



# Acoustical Based Board

## ACOUSTICAL BASED BOARD

### DESCRIPTION

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Acoustical and insulation produced from glass fibers bonded together with thermosetting resin to be used as a process material for acoustical finished products such as: ceiling tiles with vinyl facings, acoustical panels with fabric finished materials and different track systems.

### USES

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Acoustical Based Board is used in a variety of acoustical and office furniture applications that require high acoustical efficiency like office partitions, ceiling panels, wall panels and different track systems.

### AVAILABILITY

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Acoustical Based Board is available in a variety densities, thicknesses, widths and surfaces.



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## SPECIFICATIONS

Length Range (in): 48, 96, 97, 109, 121

Wide Range (in): standard wide is 48"

For other references ask for an evaluation LOI: 11%, 15%

### Density Range

Thickness (in)	6.5 pcf to 10 pcf	5 pcf to 6 pcf	3 pcf to 4.5 pcf
7/8		S (one surface) MF (one surface) MFS	
1	S (one surface) SS (both surfaces)	S (one surface) MF (one surface) MFS SKD (one surface) SKDS	SKD (one surface) MF (one surface) SKDS MFS
2	Not available	SKD (one surface) MF (one surface) SKDS MFS	

Thickness tolerances: +/- 10%

### SURFACES

#### Reference Description

<b>S</b>	<b>Sanded</b>	Unfaced smooth surface. Even though the surface is smooth, it visually shows a wrinkled appearance although is not evident when hand touching the surface. The smooth surface may have some remaining dust after vacuum.
<b>SKD</b>	<b>Skidding</b>	Unfaced smooth surface. The surface shows a visual uniform appearance. This is a dust free surface. Only for boards >1" with MF.
<b>B</b>	<b>Bisected</b>	Unfaced smooth surface. The surface shows a slightly furrowed appearance that is not evident by hand touch. The smooth surface may have remaining dust after vacuum. The bisected surface always will show more dust than any other finished surface. Only for boards <3 pcf.
<b>MF</b>	<b>Mat faced</b>	Smooth surface with a white facing applied using a skidding process. Different mat facings can be used from 40 gr/m <sup>2</sup> to 100 gr/m <sup>2</sup> . Depending of the mat weight the final color appearance can vary slightly from a yellowish tone to a whiter tone.
<b>UNF</b>	<b>Unfaced</b>	

### ACOUSTICAL PERFORMANCE

Product Type & Thickness	Density		Octave Band Center Frequencies, Hz							Thermal Resistance R-Value (4) (h. °F.ft <sup>2</sup> /BTU)
	Pcf	Kg/m <sup>3</sup>	125	250	500	1000	2000	4000	NRC (1)	
1	3	48	0.32	0.32	0.73	0.93	1.01	1.10	0.75	4.3
1 mat faced (a mounting) (3)	3	48	0.06	0.25	0.62	0.91	0.99	0.98	0.70	4.3
2	3		0.40	0.73	1.14	1.13	1.06	1.10	1.00	8.6
2 mat faced(a mounting) (3)	3	48	0.18	0.71	1.12	1.12	1.03	1.02	1.00	8.6
1	6	96	0.30	0.34	0.68	0.87	0.97	1.06	0.70	4.3
2	6	96	0.39	0.63	1.06	1.13	1.09	1.10	1.00	8.6
			125	250	500	1000	2000	4000	NIC (2)	
1 Mounting: Plywood enclosure, 1/2", lined with	3	48	18	17	23	30	38	40+	28	4.3

(1) **NRC (Noise reduction coefficient)**: (Expected values based on similar designed products, ASTM C423 Standard Test Method for Sound Absorption Coefficients by the Reverberation Room Method, Montage E405: Formerly 7, material placed over a 16-air space) – The sound absorption coefficients are not significantly affected by coverings such as expanded sheet metal, metal lath, hardware cloth, screening or glass cloth.

(2) **NIC (Noise Isolation Class)**: (Expected values based on similar designed products, ASTM C423 Standard Test Method for Sound Absorption Coefficients by the Reverberation Room Method, Montage E405: Formerly 7, material placed over a 1-6 air space).

(3) **(A Mounting)**: material placed against a solid backing such as a blank wall.

(1) & (2) The NRC and NIC values should be used as a quick screening tool to compare different construction assemblies.

