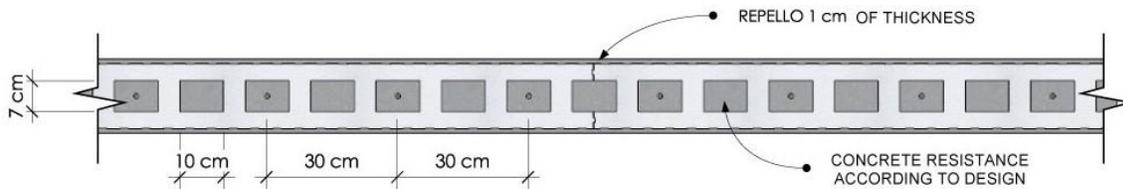
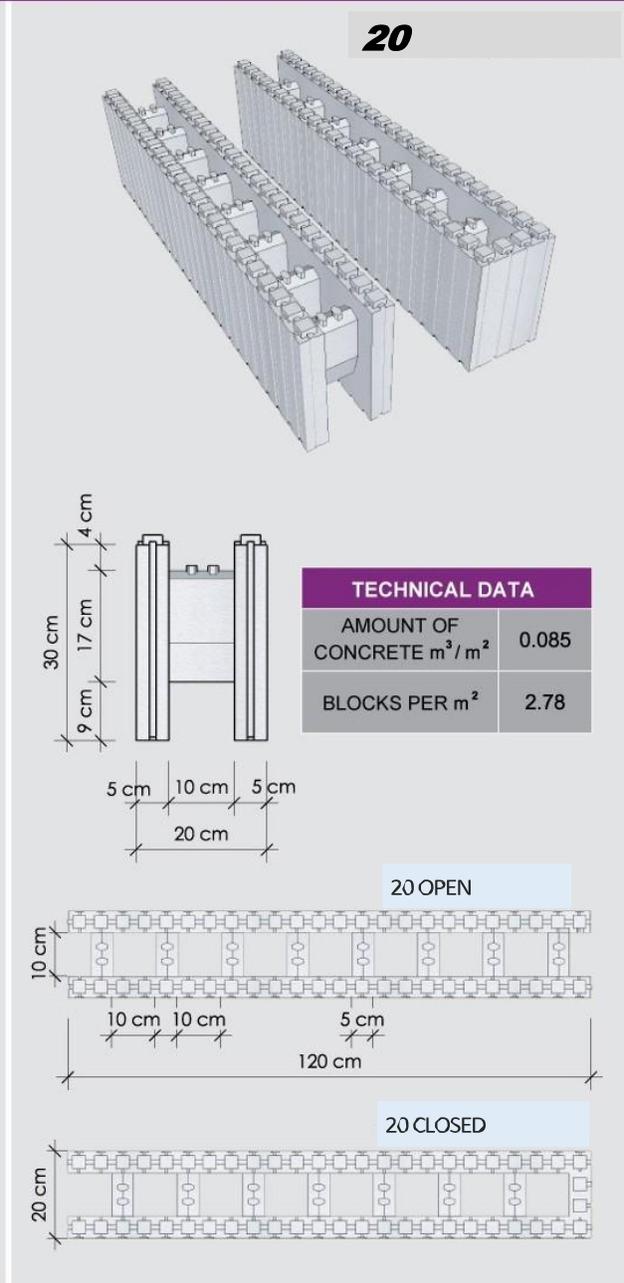
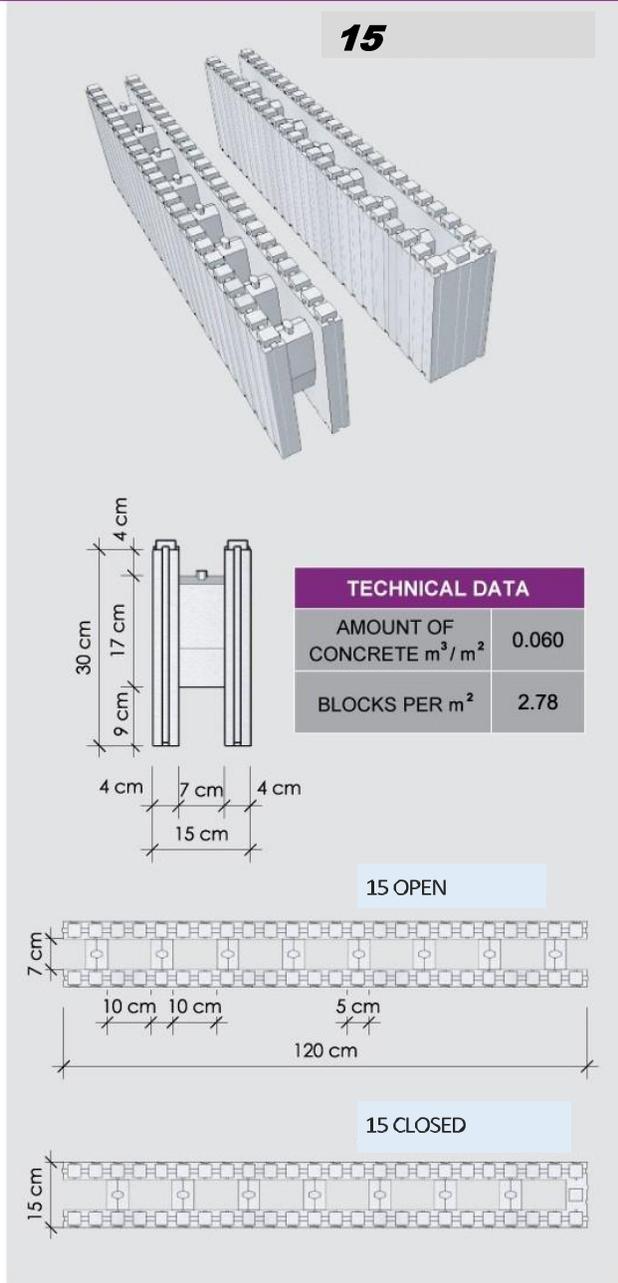
The **MIBS ICF** (insulated concrete Form) are blocks consists of modular elements of high-density polystyrene (EPS), which are filled with concrete to create a monolithic structure.

