

FAQ

People still have prejudices and worries about using sheep's wool in construction. We would like to address these worries here and provide answers to common questions.

Sheep's wool smells

The wool grease (lanolin), along with cellulose and organic impurities, is removed from ISOLENAWOLLE sheep's wool in a gentle washing process using curd soap and a soda rinse. This rinsing removes any unpleasant odors from the wool. Only a tiny amount of lanolin remains. This preserves the elasticity and springiness of the wool fibers.

Sheep's wool gets moldy

Sheep's wool can absorb up to 33% of its own weight in moisture without losing any of its insulating effect. It absorbs moisture from the air when air humidity is high and releases it again when it drops, thus balancing the indoor climate. ISOLENAWOLLE is thus also ideal for installation in complex construction situations. The protein fibers of sheep's wool do not provide any breeding grounds for mold fungi.

Sheep's wool burns easily

The ignition temperature of virgin wool is 560–600 °C, about double that of wood (270 °C). Our products are tested and are approved as construction materials in Europe.

Sheep's wool rots

For thousands of years, sheep's wool has adapted to the most adverse conditions and thus developed far-reaching resistances. In other words, this means that sheep's wool "functions" permanently under all possible conditions and can be returned to 100% to the ecological cycle.

Mice or insects nest in sheep's wool

Mice, ants and other pests are not a threat to sheep's wool for several reasons. Wool is indigestible for these animals and cannot be processed by their stomachs (unlike cellulose or plant fibers, which are made of starch fibers). Furthermore, fibers in Isolena insulation material are arranged in such a way that animals risk getting caught up in them.

Is all wool insulation the same?

Only a wool insulation manufacturer who uses 100% pure, virgin wool, with no added synthetic filler fibers or meshes (such as are used in board manufacture) can guarantee the unlimited degradation of toxins such as formaldehyde. The behaviour of moisture changes when other fibers are added, and the product is no longer biodegradable if synthetic additives are used. This results in higher disposal costs.

What sets ISOLENAWOLLE apart from other wool insulation providers?

ISOLENAWOLLE is the only provider that has developed an innovative BIOCIDE-FREE wool protection system. It is called **Ionic Protect®** and is tested to EAD and CUAP standards. ISOLENAWOLLE is the only manufacturer of wool insulation that has a product tested and certified to natureplus standards.

I can't afford sheep's wool insulation material

The somewhat higher price is due to the outstanding quality of this natural product and the extra costs are recouped in a very short time thanks to the outstanding insulation properties. You will also benefit from the unique properties of sheep's wool.

With other insulation materials, there are sometimes high waste disposal costs for modification and renovation work that are often not taken into consideration during the purchase calculation.

Thanks to its air-purifying and moisture-balancing action, ISOLENAWOLLE also helps keep you healthy and actively promotes well-being.

Sheep's wool collapses or settles

Thanks to the needling and matting of our ISOLENAWOLLE, our products – especially our latest product "Premium" needling throughout – gain enough stability – provided installation is done properly – to guard against settlement. It is easy to handle and can be easily installed without safety precautions such as goggles or a dust mask!

Wool protection

This has always been an important, if not the most important aspect for us, and we have therefore developed **Ionic Protect®** after long research. With an electrophysical (plasma) treatment, the fiber surface is modified without the addition of pesticides to ensure that the wool is permanently protected from all negative influences. This is continuously tested and certified.

For your safety and ours!

Checklist

Criteria	Description	Documentation / certification body	Fulfilled	Comparable product
Full declaration	100% wool, lifecycle analysis certified by Natureplus®.	Naturplus No. 0103-1006-099-1	✓	
Raw material provenance	100% from the central European alpine region (mountain regions of Austria, Germany, Switzerland)	Naturplus No. 0103-1006-099-1; ETA/ETZ_07_0214_	✓	
Wool protection	Only ISOLENAWOLLE offers pesticide-free wool protection with IONIC PROTECT®, environmentally friendly and tested for its permanence. This unique treatment method is only carried out by ISOLENAWOLLE and gives sheep's wool all the properties it needs to serve as a permanent insulation material. IONIC PROTECT® is permanent, i.e. permanently effective. 30-year guarantee. Thanks to the unique IONIC PROTECT® process, ISOLENAWOLLE is safely protected against harmful insects. Its functionality has been tested and verified in laboratories (EAD/CUAP test).	Tested and certified permanence test EAD/CUAP Ecolabor; Naturplus No. 0103-1006-099-1	✓	
Pollutant decomposition (formaldehyde)	ISOLENAWOLLE is made of keratin, a protein building block. The molecules of the amino acid's side branches are able to capture any pollutants in the aldehyde group, especially formaldehyde, and neutralize them in a chemical reaction. Formaldehyde decomposition has been measured and proven in various long-term measurement studies in child-care and school buildings. This only works if there are no foreign, synthetic filler fibers that stick to the wool.	DWI deutsches Wollforschungsinstitut (German Wool Research Institute) dissertations. Thome / Schadstoffsanierung Schulhaus Felben Wellhausen (Pollutant removal in a school building in Felben Wellhausen); Bau- und Umweltchemie Messungen Buch Innenraumklima Reto Coutalides (neu Label GI gutes Innenraumklima) (Building and environmental chemistry measurements book, interior climate Reto Coutalides – new label GI Good Interior Climate)	✓	
Sheep husbandry requirement	Exclusively from animal-friendly producers: no pesticides such as pyrethroids (roach dip) allowed.		✓	
Washing requirements	Only curd soap and soda are used to clean the wool. The lanolin obtained during cleaning is used in the cosmetics industry.	Naturplus No. 0103-1006-099-1	✓	

