EJOT®

ETICS anchors and accessories

Product range for UK based façade professionals

INCA

The Quality Connection www.ejot.co.uk

Expert knowledge and innovations

Whether it's the construction of the highest tower or the southernmost polar station, complex building projects need expertise. With EJOT, you gain over 30 years of building industry experience.

All EJOT products have been developed by experts; a team that includes product developers, product managers and application engineers.

EJOT solves your problems and meets your needs. The results are reliable product solutions to simplify the job on site.

1) **Industrial Lightweight Construction**
High-quality fasteners for fixing profiled sheets and sandwich panels

2) **External Thermal Insulation Composite Systems**
Specialised anchors and accessories for fixing insulation systems to external walls

3) **Rear Ventilated Facades**
Screws and anchors for fixing substructures and facade fascias for rear ventilated systems

4) **Flat Roofing**
Fastenings and installation tools for the efficient attachment of insulation and waterproofing membrane to flat roofs and slightly sloping roofs

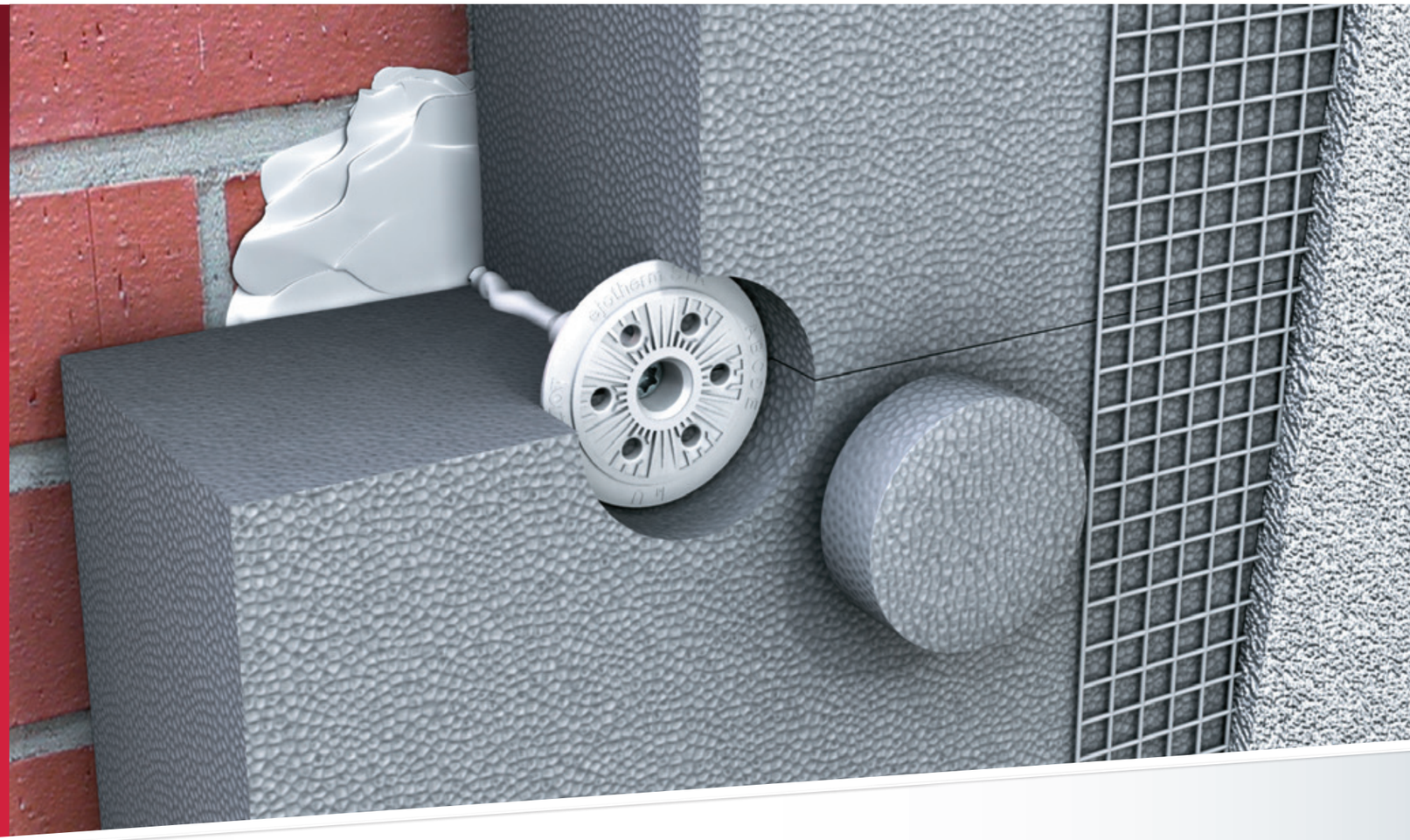
5) **Industrial Window and Facade Technology**
High quality fasteners for window and door production and for use in aluminium / glass facade systems

6) **Fastening Systems for Solar Installations**
For fastening elevated solar and photovoltaic Installations

