



System 10 ZEB Ready
Innovative thermal insulation ecosystem

System 10 ZEB Ready

Innovative thermal insulation ecosystem

Medium +

Advanced performance, lifetime warranty

- Wolle P800 - thickness 5 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)]
- Wolle P2100 - thickness 10 cm, thermal conductivity $\lambda=0.035$ [W/(m·K)]
- Multistrat and one Gold.
 - Multistrat is installed in two layers, with the aluminium facing the Wolle, and is fixed with 6 mm staples. At the edges it is brought down so that it is fixed beneath the perimeter profile and ensures airtight continuity.
 - Gold - installed directly onto Multistrat and fixed with 2.5 cm screws.
- Before the metal profile structure is installed, the Gold membrane is sealed with Power Tape adhesive tape
- Sealed air (resulting from the thickness of the metal profile structure), minimum height 3 cm
- Installation phase 2: one Multistrat
- Before the plasterboard panels are installed, the Multistrat membrane is sealed with Power Tape adhesive tape

The table below contains the values calculated for thicknesses between 10 and 30 cm.

The package contains the following products: Wolle P2100 + Wolle P800 (as applicable), complete membrane package Phase 1* + Phase 2).**

Total Wolle thickness	Wolle composition	Total system	U-value [W/m ² ·K]	Total system thickness	Lambda equivalent
10	10 cm P2100	5.911	0.169	15.8	0.02673
15	10 cm P2100 + 5	7.227	0.138	20.8	0.02878
20	20 cm P2100	8.768	0.114	25.8	0.02943
25	20 cm P2100 + 5	10.084	0.099	30.8	0.03054
30	30 cm P2100	11.625	0.086	35.8	0.0308
35	30 cm P2100 + 5	12.941	0.077	40.8	0.03153
40	40 cm P2100	14.483	0.069	45.8	0.03162

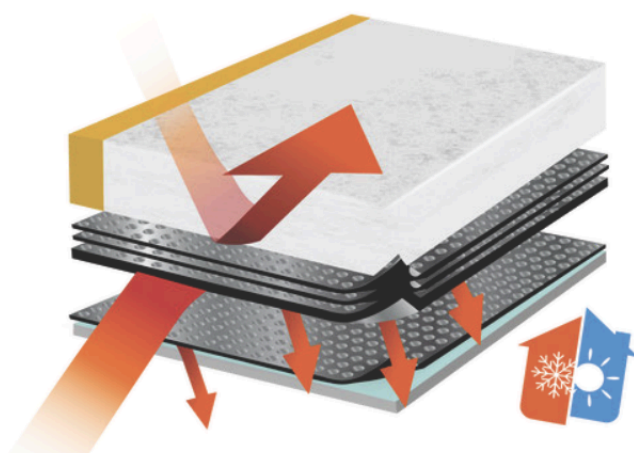
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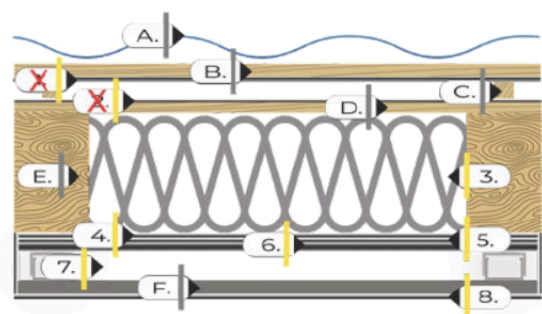
System 10 Medium

- Rigid wood wool ($\lambda = 0.045$)
- EPS polystyrene ($\lambda = 0.040$)
- Mineral glass wool ($\lambda = 0.039$)
- Blown cellulose ($\lambda = 0.038$)
- Blown wood wool ($\lambda = 0.038$)
- Stone wool ($\lambda = 0.037$)
- Open-cell PUR foam ($\lambda = 0.037$)

Required insulation thickness (cm)
for $R=5.686 \text{ m}^2\cdot\text{K}/\text{W}$



System 10 Medium with Wollé P1500
 wool, thickness 10 cm $R = 5.686 \text{ m}^2\cdot\text{K}/\text{W}$,
 $U = 0.176 \text{ W}/\text{m}^2\cdot\text{K}$



Legend:

- 3. Wollé 4.
- Multistrat 5.
- Multistrat 6.
- Gold 7. Sealed
- air 8. Multistrat

System 10 ZEB Ready

Innovative thermal insulation ecosystem

Medium

The highest-performing package in the Isoflect Insulation portfolio, it includes the following products:

- Isoflect Roof Pro - diffusion membrane
- Wolle P800 - thickness 5 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)]
- Wolle P1500 - thickness 10 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)]
- Installation phase 1: two Multistrat and one Gold.
 - Multistrat is installed in two layers, with the aluminium facing the Wolle, and is fixed with 6 mm staples. At the edges it is brought down so that it is fixed beneath the perimeter profile and ensures airtight continuity.
 - Gold - installed directly onto Multistrat and fixed with 2.5 cm screws.
- Before the metal profile structure is installed, the Gold membrane is sealed with Power Tape adhesive tape
- Sealed air (resulting from the thickness of the metal profile structure), minimum height 3 cm
- Installation phase 2: one Multistrat
- Before the plasterboard panels are installed, the Multistrat membrane is sealed with Power Tape adhesive tape

