



# Healthy insulation can naturally do more.

Sheep wool: a natural insulator.

Nature has given us a unique, sustainable raw material whose use is the order of the day.

## **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.

## **♥** 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.

Specify in confidence. ISOLENA has been awarded the CE certification by the European Organisation for Technical Approvals.



SheepWool Insulation Ltd.  
Unit 1, Railway Business Park,  
Rathdrum, Co. Wicklow, Ireland



Phone (IE): +353 404 46100  
Fax (IE): +353 404 46452  
Email: [info@sheepwoolinsulation.ie](mailto:info@sheepwoolinsulation.ie)



Phone (UK): +44 871 2185218  
Email: [uk@sheepwoolinsulation.com](mailto:uk@sheepwoolinsulation.com)  
[www.sheepwoolinsulation.com](http://www.sheepwoolinsulation.com)

Your SheepWool Insulation Agent:

100% Pure Wool with  
**IP IONIC PROTECT.**  
the new, innovative wool protection





# The insulation material that can do more



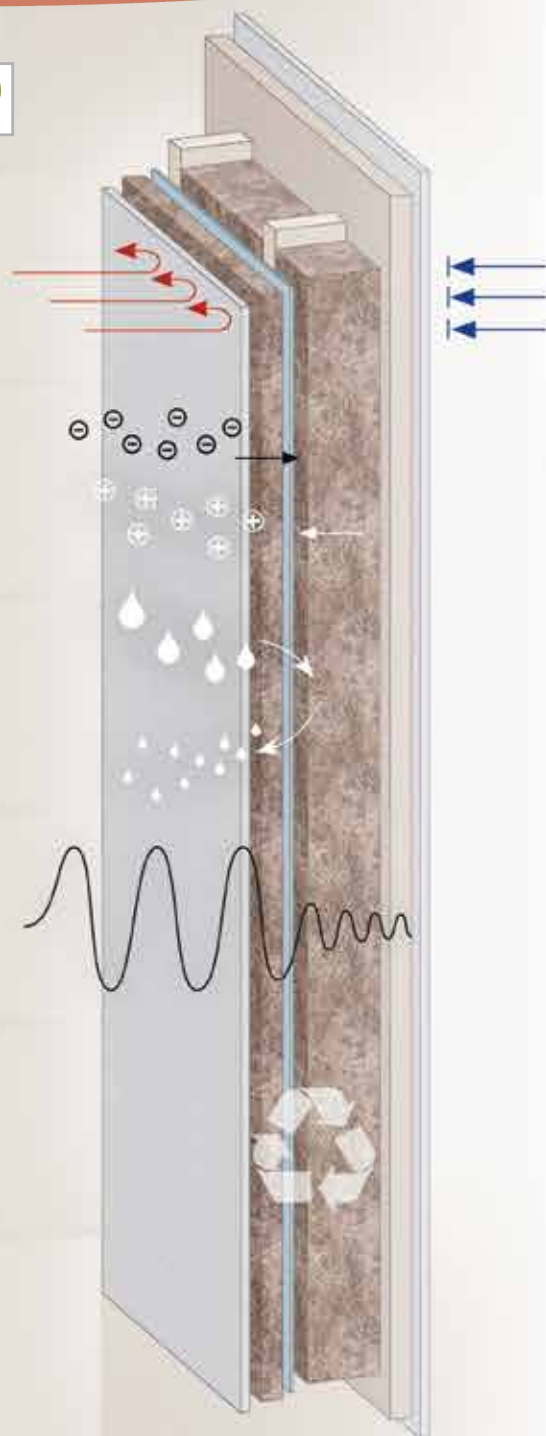
**D** Heat insulation

**Heart** Air purification

**Water drop** Humidity regulation

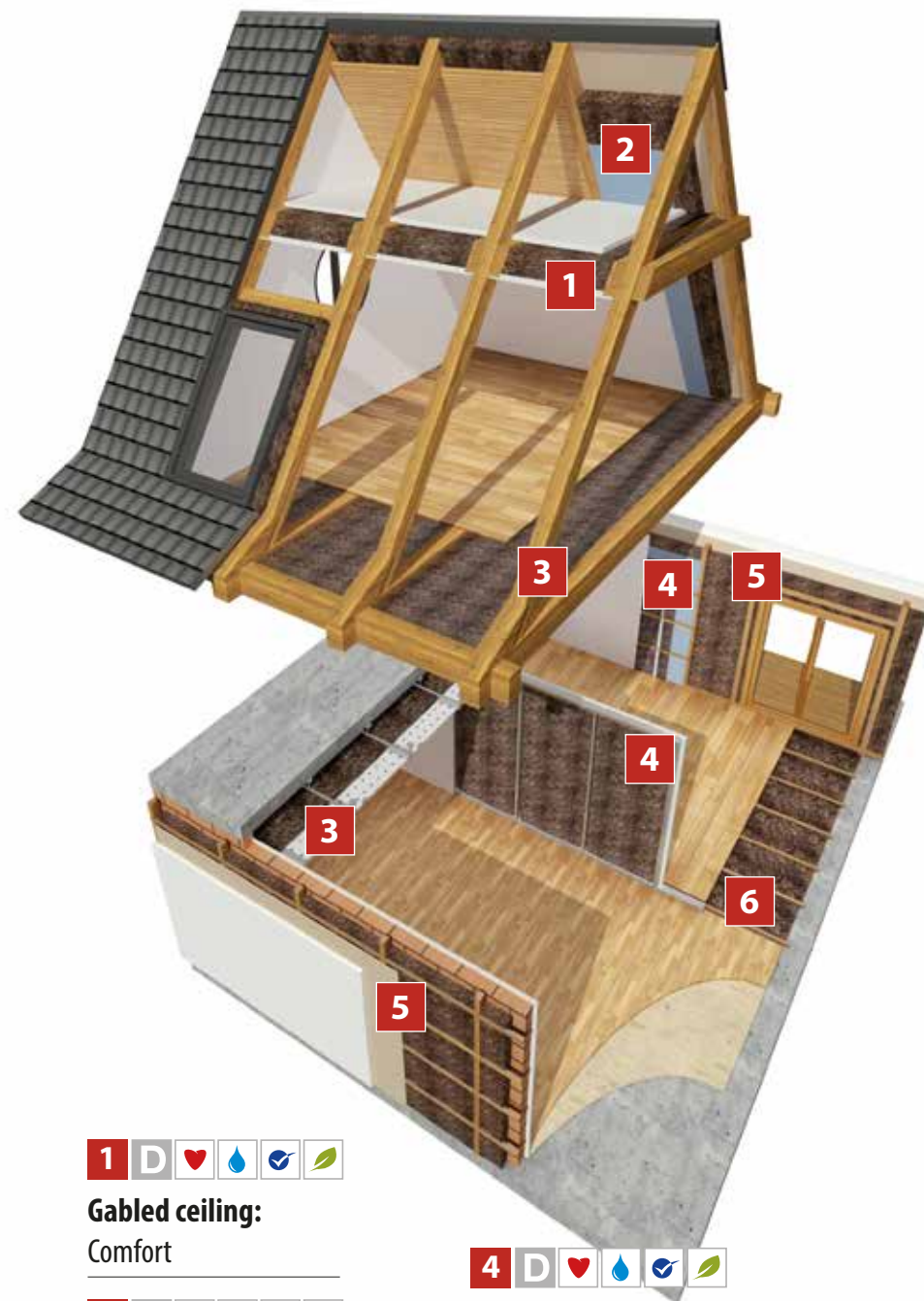
**Bird** Sound insulation  
Fire protection

**Leaf** Sustainable



- A** Interior cladding
- B** Installation level ISOLENAWOLLE
- C** Air Sealing
- D** Main insulation level ISOLENAWOLLE
- E** Wind sealing
- F** Facade cladding

## Used in a variety of ways



**Gabled ceiling:**  
Comfort



**Wall:**  
Premium / Optimal



**Timber:**  
Premium / Optimal / Comfort

**Wooden frame construction:**  
Premium / Optimal

**Acoustic ceiling:**  
Optimal



**Wall:**  
Premium / Optimal



**Timber:**  
Premium / Optimal

