

EncaSeal is a tough 130 micron membrane with a LOW EMISSIVITY surface of only 0.03. It is designed to completely encase and seal phenolic, nitrile, carbon impregnated polyurethane and fibre insulation used on air-conditioning ducts, pipe work and storage tank.

The aluminium surface of EncaSeal has a special coating that ensures it's UV resistant, bright surface never tarnishes. 100% waterproof and bug proof, this Class 0 fire rated material has a Valéron® cross laminated core making it difficult to puncture or tear, properties essential for a long working life and keeping wastage to a minimum during installation.

EncaSeal incorporates a 12 micron bright aluminium foil chosen to give a pinhole free surface when creased or crushed. The aluminium also has a good "dead fold" property, making the membrane easy to handle on site as it will not spring back. Tests show the finished on the 12 micron aluminium surface of EncaSeal provides an impermeable barrier that should withstand 20 years of life without corrosion.



## Advantages of EncaSeal:-

- Allows much easier environmental control over:-  
Temperature, Humidity, Ventilation
- Deflects at least 96.% of infrared energy and virtually all UV energy
- Is easy to install, once in position, the adhesive is formulated to migrate into the tarnish proof coating, where it sets over a short period of time providing a life-long bond. There is no need to fit retaining wire-mesh around the duct work or have any other protection for the insulation.
- Can be installed with confidence onto insulated ducting carrying hot air at 130°C without delaminating or coming away from the insulation. The high performance self adhesive will adhere to most insulation and will withstand temperatures of minus 37°C to plus 127°C. Any holes are sealed so the air temperature within the duct is maintained.
- Has a low moisture transmission rate of 0.021g/m<sup>2</sup> providing an excellent vapour and dust barrier, halting moisture migration into any soft insulation layers and sealing-in dust particles, this feature being desirable where piping is associated with "clean areas".
- Once fitted, EncaSeal will stiffen the whole structure, ensuring existing and replaced foam or quilt insulation is sealed, kept dry and its performance maintained.
- Designed to provide protection against the egress of insects and rodents, the following benefits become apparent:-  
Does not provide a food source, or a nesting habitat.  
Moisture and dilute acid/alkali resistant.  
Can be pressure washed.
- EncaSeal prevents methane and carbon dioxide gases produced by external sources from migrating into AC ducting. EncaSeal also restricts the passage of airborne radon from permeating from subsoil into the ventilation system.
- Suitable for food preparation areas.



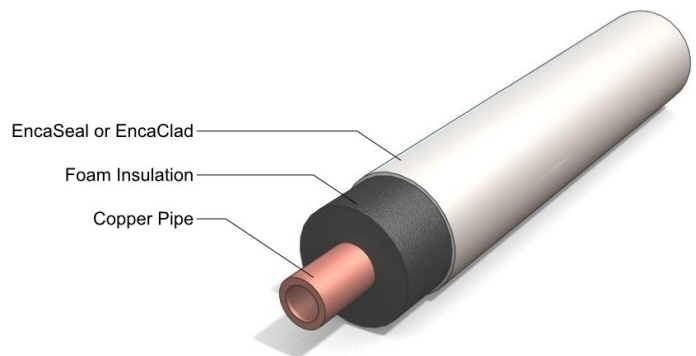
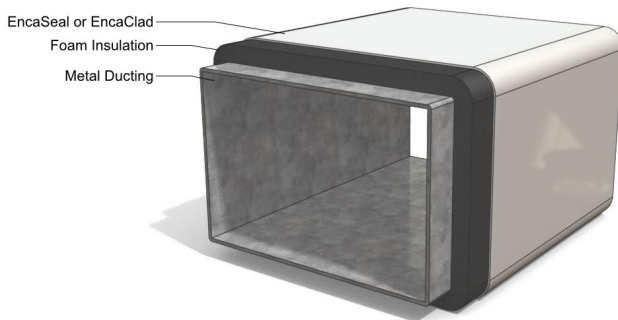
## Multi-layers of EncaSeal™ - Total thickness 130 micron plus paper release lines



- Impermeable surface finish
- 12 micron bright aluminium
- Two part curing adhesive
- Valéron® 100 micron – three layers – cross laminated
- High performance self adhesive
- Paper release liner

### EncaSeal's R Values

0.66 m<sup>2</sup>KW - Horizontal Heat Flow



### Technical Details

Reflectivity (ASTM E903)	over 97.60%
Emissivity (ASTM E408)	0.03
Carbon Emissions Saved	Up to 23kg per m <sup>2</sup> /annum
Roll Size	96m x 1.25m 120m <sup>2</sup>
Nominal Thickness	130 microns
Tear Resistant (ASTM D882) Machine Direction (MD)	Tensile 6620N/m
Tear Resistant (ASTM D882) Cross Direction (CD)	Tensile 5000N/m
Beach Puncture Resistance (ASTM D774)	40.1kg-cm
Moisture/vapour Transmission Rate (ASTM E96)	0.021g/m <sup>2</sup> .
BS476 Part 6 Fire Propagation	Class 0
BS476 Part 7 Surface Flame Spread	Class 1
Corrosion resistant	Unique surface coating
Temperature Resistant	-35°C to +127°C