Contents

The ejotherm® range of anchors

Secure fastening of insulation boards for every ETICS application



ejotherm® Washer anchor

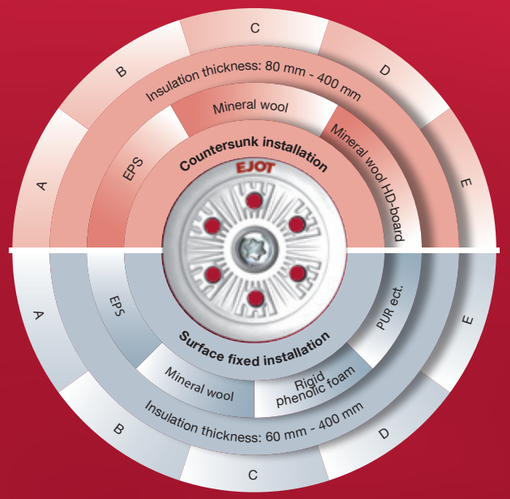
We consider *ejotherm* to be the best insulation fixing concepts available.
The *ejotherm* washer / anchor combination offers the perfect connection for all construction and insulating materials. It is a technical innovation that functions precisely to match its requirements.

ejotherm - key performance benefits

- The fastening solution for all insulation types
- Highly resistant with minimum installation depth
- Simple and quick to use
- Safe, with a 100% setting control
- Suitable for most applications and most substrates
- Fewer anchors required, uses standardised drill diameter
- With European Technical Approval / Assessment (ETA)
- Almost invisible thanks to the EJOT STR principle

Fastening of insulation boards
EJOT

The EJOT STR principle
for a flawless surface finish



We invented the EJOT STR principle to create the perfect, homogeneous insulating surface. The safe fastening of the insulation is achieved in four quick and simple steps, resulting in a barely visible fixing:

- Automatically countersinks the anchor
- No rework, no subsequent skimming
- Pre-assembled for quicker installation
- Ideal for countersunk and surface fixed installations
- For insulating material thicknesses up to 400 mm

EJOT STR principle

Efficiency in 4 steps:

1

Quick drilling thanks to reduced drill depth

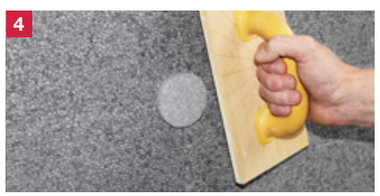
2

Insert the anchor with pre-mounted screw into the drill hole until the washer rests slightly on the surface

3

Fastening with the *ejotherm* STR-tool 2GS: countersinking happens automatically (no milling, no dust)

4

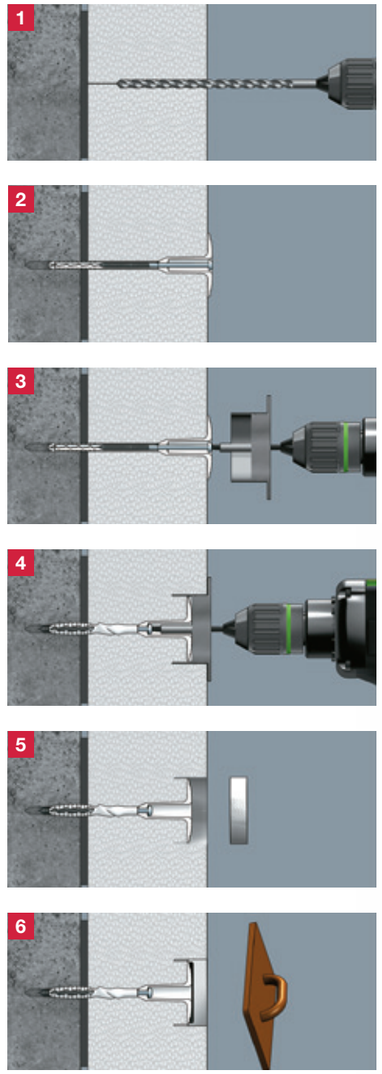


Using a float, or flat object to insert the *ejotherm* STR insulation cap flush with the surface - ready