These blocks interconnect with each other of the same way as to connect the LEGO blocks of Children's games, forming the space where the reinforcing steel is placed and the concrete is emptied to form the walls. The blocks remain integral part of the wall providing a high degree of insulation Termo-acoustic, and finally, is a system extremely fast.

ADVANTAGE

- Rapid assembly and construction
- Great structural strength as it forms a wall of concrete bearing
- Receives any type of traditional finish cement base
- Ideal for the construction of retaining walls and buried tanks







MACON INNOVATIVE BUILDING SYSTEMS



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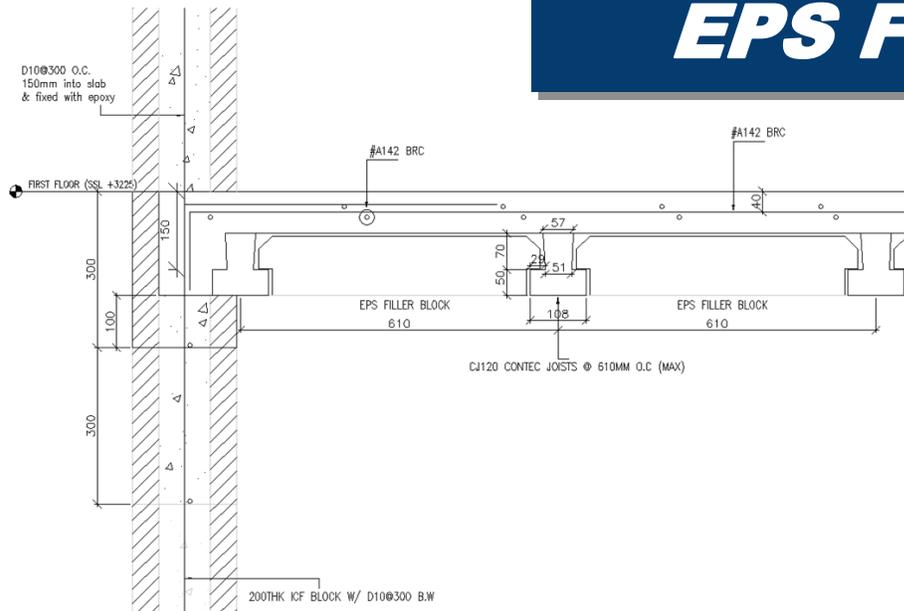


MACON INNOVATIVE BUILDING SYSTEMS



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Floor Joist System with EPS Filler Blocks



Lightweight, fast-installing floor and roof system ideal for versatile, limited-access construction.

Key Characteristics & Benefits:

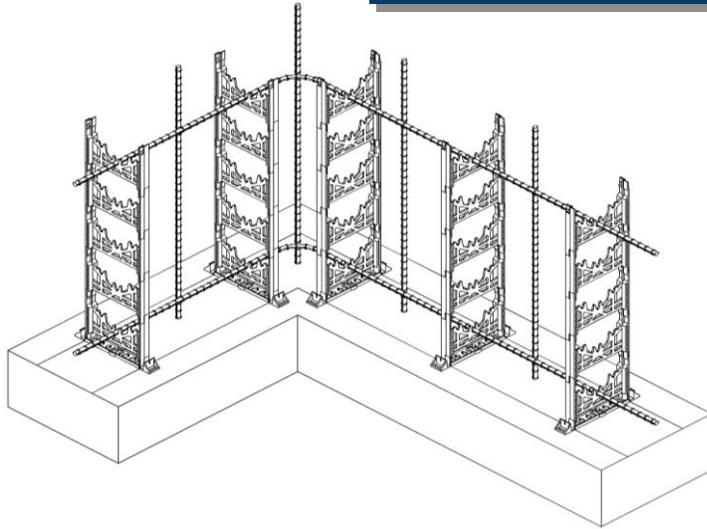
- Lightweight Components:** Easily handled by the workforce without heavy lifting equipment.
 - 40% Lighter than Traditional Decking Systems:** Resulting in Cost Savings from Foundation, due to lighter deadloads.
 - Propping Reduction:** Often requires no propping for spans under 12ft, simplifying installation.
 - Fast Setup:** The use of EPS filler blocks contributes to quicker installation times.
 - Cost-Effective:** Reduces material and labor costs associated with formwork and propping.
 - Reduced Formwork:** Significantly less lumber formwork required compared to traditional slabs.
 - Integrated Services:** Designed to simplify and speed up electrical and plumbing installation within the system.
 - Excellent Insulation:** Provides superior thermal and acoustical insulation properties.
 - Strong Performance:** Offers the strength and advantages of prestressed floor systems.
- How it is Used (Applications & Compatibility):**
- Floors and Roofs:** Suitable for both floor and roof deck applications.
 - Diverse Structures:** Compatible with and easily interfaces with ICF walls, reinforced concrete, and steel structures.
 - Limited Access Sites:** Highly advantageous for construction sites with restricted access for cranes and heavy machinery due to lightweight components.



Floor Joist System with EPS Filler Blocks



SPIDER TIES



Spider Tie Concrete Forming System provides multi-point reinforcement for perfectly strong and accurate concrete forms. It is an insert that serves two purposes in preparing form casted concrete; to aid in placement of steel reinforcement without individually tying each joint, and as a surface to screw plywood forms into.

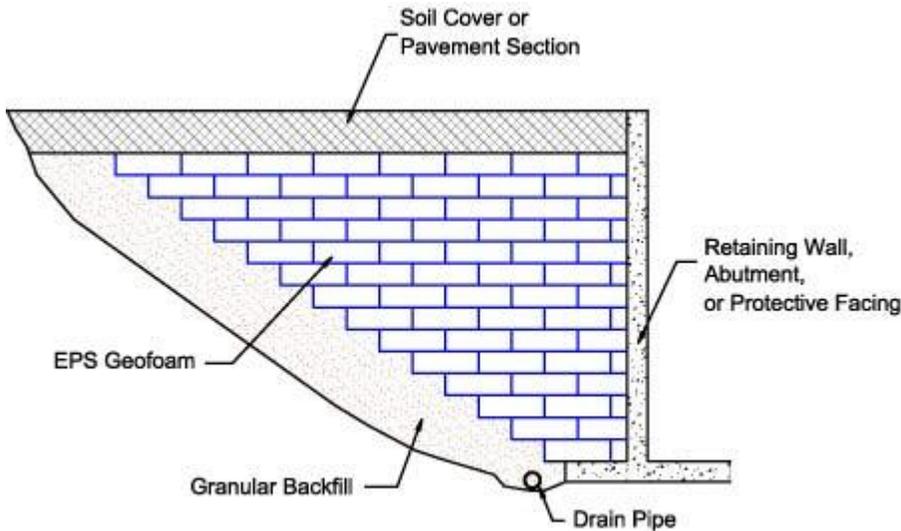
Applicable Uses:

Reinforced Concrete Walls, Retaining Walls, Swimming Pools

SPIDER TIES



GEOFOAM



Geofoam is an engineered lightweight fill material made from large blocks of Expanded Polystyrene (EPS) or Extruded Polystyrene (XPS) foam. Its primary purpose is to drastically reduce weight compared to traditional soil or aggregate fill.

