

## FESCO

E-p10

2nd edition October 2023

### Description

Insulation board consisting of expanded perlite, binders and fibres.  
Fesco meets the requirements of EN 13169.  
Production is covered by ISO 9001, ISO 14001 and ISO 50001 certifications.

### Uses

Thermal insulation with waterproofing systems on concrete and cellular concrete roofs.

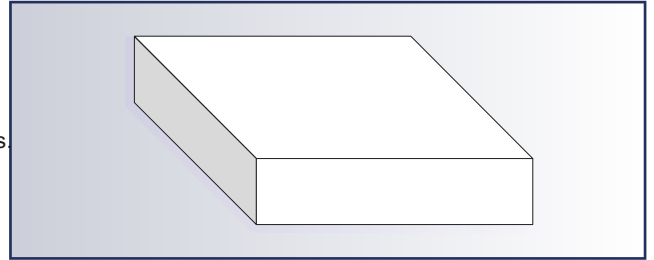
*Fesco is suitable for roof decks: with or without ballast, car parks for light or heavy vehicles, with cleaning equipment of façades, roof gardens, under fully bonded, independent or mechanically fastened waterproofing systems.*

*Suitable for new work and refurbishment and as an overlay to organic insulants or mineral wools.*

#### Agrément certificates available

#### CE marking

Acermi Certificate n° 15/017/1023



### Advantages

- Compression and indentation resistant
- Resists heavy foot traffic both during and after installation
- Excellent dimensional stability
- Protection for mineral fibre boards against crushing
- Heat sink for organic insulant (under mastic asphalt)
- Ecological and recyclable
- Compatible with solar photovoltaic panels
- Certified thermal properties
- Excellent surface flatness of the finished roof
- Compatible with hot bitumen

Thickness (mm)	20	25	30	40	50	60	70	80	90	100	110	120
R <sub>D</sub> (m <sup>2</sup> .K/W)	0.40	0.50	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 600	mm	EN 822
Thickness	20 to 120	mm	EN 823
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
Design values for use under reinforced concrete: - compressive stress, R <sub>CS</sub> - deformations, d <sub>Smin</sub> / d <sub>Smax</sub>	130 0.9 / 1.4	kPa %	EN 826 (DTU43.1)
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
Compressive creep extrapolated at 10 years under 80 kPa	≤ 1	mm	EN 1606
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 ≤ 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

*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.*