

AIRFOIL



GRILLES
DUCT
FITTINGS

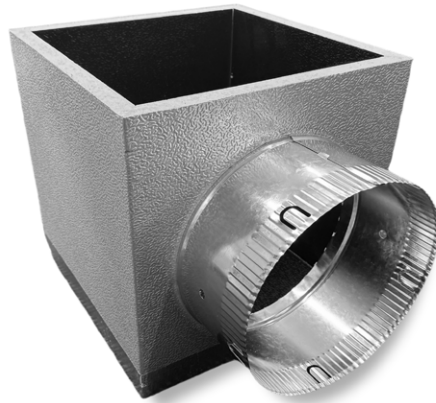
making it happen sooner...



Quality
Endorsed
Company
ISO 9001
 SAI GLOBAL



**POLY BOARD
CUSHION BOX
PC-CB**



POLY BOARD CUSHION BOX **PB-CB**

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made 20mm Polyurethane Foam Pre-Insulated Poly Board Cushion Box (PB-CB) is a light weight Fire Rated alternative to our Sheet Metal range. The Poly Board aluminium sheeted exterior is coated with a 2g/m² resistant epoxy varnish further enhancing its insulation qualities guaranteeing durability and reliability.

The Poly Board Cushion Box (PB-CB) can be manufactured to any specifications and is available with various spigot placements including Side, Opposite, and Adjacent, catering for different duct configurations layouts with ease.

Designed to seamlessly integrate with Airfoil's range of grilles, including the Swirl Diffusers (CDS), Louvre Face Diffusers (LFD) and Bevelled Diffusers (BD), this quality Poly Board Cushion Box ensures compatibility and efficiency. Suitable for commercial settings where thermal and acoustic requirements are paramount, it stands as a testament to Airfoil's commitment to excellence in Poly Board solutions.

POLY BOARD CUSHION BOX PB-CB

PRODUCT SPECIFICATIONS AND INFORMATION

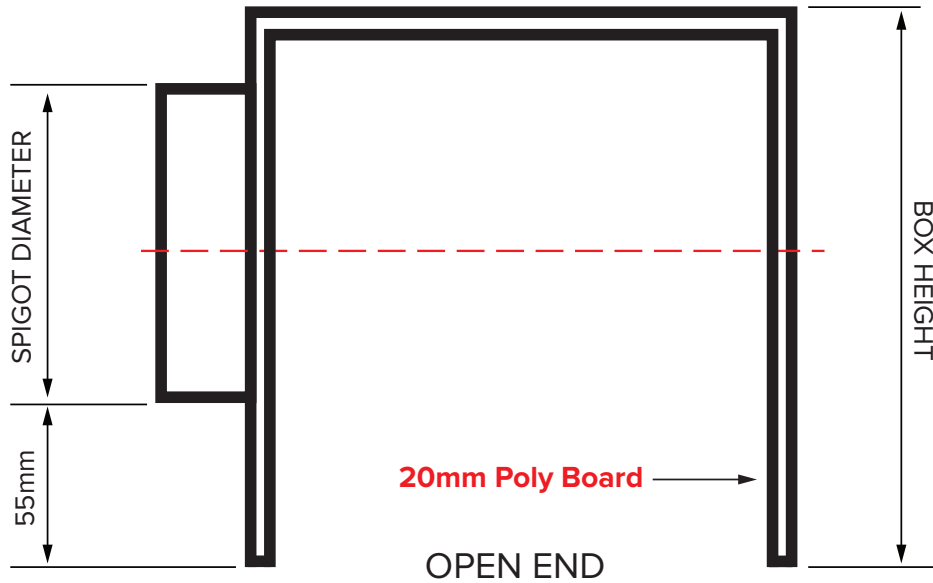
- **Product ordering code – PB-CB**
- Australian Made and Designed
- Custom made to any size (order by internal opening size)
- Manufactured from 20mm Polyurethane Foam (Pre-Insulated)
- Aluminium Outside / Black-Faced internal
- R-Value
- Light weight
- Coated with 2g/m² resistant epoxy varnish
- Density = 66kg/m³
- Available with optional 20mm C-Extrusions cover attachment trim
- Easy installation
- Custom box heights manufactured to suit grille requirements
- Mounted behind grille
- Acoustic qualities
- Thermal qualities
- Variety of spigot placements available (Side, Opposite & Adjacent)
- Spigot sizes available are 100mm, 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm, 500mm, 550mm and 600mm diameters
- Customised oval spigots available to suit varying box height restrictions
- Used for supply air diffusion for heating and cooling
- **Tested information available (AWTA)**



