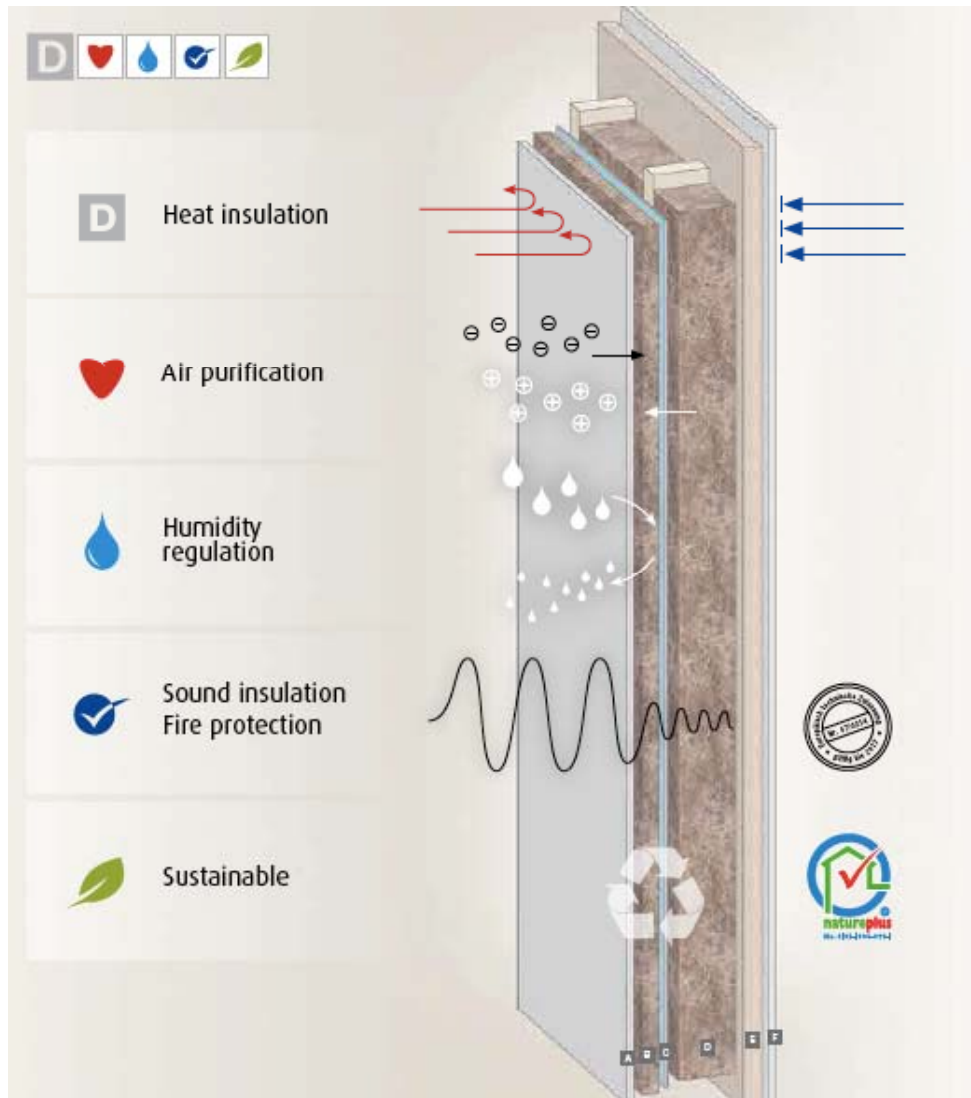




 **SheepWool**<sup>®</sup>  
INSULATION

# The insulation that naturally can do more



## **D** Sheep wool is an outstanding insulator,

ISOLENAWOLLE achieves top insulation values by its very nature\* and offers a unique combination of product benefits like no other insulation material.

\* Thermal conductivity  $\lambda$  tr 0.035 - 0.042 W/m<sup>2</sup>K

## **♥** creates a healthy climate in the room,

Sheep wool is able to purify the air in a room with a very short space of time, removing many odours and harmful substances, such as formaldehyde.

## **💧** regulates humidity,

Sheep wool can absorb up to 33% of its own weight in moisture, without compromising its insulating effect.

## **✓** represents quality and safety

ISOLENAWOLLE has been technically inspected many times, carries the international natureplus quality seal and holds the European Technical Approval (ETA).

## **🌿** is a sustainable raw material.

As a natural product, sheep wool is shorn twice a year and can be returned to the environmental cycle at any time.

