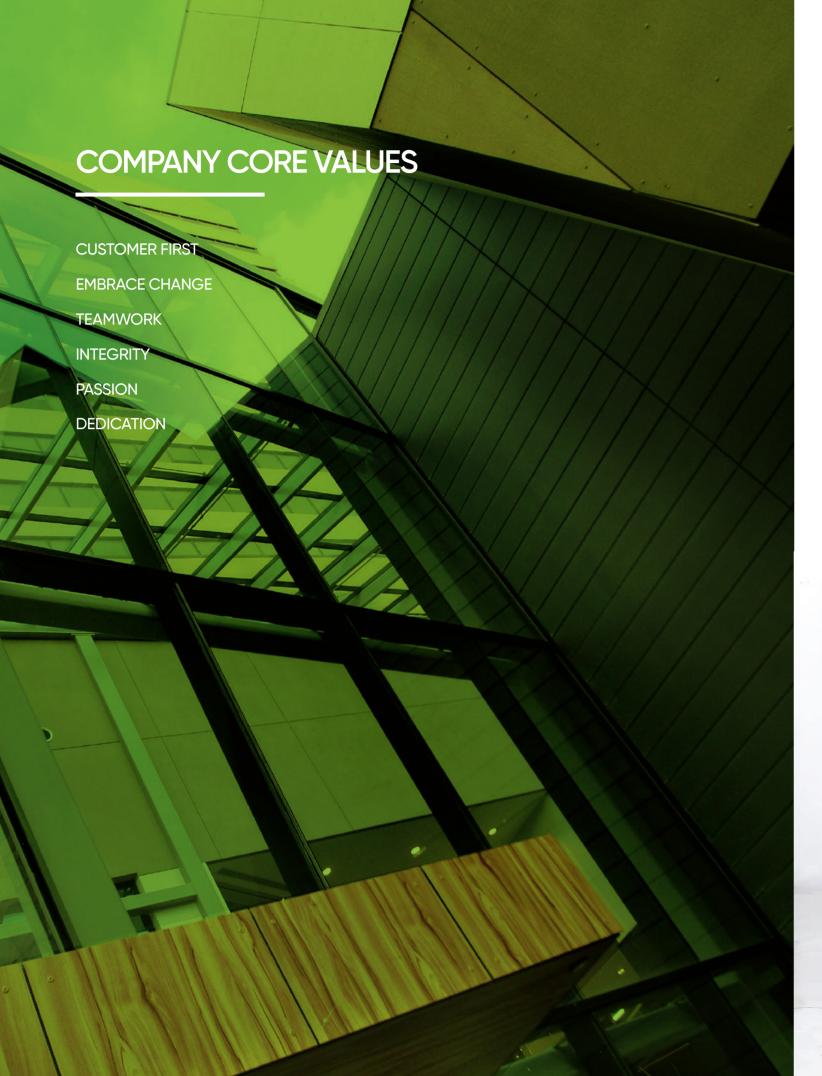




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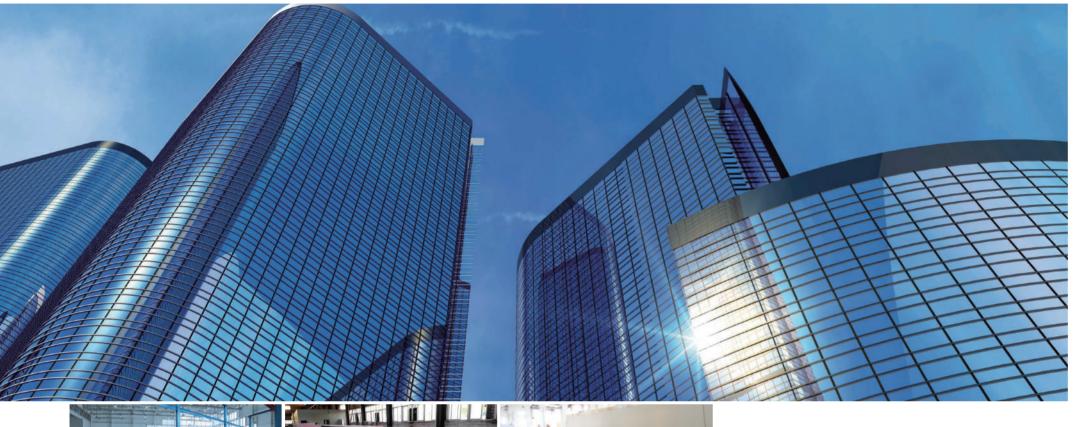


ABOUT WELLWALL



In 2016, the company was one of the national industry standard drafting companies, and participated in the preparation of the latest industry standard JC/T1051 "metal surface rigid phenolic phenolic foam composite board". Obtained the ISO9001 quality system certification and environmental assessment report. And passed the NFTC, Exova, ITS and other related institutions on the comprehensive testing of products.

