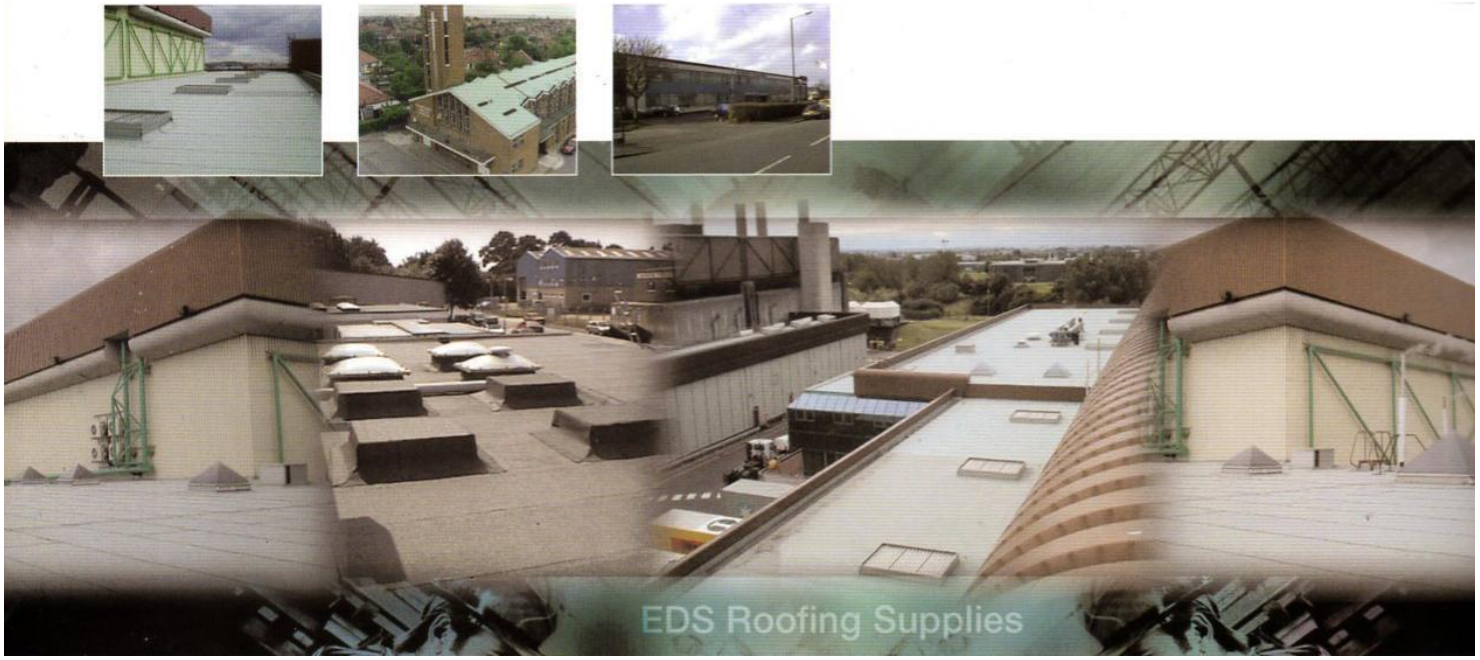
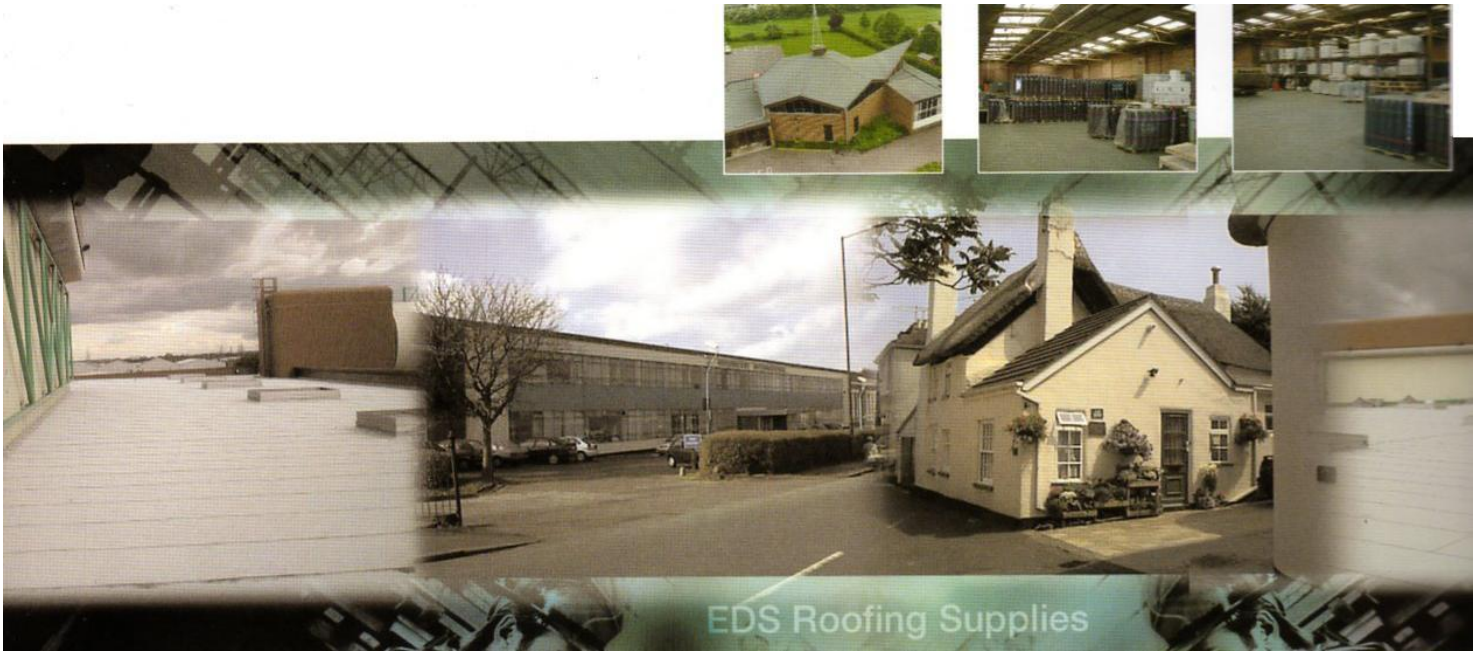
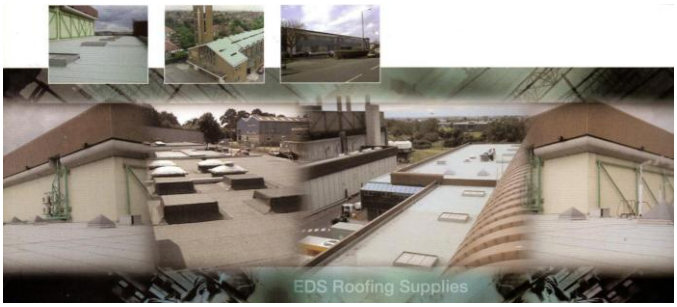