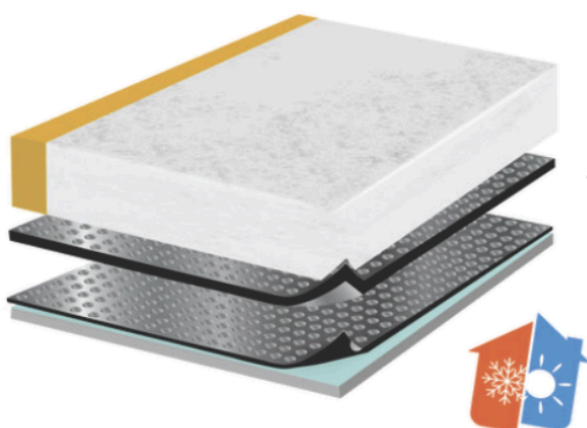
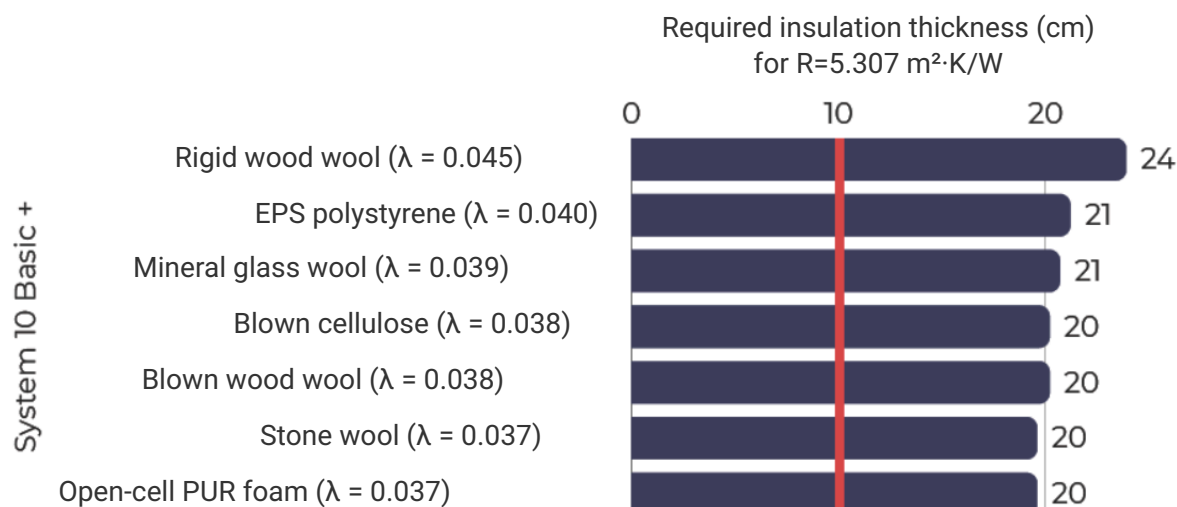
The table below contains the values calculated for thicknesses between 10 and 30 cm.

The package contains the following products: Wolle P1500 + Wolle P800 (as applicable), complete membrane package Phase 1* + Phase 2).**

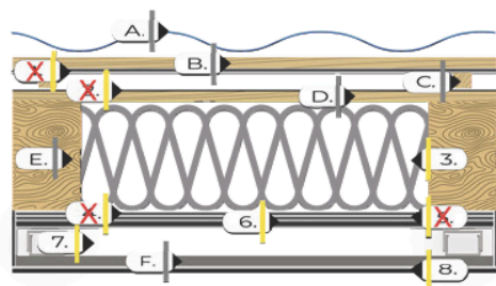
Total Wolle thickness	Wolle composition	R total system U-value [m ² ·K/W]	U-value [W/m ² ·K]	Total total system	Equivalent lambda
10	10 cm P1500	5.686	0.176	15.8	0.02779
15	10 cm P1500 + 5 cm P800	7.001	0.143	20.8	0.02971
20	20 cm P1500	8.317	0.12	25.8	0.03102
25	20 cm P1500 + 5 cm P800	9.633	0.104	30.8	0.03197
30	30 cm P1500	10.949	0.091	35.8	0.0327
35	30 cm P1500 + 5 cm P800	12.265	0.082	40.8	0.03327
40	40 cm P1500	13.58	0.074	45.8	0.03373

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System 10 Basic + with Wolle P1500 wool,
 thickness 10 cm $R = 5.307 \text{ m}^2\cdot\text{K}/\text{W}$, $U = 0.188 \text{ W}/\text{m}^2\cdot\text{K}$



Legend:

- 3. Wolle
- 6. Gold
- 8. Multistrat

System 10 ZEB Ready

Innovative thermal insulation ecosystem

Basic +

Advanced performance, lifetime warranty

- Wolle P800 - thickness 5 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)] Wolle P2100 - thickness 10 cm, thermal conductivity $\lambda=0.035$ [W/(m·K)]
- Phase 1 of installation: two Multistrat and one Gold.
 - Multistrat is installed in two layers, with the aluminium facing the Wolle, and is fixed with 6 mm staples. At the edges it is brought down so that it is fixed beneath the perimeter profile and ensures airtight continuity.
 - Gold - installed directly onto Multistrat and fixed with 2.5 cm screws.
- Before the metal profile structure is installed, the Gold membrane is sealed with Power Tape adhesive tape
- Sealed air (resulting from the thickness of the metal profile structure), minimum height 3 cm
- Installation phase 2: one Multistrat
- Before the plasterboard panels are installed, the Multistrat membrane is sealed with Power Tape adhesive tape

The table below contains the values calculated for thicknesses between 10 and 30 cm.

The package contains the following products: Wolle P2100 + Wolle P800 (as applicable), Gold in Phase 1* + Multistrat in Phase 2).**

Total Wolle thickness	Wolle composition	R total system U-value [m ² ·K/W]	U-value [W/m ² ·K]	Total total system	Equivalent lambda
5	5 cm P800	3.766	0.266	9.6	0.02549
10	10 cm P2100	5.307	0.188	14.6	0.02751
15	10 cm P2100 + 5 cm P800	6.623	0.151	19.6	0.02959
20	20 cm P2100	8.164	0.122	24.6	0.03013
25	20 cm P2100 + 5 cm P800	9.48	0.105	29.6	0.03122
30	30 cm P2100	11.021	0.091	34.6	0.03139
35	30 cm P2100 + 5 cm P800	12.337	0.081	39.6	0.0321
40	40 cm P2100	13.879	0.072	44.6	0.03214

