

## 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):  $2,1 \pm 0,1$
- Hardness (Shore A) Approx:  $85 \pm 10$
- 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):  $0,213 \text{ W/m}^{\circ}\text{K}$
- Service temperature (continuously)  $-30 / + 90 \text{ }^{\circ}\text{C}$
- 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.  $20 \text{ }^{\circ}\text{C}$   
 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  $300 \text{ g/m}^2$ ) or possibly with BARYVIBRO V607 2-component adhesive (about  $1,0 \text{ kg/m}^2$ )  
 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  $1000 \times 1000 \text{ mm}$   
 Other weights and thickness available upon request

#### Storage

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

## SOUND INSULATION CURVE (R)

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

