

# CUSTOM INSULATION

Bespoke Acoustic and Thermal Insulation Specialists

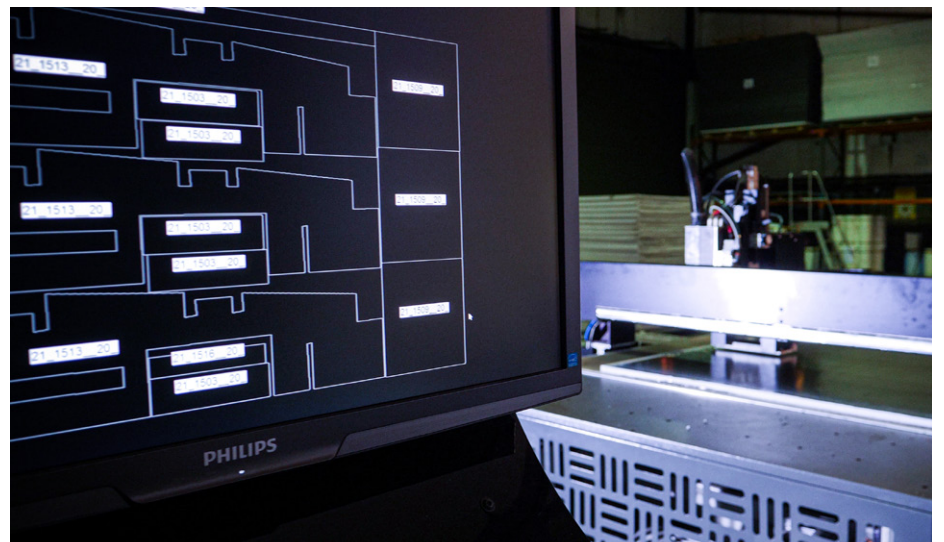


## Process

Typically, our process starts by understanding the requirements of our customer, so we can establish an appropriate quality product for their needs. The insulation comes in multiple forms, in various densities and colours, made especially with different markets in mind. It is then converted in-house and shaped to the customer's needs. The product can be faced or wrapped in multiple different options for protection, reflectivity or to prevent water ingress. A self-adhesive backing can be applied to allow easy installation. We achieve the desired design utilising a combination of CNC technology, saws, presses, guillotines and hand finishing. We then collaborate with our customer on the finishing, providing installation aids and bespoke kitting to ensure installation is accurate and easy.

## Customisation

Converting the material ourselves, we can supply any thickness you require. Catering to a wide range of shapes and sizes, we utilise a high daylight CNC knife to accurately cut sheets up to 100mm thick alongside press tooling to give fast repeatable processing for any required shape. This gives a made to-measure product that fits around bolts, fixings and intricate shapes.



*Custom Insulation has had many years of experience in the insulation industry going all the way back to 1890 under the banner of Hodgson & Hodgson Group. We have provided insulation solutions in specialist industry sectors including construction, transportation, appliances and industrial.*

### Transport



### Appliances




### Industrial



## Example material specifications for Construction.

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**Material Data Sheet**




### Rock Fibre Slab

A widely used, non-combustible, odourless, general purpose insulation comprised of mineral wool. This rigid insulation has many densities available, is an excellent insulator and used for a wide array of applications.

Density (kg/m <sup>3</sup> )	Thermal Conductivity (W/mK)
45	0.035
60	0.034
80	0.034
100	0.034
140	0.035

Thickness available: 10mm to 100mm



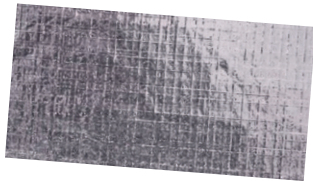
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All given figures stand for information according to our own knowledge but should not be used as specification or guaranteed data.

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**Material Data Sheet**

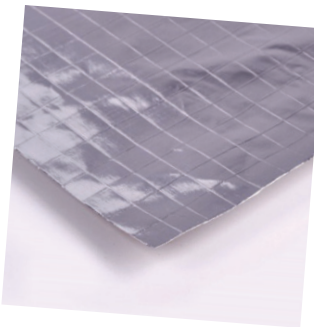


### BCO / FSK Foil

Bright Class-O (BCO) aluminium foil is reinforced with bi-directional glass fibre scrim. FSK is a 7µm aluminium foil facing, reinforced with glass fibre scrim and comes with a polythene vapour barrier, mounted to Kraft paper. Foil-Scrim-Kraft (FSK) is more durable than simple foil facings and is classified to a Class 1 fire rating. These products are available as a reflective facings on most insulating products and is far more durable than standard foil facings.

<b>BCO Foil</b>				
Thickness (µm)	Density (g/m <sup>3</sup> )	Temperature range (°C)	Burst Strength (kPa)	Tensile Strength (N/m)
12	71	-5 to 90	200	4000
18	89	-5 to 90	200	4000

<b>FSK Foil</b>				
Thickness (µm)	Density (g/m <sup>3</sup> )	Temperature range (°C)	Burst Strength (kPa)	Tensile Strength (N/m)
12	71	-5 to 90	200	4000



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