(4) **Thermal resistance (1")**: 0.77 °C.m/W Typical value (4.3 h. °F.ft<sup>2</sup>/BTU)

## PACKAGING

48" x 24"						
	3 pcf			6 pcf		
Thickness (in) +/- 1.5 mm	Units/ Box	Ft <sup>2</sup> / Box	Net Weight (kg/box) +/- 10%	Units/ Box	Ft <sup>2</sup> / Box	Net Weight (kg/box) +/- 10%
7/8	11	88	8.7	11	88	17.5
1	10	80	9.0	10	80	18.0
2	5	40	9.0	5	40	18.0

96" x 48"						
	3 pcf			6 pcf		
Thickness (in) +/- 1.5 mm	Units/ Box	Ft <sup>2</sup> / Box	Net Weight (kg/box) +/- 10%	Units/ Box	Ft <sup>2</sup> / Box	Net Weight (kg/box) +/- 10%
7/8	8	256	21.8	8	256	50.8
1	6	192	21.8	6	192	43.5
2	3	96	21.8	3	96	43.5

Gross weight (kg/box) = Net weight (kg/box) + 0.8 kg

For 96 x 48" dimension on all thicknesses: Polyethylene shrink-package, cardboard corner protectors, auto-adhesive label.

For 48 x 24" dimension on all thicknesses: Polyethylene shrink-package, cardboard sleeves, auto-adhesive label.

\* The poly is not a watertight package and it may contain some holes. These holes do not affect the tightness of the unit.

## PRODUCT GENERAL REQUIREMENTS

### Weight (kg/m<sup>3</sup>) +/- 10%

Thickness (in) +/- 1.5 mm	3 pcf	6 pcf
7/8	1.07	2.60
1	1.22	2.98
2	2.44	5.95

#### Length range (in):

48, 96, 97, 121 +/- 5 mm. Standard length is 96". For other references ask for an evaluation.

#### Width range (in):

Standard wide is 48". For other references ask for an evaluation. +/- 3mm.

#### Squareness:

90° square angle, 3 mm maximum deviation

Compressive Resistance for 1", 3pcf, typical value: 25 lbf/ft<sup>2</sup> (to 10% deformation), based on test method ASTM C165-00 "Measuring Compressive Properties of Thermal Insulations".

## END USE CHARACTERISTICS AND LIMITATIONS

The product is essentially odorless and do not contain substances that provide sustenance for mold or bacteria growth. The product is resistant under normal temperature and pressure conditions. Although, because it is known that fungi could be in contact with insulating surfaces after installation, and because it is a fact that this surfaces could be contaminated with any kind of substances that promote fungi growing, it is not guaranteed that fungi will not appear.

The fiberglass insulation products themselves do not promote fire or ignite, when a finished material has not been applied. Surface burning characteristics have been tested in similar products accordingly with ASTM E84 test method, with 25/50.

When products are sold in plain, faced, uncoated condition and costumers choose to face or laminate, or coat in any manner, proper procedures should be developed to insure adequate adhesion characteristics of materials to insulation surface. The final appearance will depend on the customer's selected facing.

**Caution:** May cause irritation to skin, eyes and respiratory tract. Avoid contact with eyes and skin. Wear long sleeved, loose fitting clothing, gloves and eye protection when handling and applying material. Wash with soap and warm water after handling. Wash work clothes separately and wipe out washer.



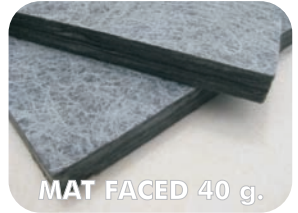
MAT FACED 100 g.



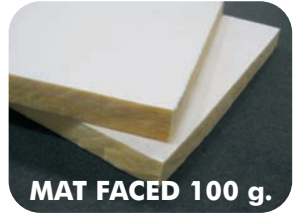
MAT FACED 40 g.



SKIDDED



MAT FACED 40 g.



MAT FACED 100 g.



SKIDDED



CODIGO No. SC 562-1

Sistema de Gestión de la Calidad para la producción y venta de membranas impermeabilizantes, modificadas (matras) (con o sin recubrimiento autoprotector) y emulsiones acrílicas. Cielo rasos en fibra de vidrio con acabado decorativo. Láminas y rollos flexibles en fibra de vidrio para la fabricación y recubrimiento interno y externo de conductos para transporte de aire acondicionado. Alambres térmicos y aislantes rígidos, flexibles y preformados.

Norma NTC - ISO 9001:2000  
Producto fabricado bajo un sistema de administración de calidad certificado de conformidad con ISO 9001.



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