Use Cases:

Building on Weak Ground, Back Filling Retaining Walls, Slope Stabilization, Creating Lightweight Structures (such as tiered stadium seating).



GEOFOAM

PHISICAL PROPERTY REQUIREMENT FOR RCPS GEOFOAM

TYPE	Unit	Requirement						
		EPS-12	EPS-15	EPS-19	EPS-22	EPS-29	EPS-39	EPS-46
Density Minimum	kg/m ³	11.20	14.40	18.40	21.60	28.80	38.40	45.70
	Lb/ft ³	0.70	0.90	1.15	1.35	1.80	2.40	2.85
Compressive Resistance Min. at 1% Strain	kPA	15.00	25.00	40.00	50.00	75.00	103.00	128.00
	PSI	2.2	3.6	5.8	7.3	10.9	14.9	18.6
Flexural Strength Min.	kPA	69.00	172.00	207.00	240.00	345.00	414.00	517.00
	PSI	10.0	24.9	30.0	34.8	50.0	60.0	75.0
Oxygen Index Min. Volume	%	24.00	24.00	24.00	24.00	24.00	24.00	24.00



Geofoams being used as Backfill for Highway in Trinidad & Tobago

MIBS LIGHT DECK



DESCRIPTION

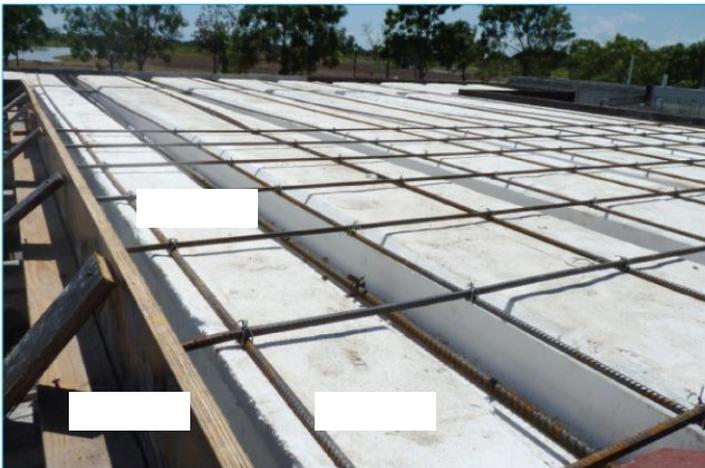
MIBS LIGHT DECK is a permanent formwork for Lightening and insulation Termo-acoustic slabs and ceilings

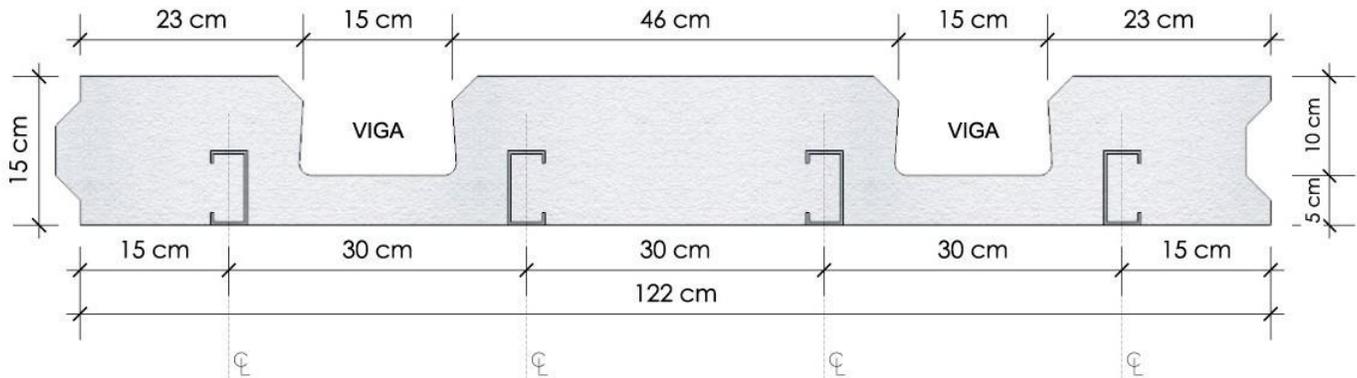
Manufactured in length and with the camber of Beams required depending on the light and Design loads of the project.

Ideal for commercial, industrial or buildings with large lights and large loads.

ADVANTAGE

- Requires less shoring than conventional systems.
- Easy and quick installation.
- Lower transmission of vibration, noise and blows between floors.
- Excellent thermal insulator.
- Integrated strollers facilitate the installation of finished ceilings.
- Reduce the risk of condensation in slabs subject to temperature differentials.



