

# KNAUF INSULATION

FEEL THE DIFFERENCE



## Insulation guide 2019



challenge.  
create.  
care.

# KNAUF INSULATION

## WHO ARE WE

With more than 40 years of experience in the insulation industry, Knauf Insulation represents one of the fastest growing and most respected names in insulation worldwide. We are committed to meeting the increasing demand for energy efficiency in new and existing homes, non-residential buildings and industrial applications.

Knauf Insulation manufactures Glass and Rock Mineral Wool products and has created a product range based on which mineral wool is the most suitable for a given application.

Knauf Insulation is part of the Knauf Group, a family-owned multi-national manufacturer of building materials and construction systems, established in 1932. The Knauf Group has more than 27,500 employees worldwide with more than 150 plants and offices in 86 countries.



FEEL THE DIFFERENCE

# The new generation of Glass Mineral Wool

with **ECOSE**<sup>®</sup> TECHNOLOGY

“ Insulation with the feel good factor! Knauf Insulation products made with ECOSE<sup>®</sup> Technology are softer to touch and easier to handle ”



OUR GLASS MINERAL WOOL INSULATION IS MADE USING ECOSE<sup>®</sup> TECHNOLOGY BIO-BASED BINDER, MEANING IT IS:

- Odourless
- Softer to touch
- No added formaldehyde
- Pleasant to handle
- Virtually no dust
- ...and no extra cost



Over **80%** said they prefer the neutral smell of mineral wool

with **ECOSE**<sup>®</sup> TECHNOLOGY

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## CEILING ROLL (Combi-cut)

Partially cut, Combi-cut rolls offer installers the flexibility and convenience to make varying roll widths, i.e. 400, 600 or 800mm, without having to measure or use tools. Combi-cut rolls can also be used unsplit as full 1200mm widths.

Ceiling Roll is also available in 1200mm wide uncut rolls or 1140mm wide Combi-cut rolls with partial cuts to create 2 x 570mm or 3 x 380mm widths.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (m)	Width (mm)
<b>1200mm Combi-cut</b>				
50	1.25†	1.25	19.00	1200 (800 + 400 or 2 x 600)
100	2.50†	2.50	10.10	1200 (800 + 400 or 2 x 600)
135	3.38†	3.35	7.50	1200 (800 + 400 or 2 x 600)
<b>1200mm wide uncut</b>				
50	1.25†	1.25	19.00	1200
75	1.88†	1.85	12.80	1200
100	2.50†	2.50	10.10	1200
135	3.38†	3.35	7.50	1200
<b>1140mm wide Combi-cut</b>				
100	2.19	2.25	12.18	1140 (2x570 / 3x380)
100	2.40	2.50	11.25	1140 (2x570 / 3x380)
150	3.29	3.40	8.05	1140 (2x570 / 3x380)
150	3.89	3.75	7.53	1140 (2x570 / 3x380)
200	4.38	4.50	5.20	1140 (2x570 / 3x380)
200	4.65	5.00	4.85	1140 (2x570 / 3x380)

† products designed to meet the requirements of thermal legislation of South African climate zones

## CEILING ROLL (MULTI PACK)

Ceiling Roll (Multi Pack) provides the flexibility and convenience of 2 rolls in 1 by providing the option to install at either a 100mm depth or a 50mm depth.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (m)	Width (mm)
50	1.05	1.10	27.00	1200
100	2.10	2.25	13.50	1200



South African R-values calculated assuming 23°C mean temperature.



Euro R-values based on 10°C mean temperature, calculated according to requirements of EN90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

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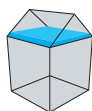


Thermal



Acoustic

with **ECOSE**<sup>TECHNOLOGY</sup>



Product format*	Area per roll (m <sup>2</sup> )	Article Code	NRC
Combi-cut	22.80	632897	0.81
Combi-cut	12.12	632858	1.04
Combi-cut	9.00	632899	1.13
Un-cut	22.80	617261	0.81
Un-cut	15.36	617263	0.93
Un-cut	12.12	617265	1.04
Un-cut	9.00	617267	1.13
Combi-cut	13.89	2404154	1.04
Combi-cut	12.83	2404167	1.04
Combi-cut	9.18	2404155	1.13
Combi-cut	8.53	2404166	1.13
Combi-cut	5.93	2404157	1.16
Combi-cut	5.53	2404169	1.16

SANS 10177-5 A - Non combustible, SANS 10177-10 A1 - No flame spread, Euroclass A1 - reaction to fire rating. Fire classification, in accordance with SANS 428:2012, for thicknesses up to 135mm is A / A1 / 1.

