

Performance Guide

Our range of mineral wool products is based on ULTIMATE, glass wool and stone wool materials providing outstanding thermal insulation performance with the high temperature stability required for thermal solar collectors.

Choose the product that best fits your needs

Application	No outgassing	Limited dust	Low weight	Mechanical strength in compression & bending	Flexible logistics (storage/transport)	High temperature resistance
ULTIMATE	+++	+++	+++	++	+++	+++
Glass wool	+++	++	+++	++	+++	++
Stone wool	+++	+	+	+++	+	+++

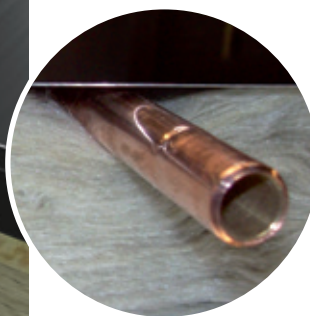
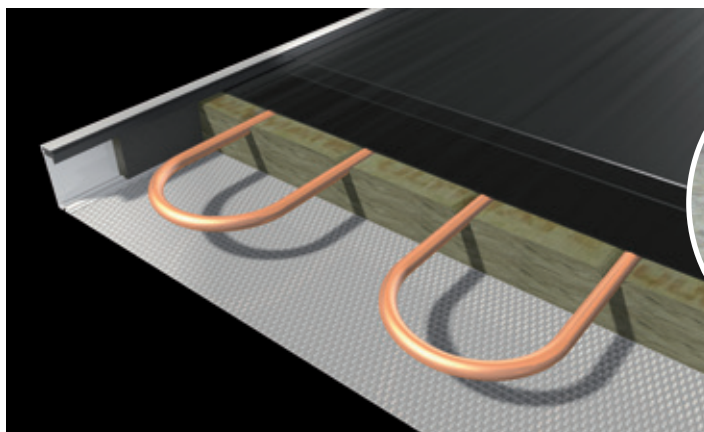


Thermal insulation – For efficient solar energy generation

With ISOVER ULTIMATE or glass wool products it is possible to achieve the same thermal insulation values at just about 50% of the weight of traditional stonewool material – a significant benefit for system designers and installers.

Efficiency Optimization

Moreover, the natural flexibility and resilience of ULTIMATE and glass wool fit perfectly to the absorber shapes by enveloping the tubes. Avoiding any space gap, the thermal performance is even more efficient compared to traditional stone wool products.



The ULTIMATE and glass wool insulation products fit the absorber perfectly

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Thin Solar Collector Solutions

Product	Density	Lambda value mW/(m•K) at 10°C	Thickness to reach thermal resistance R=1
U Solar 1.5	15 kg/m ³	37	37 mm
U Solar 2.0	20 kg/m ³	34	34 mm
U Solar 2.5	25 kg/m ³	33	33 mm

-10%



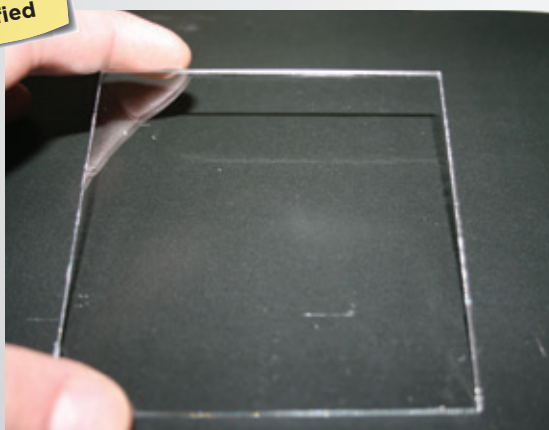
Best light transmittance, without fogging

Whilst the service temperature of a solar collector can go up to 150°C, stagnation (slow circulation of the calorific fluid due to low hot water consumption or system failure) can raise the temperature inside the collector up to 250°C.

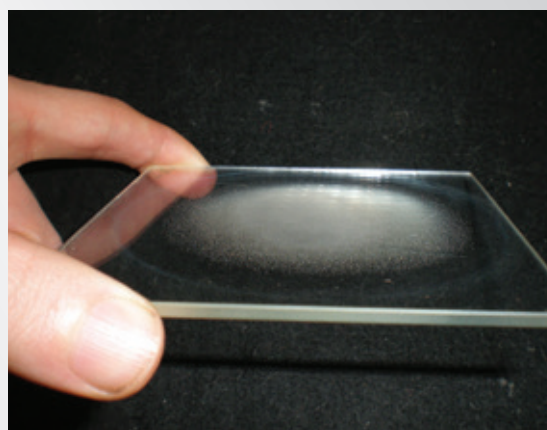
ISOVER Solar products are specially designed to avoid any fogging deposit or any condensation on the glazing even at 250°C and over a period of 150 hours.



No Fogging



With Fogging



Environment, Health & Safety



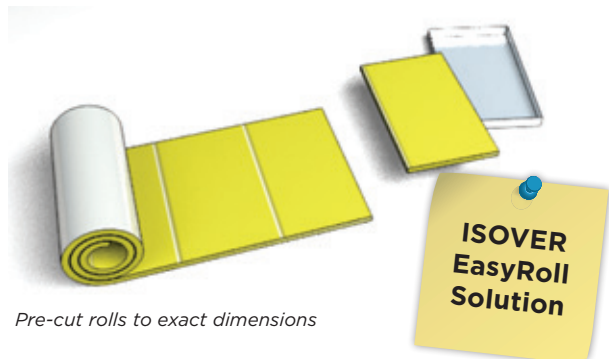
Easy handling, user-friendly insulation with ISOVER Solar



Excellent logistics efficiency and flexibility by high compressed products



Reduction of CO₂ emissions thanks to space savings in the truck



Pre-cut rolls to exact dimensions



ULTIMATE & glass wool compression



All ISOVER mineral wools are bio soluble and 100% recyclable, made entirely of natural raw materials. Our solar glass wool products are elaborated with up to 80% recycled material.

Performing LCA on its glass wool products since 1994, ISOVER is your experienced partner for eco-design solutions.



ISOVER mineral wools are non-carcinogenic in accordance with EU criteria. They are certified by the EUCB and RAL quality labels "Products made of mineral wool".



LCA (Life Cycle Assessment) =
All steps of a product's life cycle, from production / extraction until removal / reuse.