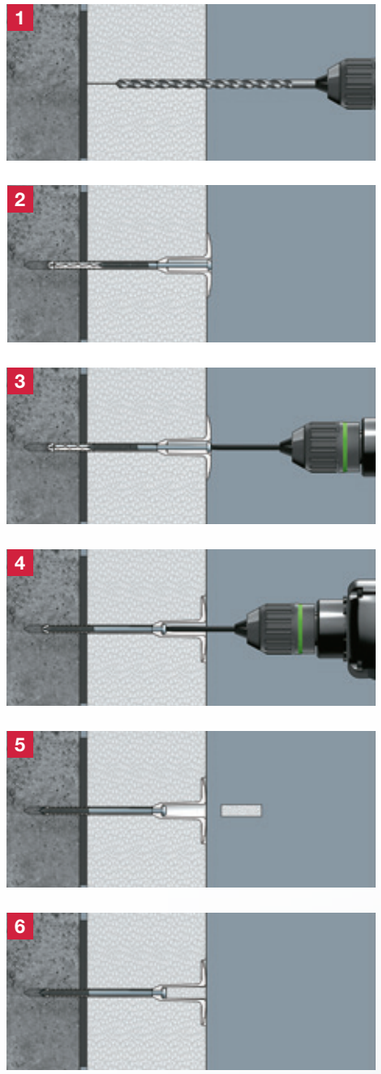
ejotherm STR installation

EJOT STR principle

Countersunk installation using EJOT STR principle with *ejotherm* STR cap



Surface fixed installation with *ejotherm* STR plug



Installation animation EJOT STR principle

Fastening insulation boards in to solid/aerated substrates

ejotherm STR U 2G

Universal screw-in anchor for countersunk and surface fixed installation

- Approved for all building material categories (A, B, C, D, E)
- Countersunk installation - EJOT STR principle with *ejotherm* STR cap for homogeneous surfaces and even rendering - quick and easy without milling dust
- Up to 40% faster installation
- Reduced thermal bridges (0.001 W/K)
- Surface fixed installation using *ejotherm* STR plugs
- Shortest embedment depths, highest loads for maximum safety and economic anchor usage
- Permanent contact pressure
- Pre-mounted screw for quick installation
- 100% setting control: the countersunk installation of the washer indicates safe anchorage

Notes on *ejotherm* STR U:

Universal screw-in anchor *ejotherm* STR U (first generation) is still available in the lengths 115 to 295 mm.

Technical data	
Anchor nominal diameter	8 mm
Washer diameter	60 mm
Drill hole depth, countersunk installation $h_1 \geq$	50 mm (90 mm)
Drill hole depth, surface fixed installation $h_2 \geq$	35 mm (75 mm)
Embedment depth $h_{ef} \geq$	25 mm (65 mm)
Screw drive	TORX T30
Point thermal transmission χ countersunk installation	0.001 W/K
Point thermal transmission χ surface fixed installation	0.002 W/K
Use categories acc. to ETA*	A, B, C, D, E
German DIBt Approval	Z-21.2-1769
European Technical Approval	ETA-04/0023

Values in parentheses: anchoring in aerated concrete (use category E)
*Specification according to ÖNORM B 6124 for concrete, solid brick and vertical brick

EJOT STR principle

ejotherm

B 6124 GEPRÜFT

ETA CE

Building materials, sorted according to use categories and design loads

For calculation of design loads the national safety factors have to be included (e.g., Germany: 3).
Please observe the approval.

Minimum requirements on the raw density and compression strength of stone according to the approval.

Characteristic loads		
A	Normal weight concrete C 12/15 acc. to EN 206-1	1.5 kN
A	Normal weight concrete C 16/20 - C 50/60 acc. to EN 206-1	1.5 kN
A	Pre-cast concrete panel C 16/20 - C 50/60	1.5 kN
B	Clay bricks (Mz) acc. to EN 771-1 / DIN 105	1.5 kN
B	Solid lime sandstone (KS) acc. to EN 771-2 / DIN EN 106	1.5 kN
B	Solid masonry of lightweight concrete (V) acc. to EN 771-3 / DIN 18152	0.6 kN
C	Vertically perforated clay bricks (Hlz) acc. to EN 771-1 / DIN 105	1.2 kN
C	Vertically cored reference bricks (Hlz) acc. to ÖNORM B 6124	0.75 kN
C	Sand-lime perforated bricks (KSL) acc. to EN 771-2 / DIN EN 106	1.5 kN
C	Lightweight concrete hollow blocks (HbL) acc. to EN 771-3 / DIN 18151	0.6 kN
D	Lightweight aggregate concrete (LAC) acc. to EN 771-4	0.9 kN
E	Autoclaved aerated concrete (AAC 4 - AAC 7) acc. to EN 771-4	0.75 kN

Application matrix for the use categories A to D, embedment depth = 25 mm

1) Sample setting is required for perforated block
2) Drilling-out is necessary: use a drill with Ø 10 mm, drill 40 mm deep into the tolerance layer
3) Only surface fixed

Insulation thickness	To allow for differences in thicknesses of build up (adhesive and existing render)					
(mm)	10	30	50	70	90	100
60	115[1), 3)]	115[3)]	135[3)]	155[2), 3)]		
80	115	135	155	175[2), 3)]	195[2), 3)]	
100	135	155	175	195	215[2), 3)]	235[2), 3)]
120	155	175	195	215	235	255
140	175	195	215	235	255	275[3)]
160	195	215	235	255	275	295
180	215	235	255	275	295	315
200	235	255	275	295	315	335
220	255	275	295	315	335	355
240	275	295	315	335	355	375
260	295	315	335	355	375	395
280	315	335	355	375	395	415
300	335	355	375	395	415	435
320	355	375	395	415	435	455
340	375	395	415	435	455	
360	395	415	435	455		
380	415	435	455			
400	435	455				
420	455					

Application matrix with use category E, embedment depth = 65 mm

2) Drilling-out is necessary: use a drill with Ø 10 mm, drill 40 mm deep into the tolerance layer
3) Only surface fixed

Insulation thickness	To allow for differences in thicknesses of build up (adhesive and existing render)		
(mm)	10	30	50
60	135[3)]	155[2), 3)]	
80	155	175[2), 3)]	195[2), 3)]
100	175	195	215[2), 3)]
120	195	215	235
140	215	235	255
160	235	255	275
180	255	275	295
200	275	295	315
220	295	315	335
240	315	335	355
260	335	355	375
280	355	375	395
300	375	395	415
320	395	415	435
340	415	435	455
360	435	455	
380	455		

ejotherm VT 2G

Combi washer for countersunk installation of mineral wool insulation boards and phenolic boards

The *ejotherm* VT 2G continues to provide the ideal countersunk installation in accordance with the EJOT STR principle.

