

EncaClad is a durable 345 micron membrane designed to completely encase external insulated or un-insulated structures, pipelines and ducts. It can also be used to clad flat surfaces and large storage tanks.

The aluminium surface of EncaClad has a special coating that ensures it's UV resistant, bright surface never tarnishes. 100% waterproof and bug proof. One side of the sheet is coated with a specially developed waterproof acrylic adhesive with release liner. Once EncaClad is 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 that will resist even high pressure water cleaning techniques. The adhesive has a working temperature range of minus 35°C to plus 127°C

EncaClad is simply cut with a craft-knife and joins sealed with EncaSeal Tape. There is no need to fit retaining wire-mesh around pipe-work or have any other protection for the insulation.

Deflects infrared and UV energy

EncaClad blocks 96% of infrared energy and virtually all UV energy that would otherwise be absorbed by any soft insulation. In a short period of time this energy will break down the surface of any foam insulation, shortening its life and increasing dust levels to unacceptable levels.

An excellent vapour barrier

With a low moisture transmission rate EncaClad also act as an excellent vapour/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". The system ensures existing and replaced foam or quilt insulation is sealed, kept dry and its performance maintained.



Multi-layers of EncaClad



- Impermeable surface finish
- 25 micron bright aluminium
- Two part curing adhesive
- 300 micron polypropylene core
- High performance self adhesive
- Paper release liner

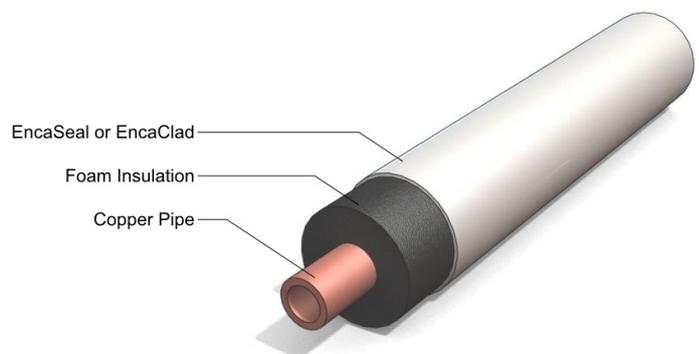
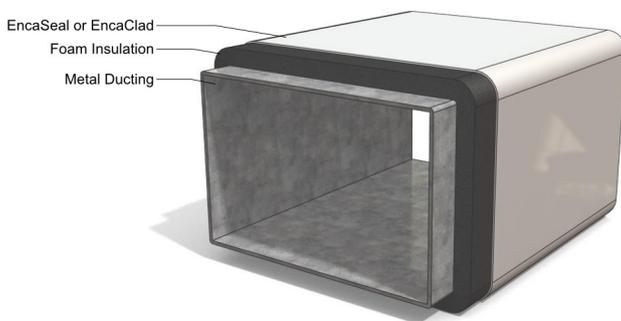
EncaClad's R Values

0.66 m²KW - Horizontal Heat Flow



Advantages of EncaClad;-

- Allows much easier environmental control over:-
 - ▶Temperature ▶ Humidity ▶ Ventilation
- Can be installed with confidence onto insulated pipelines 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 35°C to plus 127°C.
- Eliminates dust problems from the soft insulation.
- Once fitted will stiffen the whole structure which will more easily resist the sort of damage usually incurred on a building site.
- EncaClad provides an impermeable barrier that should withstand 20 years of life without corrosion.
- 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.
- Suitable for food preparation areas.
 - Does not offer any growth conditions for bacteria and moulds.



Technical Details

Reflectivity (ASTM E903)	over 97.90%
Emissivity (ASTM E408)	0.03
Carbon Emissions Saved	Up to 23kg per m ² /annum
Roll Size	33m x 1.25m - 41.25m ²
Nominal Thickness	345 microns
Tear Resistant (ASTM D882) Machine Direction (MD)	Tensile 5900N/m
Tear Resistant (ASTM D882) Cross Direction (CD)	Tensile 4900N/m
Beach Puncture Resistance (ASTM D774)	40.0kg-cm
Moisture/vapour Transmission Rate (ASTM E96)	0.021g/m ² .
Corrosion resistant	Unique surface coating
Temperature Resistant	-35°C to +127°C