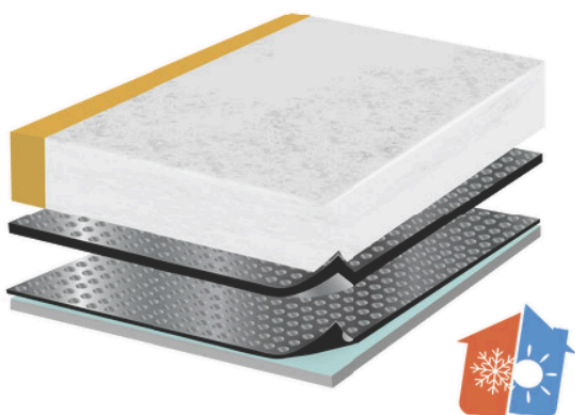
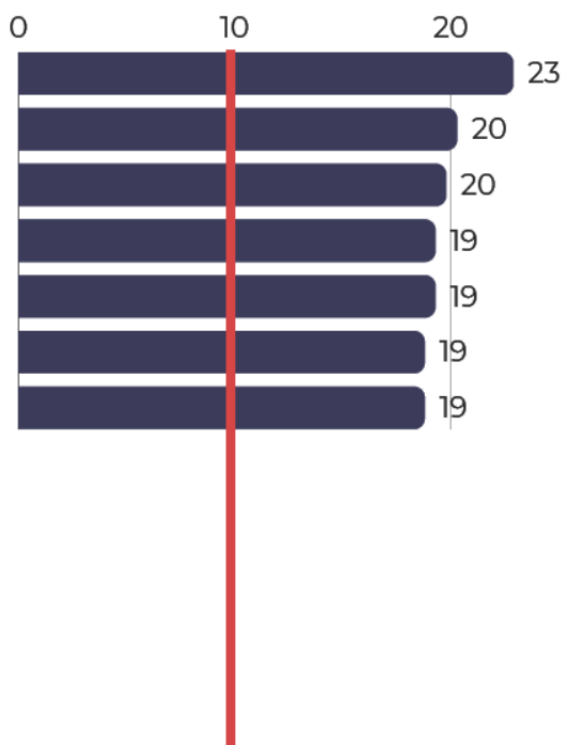
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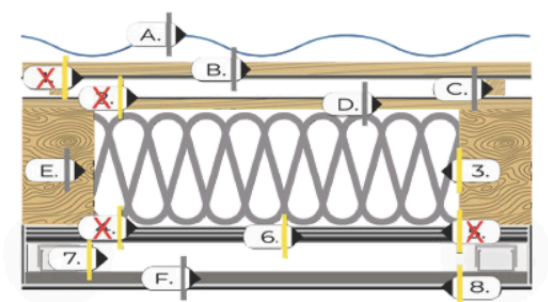
System 10 Basic

- Rigid wood wool ($\lambda = 0.045$)
- EPS polystyrene ($\lambda = 0.040$)
- Mineral glass wool ($\lambda = 0.039$)
- Blown cellulose ($\lambda = 0.038$)
- Blown wood wool ($\lambda = 0.038$)
- Stone wool ($\lambda = 0.037$)
- Open-cell PUR foam ($\lambda = 0.037$)

Required insulation thickness (cm)
for $R=5.082 \text{ m}^2\cdot\text{K}/\text{W}$



System 10 Basic with Wolle P1500 wool,
thickness 10 cm $R = 5.082 \text{ m}^2\cdot\text{K}/\text{W}$, $U = 0.176 \text{ W}/\text{m}^2\cdot\text{K}$



Legend:

- 3. Wolle
- 6. Gold
- 8. Multistrat

System 10 ZEB Ready

Innovative thermal insulation ecosystem

Basic

The highest-performing package in the Isoflect Insulation portfolio, it includes the following products:

- Isoflect Roof Pro - diffusion membrane
- Wolle P800 - thickness 5 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)]
- Wolle P1500 - thickness 10 cm, thermal conductivity $\lambda=0.038$ [W/(m·K)]
- Installation phase 1: two Multistrat and one Gold.
 - Multistrat is installed in two layers, with the aluminium facing the Wolle, and is fixed with 6 mm staples. At the edges it is brought down so that it is fixed beneath the perimeter profile and ensures airtight continuity.
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The table below contains the values calculated for thicknesses between 10 and 30 cm.

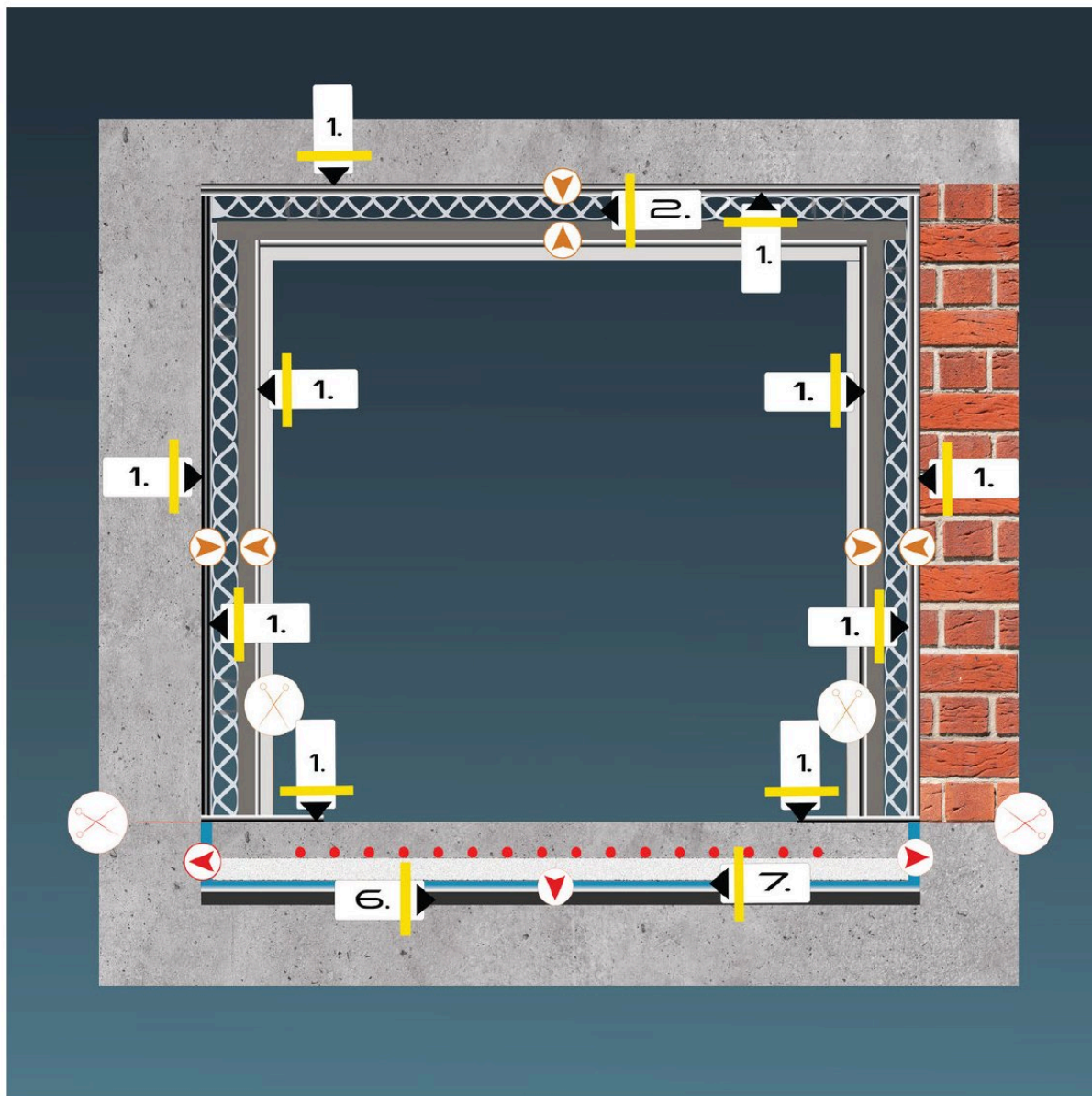
The package contains the following products: Wolle P2100 + Wolle P800 (as applicable), Gold in Phase 1* + Multistrat in Phase 2**).

