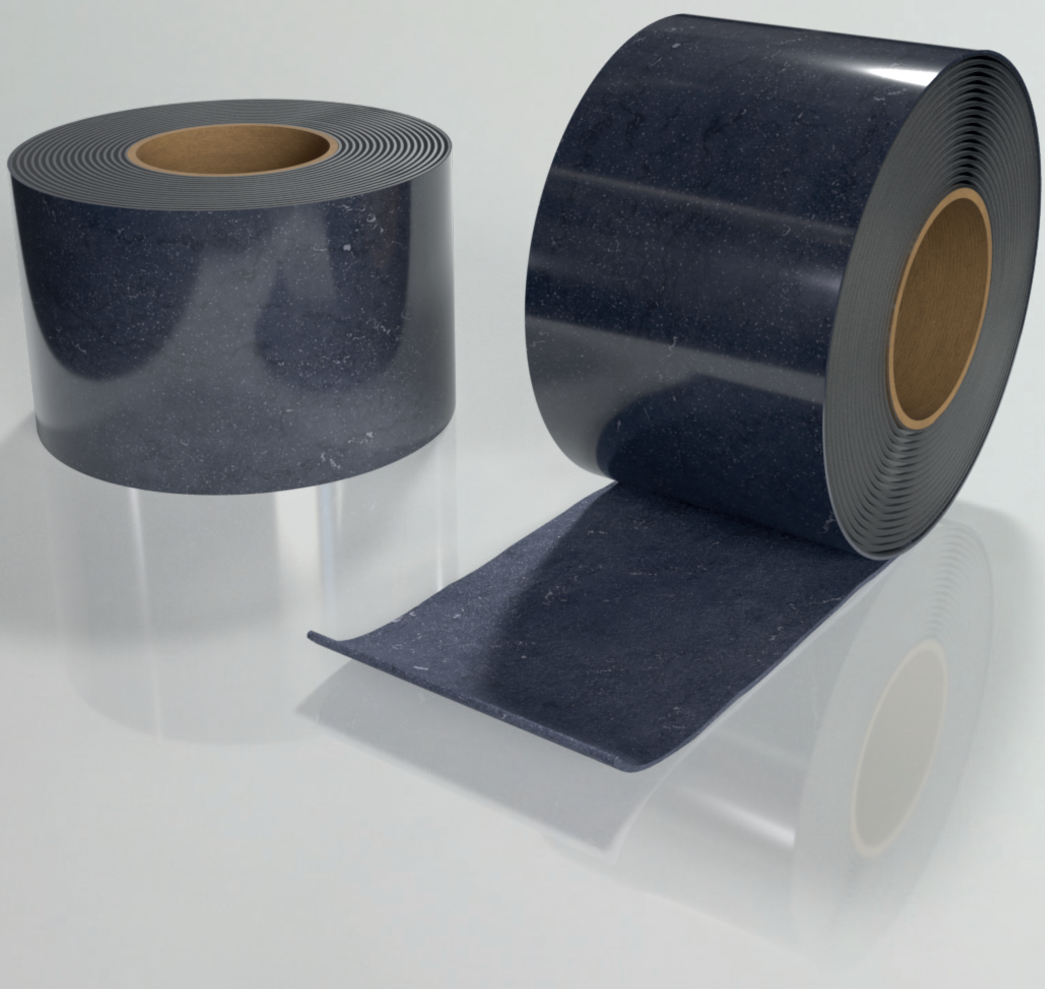
Technical Product Data Sheet

ROKU® strip



kuhn odice

Tech.Rev.: 1.0
Ling. Rev.: 1.0

Product description

The ROKU® strip is an expanding, graphite-based fire protection strip. In the event of fire, it forms an insulating foam layer that serves as a barrier against fire and smoke.

The strip is available in different dimensions and can be cut to individual sizes.

