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**JUTA GR-SAM** – Gas Resistant – Self Adhesive Membrane, is a bituminous gas proof and water proof sheet, composed of self-adhesive SBS polymer modified bitumen with an upper surface finish of aluminium foil, and a lower surface finish or siliconized polypropylene release film. JUTA GR-SAM is used for the waterproofing of underground structures where harmful ground gasses are anticipated.

# Product: GR-SAM

**JUTA GR-SAM complies with the latest codes of practice as published by BRE, CIRIA and BSI (BS 8485:2015).**

| JUTA GR-SAM | | | |
|---|---|---|---|
| **Characteristic** | **Test Method** | **Unit** | **JUTA GR-SAM** |
| **Physical Properties** | | | |
| Thickness | EN 1849-2 | mm | 1.20 |
| Width | EN 1849-2 | M | 0.3 or 1 |
| Length | EN 1849-2 | M | 20 |
| Weight | EN 1849-2 | $g/m^2$ | 1000 |
| **Hydraulic Properties** | | | |
| Water tightness | EN 1928 | - | PASS |
| **Mechanical Properties** | | | |
| Tensile Strength (MD) | EN 12311 -1 | N/50mm | 200 |
| Tensile Strength (CMD) | EN 12311 -1 | N/50mm | 200 |
| Joint Strength: shear resistance | EN 12317-1 | - | 200 |
| Flexibility at low temperature | EN 1109 | °C | <-15 |
| humidity resistance factor | EN 1931 | - | 150000 |
| flow resistance at elevated temperature | EN 1110 | °C | >70 |
| **Gas Permeability** | | | |
| Methane Permeability | BS EN ISO 15105 - 1 | $ml/m^2/day/atm$ | < 0.53 |
| Carbon Dioxide Permeability | BS EN ISO 15105 - 1 | $ml/m^2/day/atm$ | < 0.53 |
| Radon Permeability | K124/02/95 | $m^2/s$ | $2.9 \times 10^{-14}$ |

**Values are Typical, with the exception of Thickness, which is Nominal. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - usually the mean of five samples. Nominal is a guide value.*

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## HANDLING

Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling. This product is non-toxic nor flammable.

## STORAGE

Rolls of JUTA GR-SAM should be stored horizontally, and pallets should not be stacked on top of one another.

JUTA GR-SAM should be stored in a cool, dry place, and be protected from exposure to rain, sun, heat and cold temperatures prior to installation. Exposure to sunlight for extended period of time could cause difficulty with removal of the polyethylene release film.

## INSTALLATION

JUTA GR-SAM should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

It is recommended that JUTA GR-SAM is not applied in temperatures below 10 °C, in colder weather the material can be warmed slightly to aid adhesion.

## ADDITIONAL INFORMATION

For additional information or assistance, please contact JUTA UK directly.