With the combination provided by *ejotherm* STR U 2G, an even and homogeneous render surface is now possible when installing mineral wool insulation systems with low lateral tensile strength and Kingspan Kooltherm K5 phenolic boards. The problem of anchor marks is markedly reduced. Countersinking of the combination washer indicates a secure installation into the substrate.

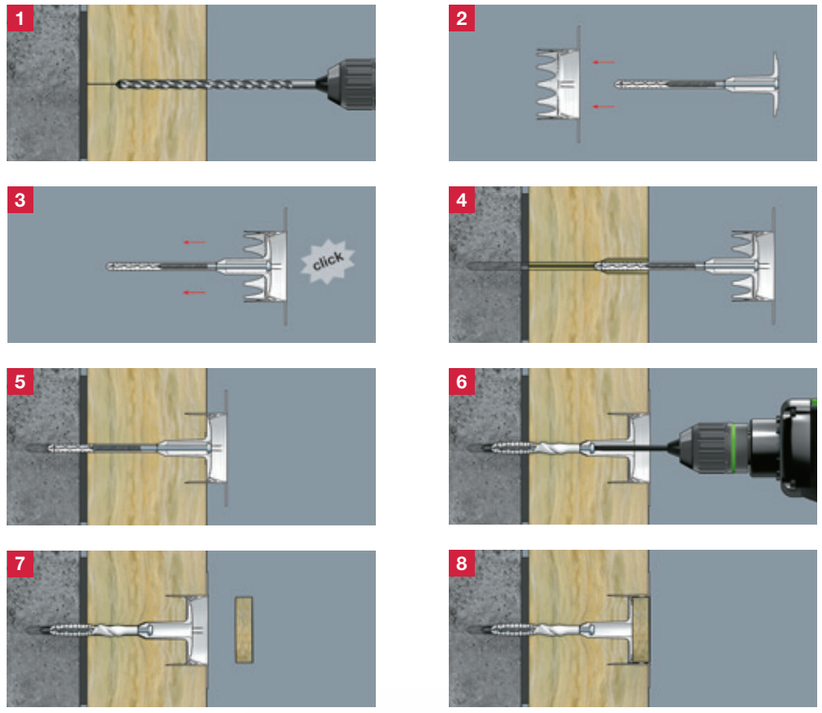
Fastening the *ejotherm* VT 2G in combination with *ejotherm* STR U 2G can be carried out without any additional installation tools.

- Specifically matched combination washer for *ejotherm* STR U 2G for countersunk installation into all mineral wool insulation boards with minimal lateral tensile strength WAP-zg (type WV) and phenolic board Kingspan Kooltherm K5
- For homogeneous surfaces and even rendering due to the EJOT STR principle
- Minimal thermal bridging (chi value 0.001 W/K)
- Reduction in anchor marks
- Permanent contact pressure
- Easy click-system installation
- No additional installation tool required
- 100% setting control

Installation

Countersunk installation according to the EJOT STR principle with ejotherm STR cap MW

EJOT STR principle



Installation animation ejotherm VT 2G

Technical data	
Washer diameter	110 mm
DiBt approval	Z-21.2-1769
European Technical Approval	ETA-04/0023

Note, number of anchors
The quantity of anchors can be found in the mineral wool approvals for washers ≥ 90 mm.

Product range			
Product name	**Article number**	**Packaging unit (pcs)**	**Pallet unit (pcs)**
ejotherm VT 2G	8782 090 008	100	1,600

Note: Always use with the ejotherm STR caps MW or STR caps RHS.

