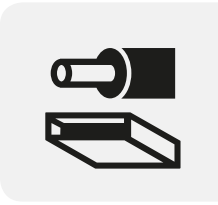
ISOVER SAINT-GOBAIN
Assurance in insulation

CE

ISOVER ML-3
Lamella mat



PRODUCT DESCRIPTION

Very light lamella mat ISOVER ML-3 consists of glass wool lamellas which have been glued to aluminium foil reinforced with a glass fibre grid, and these fibres are predominantly perpendicular to the surface of the mat.

APPLICATION

Very light lamella mat ISOVER ML-3 can be used universally for HVAC applications with lower service temperatures. It is suitable especially for air ducts.

Despite the fact that hydrophobing additives in the insulation impede the ingress of water, it is necessary to protect lamella mat in the construction against moisture and possible mechanical damage by a proper manner.

ISOVER ML-3 has a maximum service temperature of 300 °C according to EN 14706. Surface temperature on the aluminium side must not exceed 100 °C; proper thickness of insulation must be designed to fulfil that. Binders and greasing agents in mineral wool products dissolve and evaporate in areas with temperatures > 150 °C. In the outer, colder areas, no dissolution and evaporation take place.

PACKAGING, TRANSPORT, WAREHOUSING

The product is supplied as free rolls or palletized. Material has to be transported in covered vehicles under such conditions to avoid moistening or other degradation.

BENEFITS

- the lightest type of lamella mat on the market
- AS quality on request – suitable for use over stainless steel

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions		Per package (m²)
		width (mm)	length (mm)	
ISOVER ML-3 (CLIMCOVER Lamella Mat)	20	2 × 600	10 000	12.00
	30		8 000	9.60
	40		6 000	7.20
	50		5 000	6.00
	60		4 000	4.80
	80		3 000	3.60
	100		2 500	3.00

TECHNICAL PARAMETERS

Parameter			Unit	Value					Standard
THERMAL INSULATING PROPERTIES									
Declared value of the thermal conductivity coefficient λ_D according to EN ISO 13787			°C	50	100	150	200	300	
			$W \cdot m^{-1} \cdot K^{-1}$	0.044	0.056	0.072	0.091	0.145	
Specific heat capacity c_p*			$J \cdot kg^{-1} \cdot K^{-1}$	840					-
Maximum service temperature ST(+) / on the aluminium side			°C	300 / max. 100					EN 14706
PHYSICAL PROPERTIES									
Density*			$kg \cdot m^{-3}$	25					EN 1602, EN 13470
Short term water absorption (W_p) WS			$kg \cdot m^{-2}$	<< 1					EN 1609
FIRE SAFETY PROPERTIES									
Reaction to fire			-	A2-s1, d0					EN 13501-1
ACOUSTIC PROPERTIES									
The practical sound absorption coefficient α_p according to EN ISO 354 and EN ISO 11654*	Frequency		Hz	125	250	500	1000	2000	4000
	Thickness	20	mm	0.05	0.20	0.50	0.80	0.90	0.95
		50	mm	0.15	0.55	0.90	1.00	1.00	1.00
		80	mm	0.35	1.00	1.00	1.00	1.00	1.00
		100	mm	0.45	1.00	1.00	1.00	1.00	1.00
Definition of single numerical value according to EN ISO 11654*	Weighted sound absorption coefficient		-	α_w		Absorption class			
	Thickness	20	mm	0.50 (MH)		D			
		50	mm	0.85 (H)		B			
		80	mm	1.00		A			
		100	mm	1.00		A			

* Informative non-declared value beyond scope of CPR, obtained by concrete tests.

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