AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

PALUSOL ® W - Technical Data Sheet-en

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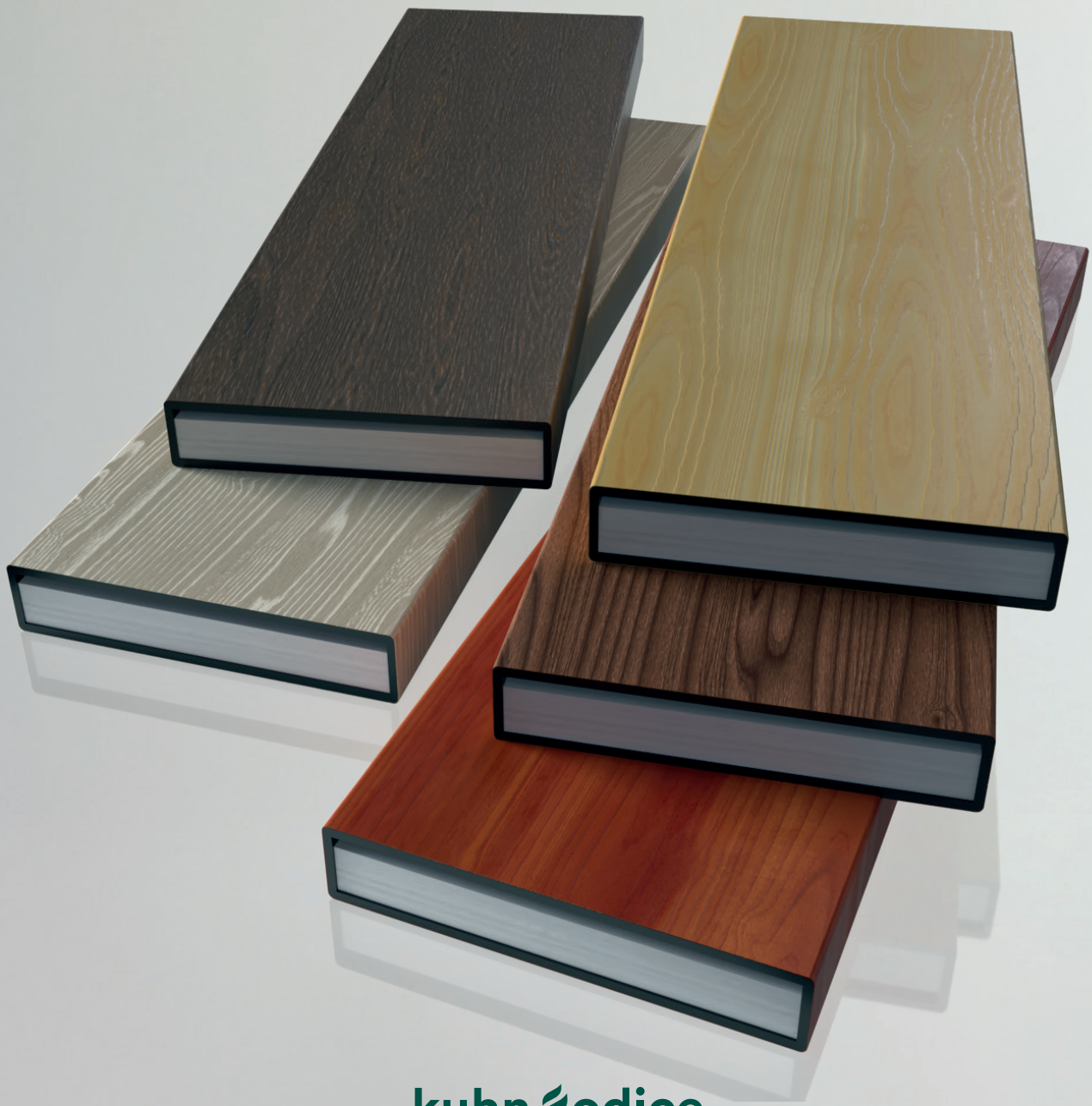
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

PALUSOL® W



kuhnodice

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

Product description

The PALUSOL® W is an intumescent, wood-effect fire protection seal that has been developed specially for applications that require both mechanical durability and an aesthetically appealing solution. It is made from hydrated sodium silicate enclosed in a thermoplastic profile to protect the material from moisture. In the event of fire, the seal begins to expand at 100 °C, forming a rigid, non-combustible layer that prevents the passage of flames, smoke and hot gases. This feature makes it particularly suitable for fire-resistant doors and closures that require a high level of fire protection. Since it expands in the one direction, PALUSOL W provides a targeted seal. It can be delivered in a variety of cross-sections and lengths to meet specific requirements. For easy installation, it is also available in a self-adhesive version that enables quick and secure attachment.