**Wooden frame construction:**  
Premium / Optimal

**Facade:**  
Premium / Optimal



**Floor:**  
Premium / Optimal / Comfort

**SilentWool Floor:**  
SilentWool Floor (pre-fitted with a breathable paper) / SilentWool Joist / SilentWool Carpet



## SheepWool Insulation product overview



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

Raw density: 20kg/m<sup>3</sup>  
Thermal conductivity: tr 0,0359 W/mK

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

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

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

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



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

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

**ISOLENA Silentwool Joist**  
Acoustic insulation strips for Joists.

Raw density: 100kg/m<sup>3</sup>

**ISOLENA Silentwool Carpet**  
Acoustic underlay rolls for the reduction of impact sound transfer under carpeted areas.

Thickness: 9mm

Physical properties	
<b>Thermal conductivity:</b>	0,035–0,042
<b>Combustibility class:</b>	E s1, D0 / Bs1, d0 BKZ in CH 5,3
*Flammability of an acoustic ceiling element	
	B S1, d0
<b>Flash Point:</b>	570° C-600° C
<b>Water vapour diffusion permeability:</b>	1–2
<b>Wool protection:</b>	IONIC PROTECT®

Perforated plasterboard panel 12mm thick, perforation 18/18-5mm diametewr, ISOLENAWOLLE Optimal (thickness 40mm), 60mm rear ventilation compliant with European Norm EN 13501-1.

**IONIC PROTECT®**, the new, innovative wool protection

is the most useful invention since virgin sheep wool to be used as insulation protection. Biocide-free, permanent and CUAP tested.