EJOT STR principle

ejotherm

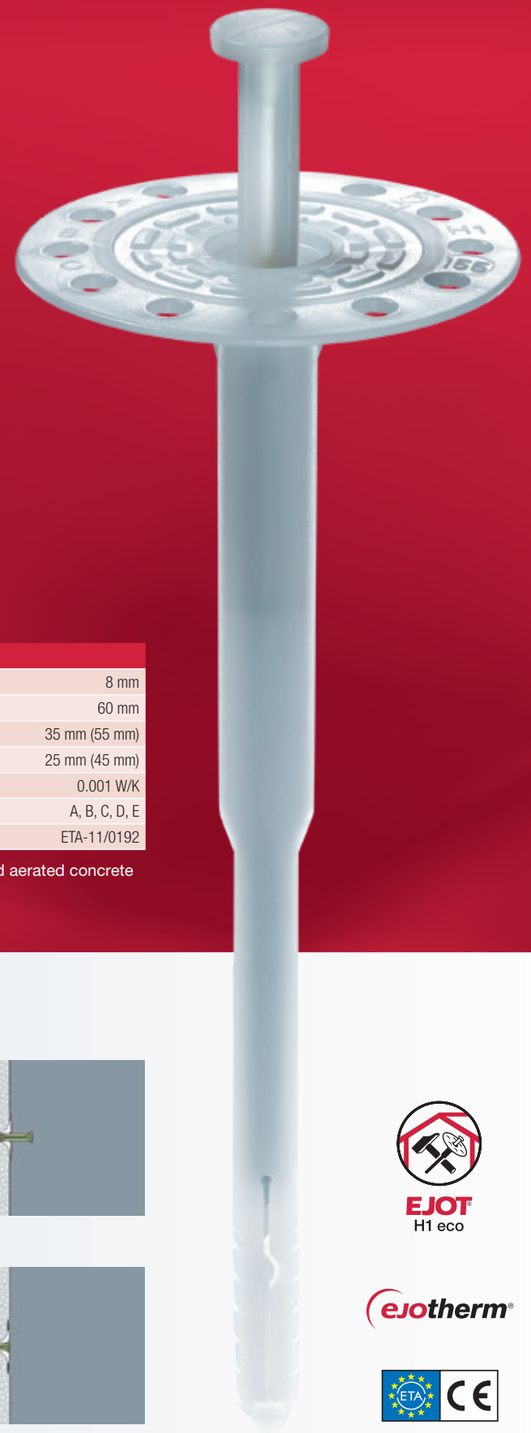
B 6124 GEPRÜFT

ETA CE

EJOT H1 eco

Universal hammer-in anchor for all substrates

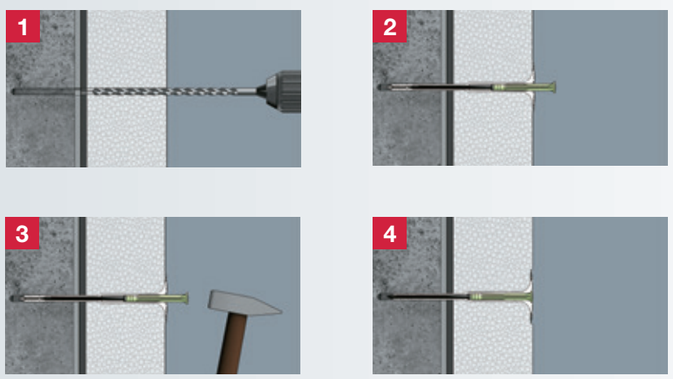
- Approved for all building material categories (A,B,C,D,E)
- Solid steel nail (break-proof)
- Low profile washer face
- Plastic injection element to reduce thermal transmission (0.001 W/K)
- Can be used with an additional spreader washer
- Short embedment depth, reduced drilling
- High loads for your security
- Economic anchor usage
- Pre-mounted nail for quick installation



Technical Data	
Anchor nominal diameter	8 mm
Washer diameter	60 mm
Drill hole depth h_1 ≥	35 mm (55 mm)
Embedment depth h_{ef} ≥	25 mm (45 mm)
Point thermal transmission	0.001 W/K
Use categories acc. to ETA	A, B, C, D, E
European Technical Assessment	ETA-11/0192

Values in parentheses: anchoring in lightweight aggregate concrete and aerated concrete (use category D, E)

Installation



EJOT H1 eco

ejotherm

EJOT

Building materials, sorted according to use categories and design loads

For calculation of design loads the national safety factors have to be included (e.g., Germany: 3).
Please observe the approval.

Minimum requirements on the raw density and compression strength of stone according to the approval.

Characteristic loads		
A	Normal weight concrete C 12/15 acc. to EN 206-1	0.9 kN
A	Normal weight concrete C 20/25 - C 50/60 acc. to EN 206-1	0.9 kN
B	Clay bricks (Mz) acc. to EN 771-1 / DIN 105	0.9 kN
B	Solid lime sandstone (KS) acc. to EN 771-2 / DIN EN 106	0.9 kN
C	Vertically perforated clay brick (Hlz) acc. to EN 771-1 / DIN 105, bulk density ≥ 1.2 kg/dm³	0.75 kN
C	Vertically perforated clay brick (Hlz) acc. to EN 771-1 / DIN 105, bulk density ≥ 0.9 kg/dm³	0.6 kN
C	Sand-lime perforated bricks (KSL) acc. to EN 771-2 / DIN EN 106	0.9 kN
D	Lightweight aggregate concrete (LAC 4 - LAC 25) acc. to EN 1520	0.9 kN
E	Autoclaved aerated concrete (AAC 4 - AAC 7) acc. to EN 771-4	0.5 kN

Application matrix with use categories A to C, embedment depth = 25 mm

Application matrix with use categories D and E, embedment depth = 45 mm

1) If embedment depth h_{ef} 45 mm for perforated block, we recommend confirmation by on-site testing