Its main applications include joint sealing, cable and pipe penetration seals and door seals in fire protection doors.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- High expansion rate
- Reliable fire protection
- Flexible and easy to install
- A multitude of applications
- Environmentally friendly

Fields of application

- Fire protection doors made from wood, steel or aluminium
- Glazing
- Facades
- Safety storage cabinets
- Safes
- Pipe penetration seal systems

Technical data

Verification	ETA-10/0117: 04 October 2016
Composition	Expandable graphite-based foaming material that is free from halogens, asbestos and conflict minerals. Compliant with REACH, RoHS and VOC and UV-resistant
Material structure	Flexible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.403
Thermal conductivity reference temp. [°C]	10
Shore A hardness	76.8
Bulk density [kg/m³]	1200 (±10 %)
Start of reaction [°C]	190
Expansion rate [x times]	18 – 38
Reference expansion rate	550 °C – 30 min. – with superimposed load
Intumescent layer	Solid, stable material
Expansion pressure [N/mm²]	0.80 – 1.50
Reference expansion pressure	300 °C – method 4
Direction of expansion	Three-dimensional

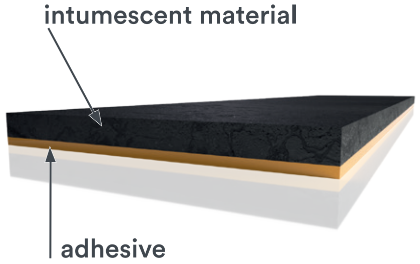
Design variants

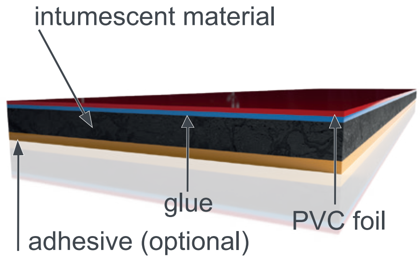
ROKU® strip without additional lamination

SK variant: self-adhesive on one side

DF variant: laminated with PVC film in different colours on one side

Other design variants available on request.





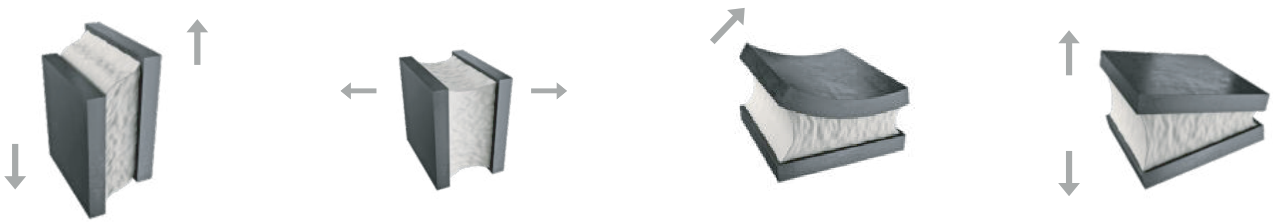
Colour variants

Black, white, red

Processing information

1. Surface preparation:
   - The surface to be adhered to must be clean, dry and free from dirt such as dust, grease and oil to ensure optimum adhesion.
   - On smooth surfaces, thorough cleaning is particularly important to maximise the adhesive properties of the material.
2. Application temperature:
   - The recommended application temperature is between +5 °C and +35 °C.
3. Application:
   - When using the self-adhesive variants (such as the SK variant), remove the protective film just before installation.
   - Position the ROKU® strip precisely, as subsequent adjustments may negatively affect adhesion.
     Apply the material with even pressure to ensure full adhesion.

Shear force	Tensile force	Peel force	Splitting force



Strain less critical over whole areas ✓

Prevent such strain through design ✗

Delivery forms

Standard lengths [mm]	25,000 and 50,000
Standard widths [mm]	Up to 300
Standard thicknesses [mm]	1.5 and 2.0 (special thicknesses available upon request)

All cuts (length × width) are produced in accordance with the general tolerance DIN ISO 2768-1-c.

All moulded parts and punched parts are produced in accordance with the general tolerance DIN 7715-5-p2.

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