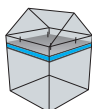
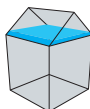


Thermal



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Product format*	Area per pack (m <sup>2</sup> )	Article Code	NRC
Un-cut	32.40	633623	0.81
Un-cut	16.20		1.04

SANS 10177-10 A1 - No flame spread, Euroclass A1 - reaction to fire rating. Fire classification, in accordance with SANS 428:2012

\* See back page for descriptions

## ACOUSTIC ROLL

Designed specifically for sound insulation of internal separating elements in residential and commercial buildings such as timber and metal stud partitions and timber flooring.

Thickness (mm)	Length (m)	Width (mm)
50	13.00	1200 (2x600)
63	15.00	1200 (2x600)
75	12.50	1200 (2x600)
100	9.17	1200 (2x600)

## ACOUSTIC BATT

Semi-rigid slabs designed for friction-fitting in metal and timber studs, including drywall partitioning. They are also suitable for intermediate floors with cavities such as timber or metal joist constructions.



Thickness (mm)	Length (m)	Width (mm)
51	1200	600
63	1200	600
100	1200	600

## CAVITY ROLL

Conveniently packaged as two separate ready-cut 600mm wide rolls suitable for friction-fit installation in residential or commercial applications within timber or metal frame systems. This permits faster installation including drywall partitioning. The product also provides R-values recognised in South Africa.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (m)	Width (mm)
51	1.34	1.38	14.00	1200 (2x600)
63	1.65	1.70	12.00	1200 (2x600)
100	2.63	2.70	7.50	1200 (2x600)

\* See back page for descriptions

# FEEL THE DIFFERENCE



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Acoustic



Product format*	Area per roll (m <sup>2</sup> )	Article Code	NRC
Ready-cut	15.60	2400365	0.83
Ready-cut	18.00	603550	0.89e
Ready-cut	15.00	2438513	0.95
Ready-cut	11.00	2438517	1.04

e = estimate



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Acoustic



Product format*	Area per pack (m <sup>2</sup> )	Article Code	NRC
Un-cut	14.40	660772	0.83e
Un-cut	11.52	661280	0.89e
Un-cut	8.64	660771	1.04e

e = estimate



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Thermal



Acoustic



Product format*	Area per pack (m <sup>2</sup> )	Article Code	NRC
Ready-cut	16.80	592787	0.77
Ready-cut	14.40	592813	0.85e
Ready-cut	9.00	595698	1.00

e = estimate

Euro R-values based on 10°C mean temperature, calculated according to requirements of λ90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

## ULTRACOUSTIC-A

Manufactured at higher density to offer superior acoustic performance for building elements such as internal partition walls above suspended ceilings and intermediate floors around areas demanding greater privacy such as consultation chambers, boardrooms or improved acoustics in cinemas. Offering enhanced R-values, this product is packaged as two separate combi-cut 600mm wide rolls for rapid installation.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (m)	Width (mm)
50	1.51	1.62	5.00	1200 (2x600)

## DUCT ROLL (THERMO-TEK RL PRO ALU)

Faced with a reinforced aluminium foil, Duct Roll offers total flexibility to aid installation around square, rectangular and circular duct work with maximum service temperatures of 230°C.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (m)
25	0.73	0.75	18.00
40	1.17	1.20	12.00
50	1.46	1.50	9.00

## FIRE BARRIER WIRED MATTRESS (FIRE-TEK)

A highly fire resistant wired mat used to sub-divide voids and spaces to prevent the spread of fire in buildings. It is available foil-faced to suit individual application requirements and is installed in a vertical position.