Insulation thickness	To allow for differences in thicknesses of build up (adhesive and existing render)											
	Embedment depth = 25 mm						Embedment depth = 45 mm					
(mm)	10	30	50	70	90	110	10	30	50	70	90	110
40	095[1)]	095					095					
60	095	115	135				115	135				
80	115	135	155	175	195		135	155	175	195		
100	135	155	175	195	215	235	155	175	195	215	235	
120	155	175	195	215	235	255	175	195	215	235	255	275
140	175	195	215	235	255	275	195	215	235	255	275	295
160	195	215	235	255	275	295	215	235	255	275	295	
180	215	235	255	275	295		235	255	275	295		
200	235	255	275	295			255	275	295			
220	255	275	295				275	295				
240	275	295					295					
260	295											

Accessories

The following accessories are available for the product group EJOT H1 eco:

EJOT Combi washer
Page 16

Installation animation EJOT H1 eco

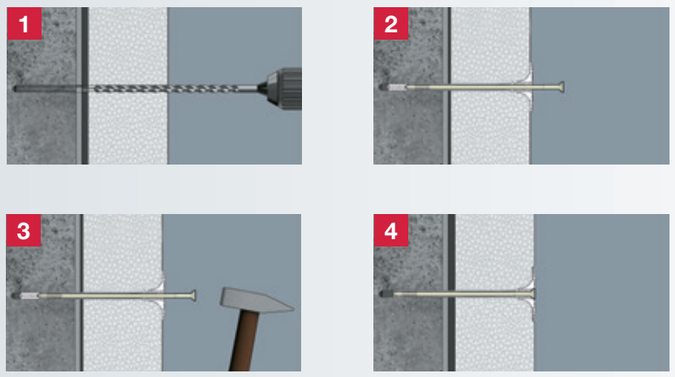
Product range			
Product name and length (mm)	Article number	Packaging unit (pcs)	Palett unit (pcs)
EJOT H1 eco 095	8746 095 400	100	5,000
EJOT H1 eco 115	8746 115 400	100	4,000
EJOT H1 eco 135	8746 135 400	100	4,000
EJOT H1 eco 155	8746 155 400	100	3,000
EJOT H1 eco 175	8746 175 400	100	3,000
EJOT H1 eco 195	8746 195 400	100	3,000
EJOT H1 eco 215	8746 215 400	100	3,000
EJOT H1 eco 235	8746 235 400	100	2,000
EJOT H1 eco 255	8746 255 400	100	2,000
EJOT H1 eco 275	8746 275 400	100	2,000
EJOT H1 eco 295	8746 295 400	100	2,000

EJOT H3

Universal hammer-in anchor with plastic injection element and flexible washer

- Approved for concrete, solid and perforated masonry
- Precise installation due to defined anchor washer movement through the self-levelling washer
- The self-levelling washer remains in contact with the surface, even when the pilot holes are not perpendicular
- Plastic injection element to reduce thermal transmission
- Short embedment depths, minimum drill hole depth
- Minimised risk of breaking nails due to fibrereinforced composites
- Can be used with an additional spreader washer
- Premounted nail for quick installation

Installation



EJOT H3

Technical data	
Anchor nominal diameter	8 mm
Washer diameter	60 mm
Drill hole depth $h_1 \geq$	35 mm
Embedment depth $h_{ef} \geq$	25 mm
Point thermal transmission	0.000 W/K
Use categories acc. to ETA	A, B, C
European Technical Assessment	ETA-14/0130

Note: Flexible washer placement

The self-levelling washer remains in contact with the surface, even when the pilot holes are not perpendicular.

Building materials, sorted according to use categories and design loads

For calculation of design loads the national safety factors have to be included (e.g., Germany: 3).
Please observe the approval.

Minimum requirements on the raw density and compression strength of stone according to the approval.

Characteristic loads			
	A	Normal weight concrete C 20/25 - C 50/60 acc. to EN 206-1	0.6 kN
	B	Clay bricks (Mz) acc. EN 771-1 / to EN 771-1	0.6 kN
	B	Solid lime sandstone (KS) acc. to EN 771-2	0.6 kN
	C	Vertically perforated clay brick (Hlz) acc. to EN 771-1, DIN 105	
		bulk density ≥ 1.2 kg/dm³	0.6 kN
		bulk density ≥ 0.8 kg/dm³	0.5 kN
	C	Sand-lime perforated bricks (KSL) acc. to EN 771-2 / DIN EN 106	0.5 kN

Insulation thickness	To allow for differences in thicknesses of build up (adhesive and existing render)					
(mm)	10	30	50	70	90	110
40	095[1)]	095				
60	095	115	135			
80	115	135	155	175	195	
100	135	155	175	195	215	235
120	155	175	195	215	235	
140	175	195	215	235		
160	195	215	235			
180	215	235				
200	235					

Accessories

The following accessories are available for the product group EJOT H3:

EJOT Combi washer
Page 16

Product range			
Product name and length (mm)	Article number	Packaging unit (pcs)	Palett unit (pcs)
EJOT H3 075	8573 075 100	200	6.000
EJOT H3 095	8573 095 100	200	6.000
EJOT H3 115	8573 115 100	200	5.400
EJOT H3 135	8573 135 100	200	5.400
EJOT H3 155	8573 155 100	200	3.600
EJOT H3 175	8573 175 100	100	3.000
EJOT H3 195	8573 195 100	100	2.000
EJOT H3 215	8573 215 100	100	2.000
EJOT H3 235	8573 235 100	100	2.000