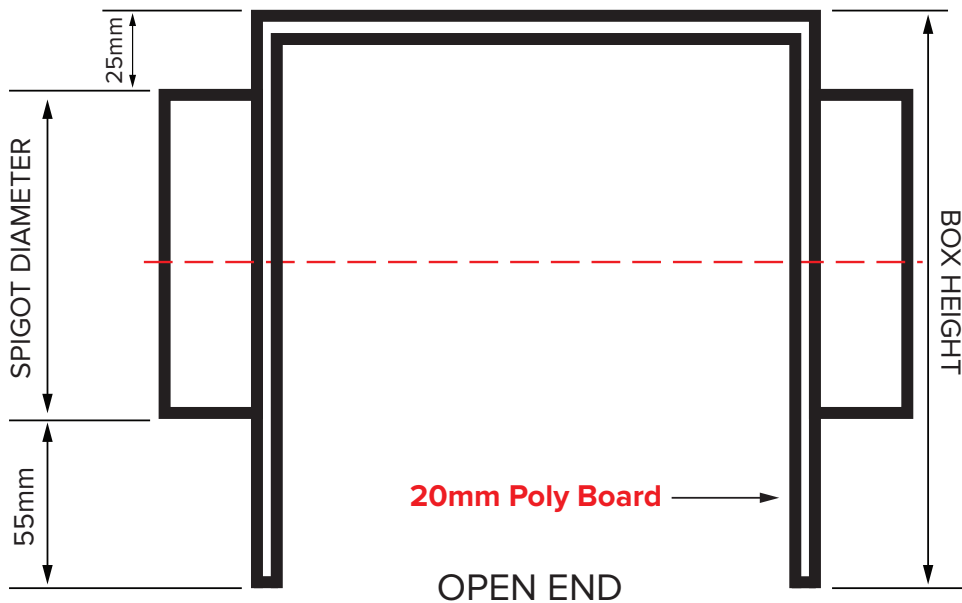
POLY BOARD CUSHION BOX PB-CB

CROSS SECTIONAL DIAGRAM

SIDE ENTRY CUSHION BOX



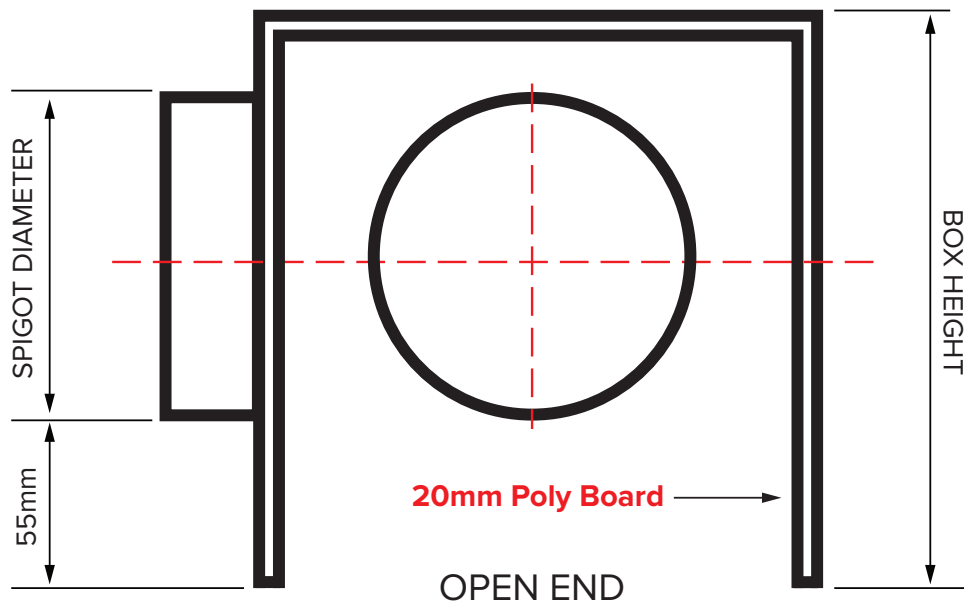
OPPOSITE SIDE ENTRY CUSHION BOX



POLY BOARD CUSHION BOX PB-CB

CROSS SECTIONAL DIAGRAM

ADJACENT SIDE ENTRY CUSHION BOX



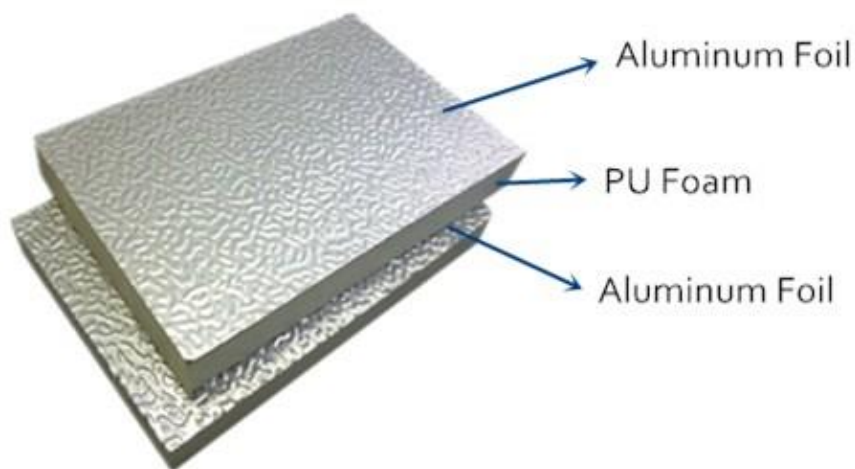
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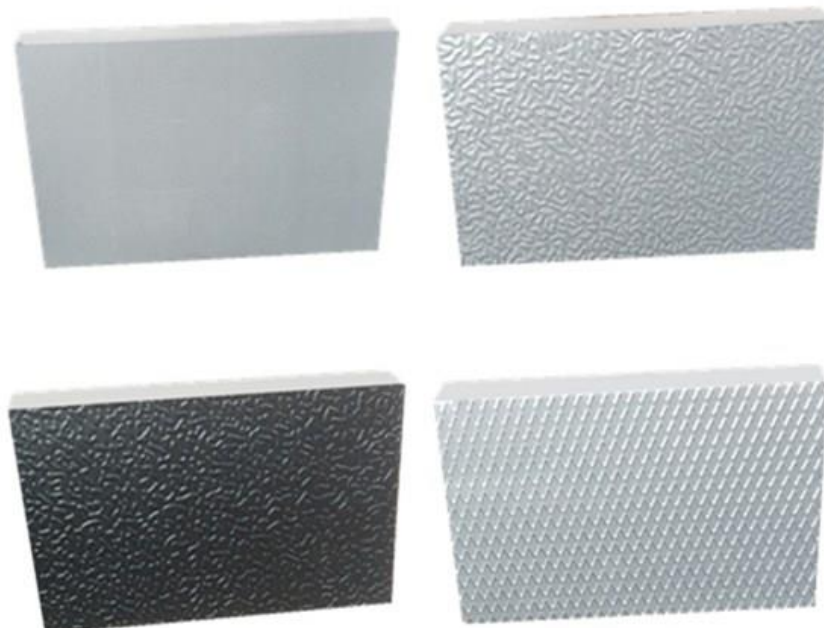
POLY BOARD CUSHION BOX PB-CB

PU FOAM PRE-INSULATED PANEL (20MM THICK)

Polyurethane Foam Pre-insulated Panels consists of 20 mm thickness with aluminium foil, aluminium sheet or Galvanised Iron on both or either sides. The aluminium foil is coated with a 2g/m² layer of corrosion-resistant epoxy varnish paint which also acts to reduce fungus and mold growth.



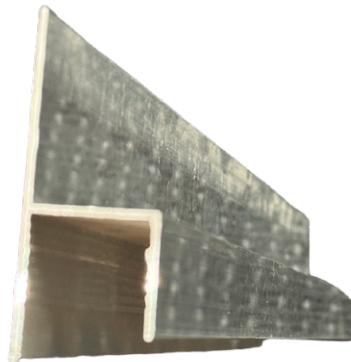
The aluminum foil can be produced in silver, white or black colour, with a smooth or embossed finish. The surface of the panel also can be aluminum sheet, GI or printed color steel, as per the images below:



POLY BOARD CUSHION BOX PB-CB

TECHNICAL DATA PU FOAM PRE-INSULATED PANEL (20MM THICK)

PROPERTY	UNIT	SPECIFICATION
Standard Size	mm	3950*1200*20
Foam Density	kg/m ³	50-55
Aluminium Foil Thickness	micron	80
Aluminium Sheet Thickness	micron	200
Thermal Conductivity	W/m.K	0.02
Thermal Resistance	R-Value	R1.0 (AS/NZS 4859 - ASTM C518 -2017)
Fire Rating	3 Zero	AS/NZS 1530.3-1999
Compressive Strength	Mpa	0.25
Bending Strength	Mpa	2
Water Absorption	%	0.01
Dimension Change	%	0.3
Maximum Wind Velocity	m/s	13-20
Maximum Running Temperature	°C	80



OPTIONAL C-EXTRUSION COVER ATTACHMENT TRIM