eds Roofing Supplies





BETAGUM mineral
BETAGUM P
BETAGUM V

Elastomeric SBS modified waterproofing membranes for residential, commercial and industrial applications.

THE PRODUCT

Betagum in its different versions is an elastomeric membrane obtained from distilled bitumen modified with elastomeric resins. Both sides of the membrane are protected by the application of anti-adhesive heat sensitive film. The mineral version differs only by having a surface finish of slate chips.

USES

Betagum waterproofing membranes are suitable for use in applications on various roof types, whether they are insulated or not, especially those which are subjected to high levels of stress such as timber or metal decks. The mineral version is used as a cap sheet in multi-layer waterproofing systems. Ideal also for use in cold climates.

INSTALLATION

The surface where the **Betagum** is to be installed must be smooth, clean, dry and treated, if required with **EDS FD PRIMER** (for example if the **Betagum** is to be fully adhered). The **Betagum** membrane should be unrolled and laid out on the dry primed coating, which will enhance the adhesion to the deck. It is then aligned before being rolled up again. The **Betagum** membrane is then slowly unrolled while the lower surface is heated using a propane gas roofing torch until the anti-adhesive film melts and the bituminous compound itself starts to melt. Side laps must be at least 75mm and head laps 150mm. After forming the overlap, the joint (whilst still hot) must be pressed using a round nosed trowel to ensure the joint is correctly formed, and to level the molten bituminous compound which will inevitably seep from a correctly executed joint. The hot surface of the **Betagum** membrane should not be scraped using the trowel to avoid exposing the carrier. **Betagum** can be installed as a loose laid, partially attached or fully adhered, as required in the specification of the overall roof package. It should be noted that this refers only to the first layer of a multi-layer system and that subsequent layers must always be fully adhered.

Warning: **Betagum** membranes must be protected by a cap sheet or by paving or gravel.

TOOL REQUIRMENTS

For the correct installation of **Betagum** membranes, all that is required is a propane gas roofing torch complete with gas bottle, reduction valve and at least 10M of approved type hose, a round nosed trowel or spatula, a utility knife and a pair of protective gloves.

PHYSICAL AND CHEMICAL CHARACTERISTICS

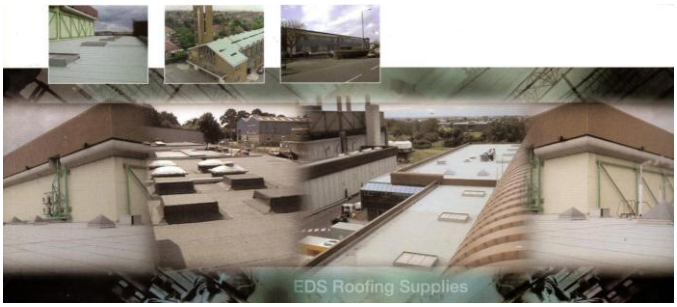
Elastomeric bitumen polymer compound (SBS)
Good low temperature resistance
Good elongation
Good elastic memory
Absolute water tightness
Good resistance to acids and alkalis (chalk resistance table)
Carrier
Wear resistance
Elongation
Rot Proof
Dimensional Stable
Slate chip finish
Reduces the spread of flame in case of fire
Protection from ultraviolet rays
Ageing resistance
Aesthetically pleasing finish

TECHNICAL CHARACTERISTICS

	BETAGUM MINERAL	BETAGUM P	BETAGUM V
R&B Softening point ***** (ASTM D-36) (of the compound in the impregnation tank)	105°C	105°C	105°C
Carrier Type	Non Woven Polyester	Non Woven Polyester	Woven Glass Fibres
Width * (UNI 8202)	1M	1M	1M
Length ** (UNI 8202)	8M	8M/16M	8M/16M
Mass *** (UNI 8202)	5Kg/4.5kg	4kg/3Kg/2kg	4Kg/3Kg/2Kg
Cold flexibility ** (UNI 8202)	-10°C	-10°C	-10°C
Tensile strength ***			
Ultimate longitudinal load	750 N/5cm	750 N/5cm	300N/5cm
Ultimate transverse load	450 N/5cm	450 N/5cm	200N/5cm
Ultimate longitudinal elongation	35%	35%	2%
Ultimate transverse elongation	45%	45%	2%
Static puncture resistance (UNI 8202) On 30kg/m3 density polystyrene	SP3	SP3	SP1
Dynamic puncture resistance (UNI 8202) On 30kg/m3 density polystyrene	DP4	DP4	DP3
Impermeability to water (UNI 8202)	Absolute	Absolute	Absolute
Joint pressure in air **** (UNI 8202)	10kPa	10kPa	10kPa

* Tolerances to UNI standards
** Cold flexibility of mineral membranes is measured on the lower surface
*** Tolerances as per UEAtc European Directives of January 1984 for polymer bitumen membranes
**** No greater than
***** No lower than

N.B. Values indicated do not vary greatly with different areic mass



edsulation thermal insulation boards
edsulation thermal cut to falls insulation boards

Fire-retardant thermal insulation for residential, commercial and industrial applications.