# Can be used in a variety of ways

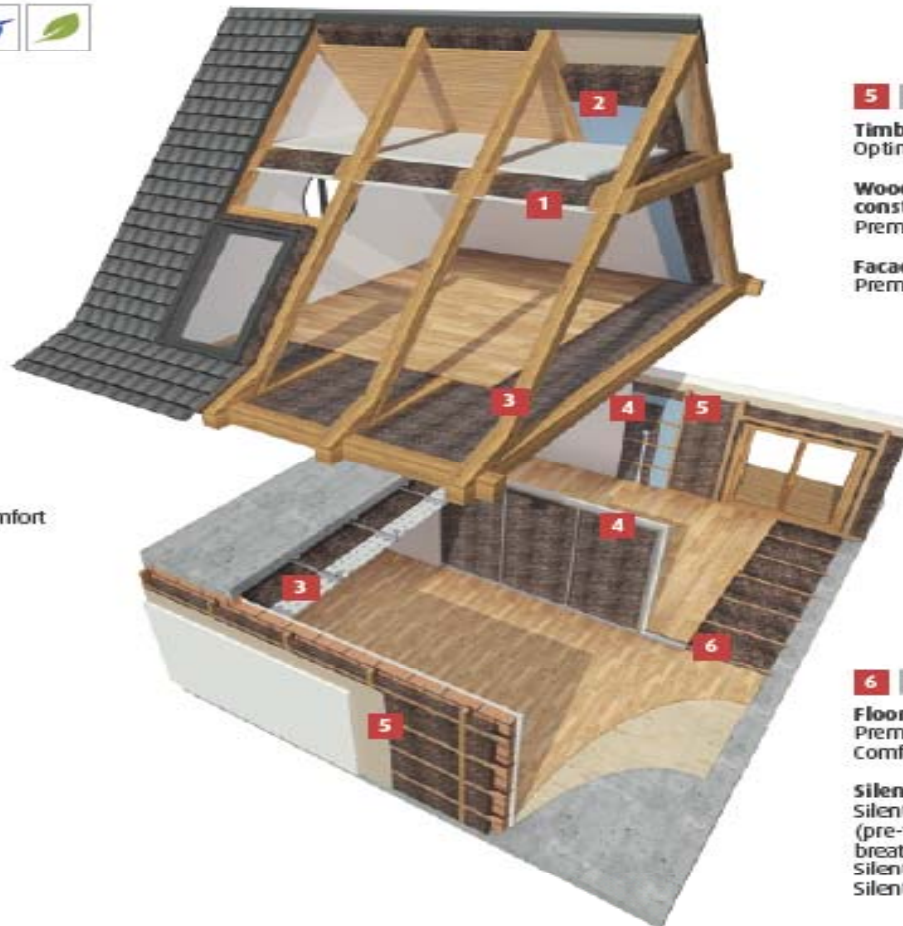


**1** D ♥ 💧 ✓ 🌿  
**Gabled ceiling:**  
Comfort

**2** D ♥ 💧 ✓ 🌿  
**Roof:**  
Premium / Optimal

**3** D ♥ 💧 ✓ 🌿  
**Ceiling:**  
Premium / Optimal / Comfort  
**Acoustic ceiling:**  
Optimal

**4** D ♥ 💧 ✓ 🌿  
**Wall:**  
Premium / Optimal



**5** D ♥ 💧 ✓ 🌿  
**Timber:**  
Optimal / Comfort  
**Wooden frame construction:**  
Premium / Optimal  
**Facade:**  
Premium / Optimal

**6** D ♥ 💧 ✓ 🌿  
**Floor:**  
Premium / Optimal / Comfort  
**SilentWool Floor:**  
SilentWool Floor (pre-fitted with a breathable paper) / SilentWool joist / SilentWool Carpet

# Premium Insulation rolls



**PREMIUM** – the very best solution for **high insulation strengths**

- Applications: ceiling, roof, walls, floors, outside insulation, sauna, acoustic ceiling, wood panel houses, log houses, low energy houses, passive energy houses
- Compact insulation with density, 20 kg/m<sup>3</sup>,
- $\lambda = 0,0385 \text{ W/m}^2\text{K}$
- New technology for fast mounting of thick insulation layers



# Premium for Walls



# Premium Insulation Rolls



Premium Rolls for Vertical and Horizontal Applications. High Density

New technology -  
for fast installation  
in high insulation strengths.

