



## Earthwool 044

### New Generation Mineral Wool Based Loft Insulation Roll



#### PRODUCT DESCRIPTION:

**Earthwool 044**, produced with revolutionary ECOSE Technology®, is new generation light, long-lasting, environmentally friendly, non-combustible mineral wool based loft roll that is applied on loft floors in unused pitched roof areas. **Earthwool 044** can be produced with one side aluminium coated or ECOSE veiled according to purpose of use or required performance.

#### MAIN PROPERTIES:

**Thermal Conductivity Coefficient:**  
 $\lambda_D = 0,044 \text{ W/m.K}$

**Reaction to Fire Class:**  
Euroclass A1 (TS EN 13501-1)

**Environmentally Friendly ECOSE® Technology**  
Binder content does not contain phenol, formaldehyde, etc. type volatile organic compounds.

Thickness	Width	Length	Thermal Conductivity Coefficient	Thermal Resistance
(mm)	(mm)	(mm)	$\lambda_D$ (W/mK)	R (m <sup>2</sup> k/W)
50	1200	10000	0,044	1,15
80	1200	10000	0,044	1,80
100	1200	8000	0,044	2,30
120	1200	6000	0,044	2,70
140	1200	6000	0,044	3,20

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#### PRODUCT ADVANTAGES:

- ✓ Provides lightweight and cost effective insulation solution.
- ✓ Provides perfect thermal insulation with lower thermal conductivity coefficient while providing high sound absorption performance with its unique fiber structure.
- ✓ **Earthwool 044**, providing maximum safety against fire in buildings, is Class A1 in reaction to fire classification. (Euroclass A1: Non-combustible, does not spread fire, does not contribute to fire).
- ✓ **Earthwool 044** has very low volatile organic compound level thanks to innovative ECOSE® Technology which does not contain phenol, formaldehyde type harmful

chemicals, acrylics and dye in its binder content. With its eco-friendly structure, helps to create more healthy and habitable living areas.

- ✓ Thanks to its unique fiber structure, dusts less than alternative rolls and has minimum itchiness. Enables easy and comfortable applications.
- ✓ With its never-before-seen flexible and resilient fiber structure, **Earthwool 044** can easily be cut and shaped without having any breaks or ruptures in the product.
- **Earthwool 044** prevents thermal and sound leaks and provides continuous insulation by its easy and perfect adaptation on every kind of surface.

Technical Properties	Unit	Value
Thermal Conductivity Coefficient	W/m.K	0,044
Reaction to Fire Class	-	A1
Water Vapor Diffusion Resistance	-	≤ 1
Short-Term Water Absorption Value	Kg/m2	≤ 3
Long-Term Water Absorption Value	Kg/m2	CE
Certificate	-	CE
Package	-	PE Film

#### APPLICATION:

- ✓ Knauf Insulation's Earthwool 044 is a new generation loft roll specially developed for insulation applications in loft floor areas of new or existing residential or commercial buildings.
- ✓ **Earthwool 044** Loft Roll should be unpacked and fully opened. The opened roll should be lightly shaken sideways and gently agitated by 'bouncing' it on its side until it uniformly recovers to thickness stated on the label.
- ✓ Application should begin by laying **Earthwool 044** from the furthest point and work back towards the access hatch of the loft area.
- ✓ During application, rolls should be tightly joined by fully contacting roll sides to each other and leaving no air gaps between two rolls.
- ✓ **Earthwool 044** Loft Roll may be trimmed to appropriate sizes if required. During installation, potential corner, side voids must be filled with any Earthwool 044 off-cuts.

#### PACKAGING AND STORAGE:

**Earthwool 044** Loft Roll, comes palletized in compressed packages with double layer PE protective film and a final shrink layer. When opened, Earthwool 044 Loft Roll extends to its original size. Please refer to APPLICATION section for size retrieval. Pictograms showing application details are located on the package. Earthwool 044 packages should be contained in sheltered, dry, damp-free and indoor areas and should not directly contact with the ground.