Total Wolle thickness [cm]	Wolle composition	R total system [m ² ·K/W]	U-value [W/m ² ·K]	Total system thickness [cm]	Lambda equivalent [W/(m·K)]
10	10 cm P1500	5.082	0.197	14.6	0.02873
15	10 cm P1500 + 5 cm P800	6.397	0.156	19.6	0.03064
20	20 cm P1500	7.713	0.13	24.6	0.03189
25	20 cm P1500 + 5 cm P800	9.029	0.111	29.6	0.03278
30	30 cm P1500	10.345	0.097	34.6	0.03345
35	30 cm P1500 + 5 cm P800	11.661	0.086	39.6	0.03396
40	40 cm P1500	12.976	0.077	44.6	0.03437

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Case study notes



Legend:

- 1. Multistrat
- 2. Wolle
- 3. Vibra 9
- 4. Floor Pro

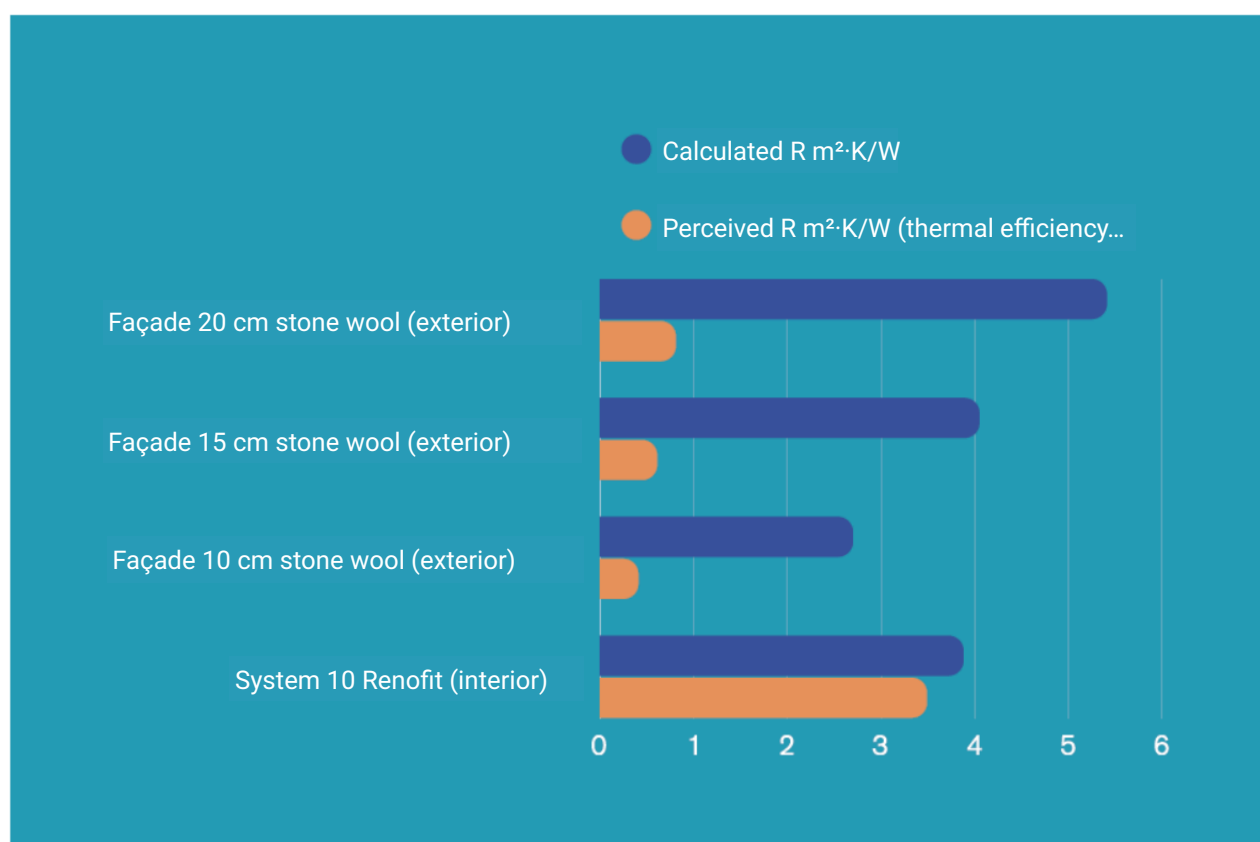


orientation of the aluminium foil side

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Case study notes

System 10 RenoFit with Wolle P800, thickness 5 cm $R = 3.88 \text{ m}^2\cdot\text{K}/\text{W}$, $U = 0.258 \text{ W}/\text{m}^2\cdot\text{K}$, equivalent $\lambda = 0.0258 \text{ W}/(\text{m}\cdot\text{K})$



The value is comparable in thermal and energy efficiency to 15-20 cm of insulation installed on the façade.

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RenoFit

System 10 installed on the interior stops energy loss before it reaches the masonry/concrete structure, which means real energy conservation of up to 90%. By comparison, external insulation can reduce the outward flow, but does not eliminate the massive thermal absorption in the structure, which remains the main invisible energy “hole”.

In practice

The calculation standards (e.g. SR EN ISO 6946, P100, C107) do not include the influence of energy distribution within the mass, but:

- treat all systems as if the materials functioned passively and statically, which does not reflect the direction of the heat flow and the interaction with the structural mass.
- in reality, an insulating layer placed on the interior dramatically changes the energy behaviour of the building – including:
 - heating times,
 - radiation control,
 - heating system efficiency.

Thermal bridges at the intersection of external walls with partition walls and floor/ceiling slabs

When insulating from the inside, interruptions appear in the insulating envelope at:

- partition walls (which intersect the insulated external wall), concrete slabs between
- floors (which penetrate the external wall from the inside), uninsulated interior walls
- connected to insulated external walls.

These areas become “thermal short circuits” through which heat escapes more rapidly to the outside, affecting:

- overall energy efficiency
- local thermal comfort (cold areas, condensation)
- risk of mould at corners and intersections

How do we solve the problem of thermal bridges?

