

## SOUND INSULATION

### CALDIFOL FR – polymeric mass layer



| CALDIFOL FR | Thickness | Weight               |
|-------------|-----------|----------------------|
| FR 4        | 2 mm      | 4 kg/m <sup>2</sup>  |
| FR 6        | 3 mm      | 6 kg/m <sup>2</sup>  |
| FR 8        | 4 mm      | 8 kg/m <sup>2</sup>  |
| FR 10       | 5 mm      | 10 kg/m <sup>2</sup> |

#### Description

Caldifol FR is a mass layer made of a polymeric compound filled with self-extinguishing mineral fillers. The product can be provided with aluminium top-layer and as a self-adhesive product. Caldifol FR has a beige/white or dark grey color and is suitable for indoor use.

#### Characteristics

- Acoustic insulating and anti-drumming of steel, fiberglass reinforced plastic, laminated plastic and plywood
- Developed for applications where safety standards require the product to be fire resistant, with extremely low smoke density/toxicity and no hot dripping
- Density (ASTM D1817, DIN 53479, UNI EN ISO 1183-1 e 2): 2,1 ± 0,1
- Hardness (Shore A) Approx: 85 ± 10
- Flame retardant in accordance with
  - UNI 9176-8457-9174 NF P 92501: Classe 1, M1
  - UNI ISO 3795 UL94, 0
  - NF F16-101, NF F 16-102, STM-S-001 Index C: F1/F0
  - UNI EN 13501-1 :2002, UNI EN 13823, UNI EN ISO 11925: B s1 d0
  - DIN 4102-1, class B1 (white version, with aluminium top layer)
  - MCS.61(67) part 5, IMO resolution A653, SOLAS 2000: passed
  - CEN/TS 45545-2:2009 R1
- Thermal conductivity (EN 12667: 2001, EN 12664: 2001): 0,213 W/m<sup>2</sup>K
- Service temperature (continuously) -30 / + 90 °C
- Bitumen, halogen and phosphate free. Fully compliant with GADSL regulations

#### Application

Machine building, automotive industry, railways, shipbuilding, building and construction industry

#### Processing

Surface must be clean, dry and dust and grease free  
 Porous and absorbent surfaces priming with TEROKAL-2444  
 Apply Caldifol FR with self-adhesive at approx. 20 °C  
 Easy to cut with a (Stanley) knife, with scissors or to saw with a band saw  
 Various varnishes and paints contain silicones or other adhesive corroding components which could reduce the effect of the self-adhesive  
 Caldifol FR without self-adhesive can be glued with TEROKAL-2444 contact adhesive (about 300 g/m<sup>2</sup>) or possibly with BARYVIBRO V607 2-component adhesive (about 1,0 kg/m<sup>2</sup>)  
 To avoid noise leaks it is important that seams between mats and other openings like bushings are carefully sealed with a silicone rubber mastic

#### Sizes

Standard sheets of 1000 x 1000 mm  
 Other weights and thickness available upon request

#### Storage

When applied with self-adhesive layer, max. storage time 6 months

DISCLAIMER  
 De omschreven toepassingen en aanbevelingen zijn zo correct mogelijk weergegeven maar zijn vrijblijvend en bieden geen garanties. Bij twijfel over toepassing of verwerking zelf een test uitvoeren of contact met ons opnemen. We behouden ons het recht om zonder kennisgeving vooraf, productgegevens te wijzigen.

## SOUND INSULATION CURVE (R)

|                       |                  |
|-----------------------|------------------|
| Insulation material   | CALDIFOL FR      |
| Base                  | 1 mm steel plate |
| Measured according to | DIN 52210        |

