



## Insulation foam laminate for roofing

### DESCRIPTION

**Rayston** Foam is a rigid polyisocyanurate foam laminated on both faces with a fiber glass sheet. It is a thermal insulation product for deck-type roofing systems. Recommended use in the Rayston STRAT system, which combines thermal insulation and waterproofing properties in a combined application.



Rayston Foam has an excellent fire resistance and dimensional stability, due to its fiber glass coating. Rayston Foam exhibits good mechanical properties, being also an easy to handle and install material.

- Moderate thickness needed, thanks to its low thermal transmission rate.
- Rigid but lightweight laminate
- Easy to handle.



### TECHNICAL DATA

#### PRODUCT DATA

**Chemical description** Polyisocyanurate foam coated with fiberglass

**Physical state** Rigid solid

**Compression resistance** 160 kPa

**Thermal conductivity( $\lambda$ )**

| Laminate dimensions (mm)              | Thickness (mm) | Thermal conductivity $\lambda$ (W/mK) | Thermal resistance R (m <sup>2</sup> K/W) |
|---------------------------------------|----------------|---------------------------------------|---|
| 2500 x 1200 mm<br>(3 m <sup>2</sup> ) | 25             | 0.028                                 | 0.85                                      |
|                                       | 30             |                                       | 1.05                                      |
|                                       | 40             |                                       | 1.4                                       |
|                                       | 50             |                                       | 1.75                                      |
|                                       | 60             | 0.027                                 | 2.1                                       |
|                                       | 70             |                                       | 2.5                                       |
|                                       | 80             |                                       | 2.95                                      |
|                                       | 100            |                                       | 3.7                                       |
|                                       | 200            |                                       | 4.4                                       |

**Dimensional stability** (48h, 70°C, 90%rh) Wide, long.  $\Delta L < 1\%$   
Thickness:  $\Delta L < 4\%$

**Water absorption** <2%

**Density** 40 kg/m<sup>3</sup>

#### Packaging

| Laminate dimensions (mm)              | Thickness (mm) | Units/package | M <sup>2</sup> /Pallet |
|---------------------------------------|----------------|---------------|------------------------|
| 2500 x 1200 mm<br>(3 m <sup>2</sup> ) | 25             | 20            | 300                    |
|                                       | 30             | 16            | 240                    |
|                                       | 40             | 12            | 180                    |
|                                       | 50             | 10            | 150                    |
|                                       | 60             | 8             | 120                    |
|                                       | 70             | 7             | 105                    |
|                                       | 80             | 6             | 90                     |

|     |   |    |
|-----|---|----|
| 100 | 5 | 75 |
| 120 | 4 | 60 |

**Colour**

light brown

**Storage**

Keep indoor, in a dry place, at 5°C-35°C.

**Use before**

24 months after manufacturing date.

### USE CONDITIONS AND APPLICATION GUIDELINES

Please refer to the technical information on the Rayston Strat System

### SAFETY

Inert material

### ENVIRONMENTAL PRECAUTIONS

Inert waste. Recyclable

### OTHER INFORMATION

The information contained in this Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project. Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

**This Data Sheet supersedes previous versions.**