Even if we do not wish to insulate all walls and ceilings continuously, we can resolve the issue of thermal bridges with an extremely simple solution: **we extend the insulation by 60-120 cm on all intersecting planes.**

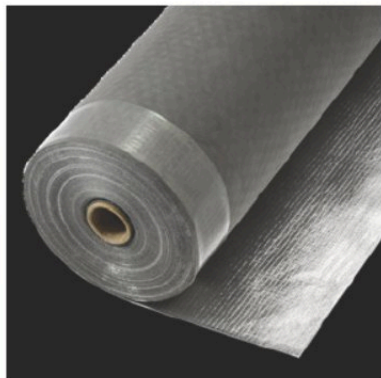
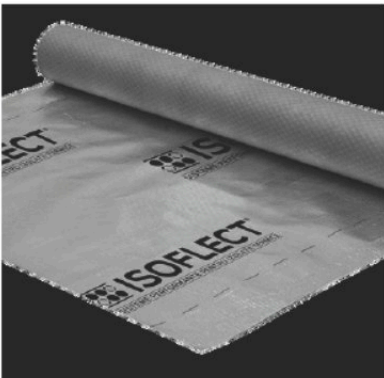
The major advantages of System 10 RenoFit insulation

- gain in usable space of the building, since we will have a larger surface area within the same external perimeter. The gain is approximately 0.12 m² per linear metre of external wall. At a cost of 2000 Euro per m² of usable area, the contribution of System 10 RenoFit is 240 Euro per linear metre of external
- wall. superior thermal efficiency
- and retains all its characteristics throughout the service life of the building, without requiring any maintenance
- exponentially increases the safety level of the building
- eliminates the costs associated with installing the façade thermal insulation system
- relative to the value gained from the usable area, it is the only product that pays for itself on the spot and brings a profit.
- genuine reintegration into the sustainability cycle, with ECO materials, made from recycled raw materials and reusable/recyclable
- if extended on all planes, sound insulation and superior comfort

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The component products of System 10

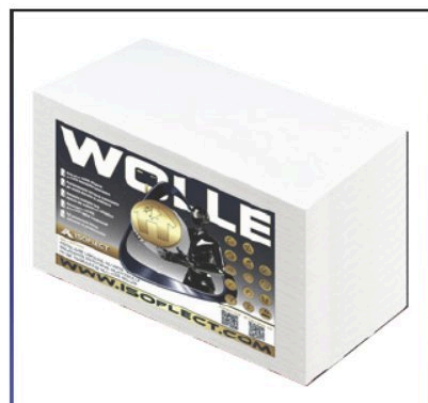


A special membrane that brings three novel elements:

- the aluminium foil
- double-sided adhesive tapes
- reinforcing mesh

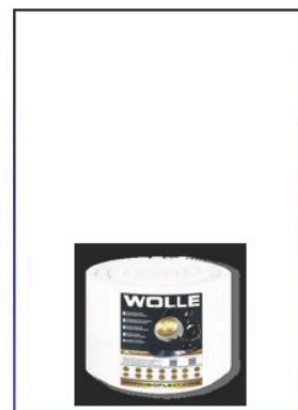
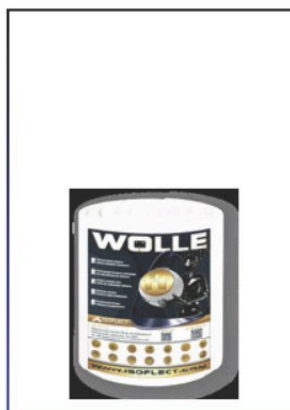
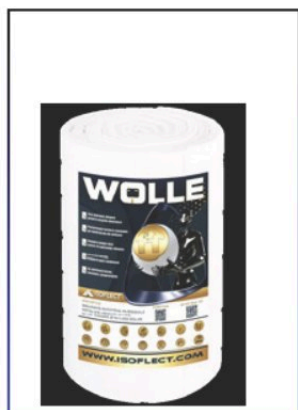
What we gain in addition: protection against thermal radiation, resulting in a temperature reduction of approx. 7 degrees Celsius, extended durability, perfect sealing, the possibility of installation without a roof boarding substrate, and extension to 120 days of the period of direct exposure to the weather.





A complete product suited to any thermal and acoustic insulation carried out indoors. Completely ecological, active in its capacity to protect indefinitely against mould formation, antibacterial and anti-allergenic, free of any chemical compounds that generate volatile chemical substances, durably resistant and stable, WOLLE represents the newest generation of volatile thermal insulation products.

Owing to all the characteristics mentioned above, it is the perfect insulation to live alongside. It is the only insulation that combines all these benefits: it has a positive influence on indoor air quality, is inert to moisture, high-performing and completely ecological, needs no replacement or repair, does not contribute dust, and is an integral part of System 10.





WOLLE

thermal insulation wool made of synthetic fibre, 100% ECO

Isoflect WOLLE is a latest-generation mineral thermal insulation wool, developed to meet the real requirements of modern buildings in terms of energy efficiency, health safety and long-term sustainability. Produced in over 14 variants of geometric dimensions and thermal conductivity values, WOLLE allows each project to be optimised precisely, reducing to a minimum the installation time and the amount of losses generated by cut-outs or offcuts. Its composition is completely free of added chemical substances. It contains no formaldehyde, isocyanates, toxic additives, synthetic flame retardants or volatile organic compounds. It does not emit radon, does not release harmful particles into the indoor air and does not contribute in any way to pollution of the built environment. It is a perfectly biologically inert insulation solution, which does not emit odours, does not irritate the skin and does not pollute the indoor air. Installation can be carried out without special protective equipment, in any type of space, including inhabited areas, without discomfort for users or for the installation teams. WOLLE has a stable structure, which does not settle and does not deform over time. This ensures that the thermal and acoustic insulation characteristics are preserved throughout the service life of the building, without progressive degradation. It is a material that allows the natural diffusion of water vapour, without retaining moisture and without promoting the occurrence of condensation or mould. It does not burn, does not sustain a flame and is classified in a superior safety class for use in residential, commercial or industrial spaces. WOLLE technical mineral wool does not require any type of chemical adhesive. It is produced by a physical process (melting and fibrillation) and is stabilised only mechanically, without emissions, without formaldehyde and without synthetic flame retardants. This is one of the most important safety and quality differentiators. WOLLE should not be confused with products already on the market that are communicated as being the same, but have almost nothing in common with it. We refer to insulation materials obtained from waste from automotive components, textiles, used mattresses and other sources. You can find the complete material on the next page.