Since its establishment, the company has adopted an advanced production management mode, so that all technical indicators of the products meet the requirements of international and domestic standards. The company advocates the enterprise spirit of "diligence and pragmatism, surpassing self", insists on the product with "highest cost performance" as the core, adheres to the service with the concept of "integrity and efficiency", and strives to be the leading brand in the composite air duct and fireproof and heat insulation board industry. Welcome domestic and foreign customers to cooperate with us.







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PHENOLIC PANEL FOR AIR DUCT







• PRODUCT INFORMATION

Phenolic foam material is a organic polymer rigid foam product, which is a closed-cell type rigid foam made of phenolic resin and flame retardant, foaming agent, curing agent and other additives. Phenolic foam is known as the king of insulation because of its low thermal conductivity, heat preservation and fire resistance.

Phenolic foam is the most promising new type of thermal insulation material in the internationally recognized construction industry. Because this material not only has low thermal conductivity, good thermal insulation performance, but also has flame retardancy, good thermal stability, light weight and low smoke. Heat resistance, high mechanical strength, strong sound insulation, strong chemical resistance, good weather resistance, etc., first applied to aerospace, defense engineering, and later widely used in civil aircraft, ships, station oil wells and other fire-resistant requirements Sites, as well as thermal insulation, energy conservation, sanitation and other highrise building central air conditioning systems, such as hospitals, stadiums, schools, factories, airports and so on. It can also be applied to cold storage in refrigeration storage, insulation for industrial pipes and equipment such as petrochemicals, building partitions, exterior wall composite panels, ceilings, sound absorbing panels, etc.

TECHNICAL DETAILS

Length	3900mm/2900mm(other length are available)
Width	1200mm
Thickness range	20/25/30/40/50mm
Aluminum facing	Aluminum foil, black Aluminum foil, Aluminum sheet, Color steel sheet, Galvanized sheet.
Density	40-80 kg/m³(other density are available)
Thermal conductivity	0.021~0.030 W/(M·K)
Water Absorption Rate	1.9%
Dimension Change Rate	0.3%
Working Temperature	-100°C to 150°C
Combustion performance	Class 0 (BS476 Part 6 and 7), Class A (ASTM E84)

• FEATURES

- Light, safe, decrease the load of the building.
- Easy to install, shorten the construction period.
- Protect environment, sandwich structure with antioxidant surfaces.
- High performance in heat insulating, can be served in both high and low temperature environment.
- Fireproof, meet the National standard, makes building safe.
- Soundproof, makes a quieter environment.
- No need to leave space for insulation material installing, so that the story height can be reduced.
- Long service life up to 20 years, very low cost in wastage and maintenance.
- · Nice appearance.

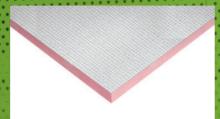
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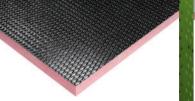






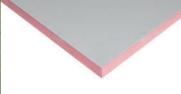
- 1 Embossed Aluminum foil 80 / 60 micron
 2 Phenolic foam
 3 Embossed Aluminum foil 80 / 60 micron
 3 Aluminum foil reinforced with a glass scrim
 3 Aluminum foil reinforced with a glass scrim