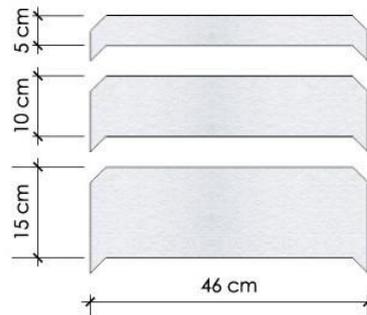


**MIBS LIGHT DECK SECTION
BASE 15 x 122**

DENSITY OF POLYSTYRENE = 20 Kg/m³

FORM WORK WEIGHT = 10.05 Kg/m²

STIFFENED WITH STROLLERS TA 2"X4" CLASS 18



DEPTH EXTENDERS	
MEASUREMENT	WEIGHT PER M
15 cm	1.47 kg/m
10 cm	0.96 kg/m
5 cm	0.50 kg/m

DENSITY OF EPS = 12 kg/m³

CONSUMPTION OF CONCRETE (m³) PER SQUARE METRE OF SLAB (m³)/(m²)

PLATE THICKNESS	MIBS LIGHT DECK TOTAL THICKNESS					
	15 cm	20 cm	25 cm	30 cm	35 cm	40 cm
5 cm	0.0747	0.0821	0.0913	0.1081	0.1173	0.1244
6 cm	0.0913	0.0989	0.1081	0.1244	0.1325	0.1416
7.5 cm	0.0989	0.1081	0.1157	0.1325	0.1416	0.1493
9 cm	0.1157	0.1244	0.1325	0.1493	0.1579	0.1643
10 cm	0.1244	0.1325	0.1416	0.1579	0.1643	0.1747

DEAD LOAD (Kg/m²)

THICKNESS MIBS LIGHT DECK	BEFORE FILLING CONCRETE
15 cm	10.06 kg/m ²
20 cm	11.33 kg/m ²
25 cm	13.28 kg/m ²
30 cm	14.84 kg/m ²
35 cm	16.41 kg/m ²
40 cm	17.97 kg/m ²

SPECIFICATIONS SUMMARY

- **Base Section:** 15 cm thick in EPS with density of 20 kg/m² and joists spaced to every 60 cm.
- **Depth Extenders:** EPS with a density of 12 kg/m² allows to create joists with camber up to 40 cm.
- **Fire Resistance:** classification of 1.5 hours with load of 1200kg/m² test according to ASTM E-119-00.
- **Maximum load of ceiling:** Load fixed to strollers of 300kg/m² Test rad 3862.
- **Thermal insulator:** 26.4 Global thermal resistance for the Base section of 15 cm according to ASTM C518 test

MIBS QUICK DECK



DESCRIPTION

The **MIBS QUICK DECK** consists of blocks type form work panel expanded polystyrene cut according to the needs of the project.

Is used primarily as a aligerante element in reticulate Veined slabs pos-tightened or strengthened.

ADVANTAGE

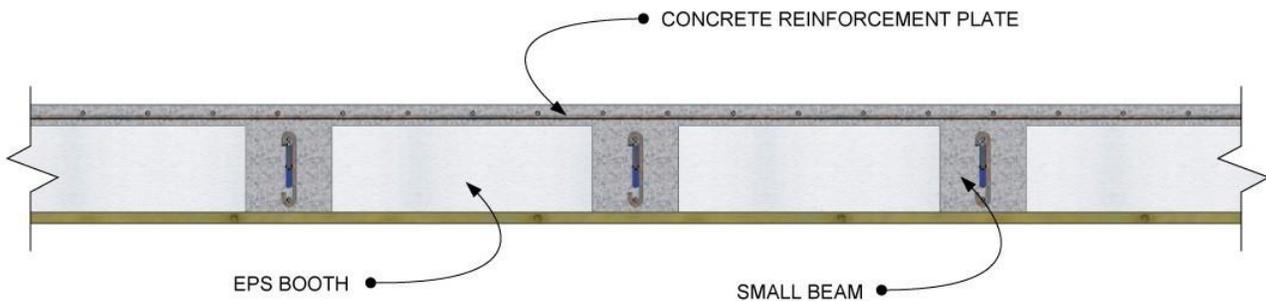
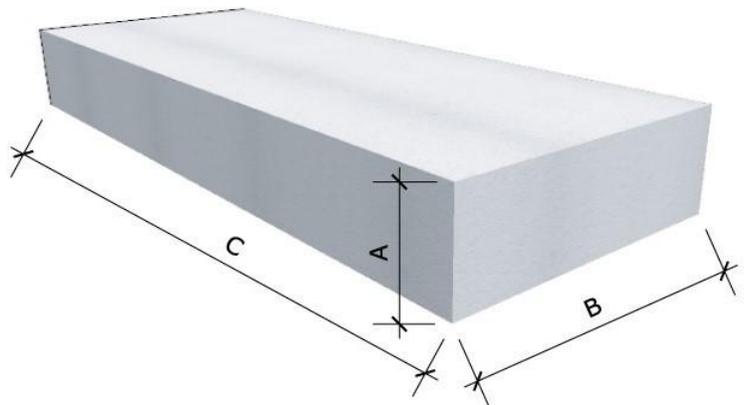
- Savings of 20-30% on the cost of the concrete used in the slab.
- Reducing the cost of foundations and steel reinforced thanks to the low weight of the parts.
- Thermal and acoustic insulation between slabs.
- Fast assembly without waste of material.



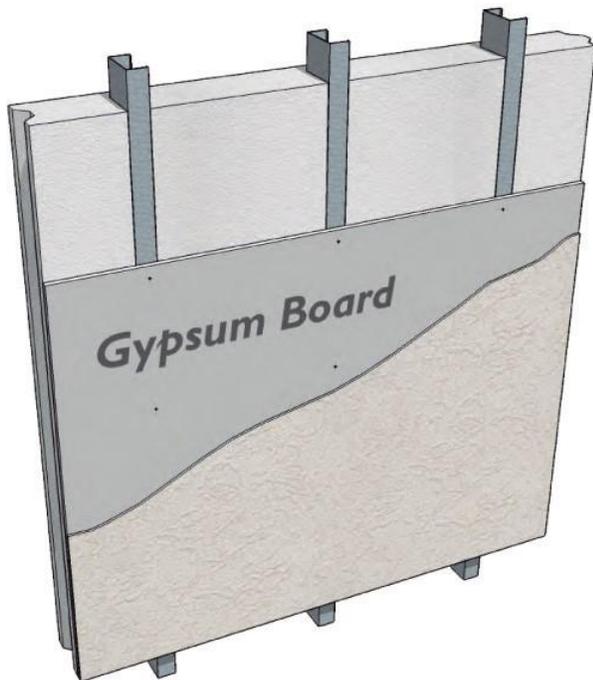
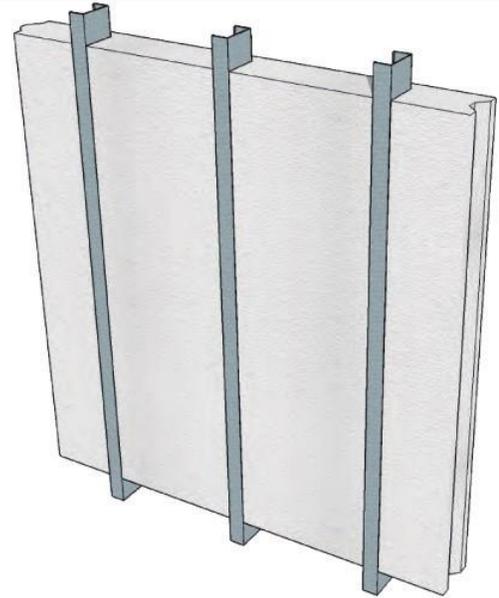