Through the variety of dimensions available and its adaptability to different installation configurations, WOLLE contributes to more efficient, cleaner execution with considerably reduced material losses. It is light yet firm, rigid yet flexible, and easy to handle and fix in any position. WOLLE is the heart of the System 10 package, representing the basic component that supports the entire thermal, acoustic and functional performance of this integrated system. Without WOLLE, System 10 would not be able to achieve its remarkable insulation values and stability over time. It is the essential element that links technology, comfort and health. One of the most important assets of Isoflect WOLLE wool is its almost zero impact on the environment. This is possible thanks to several concrete factors: the raw material used comes from recycled sources, the technological process is energy-efficient and requires no additional water or chemical substances, and the final product is completely recyclable. In addition, its service life, which coincides with the service life of the building, completely eliminates the need for replacement or repair, thereby reducing the ecological footprint associated with long-term maintenance, transport or waste generation. All these characteristics converge towards one essential point: WOLLE is the only volumetric insulation that you can keep in your home without any concern, that you can install in the space where you live, sleep, work or raise your children, without fear of having introduced into your home a source of discomfort or risk. It is a material that works without being seen, but which permanently protects your health, comfort and resources. Once installed, it remains in place, without requiring checks, replacements or adjustments. WOLLE is a definitive insulation.

The essential differences between a high-purity technical mineral wool and insulating materials based on textile fibres recycled from various waste. The thermal insulation market currently offers several types of products that appear similar in function but differ profoundly in structure, composition and behaviour over time. Some of these are made from textile fibres originating from post-consumer waste: recycled textiles from the automotive industry, discarded furniture, old mattresses, carpets, clothing or other components obtained through dismantling. To achieve mechanical cohesion between the fibres, manufacturers resort to adhesives and chemical binders, including synthetic flame retardants, which can conceal the natural flammability of the composite material. The real problem arises when such products are used in residential construction or in interior spaces without a proper assessment of their behaviour in the event of fire or of their impact on the health of the indoor air. Although some of these materials are promoted as ecological owing to their recycled content, it must be noted that recycling in itself is not a sufficient argument in the absence of strict control of the source and of the chemical composition. The textile waste used may contain traces of unknown substances, industrial additives, toxic dust, remnants of polyurethane foam or even biological traces. In the absence of an advanced purification process, the resulting materials may become sources of hazardous emissions, including formaldehyde or volatile organic compounds. Another problematic aspect is the behaviour in fire.

Independent tests have shown that some of these products burn quickly and violently, despite their declared classification in higher reaction-to-fire classes. This is explained both by the organic nature of the fibres, combined with the presence of flammable chemical substances in the adhesives or in the original textile materials, and by uncontrollable fluctuations in the initial formulation. Although they are sometimes declared as classified in class B, their real behaviour in contact with flame may resemble that of a torch, producing open flame, dense smoke and rapid spread. By contrast, high-purity technical mineral wool, such as that used in the Isoflect system, is made from stable mineral fibres, without chemical additives, without synthetic flame retardants, without formaldehyde, without radon and without volatile emissions. Its structure is inert and non-combustible, and its behaviour in fire is predictable: it does not sustain combustion and melts slowly, without flame and without releasing toxic substances. This type of material is suitable for inhabited spaces, being completely safe for human health and indoor air. In conclusion, when an insulating material is chosen solely on the basis of price, without understanding the structural, sanitary and fire-safety implications, the risks may be considerable. Products made from recycled textile materials, even if promoted as sustainable, cannot be considered equivalent to pure technical mineral wool in terms of quality, durability or the protection offered. The differences are fundamental and directly affect the health of occupants, the behaviour of the building in service and the overall level of safety.

Among the sources:

Our own in-depth studies, conducted continuously since 2009, on all materials, raw materials and chemical compositions added in the production processes of all types of materials and raw materials used in the field of thermal and acoustic insulation.

<https://www.sciencedirect.com>

<https://pubchem.ncbi.nlm.nih.gov>

<https://annals.fih.upt.ro/pdf-full/2023/ANNALS-2023-3-07.pdf>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9318620/>

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<https://www.cancer.org/cancer/risk-prevention/chemicals/formaldehyde.html?>

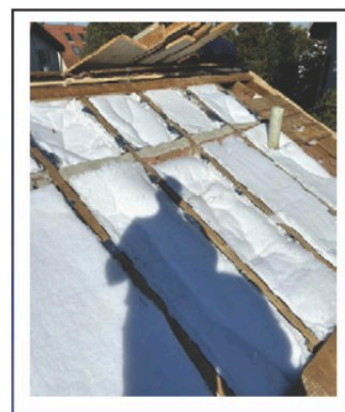
<https://www.epa.gov/indoor-air-quality-iaq/volatile-organic-compounds-impact-indoor-air-quality?>