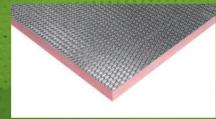








- Phenolic foam 2 Color steel sheet 200 micron 3



- - Galvanized sheet 200 micron

Aluminum foil, Black Aluminum foil

- Aluminum sheetColor Steel sheetGalvanized sheet

- Aluminum foil, Black Aluminum foil
 Aluminum sheet
 Color Steel sheet

- Galvanized sheet

PHENOLIC FOAM FOR AIR DUCT APPLICATIONS











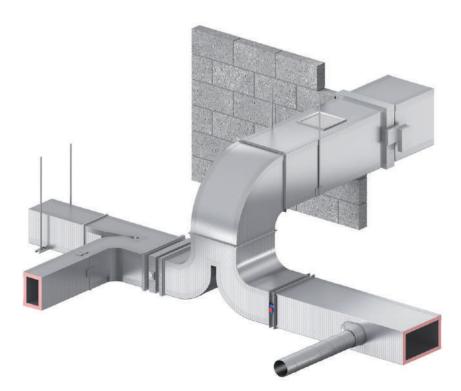














PHENOLIC FOAM FOR WALL INSULATION







PRODUCT INFORMATION

PRODUCT INFORMATION

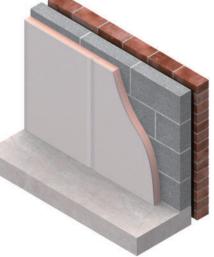
Phenolic foam for Framing Board is a rigid insulation board used for timber and steel framing systems, consisting of a rigid thermoset modified resin insulation core, covered with low emissivity composite foil on both sides, improving thermal resistance in adjacent unventilated cavities. The product is manufactured with a 0 ODP and low GWP blowing agent, which makes it very eco-friendly. It could be used to control potential condensation problems, especially if combined with a vapor-resistant layer placed on the warm side of the insulation. placed on the warm side of the insulation. It is easily cut by using a sharp knife or a toothed saw, always taking care of accurate trimming. It is best kept in indoor conditions and when stored outdoors it must be properly covered and protected by using polythene sheet, for instance, in order of keeping it dry. The product is completely safe to use and will not endanger your

• FEATURES

- Safe and easy to handle and install.Water vapor resistant.
- The core is Class 0 fire rated.
- Non-deleterious.Very durable, depending on the structure and conditions of use.
- Mold and microbial growth resistant.Unaffected by air filtration.
- High performance thermoset rigid insulation.
 • Applicable in both new build and
- refurbishment projects.
 Environmentally friendly, with 0 ODP and low GWP.

• TECHNICAL DETAILS

Length	1000mm(other length are available)
Width	1200mm/600mm
Thickness range	60/70/80/90/100/110/120/130mm
Panel surface	Both side embossed aluminum foil or bare
Aluminum foil thickness	80/80 micron, 60/60 micron
Density	40-80 kg/m³(other density are available)
Thermal conductivity	0.021~0.030 W/(M·K)
Water Absorption Rate	1.9%
Dimension Change Rate	0.3%
Working Temperature	-100°C to 150°C
Combustion performance	Class 0 (BS476 Part 6 and 7), Class A (ASTM E84)



CONSTRUCTION OF AIR DUCT



PLOTTING

In this phase, the perimeter of the single piece, that will compose the finished duct (linear or fitting) after cutting and assembly, is plotted on the panel.



Using the appropriate tools (manual or automatic) in this phase, the single pieces to be used in the fabrication of the duct are cut from the panel.



During gluing, all the pieces produced above are assembled with the use of special glues and the finished duct takes

GLUING





FOLDING

In this phase (required only for the production of duct fittings), indentations are applied to the piece of panel allowing the panel to be adapted to the shapes of the finished duct.





CLOSING

In this phase, the duct is trimmed and finished through pressing and taping.





ACCESSORIES

Using specific tools and glues, the section bars required are applied to the finished duct. When the duct is installed, these section bars permit easy connection of the single pieces to complete the air distribution

AIR DUCT FITTINGS AND ACCESSORIES



Thickness: (20mm and 30mm) Length: 4m



FLANGE/INVISIBLE FLANGE: ALUMINUM JOINT / PVC CHAIR H-FLANGE: ALUMINUM JOINT / PVC Thickness: (20mm and 30mm) Length: 4m



F-FLANGE: ALUMINUM JOINT / PVC Thickness: (20mm and 30mm) Length: 4m



U-FLANGE: ALUMINUM JOINT / PVC Thickness: (20mm and 30mm) Length: 4m



SLIDING CHANNEL: ALUMINUM JOINT Thickness: (20mm and 30mm) Length: 4m



H-INSERT: ALUMINUM JOINT / PVC Thickness: (20mm and 30mm) Length: 4m



GI CORNER COVER Thickness: (20mm and 30mm)



PVC CORNER Thickness: (20mm and 30mm)



ALUMINIUM TAPE Width: 2 inch, 3 inch



GI SHAPE DISK



CUTTING TOOLS SET Left, right, straight and V cutter



TIGER JOINT

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TESTING EQUIPMENT

CERTIFICATION













PRESSURE MACHINE



THERMAL CONDUCTIVITY MACHINE