



INNOVATION

UdiRECO® SYSTEM

**external thermal insulation composite system
with integrated levelling compensation**



The UdiRECO® SYSTEM

is also the ideal solution for solid timber constructions. The system provides a wind-tight seal by adapting to the shape of the surface of the foundation substrate. It can compensate for differences in the level of this surface of +/- 2cm. In doing so it eliminates problems caused by back-draughts behind the insulation layer which reduce the efficiency of the insulation and may lead to the hidden build-up of condensation. The time saved is considerable. Complicated bearer frameworks are unnecessary and delays due to drying-out times and the possibility of moisture ingress from fresh render repairs are also avoided.

UdiSD RECO® Adjustable Fixing

Newly developed fixings with an extraction sealing mechanism for attaching the insulation boards to the foundation substrate; Available for timber and masonry substrates.

Technical data

Thermal conductivity	
Declared value	0.041 W/mK
Vapour diffusion resistance μ	5
Condensation retention capacity	ca. 20 % of own weight
Specific enthalpy capacity c	2100 J/kg/K
Longitudinal flow-resistance as a complete system	> 5 kNs/m4
Apparent density	ca. 55/ 240 m ³
Fire classification DIN 4102-1	B2
Euro class DIN EN 13501-1	E

Dimensions

Format 1,300 x 790 mm
Tongue and groove around the whole circumference
Insulation thicknesses: 120, 140, 160, 180 and 200 mm
(other insulation thicknesses available upon request)

Delivery form

Delivered on pallets; weather-resistant packaging (not waterproof)

The UdiRECO® SYSTEM Insulation Board in detail

- 40 mm render-bearer insulation board in combination with a flexible wood-fibre insulation board (wall-facing);
- Newly developed fixings with an extraction sealing mechanism for attaching the insulation boards to the foundation substrate; Available for timber and masonry substrates.
- The insulation boards are coated with Unger-Diffutherm's specially developed **UdiFOUNDATION COAT®** and **UdiREINFORCEMENT® Strengthening mesh** to hinder the development of surface cracks.
- The system is finished with a high performance, fine quality render coating from the **UdiPERL®** range. This is available in a large choice of textured and structured finishes and in over 100 shades from the **UdiCOLOR® SYSTEM**.

Installation information

→ 1. Installation - with the benefit of integrated levelling compensation

The first step is to affix a horizontal bearer batten to the foundation substrate to provide support for the lower edge of the insulation layer. The **UdiRECO® SYSTEM** sandwich insulation boards are installed offset to one another from the bottom to the top of the substrate using our newly developed, finely-adjustable **UdiSD RECO® Adjustable Fixings**. This provides a permanently wind-tight and storm-proof façade. Our system ensures a level surface even on crooked and uneven walls. The lower edge is then finished using our rain-proof, thermally-decoupled end cap profile.





→ **2. Foundation strengthening mesh**

The foundation coating provides the sandwich insulation boards with extra stability and weather-proofing properties. The specially designed **UdiFOUNDATION COAT®** is applied in combination with a strengthening mesh to cover any cracks. This is the basis for a lasting, crack-free finishing coat.



→ **3. Surface finishing**

Finally, after the foundation coat has dried, the installation is completed with the application of your specially selected structured render in the colour of your choice. The render surface is then artistically finished by the licensed installer. You will feel the benefits of the **UdiRECO®SYSTEM** although you will only see the beautiful, new structured render.

UdiRECO® NF Exterior insulation system with levelling compensation. Tongue & groove edges. Direct renderable.

195120	120 mm, 130 x 79 cm	1 Board	13 Pcs/	13.35 m ²	m ²
155140	140 mm, 130 x 79 cm	1 Board	11 Pcs/	11.30 m ²	m ²
195160	160 mm, 130 x 79 cm	1 Board	10 Pcs/	10.27 m ²	m ²
195180	180 mm, 130 x 79 cm	1 Board	9 Pcs/	9.24 m ²	m ²
195200	200 mm, 130 x 79 cm	1 Board	8 Pcs/	8.22 m ²	m ²

UdiASSEMBLY® SDH RECO (Adjustable fixing - Timber)

155040	For 40 mm Insulation , 70 mm long	100 Pcs	From 1,000 Pcs	Piece
155060	For 60 mm Insulation , 90 mm long	100 Pcs	From 1,000 Pcs	Piece
155080	For 80 mm Insulation , 110 mm long	100 Pcs	From 1,000 Pcs	Piece
155100	For 100 mm Insulation , 130 mm long	100 Pcs	From 1,000 Pcs	Piece
155120	For 120 mm Insulation , 150 mm long	100 Pcs	From 1,000 Pcs	Piece
155140	For 140 mm Insulation , 180 mm long	100 Pcs	From 1,000 Pcs	Piece
155160	For 160 mm Insulation , 200 mm long	100 Pcs	From 1,000 Pcs	Piece
155180	For 180 mm Insulation , 220 mm long	100 Pcs	From 1,000 Pcs	Piece
155200	For 200 mm Insulation , 240 mm long	100 Pcs	From 1,000 Pcs	Piece

UdiASSEMBLY® SDM RECO (Adjustable fixing - Masonry) for solid/perforated + porous concrete blocks

156040	For 20 mm Insulation, 120 mm long	100 Pcs	From 1,000 Pcs	Piece
156060	For 40 mm Insulation, 140 mm long	100 Pcs	From 1,000 Pcs	Piece
156080	For 60 mm Insulation, 160 mm long	100 Pcs	From 1,000 Pcs	Piece
156100	For 80 mm Insulation, 180 mm long	100 Pcs	From 1,000 Pcs	Piece
156120	For 100 mm Insulation, 200 mm long	100 Pcs	From 1,000 Pcs	Piece
156140	For 120 mm Insulation, 220 mm long	100 Pcs	From 1,000 Pcs	Piece
156160	For 140 mm Insulation, 240 mm long	100 Pcs	From 1,000 Pcs	Piece
156180	For 160 mm Insulation, 260 mm long	100 Pcs	From 1,000 Pcs	Piece
156200	For 180 mm Insulation, 280 mm long	100 Pcs	From 1,000 Pcs	Piece

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Both we and our specialist merchants are always happy to provide you with a personal service to answer any questions you may have. Don't hesitate to contact us.