Thickness (mm)	Length (m)	Width (mm)
50	4000	1000

\* See back page for descriptions

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Product format*	Area per pack (m <sup>2</sup> )	Article Code	NRC
Combi-cut	6.00	596043	0.88



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Width (mm)	Product format*	Area per pack (m <sup>2</sup> )	Article Code
1200	Un-cut	21.60	2400374
1200	Un-cut	14.40	2400373
1200	Un-cut	10.80	2400372

WM 910)



Fire



Acoustic



Not manufactured in Great Britain

Product format*	Area per pack (m <sup>2</sup> )	Article Code
Un-cut	4	522253

Euro R-values based on 10°C mean temperature, calculated according to requirements of A90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

## RAINSCREEN SLAB

RainScreen Slabs are treated with a water repellent additive, and are designed for use in ventilated facade systems where fire safety is a critical consideration.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (mm)
50	1.39	1.45	1200
75	2.09	2.20	1200
100	2.79	2.90	1200

## MASONRY CAVITY SLABS

Masonry Cavity Slabs have a water repellent additive, and are designed for use in external masonry cavity walls up to 25m to provide a full-fill insulation solution which is installed as walls are being built.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	Length (m)	Width (mm)
50	1.42	12.00	455
65	1.75	12.00	455
75	1.93	12.00	455

## BUILDING SLAB RS45

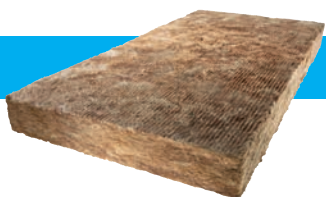
Offering combined thermal and acoustic insulation across a wide range of residential and non-residential building applications.



Thickness (mm)	R-value (m <sup>2</sup> K/W)	R-value (m <sup>2</sup> K/W)	Length (mm)
25	0.70	0.70	1200
50	1.40	1.40	1200
75	2.09	2.10	1200
100	2.79	2.85	1200

Other thicknesses, up to 150mm, are available on request. Generally not suitable for Technical Insulation applications. Knauf Insulation offers an extensive range of TS and HVAC products – please ask for details

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Width (mm)	Product format*	Area per pack (m <sup>2</sup> )	Article Code
600	Un-cut	7.20	2411646
600	Un-cut	4.32	2411397
600	Un-cut	3.60	2411398



Thermal

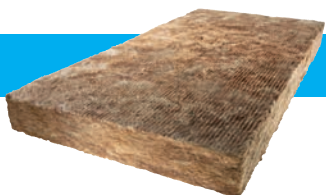


Acoustic

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Product format*	Area per roll (m <sup>2</sup> )	Article Code
Un-cut	6.55	316650
Un-cut	5.46	316652
Un-cut	4.37	316654



Thermal



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Width (mm)	Product format*	Area per pack (m <sup>2</sup> )	Article Code	NRC
600	Un-cut	14.40	2411325	0.65
600	Un-cut	7.20	2411327	0.96
600	Un-cut	4.32	2411328	1.10
600	Un-cut	3.60	2411339	1.16

Euro R-values based on 10°C mean temperature, calculated according to requirements of λ90:90 for declaring thermal performance and following the European norm standard including audited factory production control.

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## Product formats

### COMBI-CUT

A factory applied perforation along the full length of a roll which intermittently partially cuts through the material.

#### BENEFIT:

Without the use of tools, the user has the options to either quickly create equally sized narrower rolls (whilst still in the packaging film) to suit the requirements of applications such as partitions or between ceiling joists or for installation as a full width roll.

### READY-CUT

A factory applied cut along the full length of a roll and through the full depth of the material.

#### BENEFIT:

Pre-made narrower rolls that can be separated whilst still in the packaging film to suit certain applications for ready installation at the job site.

### UN-CUT

No cut has been applied to these products.

#### BENEFIT:

**Rolls** – allows the user to cut to specific widths as required at the job site or use as a full roll width.

**Slabs** – are usually designed to be used as a full piece of material in standard applications.

Knauf Insulation manufactures Glass and Rock Mineral Wool products and has created a product range based on which mineral wool is the most suitable for a given application.