



July 2015

Naturoll 033

External walls

Description

Mineral fibre insulation material based on glass with ECOSE® Technology in the form of roll. Standardly packed 2 single rolls in package.

Recommended application - external walls.

Possibly application - internal walls, pitched roofs, ceilings and suspending ceilings.

Specification

Thickness	Width	Length	Thermal conductivity	Thermal resistance
[mm]	[mm]	[mm]	λ_0 [W/m.K]	R_0 [m²K/W]
50	565 x 2	8700	0,033	1,50
100	565 x 2	4400	0,033	3,00
150	565 x 2	3000	0,033	4,50

Basic characteristics

Thermal conductivity

$\lambda_0 = 0.033$ W/m.K

Reaction to fire

A1

Advantages

- above standard thermal insulation properties
- very good fire resistance
- light and easy to handle
- compressed packs - easier to transport
- retains its shape very well, completely fills a given space
- above standard hydrophobic
- benefits resulting from ECOSE®

Technology:

- softer feel
- less dusty
- odourless
- easy to cut

Naturoll 033

Technical data	Symbol	Value	EN Standard
Declared of thermal conductivity	λ_0	0.033 W/m.K	EN 12 667, EN 12 939
Reaction to fire	—	A1	EN 13 501-1
Thickness tolerance	—	T2	EN 823
Airflow resistance	AF_r	$\geq 5,0 \text{ kPa.s/m}^2$ Value relative to the respective thickness d	EN 29 053
Short term water absorption	WS	$\leq 1 \text{ kg/m}^2$	EN 1609
Long term water absorption	WL(P)	$\leq 3 \text{ kg/m}^2$	EN 12 087
Diffusion resistance factor	μ (MU)	1	EN 12 086
CE code	—	MW-EN 13162-T2-WS-WL(P)-AF,5	EN 13 162
EC certificate of conformity	CE	0764-CPR-0208	—

Application

Naturoll 033 with ECOSE® Technology is for multipurpose application. We recommend this product to external wall, external frame construction and it's possibly to use it for pitched roof or as filling for internal frame construction. It is very good product suitable for use in low energy and passive houses.

Packaging

The product is packed in rolls. It is wrapped on PE film. The protective wrapper is marked with manufacturer's logo and the product label, which specifies the technical properties of the product and the recommended method of applying it.

ECOSE® Technology

- Technology – free formaldehyde
- Improves indoor air quality
- Friendly environment
- Air-permeable and non-flammable

Quality

Knauf Insulation is the holder of quality certification for integrated management according to the standards EN ISO 9001:2008, EN ISO 14001:2004 and OHSAS 18001:2007. The manufacture of Knauf Insulation products is under the strict control of the quality department of the Knauf Insulation company, which oversees rigorous compliance with all emission limits.



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Knauf Insulation mineral wool products with ECOSE® Technology benefit from a revolutionary, bio-based, formaldehyde-free binder technology, based on rapidly renewable materials, instead of petro-based chemicals. It reduces embodied energy and delivers superior environmental sustainability.

KNAUF INSULATION

Aleksandr Solonintšik

Tel. +372 503 9278

E-mail:

aleksandr.solonintsik@knaufinsulation.com