WE HAVE AVAILABLE DENSITIES OF 12, 15 AND 20 KG/M3

KIND	A	B	C
100	0.10 m	0.40 m	3.00 m
		0.50 m	
200	0.20 m	0.40 m	3.00 m
		0.60 m	
250	0.25 m	0.40 m	3.00 m
		0.60 m	
300	0.30 m	0.40 m	3.00 m
		0.60 m	



MIBS LIGHT WALL



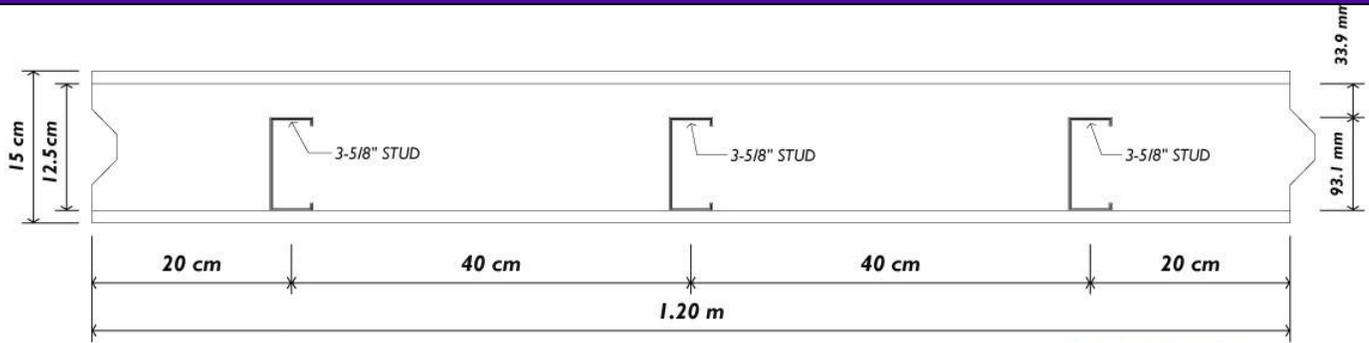
DESCRIPTION

MIBS LIGHT WALL is a dividing wall with EPS iso (expanded polystyrene) with a density of that has a fire Retardant agent that does not propagate the 15 kg/m³ Flame, stiffened with galvanized profiles caliber 20 (8.85 mm) "stud" type separated every 40 cm. Ready to apply gypsum boards, fibrocementos or others.

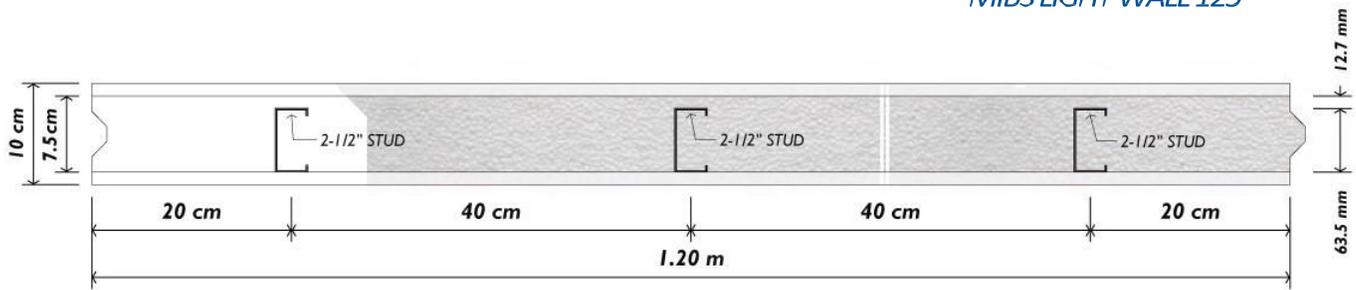
ADVANTAGE

- Easy and fast installation
- Excellent thermal and acoustic insulator
- Light and versatile
- Manufactured in lengths tailored to your projects





MIBS LIGHT WALL 125

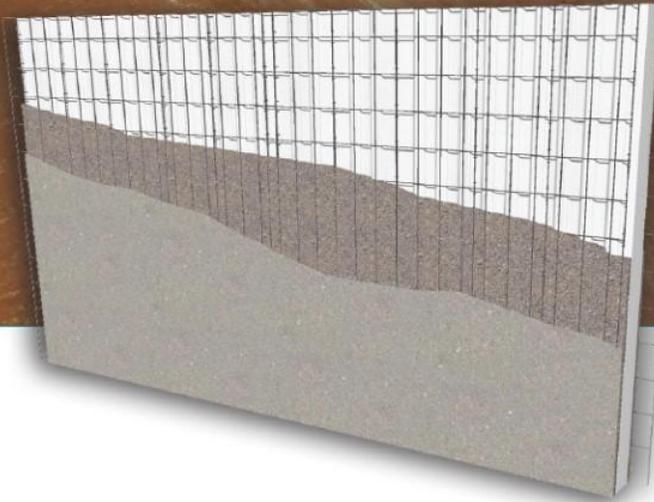


MIBS LIGHT WALL 75

TECHNICAL SPECIFICATIONS

TYPE	MIBS LIGHT WALL 125	MIBS LIGHT WALL 75
INSULATION THICKNESS	7.5 cm	12.5 cm
USEFUL WIDTH	1.20 m	
LENGTH	Hasta 10.00 m	
"R" (F.hr.ft ² /BTU)	10.80	16.65
"R" (Km ² IW)	1.89	2.79
DENSITY OF EPS	15 Kg/m ³	
THERMAL CONDUCTIVITY	0.0358 W/mK	
WATER VAPOUR PERMEABILITY	0.0419 ng/Pa.s.m	
MOISTURE ABSORPTION (VOLUME)	0.026%	

MIBS 3D MESH PANEL



DESCRIPTION

The **MIBS 3D MESH PANEL** is a system of structural walls and enclosure with integral thermal insulation.