Criteria	Description	Documentation / certification body	Fulfilled	Comparable product
Finished product requirement	Weight guarantee, resulting in reliable lambda values (tested to Empa/ MA39) 100% pure shorn sheep's wool – No support mesh or adhesives embedded in the wool. Quality control of all technical values, tested and certified with ETA/ETZ construction material approval.	Naturplus No. 0103-1006-099-1; Empa Dübendorf; Int. Test Institute, Vienna, MA39; ETA/ETZ_07_0214_	✓	
Production location	All ISOLENAWOLLE insulation products are made exclusively at our plant in Waizenkirchen, Austria. CO2-neutral production, designated as a Climate Alliance plant for energy self-sufficiency. Market leader in Switzerland for over 20 years.	Third-party monitoring by ETA/ETZ_07_0214_ ; Naturplus No. 0103-1006-099-1; active climate partner of the Ministry for Austrian Quality of Life	✓	
Eco-balance – CO₂ balance	Documented per naturplus requirements. Energy for manufacture: solar electricity, solar-thermal energy, green electricity.	Naturplus No. 0103-1006-099-1; Climate Alliance plant	✓	
Quality assurance	We at ISOLENAWOLLE are currently the only manufacturer to guarantee continuous, documented quality assurance with third-party inspection of all production lots by an authorized testing lab.	Naturplus No. 0103-1006-099-1; ETA/ETZ_07_0214	✓	
Construction material approval	The only wool insulation in Europe with valid approval (CE mark) and naturplus label. The European Technical Approval under the previously applicable construction products directive has, since the European construction products regulation took effect, been referred to as the European Technical Assessment (ETA). This is a generally recognized proof of technical usability for marketing a construction product in accordance with the new construction products law for EU member states and Switzerland.	ETA/ETZ_07_0214_	✓	
Mold protection	One more advantage of 100% ISOLENAWOLLE: as a protein fiber, it does not provide a breeding ground for mold fungus. Because ISOLENAWOLLE is plastic-free, it can absorb up to 33% of its own weight in moisture without losing its insulation properties.	Naturplus No. 0103-1006-099-1; ETA/ETZ_07_0214_	✓	

Criteria	Description	Documentation / certification body	Fulfilled	Comparable product
Fire protection	ISOLENAWOLLE does not require any additional fire protection agents, as no flammable additives are used. The ignition temperature of pure wool lies between 560–600 °C. This is double that of wood (260°C). Pure wool is generally classified as a flame-retardant. For more information about the fire-protection classification of individual products, see our technical brochures.	ETA/ETZ_07_0214_	√	
Processing – Worker safety	Valuable time savings for installation: standard dimensions and special sizes, insulation thickness up to 300 mm. ISOLENAWOLLE contains no inhalable fibers, guaranteeing healthy installation.	IBO Institute, Austria, “Ecology of insulation materials” brochure from 2000, Naturplus No. 0103-1006-099-1	√	
Recycling – Disposal – Composting	ISOLENAWOLLE can always be fed back into the ecological cycle in a composting plant. Sustainable for the next generation. Wool products that contain plastic fibers or have been treated with chemical moth repellants cannot be composted. ISOLENAWOLLE is the cleanest insulation on the market.	Naturplus No. 0103-1006-099-1	√	
Cutoffs	We recommend using cutting waste as darning wool.		√	
Packaging	Made of 100% polyethylene. In most countries, our packaging can be recycled at no additional cost.	ARA Lizenznr. 455	√	

Point of sale products

Product	Size of samples
	<p>Samples for look and grip</p> <p>10 x 10 cm with banderole</p>
Sample rolls:	
	<p>Optimal size XS</p> <p>Length: 20 cm / \varnothing 12 cm with banderole + label</p>
Floor display - info point:	
<p>... Filled with samples, flyers and brochures, 1 architect folder, 1 sample box</p>	<p>Height: 170 cm / Depth: 35 cm / Width: 25 cm</p>
Forms:	
	<p>Brochure DE/EN/FR/IT</p>
	<p>sales display</p>
	<p>box with samples</p>
	<p>architect folder</p>

Order our **point of sale products** at office@isolena.at or info@isolena.ch or by phoning [+43 7277 2496-10](tel:+437277249610) or [+41 71 350 01 37](tel:+41713500137).
We're happy to help!

Wool center

The Waizenkirchen wool center provides expertise in all areas of wool processing. Here you can find technical presentations and informational days on all sorts of topics around wool in a uniquely “woolly” – environment!

WWW.WOLLZENTRUM.AT



Service:

- ◇ We provide CONSULTATION for all questions about ISOLENAWOLLE and Silentum.
- ◇ Upon REQUEST, we will be happy to support you with advice for your customers, builders, architects, and planners, including at events such as in-house trade shows, etc.
- ◇ Our wool center is available for PRODUCT PRESENTATION, advice, and training by appointment.
- ◇ Requests for quotation, INSTALLATION INFORMATION, and technical details can also be found on our website.
- ◇ Extensive POINT OF SALE and advertising materials are available upon request.
- ◇ Technical presentation and training sessions in the wool center, as a certified ISOLENAWOLLE partner for you and your employees.
- ◇ Your company will be listed on our website as soon as you become a certified SALES PARTNER.
- ◇ Advertise your latest REFERENCE PROJECTS on our website and Facebook.
- ◇ With our technical capabilities, we also DEVELOP special products with our customers. Talk to us.
- ◇ We invite you AND your customers to pay us a virtual visit, with our ISOLENAWOLLE image film, as well as on Facebook and Youtube.

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Company building Waizenkirchen