THE PRODUCT

edsulation in its different versions is a high quality thermally efficient fire retardant polyurethane, polyisocyanurate or expanded polystyrene insulate available in individually designed cut to falls schemes or boards of varying thickness . When applying waterproof membranes to **edsulation** (Bitumen Face & Glass Tissue Face or Bitumen Face & Bitumen Face) thermal insulation boards these can be directly torched to **edsulation** (Bitumen Face & Glass Tissue Face or Bitumen Face & Bitumen Face**)**. **edsulation** is produced with an expanding gas that is harmless to the environment, to human beings and to the ozone layer.

PRODUCT VERSIONS

edsulation is available in the following different versions: -

edsulation (Bitumen Face & Bitumen Face**)** flat board
edsulation (Bitumen Face & Glass Tissue Face**)** flat board
edsulation (Glass Tissue Face & Glass Tissue Face) flat board
edsulation (Bitumen Face & Bitumen Face) cut-to-falls board
edsulation (Bitumen Face & Glass Tissue Face) cut-to-falls board
edsulation (Glass Tissue Face & Glass Tissue Face) cut-to-falls board

USES

edsulation thermal insulation boards are suitable for use in applications on various roof types where the thermal properties of the roof are to be situated within the properties roof waterproofing system. The cut to falls version ensures any water is correctly dispersed off a properties roof into suitable drainage outlets without the requirement of constructing falls within the properties structure. Both the cut to falls and board versions can be used on all types of roof decking and are suitable for both new build and refurbishment applications.

INSTALLATION

The surface of the vapour barrier where **edsulation** cut to falls or boards are to be installed must be smooth, clean, dry, and to suitable falls if used in the board version. Lay with long edges fully supported and running at right angles to direction of roof span, lightly butted together with staggered end joints. All exposed edges must be sealed with felt day joints and cut back prior to recommencement of installation. On completion of laying ensure that boards are in good condition, well fitting and with no springing, flexing or rocking and that the **edsulation** is adhered to the vapour barrier by random testing. **edsulation** can be fixed using molten bitumen at the quantity of 1.5Kg/M^2, mechanical fasters (5 fasteners per M^2), **edsgrip** polyurethane adhesive or by torching the vapour barrier of an elastomeric bitumen membrane type and sticking the **edsulation** to the molten bitumen compound. **edsulation** thermal insulation boards must be protected by suitable waterproof membranes. When applying waterproof membranes to **edsulation** thermal insulation boards, in instances where the Bitumen Face is upper-most; the waterproof membranes can be directly torched to the **edsulation** thermal insulation boards. When the Glass Tissue Face is upper-most; a bituminous venting membrane must first be applied over the Glass Tissue Face before the waterproof membranes are torched to the **edsulation** thermal insulation boards. In all instances where there is a risk of moisture affecting the **edsulation** thermal insulation boards a bituminous venting membrane must always be used between the **edsulation** thermal insulation boards and the waterproof membranes, this also applies in circumstances where freeze/thaw conditions apply.,

TOOL REQUIRMENTS

For the correct installation of **edsulation** thermal insulation boards, all that is required is a propane gas roofing torch complete with gas bottle, reduction valve and at least 10M of approved type hose, a round nosed trowel or spatula, a utility knife and a pair of protective gloves.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Fire retardant
Excellent thermal insulation
Excellent mechanical resistance to compression
Fungal, insect and bacteria attack resistant

