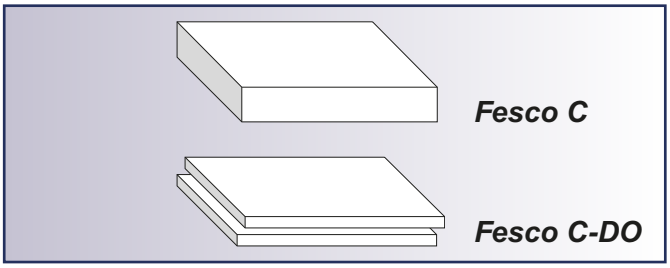
Sitek Insulation
ROUTE DE LAUTERBOURG | CS 90148 | 67163 WISSEMBOURG CEDEX | FRANCE

FESCO C, FESCO C-DO

E-p18
2nd edition October 2023

Description

Insulation boards consisting of expanded perlite, binders and fibres, meeting Euroclasse B 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, ISO 14001 and ISO 50001 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 accessibilty, 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_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 822
Thickness Fesco C Thickness Fesco C-DO	30 to 120 40, 50, 60, 80, 100, 120	mm	EN 823
Nominal density	150	kg/m³.	EN 1602
Declared thermal conductivity, λ_D	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 E	- -	UEAtc IGLAE
Application type	DAA	-	DIN 4108-10
Application classification	dm, dh, ds	-	DIN 4108-10
Point load (on 50 cm²) at 2 mm deformation	≥ 1400	N	EN 12430
Water absorption by total immersion	≤ 0.04	kg/dm³.	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 ≤ 0.5/1.0 < 0.12	% % %	EN 1604 EN 1604 UEAtc
Tensile strength perpendicular to faces	≥ 40	kPa	EN 1607
Specific heat capacity	1156	J/kg.K	EN ISO 11357-4
Water vapour diffusion resistance factor, μ	5	-	EN ISO 10456
Reaction to fire classification (Euroclasse)	B-s1,d0	-	EN 13501-1
Gross calorific potential, PCS	4.54	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.