Raw density:	20 kg/m <sup>3</sup>
Thermal conductivity:	tr 0,0385 W/m <sup>2</sup> K



## Premium Insulation (20kg/m<sup>3</sup>) Thermal Conductivity 0.0385 W/m<sup>2</sup>k

Product Code	Length mm	Width mm	Thickness mm	Thickness ~Inches	Units/Pack Rolls	Area/Roll m <sup>2</sup>	Area/Pack m <sup>2</sup>
PRE20 380x100	4000	380	100	4	3	1.52	4.56
PRE20 380x150	3000	380	150	6	3	1.14	3.42
PRE20 570x100	4000	570	100	4	2	2.28	4.56
PRE20 570x150	3000	570	150	6	2	1.71	3.42



# Optimal Insulation rolls



**OPTIMAL** – the best available solution for standard application



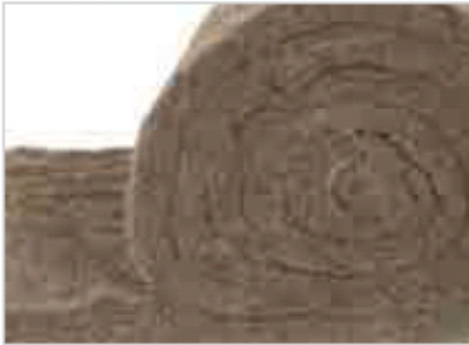
- Applications: ceiling, roof, walls, floors, outside insulation, sauna, acoustic ceiling, wood panel houses, log houses
- density 18 kg/m<sup>3</sup>, technology needed
- $\lambda = 0,0385$  W/m<sup>2</sup>K
- Support felt (inside) for fast fastening

# Optimal for Rafters





# Optimal Insulation Rolls :



**Optimal Insulation Rolls** :for Vertical and Horizontal Applications with support felt for easy installation.



Standard product with support felt for fast fastening.

Raw density: 18 kg/m<sup>3</sup>

Thermal conductivity: tr 0,0385 W/m<sup>2</sup>K

## Optimal Insulation (18kg/m<sup>3</sup>) Thermal Conductivity 0.0385 W/m<sup>2</sup>k

OP118 380x50	9000	380	50	2	3	3.42	10.26
OP118 380x75	6000	380	75	3	3	2.28	6.84
OP118 570x50	9000	570	50	2	2	5.13	10.26
OP118 570x75	6000	570	75	3	2	3.42	6.84

# Comfort Insulation rolls



**Comfort– Light good value sheep wool insulation  
with limited applications**

- floors, between logs, gablet ceiling
- Density 14 kg/m<sup>3</sup>,
- $\lambda = 0,042$  W/m<sup>2</sup>K
- Light weighted sheep wool fleece



# Comfort for Ceilings and Floors.



# Comfort Rolls



Comfort Rolls for Horizontal application

Light, good value  
sheep wool nonwoven.

Raw density: 14 kg/m<sup>3</sup>

Thermal conductivity: tr 0,042 W/m<sup>2</sup>K



Comfort Insulation (14kg/m<sup>3</sup>) Thermal Conductivity 0.040 W/m<sup>2</sup>k

Product Code	Length mm	Width mm	Thickness mm	Thickness ~Inches	Units/Pack Rolls	Area/Roll m <sup>2</sup>	Area/Pack m <sup>2</sup>
BLO14 380x100	4000	380	100	4	3	1.52	4.56
BLO14 380x150	3000	380	150	6	3	1.14	3.42
BLO14 570x100	4000	570	100	4	2	2.28	4.56
BLO14 570x150	3000	570	150	6	2	1.71	3.42

# Insulation and Acoustic underlay range product summary



New technology

**ISOLENA Premium**  
New technology – for fast installation in high insulation strengths.

**ISOLENA Optimal**  
Standard product with support felt for easy fastening.

**ISOLENA Comfort**  
Light, good value sheep wool nonwoven.

**ISOLENA SilentWool Floor** (pre-fitted with a breathable paper).  
Multi-purpose underfloor acoustic insulation made from pure new sheep's wool and pre-fitted with a breathable paper.

Raw density:	20 kg/m <sup>3</sup>
Thermal conductivity:	tr 0,0385 W/m <sup>2</sup> K

Raw density:	18 kg/m <sup>3</sup>
Thermal conductivity:	tr 0,0385 W/m <sup>2</sup> K

Raw density:	14 kg/m <sup>3</sup>
Thermal conductivity:	tr 0,042 W/m <sup>2</sup> K

Raw density:	100 kg/m <sup>3</sup>
Footfall sound improvement:	bis 21 DB



**ISOLENA SilentWool Joist** Acoustic insulation strips for joists.

Raw density:	100 kg/m <sup>3</sup>
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**ISOLENA SilentWool Carpet** Acoustic underlay rolls for the reduction of impact sound transfer under carpeted areas.

Thickness	7 mm
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## Physical properties

Thermal conductivity:	0,035 – 0,045
Combustibility class:	E s1, d0 / B s1, d0
	BKZ in CH 5,3
* Flammability of an acoustic ceiling element	B s1, d0
Flash point:	570° C – 600° C
Water vapour diffusion permeability:	1 – 2
Wool protection:	1 % Thoran NW

Perforated plasterboard panel 12 mm thick, perforation 18/18-5 mm diameter, IsolenaWolle Optimal (thickness 40 mm), 60 mm rear ventilation compliant with Austrian standard EN 13501-1