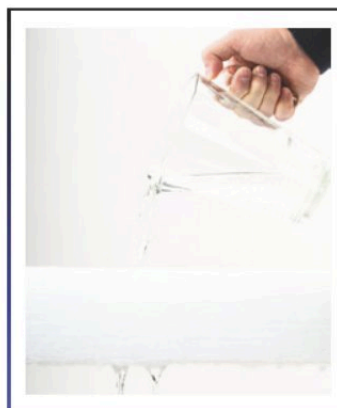
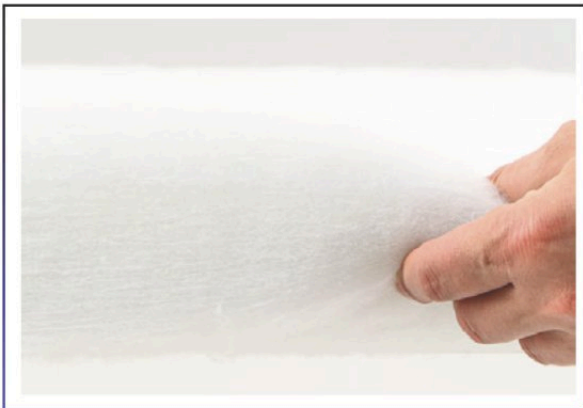
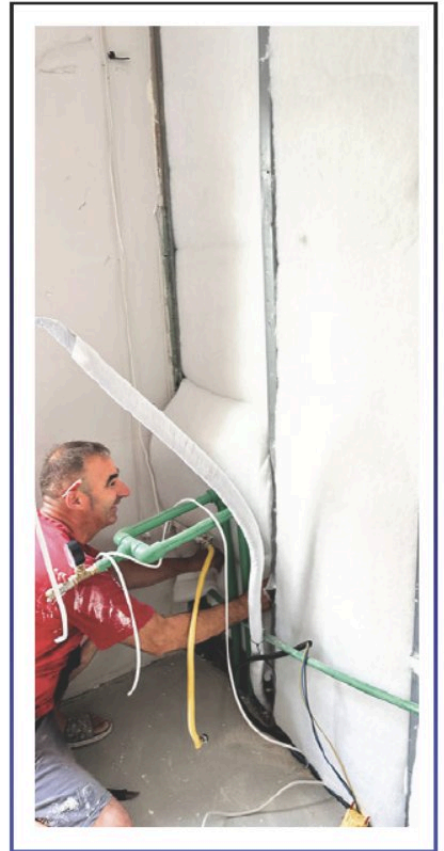
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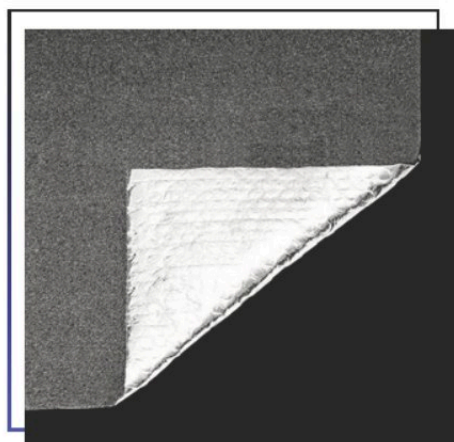
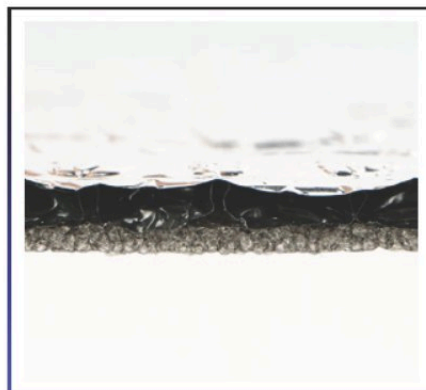
<https://factor.niehs.nih.gov/2023/1/papers/dir>

<https://www.niehs.nih.gov/health/topics/agents/indoor-air>

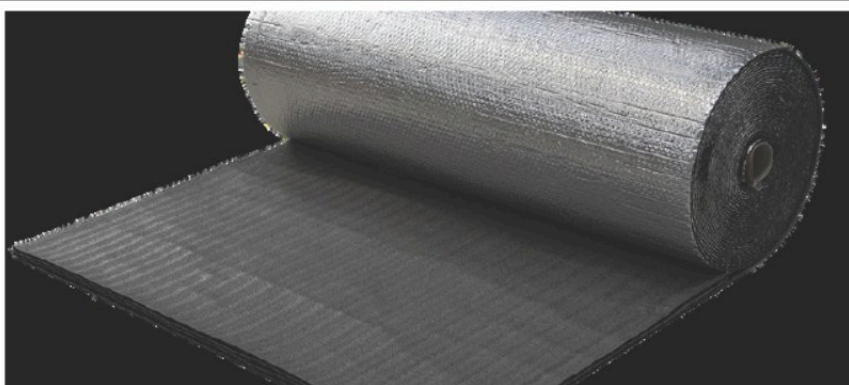
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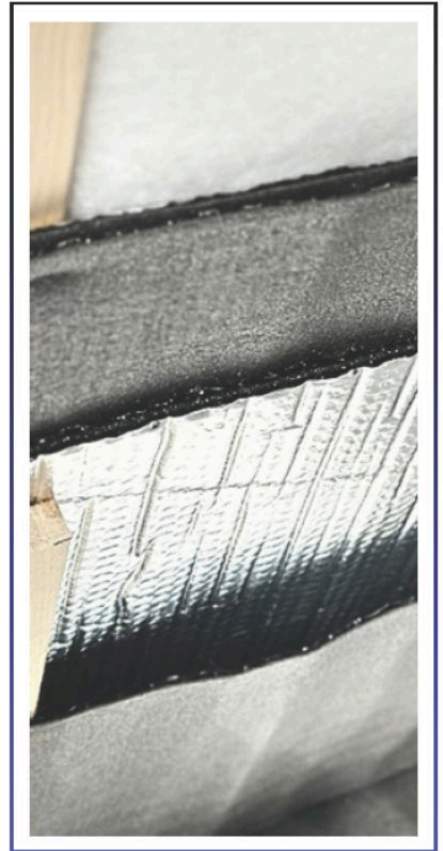