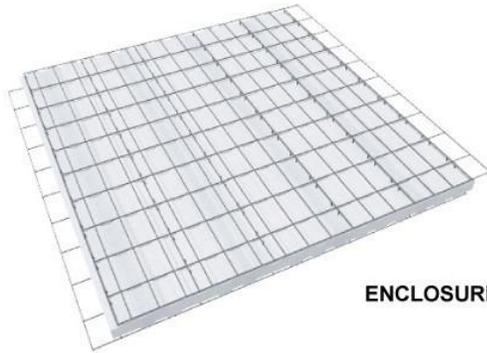
The panels are composed of an expanded polystyrene Core (EPS), with electro-welded meshes made of high-strength galvanized steel on each of its faces.

The result is a much more resistant, fast and economical construction material than the traditional block.

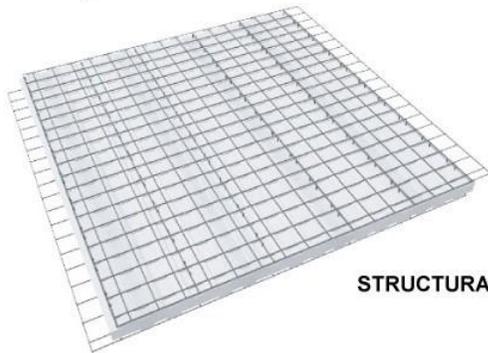
ADVANTAGE

- Excellent thermal and acoustic insulator.
- Easy and fast installation.
- Structural and seismic resistance.
- Easy handling and transport with less waste in the work.
- Reduces the power consumption required on air conditioning equipment.



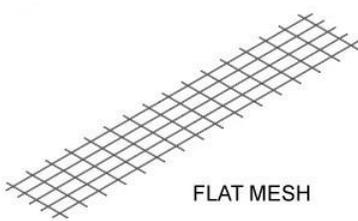
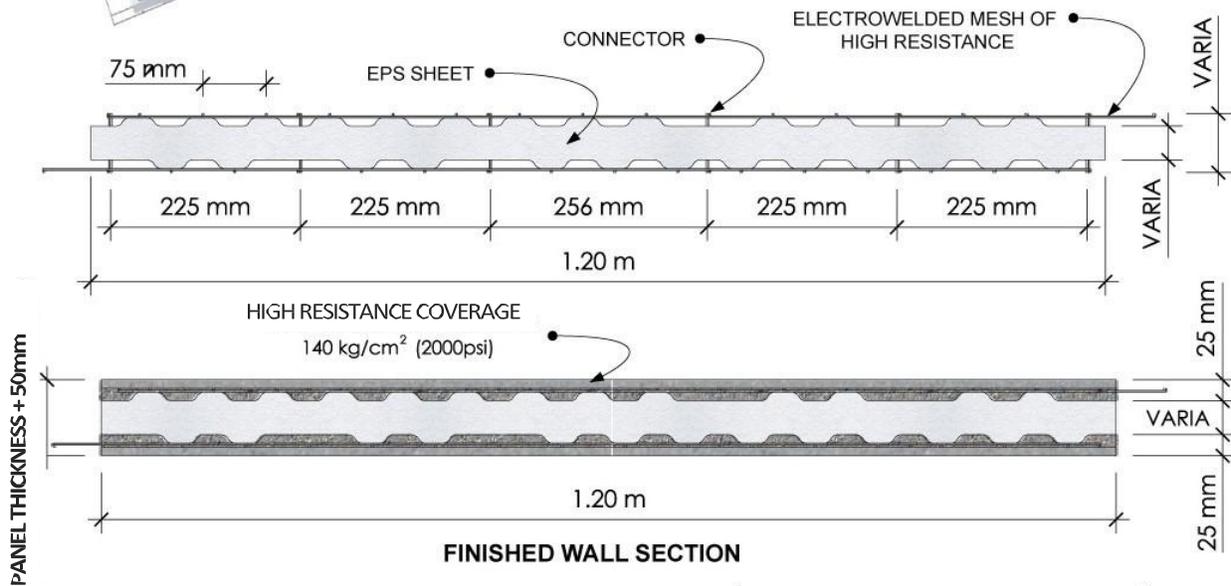


ENCLOSURE PANEL (PC)

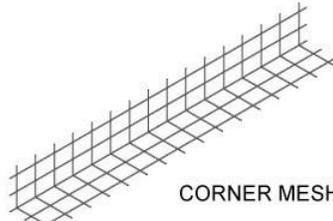


STRUCTURAL PANEL (PE)

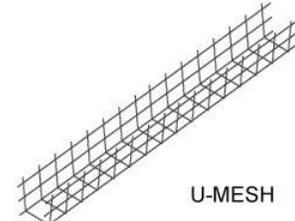
TECHNICAL SPECIFICATIONS		
DESCRIPTION	PCH - PC	PCH - PE
WIDTH	1.20 m	
HIGH	Up To 8.00 m	
EPS THICKNESS	45 mm @ 200 mm	
MESH-TO-MESH THICKNESS	65 mm @ 220 mm	
MESH DIMENSION	130 mm X 75 mm	65 mm X 75 mm
WIRE Ø (MESH)	2.4 mm Ø	
Ø WIRE (CONNECTOR)	3.0 mm Ø	
DENSITY CONNECTORS	72 connector / m ²	
RESISTANCE WIRE	750 - 900 N / mm ²	
DENSITY OF EPS	12 kg/m ³	



