

# AISLAMIENTO ACÚSTICO (ATAAC)

Acoustic and thermal insulation made of bio soluble glass fibers bonded with a heat resistant resin, uniform texture to be used between metal roofs (type "sandwich")



## END USE CHARACTERISTICS AND LIMITATIONS

The product is designed to be installed between sheets of metal roofs, where it functions as thermal and acoustic insulation with excellent performance in compressive strength.

For any appliance, during the design of the system, the dimensional tolerances must be considered.

This product is not recommended, and its properties are not warrantable if it is used in any of the following areas:

- Bath, shower or pool covers areas adjacent or near steam pipes or chimneys, kitchens, or laundry areas that require to be washed with disinfectant substances, hydrocarbons or water vapor.

- Areas where the material may be subject to physical abuse, sport areas or other areas where it may be beaten with an object.

Avoid damaging the package edges and/or nailing other packages over others.

It is recommended to not exceed 10 packages per stowage and manage just one package at the time.

Product certified by LAPEM (Testing Laboratory Equipment and Materials, Mexico)

## PRODUCT SPECIFICATION

PRODUCT	LENGTH mm	WIDE mm	THICKNESS (1)(2) mm	NET WEIGHT ± 10% kg/m <sup>2</sup> (g/ft <sup>2</sup> )
2.97 m x 1 m x 30 mm	2972 ± 8mm	1000 ± 3mm	150 ± 3mm	1.92 (178.35)
2.97 m x 1 m x 38 mm	2972 ± 8mm	1000 ± 3mm	152 ± 3mm	2.43 (225.91)
2.97 m x 1 m x 50 mm	2972 ± 8mm	1000 ± 3mm	150 ± 4mm	3.20 (297.24)
2.97 m x 1 m x 40 mm	2972 ± 8mm	1000 ± 3mm	200 ± 3mm	2.56 (237.80)
2.97 m x 1.13 m x 50 mm	2972 ± 8mm	1130 ± 3mm	150 ± 4mm	3.20 (297.25)

(1) Minimum thickness 95% six weeks after being produced

(2) Measurement method, stack height: Average of 4 measurements taken on the centers from the stack.

PROPERTIES	STANDARD	DESCRIPTION
Operating Limits	ASTM C447	Meets requirements
Thermal Performance (Thermal Conductivity)	ASTM C518	0.034 W/m.°C at 24°C Mean Temp. Typical value (0.24 BTU.in/hr.ft <sup>2</sup> .°F at 75°F Mean Temp.)
Thermal performance (Thermal resistance) (1)	ASTM C518	6.25 hr.ft <sup>2</sup> .°F /BTU - 1.10 m <sup>2</sup> .°C/W for 1. 1/2 in thick
Compressive resistance	ASTM C165	Minimum: 25 lbf/ft <sup>2</sup> (10% deformación)
Acoustic Performance (NRC)	ASTM 423 (A Mounting) (2)	NRC: 0.7 for 1 in thick NRC: 1 for 1. 1/2 in thick
Water Vapor Sorption	ASTM C1104/C 1104M	<3% weight-120°F (49°C), 95% R.H.
Surface Burning Characteristics	ASTM E84 / UL723	Flame Spread Index < 25 Smoke Developed Index < 50
Corrosiveness	ASTM C665 / ASTM C795	Meets requirements
Rigidity	C1101 /C1101M	Classified as Rigid
Linear Shrinkage	ASTM C356	<2% change in length
Fungi resistance	ASTM C1338	Meets requirements
Odor Emission	ASTM C1304	Meets requirements
<b>DBE Content</b>	Oregon State	FREE, Meets requirements

(1) Thermal transmittance U=1/R (BTU/hr.ft<sup>2</sup>.°F - W/m<sup>2</sup>.°C)

(2) NRC (Noise reduction coefficient): Expected values based on similar designed products and a limit number of samples, ASTM C423 Standard Method Sound Absorption coefficients by reverberation method. (A Mounting): Material on solid support such as block wall. NRC values should be used as a tool to compare references about different construction materials.

