

## STEICO *protect dry* external thermal insulation composite system



- Particularly robust and durable
- Excellent insulation properties in winter and summer
- Both water repellent and vapour permeable for robust constructions
- Large variety of formats and thicknesses from 40 to 240mm
- Suitable for air-injected insulation from 40mm thick
- Available in large format boards for off-site construction
- Extensive catalogue of construction details available
- Manufactured with fresh softwood - sustainable climate protection through CO<sup>2</sup> storage

### Application area



- Types M & H: External insulation for timber frame construction to accept direct render
- (STEICOProtect L dry / 037) External insulation for full-surface mineral substrates to accept direct render'
- Windproof tongue and groove connection (if available)

### Fields of application according to DIN 4108 - 10: 2021

protect L dry:

- WAB (dk, dg, dm)
- WAP <sup>b) c)</sup> (zk, zg, zh)

### Technical data

Produced and supervised according to	EN 13171, EN 14964
Board designation	Type L dry/037: WF - EN 13171 - T5 - DS(70,90)3 - CS(10\Y)50 - TR10 - WS1,0 - MU3
Fire class (RTF) according to EN 13501-1	E
Permanent temperature range [°C]	≤100
Declared thermal conductivity [W/(m*K)]	0,037;
Density [kg/m <sup>3</sup> ]	approx. 110
Water vapour diffusion resistance factor μ	3
Specific heat capacity [J/(kg*K)]	2,100
Compression strength [kPa]	50
Tensile strength perpendicular to face [kPa]	10
Manufacturing process	dry process / utilization polyurethane resin for panel bonding (approx. 5%)
Ingredients	wood fibre, polyurethane resin, paraffin wax
European Waste Code (EWC)	030105/170201, disposal as wood and wood-based materials, waste wood category A II
Outdoor exposure	4 weeks
Bonded carbon [kg CO <sub>2</sub> equivalent./m <sup>3</sup> ]	160

## Additional technical data

Thickness [mm]	Type	Declared thermal resistance [(m <sup>2</sup> *K)/W]	s <sub>d</sub> value [m]
60	L dry/037	5.40	0.60
80	L dry/037	5.90	0.66
100	L dry/037	2.70	0.30
120	L dry/037	3.20	0.36
140	L dry/037	3.75	0.42
160	L dry/037	4.30	0.48
180	L dry/037	4.85	0.54

## Forms of delivery

Handy formats, especially for flat and solid undergrounds

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Number/pal. [pcs.]	Coverage/pal. gross [m <sup>2</sup> ]
60	L dry/037	SE	1300	560	36	26.208
80	L dry/037	SE	1300	560	26	18.928
100	L dry/037	SE	1300	560	22	16.016
120	L dry/037	SE	1300	560	18	13.104
140	L dry/037	SE	1300	560	14	10.192
160	L dry/037	SE	1300	560	12	8.736
180	L dry/037	SE	1300	560	12	8.736

## Weight and packing

Handy formats, especially for flat and solid undergrounds

Thickness [mm]	Type	Edge profile	Length [mm]	Width [mm]	Weight/m <sup>2</sup> [kg]	Weight/pcs. [kg]	pac./pal. paper/cardboard (approx) [kg]	pac./pal. plastic (approx) [kg]	pac./pal. wood (approx) [kg]	Weight./pal. (approx.) [kg]
60	L dry/037	SE	1300	560	6.60	4.8	0.10	0.8	20.3	200
80	L dry/037	SE	1300	560	8.80	6.4	0.10	0.8	20.3	190
100	L dry/037	SE	1300	560	11.00	8.0	0.10	0.8	20.3	200
120	L dry/037	SE	1300	560	13.20	9.6	0.10	0.8	20.3	200
140	L dry/037	SE	1300	560	15.40	11.2	0.10	0.8	20.3	185
160	L dry/037	SE	1300	560	17.60	12.8	0.10	0.8	20.3	180
180	L dry/037	SE	1300	560	19.80	14.4	0.10	0.8	20.3	200

## Notes

### Storage

- Store wood fibre boards horizontally, flat and dry
- Protect edges from damage
- Only remove the film packaging when the ambient climate is dry and keep the pallet packing label
- Maximum stacking height: (protect H dry) 4 pallets / (Protect M dry) 3 Pallets / (Protect L dry) 2 Pallets

### Disposal

- Disposal of offcuts: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II
- Disposal after dismantling: Waste code (EWC / AVV) 170201/030105, disposal as wood and wood-based materials, waste wood category II

### Cutting

- The boards can be cut to size using the STEICO *isoflex cut combi* cutting table, band saw, circular saw, jigsaw and other wood-cutting tools.

### Occupational health and safety

- Comply with local regulations for the processing of wood-fibre material.
- Suitable protective measures must be taken when cutting the wood fibre insulation boards. (dust extraction, dust mask)

### Building moisture

- Wood fibre insulation boards are delivered dry. On building sites a material moisture level is reached that allows immediate plaster coating.
- In the event of prolonged damp weathering with driving rain, or in periods of very high humidity, the material moisture content of the wood fibre insulation boards that have not yet been plastered increase significantly. Before plastering, a limit moisture content of the wood fibre insulation board of 13 % must be maintained.
- For renovations and new buildings made of mineral building materials a high core moisture content of the substrate must be avoided.

## Installation

### Installation as a plaster base board

Under <http://www.steico.com/en/technical-installation> or the enclosed QR code, you will find the processing instructions for this product under the category „processing instructions STEICO ETICS“.  
(Installation instructions facade insulation)

### Additional information

- STEICO *protect dry* with **T&G** has a water-repellent surface - can be used without additional weatherproof membranes behind rear-ventilated façades
- The maximum weight of the entire render system is 25kg
- Gluing clinker brick slips onto the plaster base board / plaster system is not permitted
- This document is based on the German technical data sheet and is intended for general information purposes in an international context. National regulations and building codes must be additionally observed.



## Certificates and quality management



☰ Caption

**Fields of application**

**Wall**

**WAB** External insulation of the wall behind the cladding <sup>b)</sup>

**WAP** External insulation of the wall under rendering <sup>b) c)</sup>

b) Also for application from below against outside air.

c) Application area/abbreviation WAP does not apply for integration into the ground and for insulation boards in external thermal insulation composite systems (ETICS). ETICS are not a standardized application.

**Differentiation of certain product features:**

**Pressure resistance**

**dk** No compressive strength

**dg** Low compressive strength

**dm** Medium compressive strength

**dh** High compressive strength

**ds** Very high compressive strength

**Tensile strength**

**zk** No requirements for tensile strength

**zg** Low tensile strength

**zh** High tensile strength

**other abbreviations**

**pal.** Pallet

**T&G** Tongue and Groove

**pac.** Packaging

**approx.** Approximately

**SE** square edge

**Pcs.** Pieces