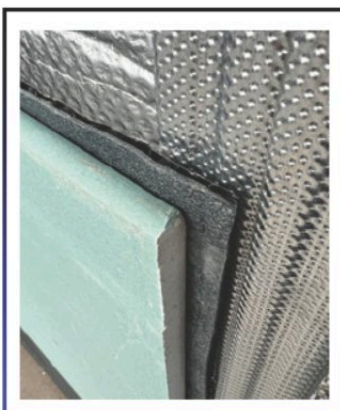
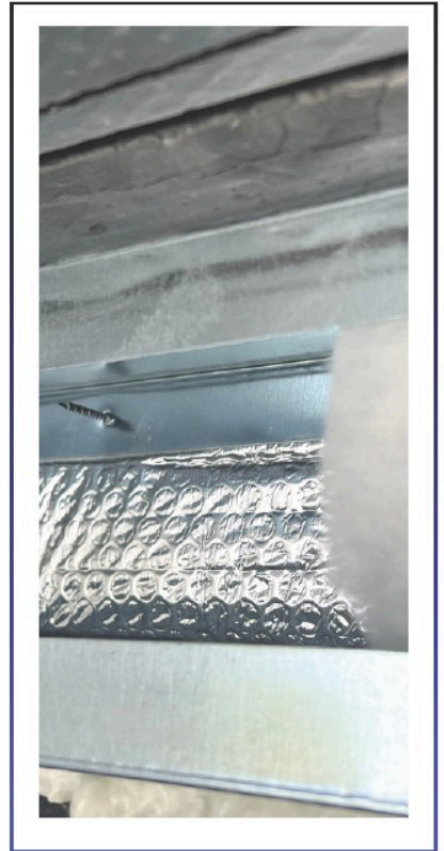
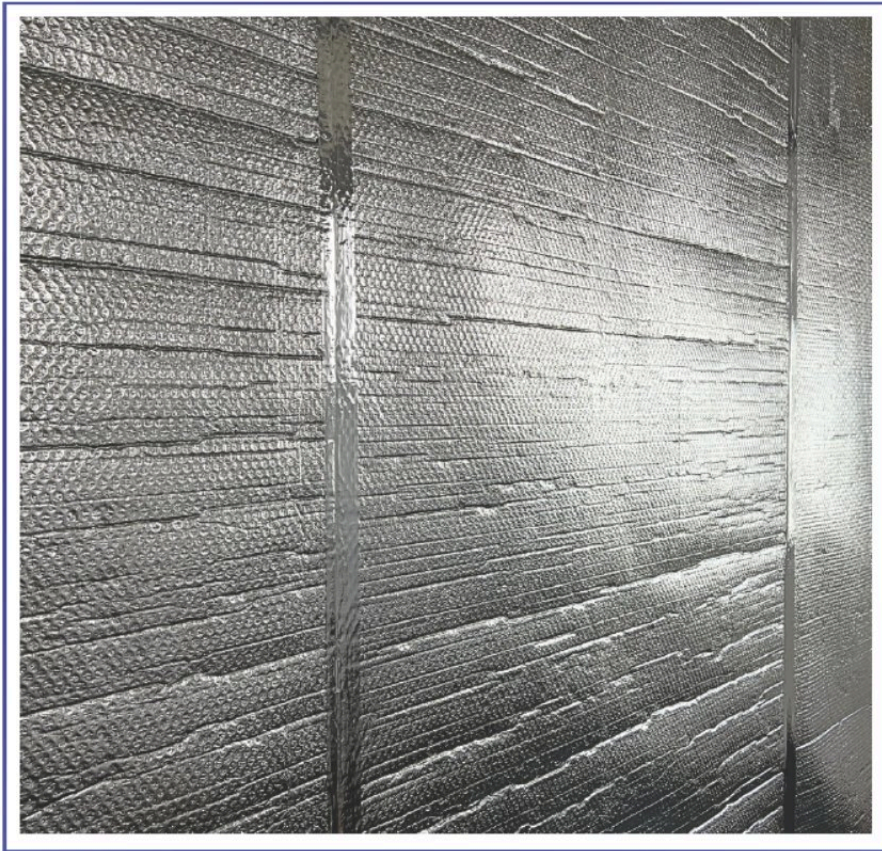


Isoflect Multistrat is a thermal insulation membrane from the Reflectiva Range, designed to deliver high thermal performance with direct installation on any type of substrate, without the need for an intermediate air layer. It is applied effortlessly on plasterboard, OSB, roof boarding, concrete, brick or plaster, retaining the same efficiency regardless of the nature of the surface. It is part of the complete System 10 insulation systems and is used both in Phase I, where it is installed in two layers together with the Gold membrane, and in Phase II, in a single additional layer, which completes the reflective interior barrier. Multistrat is the only product of this type that manages to eliminate completely the need for an air layer between the aluminium foil and the rigid substrate, without losing any performance. This property makes the product a unique, easy-to-apply and extremely efficient solution, even in atypical or hard-to-access spaces.

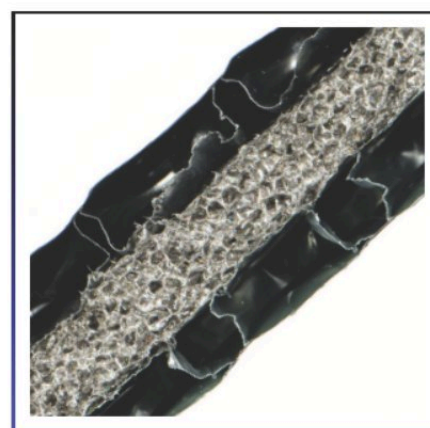
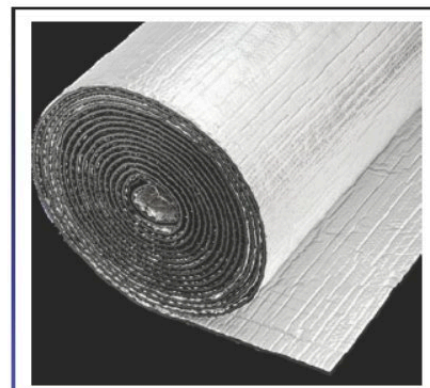




Owing to its technical structure and manufacturing technology, Multistrat performs perfectly across a wide temperature range, from -40 to +60 degrees Celsius, remaining stable, safe and durable under all conditions. As its name indicates, Multistrat allows installation in several successive layers, significantly increasing the total thermal resistance and reaching values that are hard to match with any other type of thermal insulation membrane available on the market. As its name indicates, Multistrat allows installation in several successive layers, significantly increasing the total thermal resistance and reaching values that are hard to match with any other type of thermal insulation membrane available on the market.



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A special membrane that brings three novel elements:
 the aluminium foil
 double-sided adhesive tapes
 reinforcing mesh

What we gain in addition: protection against thermal radiation, resulting in a temperature reduction of approx. 7 degrees Celsius, extended durability, perfect sealing, the possibility of installation without a roof boarding substrate, and extension to 120 days of the period of direct exposure to the weather.



Owing to all the characteristics mentioned above, it is the perfect insulation to live alongside. It is the only insulation that combines all these benefits: it has a positive influence on indoor air quality, is inert to moisture, high-performing and completely ecological, needs no replacement or repair, does not contribute dust, and is an integral part of System 10.



Power Tape is an adhesive tape 10 cm wide with a wider working temperature range, designed to ensure the long-term sealing of the joints of the thermal insulation membranes from the Reflectiva Range.



Wolle Sword is the only tool with which the 10 cm thickness can be cut quickly. We recommend it for any project in which Wolle thermal insulation wool is installed.

System 10 ZEB Ready

Innovative thermal insulation ecosystem

System 10 is not a simple insulation system.

It is part of what we call hidden architecture – the invisible but essential layer of a well-built construction.

You cannot see it, but you can feel it.

In perfect thermal comfort, in clean air, in the quietness of the structure.

And most importantly – you never want to have to touch it again. That is why the choice must be final, responsible and clear.

System 10 is the only complete solution that ensures top thermal performance, with record R and U values, is 100% non-VOC, free of toxic emissions or hazardous additives, does not promote condensation or mould, regardless of the season, actively protects the structure in the event of fire and is designed to last a lifetime, with a guarantee to that effect.

If you are an architect, work in the field of insulation or run a business in sustainable construction, if you are a developer or end beneficiary and want to choose once and well – System 10 is the choice you make only once and feel forever.