FLAT MESH



CORNER MESH

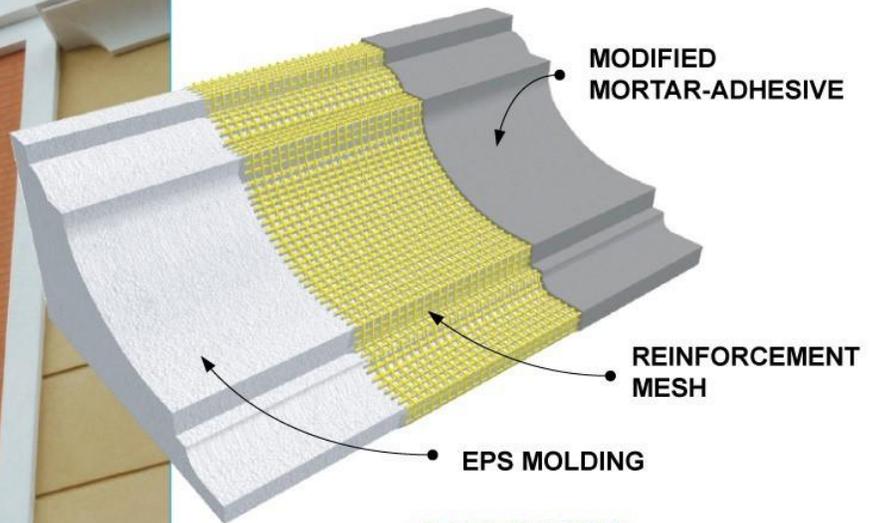


U-MESH

ACCESSORY

MIBS MOULDINGS

OUTDOOR DECORATIVE



DESCRIPTION

The **MIBS MOULDINGS** are manufactured in EPS, ready to be coated with adhesive mortar mesh reinforcement that provide excellent resistance to outdoor.

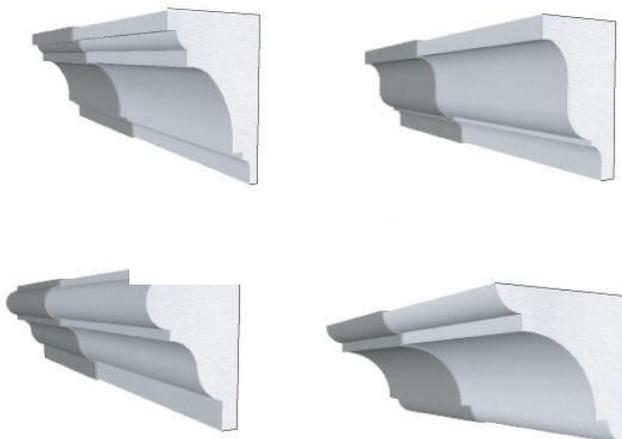
Allow a wide variety of finish finishes smooth or textures according to customer's specifications.

The mouldings are lights, resistant and easy to install in Facades of buildings, commercial Centers and residences.

MIBS has modern machines capable of executing the most varied range of architectural designs with precision.

ADVANTAGE

- Low cost of installation
- Rapid installation
- Impact resistant (when applying reinforcement mesh)
- Weatherproof
- Adaptability to any constructive system
- Special designs on request



Standard and special designs are manufactured at 1.20 m long

MIBS MOULDINGS



INDOOR DECORATIVE



DESCRIPTION

Wide range of MDF and Wooden Mouldings. MDF (Medium Density Fiber Board). All our MDF Mouldings are pre-painted in White and are 8 Feet in length. Whereas, the wooden mouldings are left natural and comes in different lengths 8, 10 and 12 Feet.

ADVANTAGE

- Most exquisite & dynamic looks.
- Can be used in various industries such as hotels, businesses, restaurants and homes.
- Rapid installation.



TEXTURED DECORATIVE COATINGS



Textured decorative and protective wall and ceiling coating, formulated to Smooth, Extra Fine, 1.0mm, 1.5mm and 3.0mm grades, which provide hard-wearing capabilities.

Applicable Surfaces:

Dry wall, cement render, cast concrete, wood & particle board, heavily primed non-ferrous metals and surfaces previously decorated with Trowel Plastic.

Coverage:

Smooth: 2.0 - 3.0 lb per sq yd Extra Fine: 2.5 - 4.0 lb per sq yd 1.0mm: 2.5 - 4.0 lb per sq yd 1.5mm: 3.5 - 4.5 lb per sq yd 3.0mm: 5.0 - 6.0 lb per sq yd



MIBS ROOF INSULATED PANEL



DESCRIPTION

The **MIBS ROOF INSULATED PANEL** is a sheet of insulating designed to reduce to the maximum the transmission of heat and noise through existing metallic roof.

The plates are prepared to be placed on metal roofs type CC, F2 and F3.

The best alternative to renew your roof metallic.

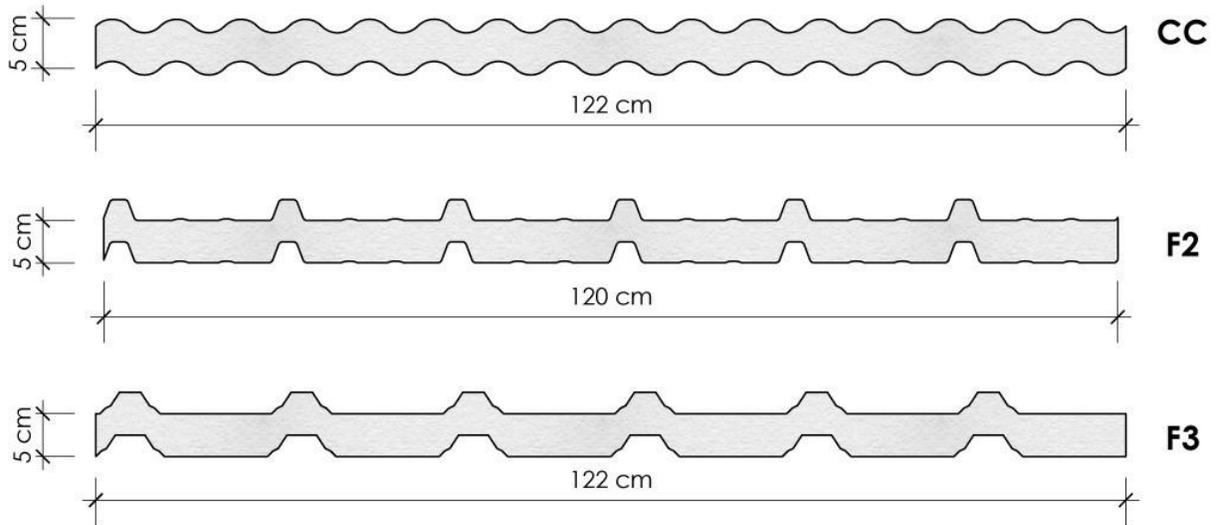
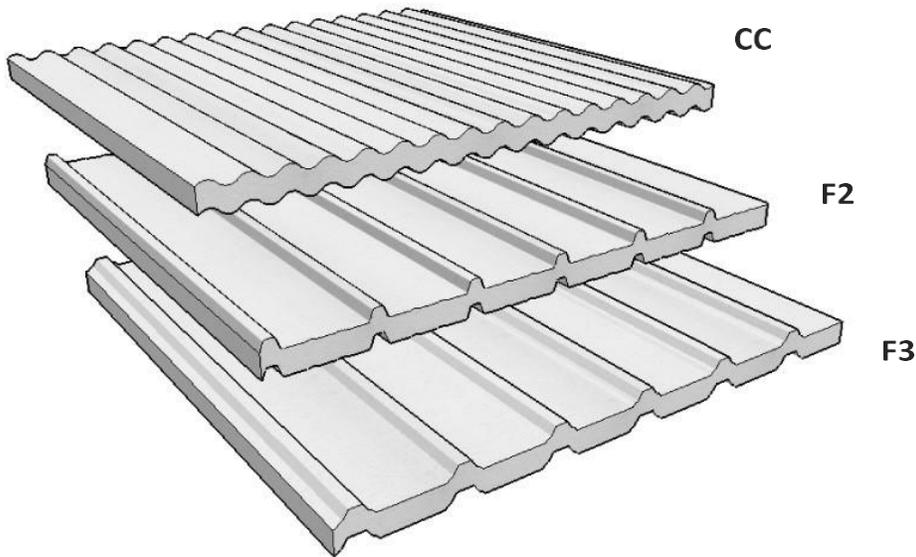
ADVANTAGE

