ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

TECHNICAL INSULATION LAMELLA MATS

DATASHEET

LAROCK 40 ALS



ALUMINIUM-COATED LAMELLA MATS

PRODUCT DESCRIPTION

The mats are composed of lamellas made of resin bonded stone wool slabs with perpendicularly oriented fibres. The lamellas are glued onto aluminum foil, reinforced with glass fibre grid (ALS).

APPLICATION

LAROCK 40 ALS are used for thermal and acoustic insulation for heat distribution systems with large boilers and curved surfaces, for air ducts and ventilation systems.Vertical orientation of the fibres increases the resistence of the producs to load and compression.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Excellent thermal, acoustic and fire-safe qualities;
- Water and moisture repellent, absolute vapour permeability and dimension stability;
- Hydrophobic and non-hygroscopic;
- Chemically neutral;
- Environmentally friendly, no contents of asbestos or toxic elements;
- Fast and easy to assemble;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms.

PACKING

The slabs are wrapped in PE foil with the name of the manufacturer and the basic product data printed on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING								
Thickness (mm)	25	30	40	50	60	80	100	120
Width (mm)	1000							
m^2 / pack	5.00	5.00	5.00	4.00	3.00	2.50	2.00	1.50

Non-standard sizes are available upon agreement with ROCKWOOL, a.s.

TECHICAL PARAMETERS								
Typical Features	**Symbol**	**Value**			**Unit**			**Standard**
Density	ρ	~ 40			kg /m^3			EN 1602
Working temperature	t_t	max. 250*			°C			-
Thermal conductivity coefficient at all temperatures	t_m	50	100	150	200	250	°C	EN 12667
	λ_m	0.052	0.059	0.070	0.086	0.105	$W.m^{-1}.K^{1}$	
Reaction to fire	A_1	Non combustible			-			EN 13501-1
Specific heat capacity	C_p	840			J / kg.K			EN 13162
Melting point	t_t	> 1000			°C			DIN 4102
Number of water vapor transmission propertie	μ	1			kg /m^3			EN 12086
Noise reduction coefficient α_s	**Hz**	**125**	**250**	**500**	**1000**	**2000**	**4000**	EN ISO 20354
	α_s / δ = 50mm	0.25	0.79	0.31	0.49	0.47	0.61	
	α_s / δ = 100mm	0.49	0.56	0.60	0.51	0.43	0.33	
Bulgarian Technical Approval	Protocol № 00-140/ 12.05.2004			SRICM, Sofia				EN 13162
Sanitary Permit	№ 03579 / 2000 by Bulgarian Ministry of Health							
Environment Management System	Certificate No.140868			Bureau Veritas (BVQI) CS Prague				ISO 14001:2000
Quality Management System	Certificate No. 134429			Bureau Veritas (BVQI) CS Prague				ISO 9001:2000

**On side with reinforced aluminium coating (ALS) maximum allowed temperature of 100 °C.*

Any information contained in this data sheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time.

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