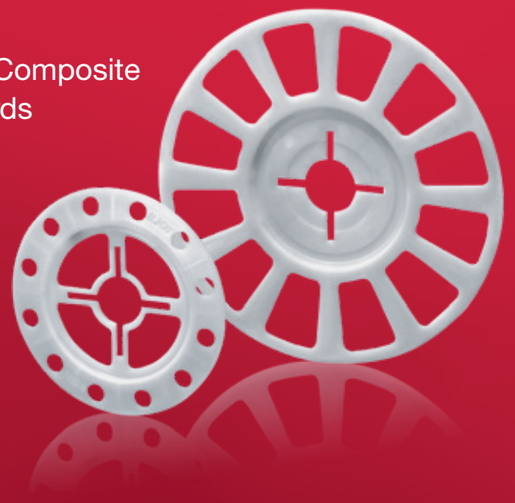
EJOT Combi washer

For fastening External Thermal Insulation Composite Systems with mineral wool insulating boards

The diameter of the ETICS anchor can be increased by using an additional combi washer. These washers have been designed to specifically fit our product range, as well as help meet the demands of fixing different insulation types. The type of combi washer needed for an application, will be determined by the system supplier.

When combining our combi washer with *ejotherm* STR U 2G, *ejotherm* STR U and *ejotherm* STR H for the surface fixed installation, the special *ejotherm* STR isolation plugs have to be inserted.

Note: When using combi washer VT 90 and SBL 140 plus, the EJOT STR principle cannot be used for the countersunk installation.



Combi washer EJOT VT 90

- Specifically for mineral wool boards with low tensile strength (please refer to the approval)
- Washer diameter: 90 mm
- The washer´s high rigidity, allows for a equal compression across the face
- Flush finish

Product range

Product name	Article number	Pcs / packing	Pcs / pallet
EJOT VT 90	8781 090 008	100	14,400

Combi washer EJOT SBL 140 *plus*

- Specifically for mineral wool lamella boards
- Washer diameter: 140 mm
- The washer´s high rigidity, allows for a equal compression across the face
- High bearing load once in contact with the render

Product range

Product name	Article number	Pcs / packing	Pcs / pallet
EJOT SBL140 plus	8716 140 008	100	5,000

DMH 8 Firewall Insulation Support Anchor

Overview

For fixing rigid insulation for high fire protection requirements to fire barrier details.

Installation Benefits

One piece cylindrical steel anchor with 35mm washer face, provides straightforward installation into a pre-drilled hole.

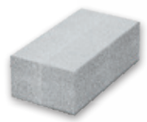
The DMH V version of the product is manufactured from Aluzinc coated carbon steel. This anchor can be used with DMT (V) 80mm diameter aluzinc coated carbon steel washer.

The DMH E version is manufactured from A2 stainless steel, with spreader washers available for both variations. This anchor can be used with DMT (E) 80mm diameter A2 stainless steel washer.

Typical applications

Concrete

Brick



Block

DMH-8-E Anchor

Technical data

Anchor nominal diameter	8 mm
Washer diameter	35 mm
Drill hole depth	60 mm
Embedment depth	50 mm

Product range

Product name Ø x L (mm)	Insulation Thickness (mm)	Article number	Min qty
DMH 8 x 80 E	0 - 30	9700 030 302	250
DMH 8 x 110 E	30 - 60	9700 033 603	250
DMH 8 x 140 E	60 - 90	9700 036 904	250
DMH 8 x 170 E	90 - 120	9700 035 912	250
DMH 8 x 200 E	120 - 150	9700 035 215	250
DMH 8 x 250 E	150 - 200	9700 035 520	250
DMH 8 x 300 E	200 - 250	9700 035 300	250

DMT-E Washer

Technical data

Diameter	80 mm
Hole size	8 mm
Material type	A2 stainless
Material thickness	0.5 mm

Product range

Product name	Article number	Min qty
DMT 80 E	9700 030 157	100

Fastening insulation boards in to timber substrates

ejotherm STR H

Screw fastener for countersunk and surface fixed installation for timber and some steel substrates

- For timber and steel (max. 0.75 mm) substrates
- Countersunk installation - EJOT STR principle with *ejotherm* STR cap for homogeneous surfaces and even rendering - quick and easy without milling dust
- No pre-drilling necessary
- Surface fixed installation using *ejotherm* STR plugs
- Permanent contact pressure
- Pre-mounted screw for quick installation
- 100 % setting control: the countersunk installation of the washer indicates safe anchorage
- Also available in stainless steel

Technical data	
Screw diameter	6 mm
Washer diameter	60 mm
Screw-in depth	30 - 40 mm
Screw drive	TORX T25
Point thermal transmission χ countersunk installation in timber substrates	0.001 W/K
Point thermal transmission χ surface fixed installation in timber substrates	0.002 W/K

Building materials, and recommended loads

The recommended use loads are calculated with a safety factor of 3. They may differ acc. to the object.

