

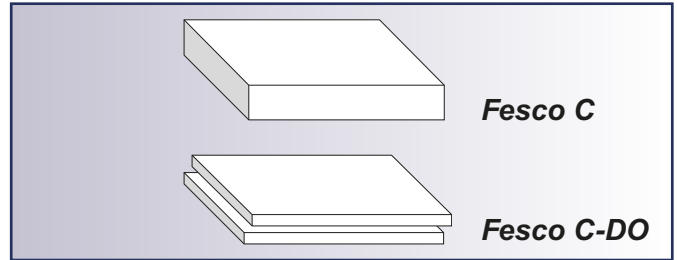
## FESCO C, FESCO C-DO

E-p18

1st edition February 2015

### Description

Insulation boards consisting of expanded perlite, binders and fibres, meeting Euroclasse 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 9001 and ISO 14001 certifications.



### Uses

Thermal insulation under waterproofing systems on profiled metal, decks or timber roof 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 mineral fibre board or organic insulation (Fesco C), or as an underlay to organic insulants (Fesco C or Fesco C-DO).*

See the relevant "Application" brochure.

#### Agrément Certificates available

**Insurance rating: meets CC2-APSAD, DIN 18234**

**Class 1 Factory Mutual**

**CE marking (Fesco)**

**Acermi Certificate n° 03/017/091**

### Advantages

- Compression and indentation resistant
- Resists heavy foot traffic both during and after installation
- Excellent dimensional stability
- Heat sink for organic insulant (under mastic asphalt)
- Ecological and recyclable
- Certified thermal properties
- Contributes to fire safety (Public-Access building,...)
- Strengthens the metal deck
- Fesco C-DO reduces thermal bridges
- Compatible with solar photovoltaic panels

Thickness (mm)	30	40	50	60	70	80	90	100	110	120
R <sub>D</sub> (m <sup>2</sup> .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 822
Thickness Fesco C	30 to 120	mm	EN 823
Thickness Fesco C-DO	40, 50, 60, 80, 100, 120	mm	
Nominal density	150	kg/m <sup>3</sup>	EN 1602
Declared thermal conductivity, λ <sub>D</sub>	0.050	W/m.K	EN 13169
Compressive 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 (2%)	%	UEAtc
Compressibility class	D	-	UEAtc
	E	-	IGLAE
Application type	DAA	-	DIN 4108-10
Application classification	dm, dh, ds	-	DIN 4108-10
Point load (on 50 cm <sup>2</sup> ) at 2 mm deformation	≥ 1400	N	EN 12430
Water absorption by total immersion	≤ 0.04	kg/dm <sup>3</sup>	EN 13169
Dimensional stability - after 48h at 23°C and 90% RH, length and width / thickness - after 48h at 70°C and 50% RH, length and width / thickness - residual deformation at 23°C after stabilisation at 80°C	≤ 0.5/1.0	%	EN 1604
	≤ 0.5/1.0	%	EN 1604
	< 0.12	%	UEAtc
Tensile strength perpendicular to faces	≥ 40	kPa	EN 1607
Specific heat capacity	900	J/kg.K	EN ISO 10456
Water vapour diffusion resistance factor, μ	5	-	EN ISO 10456
Reaction to fire classification (Euroclasse)	C-s1,d0	-	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.