-Protects the maximum against heat and noise negated in metal roofs.

-Easy and quick to install.

-Allows you to place new roofs without the need to remove the original cover.





CHARACTERISTICS				
TYPE	DIMENSIONS			DENSITY OF EPS
CC	122 cm	5 cm	120 cm	15 kg/m ³
F2	120 cm	5 cm	120 cm	15 kg/m ³
F3	122 cm	5 cm	120 cm	15 kg/m ³

The glue for EPS is optional, depending on the conditions of the environment, inclination or size of the ceiling.
Apply waterproof sealant to the new screws that will hold the system



MIBS TRAPEZOIDAL PROFILE ROOF PANEL



DESCRIPTION

The MIBS ROOF TRAPEZOIDAL PROFILE ROOF PANEL are secret-fix trapezoidal profiled insulated roof panels. These systems are ideal for all applications where the roof pitch after deflection is 1.5° or more and on curved roofs with a minimum radius of 150 metres.
ROOF type CC, F2 and F3 manufactured by the group HOPSA.

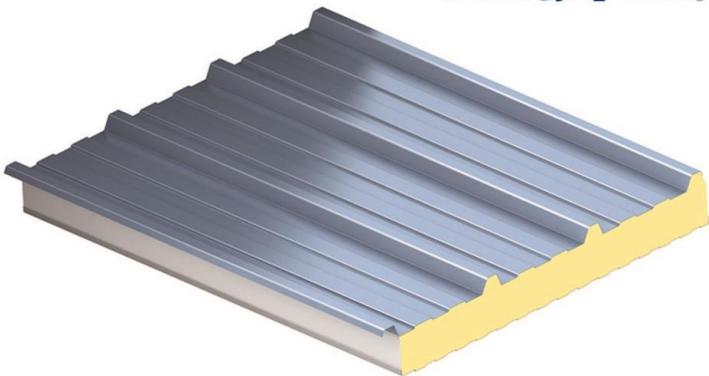
The best alternative to renew your roof Metallic.

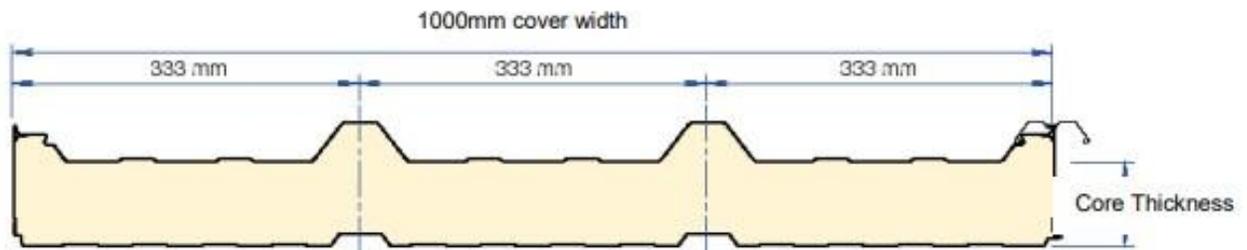
ADVANTAGE

-Are manufactured from the highest quality materials, ensuring long term reliability and service life.

-Are normally immune to attack from mould, fungi, mildew and vermin.

-High performance roofing solution for many building applications that's both energy and cost efficient.





Dimensions, Weight & Thermal Performance

Core Thickness (mm)	40	50	60	80	100	115
Overall Thickness (mm)	75	85	95	115	135	150
U-value (W/m ² K)	0.46	0.38	0.31	0.25	0.21	0.18
Weight kg/m ² 0.5/0.4 Steel	10.0	10.5	10.9	11.8	12.7	13.4

WALL CLADDING PANEL



DESCRIPTION

The **MIBS WALL CLADDING PANEL** represents a dramatic breakthrough in pre-engineered insulated wall panels, delivering a clean, smooth and aesthetically appealing modern solution. Suitable for vertical or horizontal application. Flexible in design and suitable for multiple applications.



ADVANTAGE

- Superior insulation core
- Provides faster onsite installation
- Minimizes construction delays and the need for multiple trades.
- High performance coatings, wide range of colours





Core Thickness (mm)	45	60	70	80	100	120	140	150
U-Value (W/M ² K)	0.52	0.35	0.30	0.26	0.21	0.18	0.15	0.14
Weight kg/m ² 0.63/0.4 Steel	10.9	11.5	11.9	12.3	13.1	13.9	14.7	15.1