Properties

- Intumescent material based on hydrated sodium silicate
- Activates at temperatures between 100 and 120 °C
- Expands to five times its original thickness
- Produces an expansion pressure of up to 1.5 N/mm²
- Protects against moisture
- Available with wood effect and in a self-adhesive version

Fields of application

- Seals for fire-resistant systems such as fire protection doors and windows
- Mechanically stressed fire-resistant seals
- Sealing of joints and openings in fire-resistant building elements
- Greater fire resistance for wooden structures, for example
- Fire protection in structural building elements indoors

Features

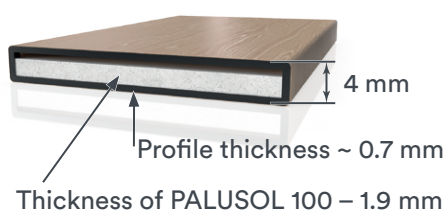
Proven long-term durability – tests by BASF SE and independent institutes have shown that PALUSOL® W retains its full fire protection effect after 40 years under normal climatic conditions.

Technical data

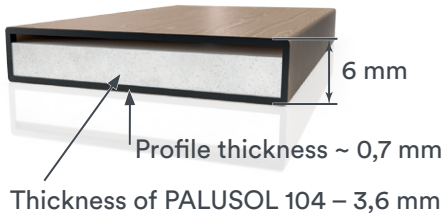
Composition	Water-bearing sodium silicate, glass fibre reinforcement
Material structure	Glass fibre-reinforced, with epoxy resin-coated core
Thermal conductivity [W/(m·K)]	0.8 (at 20 °C)
Pressure resistance [N/mm²]	0.9
Moisture content (mass percentage)	25 to 40% of the weight
Area density [g/m²]	PALUSOL® 100: 3000 PALUSOL® 104: 5700
Start of reaction (from approx.) [°C]	100
Expansion rate	At least 5 times its original thickness
Intumescent layer	Rigid, non-combustible foam
Expansion pressure [N/mm²]	> 0.9
Direction of expansion	Perpendicular to the surface
Surface finish	Smooth surface
Storage	Store in a dry and well ventilated location at room temperature (20 °C ±5 °C) and with normal humidity (50–70%). Protect against UV radiation.
Shelf life	For 40 years under normal conditions

Design variants

PALUSOL® W



PALUSOL® W



Colour variants (the figures are examples and do not necessarily reflect the actual products.)



AMERICAN SYCAMORE | BEECH | NOGAL | VELVET CHERRY | STANLEY OAK | SAPELE

Processing information

1. Surface preparation:
   - The surface on which the PALUSOL® W is installed must be clean, dry and free from dust, grease and wax. Remove any poorly adhering paint before application. This helps you ensure optimal adhesion and the long-term durability of the product.
2. Installation and fixing:
   - PALUSOL® W should be installed in a groove that is slightly wider than the sealing profile. This allows the material to expand in a controlled way if a fire breaks out and guarantees durable, aesthetic integration. It can be attached with glue or double-sided adhesive tape (in this case, the adhesive tape must be applied to the prepared surface).
3. Safety notes:
   - The usual safety provisions must be complied with. We recommend wearing protective gloves to avoid direct contact with skin.

Contents of a package/set

Profiles in wooden boxes

Delivery forms

Standard lengths [mm] 2100 (max. 3000)

Self-adhesive version (SA): PALUSOL® W is available with double-sided adhesive tape for easier installation.

PALUSOL® W (width × thickness)	
10 × 4 mm	10 × 6 mm
15 × 4 mm	15 × 6 mm
20 × 4 mm	20 × 6 mm
25 × 4 mm	25 × 6 mm
30 × 4 mm	30 × 6 mm

Tolerances [mm]

Thickness: ± 0.2 mm (for products without self-adhesive tape)

Width: ±0.25 mm

Length: 0/-1 mm