



## TECHNICAL DATA SHEET

# EJOTHERM<sup>®</sup> H1

## 1. PRODUCT DESCRIPTION

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Universal impact dowel consisting of plastic dowel with plastic plate and pre-assembled composite nail (steel/polyamide) plastic screw.

European Technical Assessment (ETA): ETA-11/0192

## 2. FIELD OF APPLICATION

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For the surface-flush installation of insulation panels in KEIM WDV systems in accordance with system approval: Z-33.43-185 ; Z-33.46-1187 ; Z-33.41-45 ; Z-33.41-188, Z-33.43-942; Z-33.49-1505.

Generally approved by building authorities for: exterior walls; window and door reveals

Suitable for: Masonry or concrete, rendered and unrendered; ETICS upgrade system.

ejotherm H1 is suitable for dowelling fire bars.

## 3. PRODUCT PROPERTIES

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- Efficient setting times
- especially economical
- easy and fast processing
- pre-mounted composite nail
- Universally applicable, suitable for all substrates (use category A, B, C, D, E)
- Short anchorage depth, minimum borehole depth
- Easy installation: drive in, fasten, done!
- With metal expansion element - suitable for fire bars

### MATERIAL CHARACTERISTICS:

- |   |                 |
|---|-----------------|
| - Use categories according to ETA:      | A, B, C, (D, E) |
| - Dowel length:                         | 95 - 295 mm     |
| - Plate diameter:                       | 60 mm           |
| - Dowel diameter:                       | 8 mm            |
| - Anchorage depth:                      | 25 mm (45) mm   |
| - Drill hole depth, flush installation: | 35 mm (55) mm   |
| - Colour shade:                         | white           |

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

To use the anchor on substrates that do not fall into the approved use categories, anchor pull-out tests must be carried out on the building and documented.

Check the adhesion of the insulation panels after at least 3 days. Insulation panels that are not bonded or damaged must be replaced.

### APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying from min. 0 °C to 40 °C. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

## TECHNICAL DATA SHEET – EJOTHERM® H1

### APPLICATION:

Combinable with the dowel plates ejotherm VT 90 and ejotherm SBL 140 plus. Drill the hole at right angles to the surface of the anchoring base.

The drill hole must be at least 10 mm deeper than the minimum anchorage depth.

Remove drill dust from the drill hole.

### DOWELING:

Anchoring is carried out in glued and dowelled ETIC systems with generally approved ETICS fasteners according to DIN EN 1991-1-4/NA. The required fastener quantity depends on the building height and the respective wind zone in which the object is located. In only glued ETIC systems, constructive anchoring with suitable ETICS anchors is permissible. For further information, please refer to our ETICS Technical Guide, Chapter #8, ETICS Wind Suction Loads. The minimum distance between anchor shank and board edge is min. 150 mm, the minimum distance between anchor shank and anchor shank is min. 200 mm. Before setting the anchor, the ejotherm H1 must be pushed over the anchor shaft onto the anchor plate and, if necessary, locked into place.

In the base area, the perimeter and base insulation panels can additionally be mechanically fastened with ETICS fasteners approved by the building authorities. The minimum number of fasteners is 4 fasteners/m<sup>2</sup>. In the area of the vertical structural sealing (up to 150 mm above ground level), the insulation panels must not be dowelled.

### AFTERTREATMENT:

Anchors that do not grip in the substrate must be removed and anchored in a new drilled hole.

## 5. PACKAGING / TECHNICAL DATA

Dowel length [mm]	Panel thickness [mm]	Drill hole depth, flush installation	Pieces per unit
95	40 (-)*	35 mm (55 mm)	100
115	60 (20)*	35 mm (55 mm)	100
135	80 (40)*	35 mm (55 mm)	100
155	100 (80)*	35 mm (55 mm)	100
175	120 (100)*	35 mm (55 mm)	100
195	140 (120)*	35 mm (55 mm)	100
215	160 (140)*	35 mm (55 mm)	100
235	180 (140)*	35 mm (55 mm)	100
255	200 (160)*	35 mm (55 mm)	100
275	220 (180)*	35 mm (55 mm)	100

### PACKAGING / TECHNICAL DATA ADDITIONAL INFORMATION:

\* Usage category A, B, C, (D, E); Standard values for old building substrates

### ORDER SIZE:

Order length of fastener = insulation material thickness + layer thickness of adhesive mortar + possibly existing thickness of old render + anchorage depth

### CHARACTERISTIC LOADS ADDITIONAL INFORMATION:

\* Values apply to certain outer web thicknesses according to ETA.

## TECHNICAL DATA SHEET – EJOTHERM® H1

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### RELATED PRODUCTS:

Product name	Pieces per unit	Type of container
Dübelteller ejotherm VT 90	100	carton
Dübelteller ejotherm SBL 140 Plus	100	carton

### 6. STORAGE

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max. storage time	Storage conditions
no maximum storage time	dry protect against weathering

### 7. DISPOSAL

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#### EC WASTE CODE:

EC WASTE CODE: 17 09 04

### 8. SAFETY INSTRUCTIONS

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No particular indications.

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.