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Sitek

# Fesco C, Fesco C-DO

## Description

Insulation boards consisting of expanded perlite, binders and fibres, meeting Euroclass C reaction to fire classification, Fesco C having straight edges and Fesco C-DO offset joints of 20 mm on all four sides.

Fesco C & Fesco C-DO meet the requirements of EN 13169. Production is covered by ISO 9002 certification.

## Uses

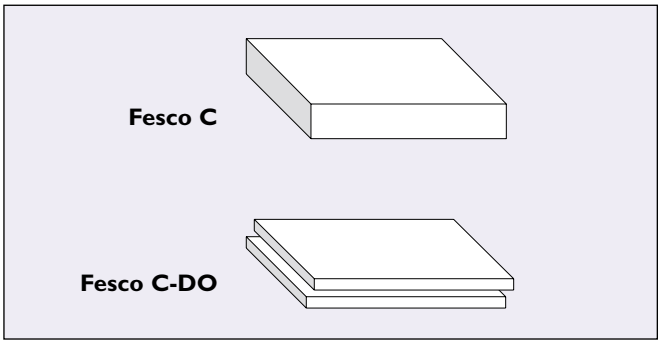
Thermal insulation under waterproofing systems on profiled metal decks.

*Fesco C is suitable for all types of public or private buildings, roof accessibility, internal hygrometric conditions, under mechanically fastened, fully bonded, or ballasted waterproofing systems.*

*Suitable for new work and refurbishment, also as a top layer to a mineral fibre board (Fesco C), or as an underlay to organic insulants (Fesco C-DO).*

See the relevant "Application" brochures.

**Agrément certificates: pending**
**Insurance rating: meets CC2-APSAD, DIN 18234**
**Class 1 Factory Mutual**
**Certificate of conformity CE n° 1163-CPD-0035**
**Acermi Certificate n° 03/017/091**




## Advantages

- Contributes to fire safety
- Strengthens the metal deck
- Resists heavy foot traffic both during and after installation
- Good dimensional stability
- Fesco C-DO reduces thermal bridges and protects organic insulants against heat
- Ecological and recyclable
- Certified thermal properties

| **Thickness (mm)** | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
|---|---|---|---|---|---|---|---|---|---|---|
| **$R_D$ (m²/K/W)** | 0,60 | 0,80 | 1,00 | 1,20 | 1,40 | 1,60 | 1,80 | 2,00 | 2,20 | 2,40 |

| Characteristics | Value | Unit | Standard |
|---|---|---|---|
| Length, width | 1200 x 1000 | mm | EN 823 |
| Thickness Fesco C<br>Thickness Fesco C-DO | 30 to 120<br>40, 50, 60, 80, 100, 120 | mm<br>mm | EN 824 |
| Nominal density | 150 | kg/m³ | EN 1602 |
| Declared thermal conductivity, $\lambda_D$ | 0,050 | W/m.K | EN 13169 |
| Compression stress at 10 % deformation | ≥ 200 (av. 300) | kPa | EN 826 |
| Deformation under 80 kPa at 80°C for 7 days (or 7 days at 60°C according to EN 1605) | < 5 | % | UEAtc |
| Compressibility class | D<br>E | -<br>- | UEAtc<br>IGLAE |
| Application type | DAA | - | DIN V 4108-10 |
| Application classification | dm, dh, ds | - | DIN V 4108-10 |
| Point load (on 50 cm²) at 2 mm deformation | ≥ 1400 | N | EN 12430 |
| Water absorption by total immersion | ≤ 0,03 | kg/dm³ | EN 13169 |
| Dimensional stability at 23°C and 90 % RH, length and width / thickness | ≤ 0,5 / 1 | % | EN 1604 |
| Dimensional stability: residual deformation at 20° after stabilisation at 80°C | < 1,2 | mm/m | UEAtc |
| Tensile strength perpendicular to faces | ≥ 40 | kPa | EN 1607 |
| Water vapour diffusion resistance factor, $\mu$ | 5 | - | EN 12086 |
| Reaction to fire classification (Euroclass) | C,s1d0 | - | EN 13501-1 |
| Gross calorific potential, *PCS* | 5,51 | MJ/kg | EN ISO 1716 |

The characteristics of our products are subject to normal manufacturing variations and can be changed without prior notice. Check with your Sitek office for current information.

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