



DUCT  
board



INNOVATIONS FOR LIVING™

## DESCRIPTION

**Duct Board** is a rigid board made of glass fiber laminated with a reinforced aluminum air barrier/vapor retarding facing, especially designed for the fabrication of HVAC ducts, which work with air speeds of up to 2,400 feet/minute, and operating temperatures of less than 121°C (250°F).

## APPLICATIONS

**Duct Board** is a thermal acoustical and acoustic insulation, designed for manufacturing components for commercial and residential heating, ventilation, and air conditioning systems with static pressure of 2 inches w.g., internal air temperatures that would not exceed the 250°F (121°C) and in air speed of 2,400 ft/min (732 m/min).

## ADVANTAGES

- **Maximum thermal efficiency**  
This product could reduce operational costs by diminishing the loss or gain of heat.
- **Maximum acoustic efficiency**  
The systems manufactured with this board absorb fan and air turbulence noise of the air

conditioning and heating equipment, and reduce noises caused by the expansion, contraction, and vibration.

- **Ignition Resistance**  
The flame spread index is 25 and the smoke development index is 50, in accordance with the test method standard UL 723.
- **Temperature and air speed**  
**Duct Board** has been designed to work with air speeds of up to 2,400 ft/min (732 m/min) and temperatures lower than 250°F (121°C).
- **Does not favor corrosion**  
The non iron nature of the glass fiber will not promote corrosion in steel, copper and aluminum.
- **Easy to install and handle**  
**Vitro Duct Board** is lightweight and is easily fabricated and assembled into straight sections, elbows, "T" ducts, branch lines, and other elements of a complete air transmission system, due to its density, flexibility and easy handling.
- **Lightweight**  
The ducts made from **Duct Board** are easier to handle and

Install than insulated metal ducts because they weigh less. Less weight also means that Vitro Duct Board duct system reduces the weight imposed on the structure.

- **Better Temperature Control**  
When properly installed, ducts made from **Duct Board** help deliver warmed or cooled air at desired temperature throughout.
- **Resistant**  
The characteristics of **Duct Board** and the properties of the glass fiber allow the material to recover its shape and thickness, when the pressure that deforms it disappears and secures thermal resistance.
- **Inorganic**  
Its coating has a biocide that protects against the growing of fungus and bacteria.

## INDUSTRY STANDARDS

The quality of **Duct Board** fulfills with the following norms:

- UL 723
- UL 181 Class1
- ASTM C665
- ASTM C423



## PROPERTIES

### MAXIMUM AIR SPEED THAT AGREES WITH STANDARD UL-181\*

Maximum Tested Speed		Maximum Recommended Speed	
ft/min	m/min	ft/min	m/min
6000	1829	2400	732

It was tested in 2.5 times the maximum recommended value. In the maximum tested speed the Vitro Duct Board fulfills with the acceptance criteria of the erosion test under the same standard.

### MAXIMUM DIMENSION OF THE DUCTS WITHOUT REINFORCEMENT

Maximum Tested Speed	Type 475			Type 800			Type 800		
Thickness	1"			1"			1-1/2"		
Internal Pressure (inches, water)	0.5	1	2	0.5	1	2	0.5	1	2
Positive Pressure	30	24	15	26	30	15	26	24	18
Negative Pressure	30	24	15	30	24	15	26	24	18

### THERMAL CONDUCTIVITY

TYPE	THICKNESS		BTU in/ft <sup>2</sup> h°F	W/°C	Kcal m/m <sup>2</sup> h°C	DENSITY		"R" Value
	in	cm				lb/ft <sup>3</sup>	g/cm <sup>3</sup>	
475	1	2.5	0.230	0.033	0.2852	4.45	71.2	4.3
800	1	2.5	0.255	0.036	0.3162	5.3	84.8	6.5
	1 1/2	3.8	0.255	0.036	0.3162	3.8	60.8	6.5

## STORAGE RECOMMENDATIONS

To avoid damage of **Duct Board** we recommend the following:

- Protect the material from temperature changes.
- The first layer of the product must be over a wooden pallet.
- Keep the product in its package until you use it.
- Maximum recommended storage: 8 pallets.
- Avoid putting the product on wet surfaces.
- Avoid exposing the product to mechanical abuse.
- Leave the labels that identify the product where you can see them.

## PRESENTATION

Rigid Boards with aluminum steam barrier and reinforced kraft paper.

### AVAILABLE SIZES

TYPE	THICKNESS		WIDTH		LENGTH	
	in	cm	in	cm	in	cm
475	1	2.5	48	123	120	305
800	1	2.5	48	123	120	305
	1 1/2	3.8	48	123	120	305

## INSTALLATION

The manufacturing and installation of **Duct Board** duct systems must be done according to the UL classification and to the instruction published by **Owens Corning**, and the most recent editions of NAIMA.

## FOR YOUR SAFETY

Products that have been manufactured and sold by **Owens Corning** have been produced using strict quality norms. All the products have original labels and packaging with the logotype and brands registered by **Owens Corning**. Please contact us with any questions you may have about our products.

## ADDITIONAL INFORMATION

The information contained in this datasheet is based on laboratory conditions just for comparative purposes.



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