**VISUAL STANDARD**

CHARACTERISTICS	ACCEPTANCE GUIDE
Color	The product is yellow; the color may have slight variations in tone from light yellow to dark yellow. This variation does not affect the thermal and acoustic performance of the product.
Surface Appearance	The visual standard of the product does not affect the expected typical acoustic characteristics of the product. However, the sheet generally has two sides of appearance: "grainy" and flat, which are product features. Any of the Surfaces may have shallow wrinkles (no bumps or cracks should occur that exceed 3 mm (1/8 in) in height or depth). White and hard patches with areas up to 26 cm <sup>2</sup> are allowed. The board does not break under normal conditions; proper handling must be assured at transportation and warehousing.

**PACKAGING**

PRODUCT	UNITS/PACKAGE	AREA/PACKAGE (m <sup>2</sup> )	NET WEIGHT +/- 10% kg/Package
2.97 m x 1 m x 30 mm	5	14.85	28.5
2.97 m x 1 m x 38 mm	4	11.88	28.88
2.97 m x 1 m x 50 mm	3	8.91	28.5
2.97 m x 1 m x 40 mm	5	14.75	38
2.97 m x 1.13 m x 50 mm	3	10.05	32.22

Polyethylene shrink-package extremes open, cardboard corner protector and autoadhesive label.

GROSS WEIGHT (kg/package) = NET WEIGHT (kg/package) + 0.9 kg aprox.

**RECYCLED CONTENT**

- (1) PI Post Industrial Recycled Content: Collected from Manufacturers or industry.
- (2) PC Recycled Content Post-Consumer: Collected from end uses.

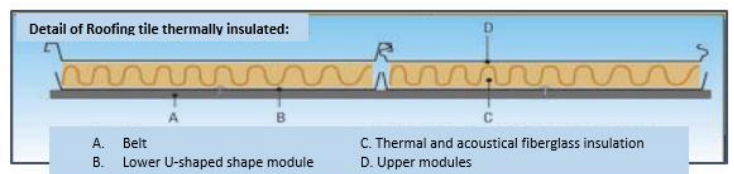
TOTAL RECYCLED CONTENT	POST-INDUSTRIAL RECYCLED CONTENT PI (1)	POST-CONSUMER RECYCLED CONTENT PC (2)
71.7%	71.7%	0%

**INSTALLATION RECOMMENDATIONS**

Metal tile installation "sandwich" type:

- The placement begins on the opposite side to the wind from the rain. Put clips in the first and last belt which are placed and then trace the position of the remaining clips.
- After screwing first row of clips, engage the module and dropped onto the belt. The first modules are U shaped which installation will be on insulation thermal-acoustic.
- The following row clips will be placed on previous module and screwing to the belts. Then the following module is engaged to the previous and it dropped onto the belt.
- On the lower U shaped modules blades of thermal-acoustic insulation for tile in fiber glass is suspended.

- Upper modules are engaged to clips of the lower modules and they are dropped on fiber glass, shaping a metal tile "sandwich" type, which is thermally and acoustically insulated.



- It is important ensure the metal tile in the edges with each hook specified by the manufacturer. Hooks so long can be wrong associated at low compressive strength due to wrong position or displacement. Furthermore, is necessary the insulation may insert properly in the "sandwich" to avoid efforts of self-support.



**Fiberglass Colombia S.A - Colombia**  
**Planta Mosquera**  
**Mineral Glass Wool AA1**

Certificate No.385 Bio soluble Mineral glass wool FGC.  
 Note Q of the Regulation EC 1272/2008 of the European Parliament and of the Council as Currently in force.

European Certification Board for Mineral Wool Products

**CFE** *Una empresa de clase mundial*  
**LAPEM**

LABORATORIO DE PRUEBAS DE EQUIPOS Y MATERIALES

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FIBERGLASS COLOMBIA S.A PROVEEDOR AUTORIZADO

**N° CO11/4442**

Sistema de Gestión de la Calidad para la producción y venta de membranas impermeabilizantes modificadas (mantos, con o sin recubrimiento autoprotector) y emulsiones asfálticas, 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, Aislamientos térmicos y acústicos rígidos, flexibles y preformados.

**Norma - ISO 9001:2015**

Producto fabricado bajo un sistema de administración de calidad certificado de conformidad con ISO 9001.

Reported values are typical of tests carried out on samples taken from standard production and may be update without notice.

The user is responsible for determining if the product is recommended for a particular surface and if it satisfies the application requirements. The user must make application testing and product testing required for that purpose.

*Not controlled copy. Information on this document may be updated without notice.*

**Last Update: August 28th / 2018**