

FESCO

E-p10

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Description

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

Uses

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

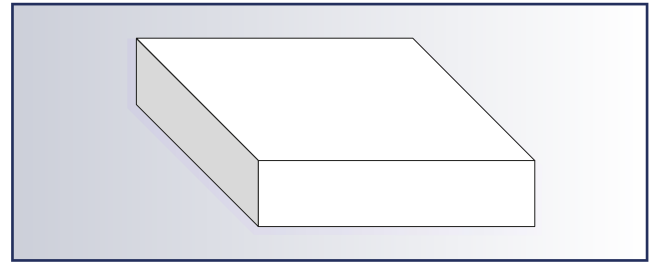
Fesco is suitable for roof decks: with or without ballast, car parks for light or heavy vehicles, with cleaning equipment of façades, roof gardens, under fully bonded, independent or mechanically fastened waterproofing systems.

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

Agrément certificates available

CE marking

Acermi Certificate n° 03/0 17/091



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 _D (m ² .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 ³ .	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
Design values for use under reinforced concrete: - compressive stress, R _{CS} - deformations, d _{Smin} / d _{Smax}	130 0.7 / 1.2	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 ²) at 2 mm deformation	≥ 1400	N	EN 12430
Water absorption by total immersion	≤ 0.04	kg/dm ³ .	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	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

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.