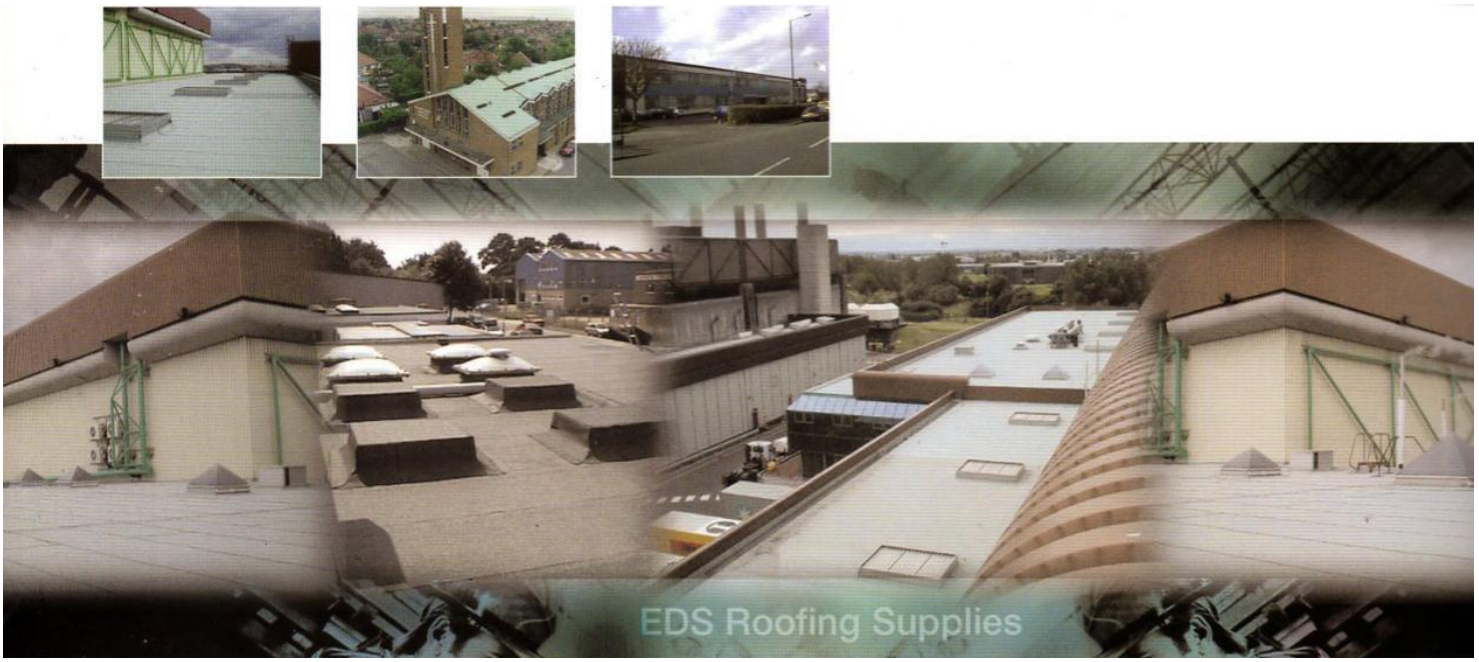
TECHNICAL CHARACTERISTICS

edsulation

Material		Fire Retardant Polyurethane / Polyisocyanurate
Fire Rating		EN11925-2 value F
Density		30Kg/M^2
Thermal conductivity		0.025W/Mk - 0.027W/Mk
Compressive resistance (UNI 6350)		10% of deformation: 1.8Kg/cm^2 for 40mm thickness
Dimensional stability (UNI 8069)		0.5% at -25^{o}C / 0.2% at -20^{o}C
Dimensions	Board Size:	1200mm X 600mm
	Board Thickness:	20mm / 30mm / 40mm / 50mm / 60mm / 70mm / 80mm / 90mm / 100mm / 110mm / 120mm / 130mm / 140mm

Cut to falls versions of **edsulation** thermal insulation boards are supplied with appropriate layout drawing(s).

NOTE: *The company reserves the right to modify the technical data in this specification sheet that is based on current production without prior warning. All indications in this specification sheet are based upon our experience and current working practices. The company makes no representation or warranty as to the suitability or fitness of products for any particular purpose. The buyer shall satisfy himself or herself and shall therefore be totally responsible in this respect.*



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