Recommended use loads	
Wood fibreboards (thickness ≥ 17.0 mm)	0.25 kN
Chipboards (thickness ≥ 13.0 mm)	0.25 kN
Gypsum-fibreboards (thickness ≥ 12.5 mm)	0.15 kN
OSB plates (thickness ≥ 16.0 mm)	0.25 kN
Solid wood plates (thickness ≥ 27 mm)	0.25 kN

EJOT STR principle

ejotherm

B 6124

GEPRÜFT

Product range					
Countersunk installation Insulation (mm)	Surface fix installation Insulation (mm)	Product name and length (mm)	Article number	Packaging (pcs)	Palett unit (pcs)
-	40	ejotherm STR H 080	8711 080 400	100	7,200
-	60	ejotherm STR H 100	8711 100 400	100	7,200
80	80	ejotherm STR H 120	8711 120 400	100	7,200
100	100	ejotherm STR H 140	8711 140 400	100	7,200
120	120	ejotherm STR H 160	8711 160 400	100	7,200
140	140	ejotherm STR H 180	8711 180 400	100	4,800
160	160	ejotherm STR H 200	8711 200 400	100	4,800
180	180	ejotherm STR H 220	8711 220 400	100	4,800
200	200	ejotherm STR H 240	8711 240 400	100	4,800
220	220	ejotherm STR H 260	8711 260 400	100	3,000
240	240	ejotherm STR H 280	8711 280 400	100	3,000
260	260	ejotherm STR H 300	8711 300 400	100	3,000

Note: Always use in combination with ejotherm STR caps or ejotherm STR plugs respectively.

Installation *ejotherm* STR H & STR H A2

EJOT STR principle

Countersunk installation acc. to the EJOT STR principle with *ejotherm* STR cap

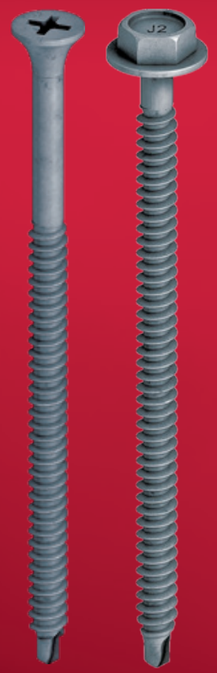
Surface fix installation with *ejotherm* STR plug

Installation animation EJOT STR principle

EJOT Dabo® fasteners – case-hardened steel and Climadur-coated

TKR-4.8, SW8-R-4.8 and SW8-RT-4.8

- For fixing to substructures made of sheet steel, timber or wood-based material
- For combination with EJOT® stress plates
- Case-hardened steel
- Climadur coated – high-quality coating to improve corrosion protection (15 Kesternich cycles, DIN 50018, 1997)
- SW8-RT-4.8 fastener is engineered with high thread to prevent screw head protrusion due to foot traffic
- Fasteners combine with SBH-T washer - see Page 27 for details



TKR & SW8R / SW8R-T

Technical data	
Screw diameter	4.8 mm
Embedment depth (Timber)	40 mm
Embedment depth/protrusion (sheathing board)	20 mm

Product range			
Product name Ø x L (mm)	Insulation Thickness (mm)	Article number	Min qty
TKR 4.8 x 35	N/A	3496 700 629	100
TKR 4.8 x 50	5 - 10	3496 800 629	100
TKR 4.8 x 60	10 - 20	3496 900 629	100
TKR 4.8 x 70	20 - 30	3497 000 629	100
TKR 4.8 x 80	30 - 40	3497 100 629	100
TKR 4.8 x 90	40 - 50	3497 200 629	100
TKR 4.8 x 100	50 - 60	3497 300 629	100
TKR 4.8 x 110	60 - 70	3497 400 629	100
TKR 4.8 x 120	70 - 80	3497 500 629	100
TKR 4.8 x 130	80 - 90	3497 600 629	100
TKR 4.8 x 140	90 - 100	3497 700 629	100
TKR 4.8 x 150	100 - 110	3497 800 629	100
TKR 4.8 x 160	110 - 120	3497 900 629	100
TKR 4.8 x 170	120 - 130	3498 000 629	100
TKR 4.8 x 180	130 - 140	3498 100 629	100
TKR 4.8 x 200	150 - 160	3498 300 629	100
TKR 4.8 x 220	170 - 180	3498 400 629	100
TKR 4.8 x 240	190 - 200	3498 600 629	100
TKR 4.8 x 260	210 - 220	3498 800 629	100
TKR 4.8 x 280	230 - 240	3498 900 629	100
TKR 4.8 x 300	250 - 260	3499 000 629	100

SW8R / SW8R-T

Product range			
Product name Ø x L (mm)	Insulation Thickness (mm)	Article number	Min qty
SW8 R 4.8 x 60	10 - 20	3487 000 629	100
SW8 R 4.8 x 80	30 - 40	3487 100 629	100
SW8 R 4.8 x 90	40 - 50	3487 200 629	100
SW8 R 4.8 x 100	50 - 60	3487 300 629	100
SW8 R 4.8 x 110	60 - 70	3487 400 629	100
SW8 R 4.8 x 120	70 - 80	3487 500 629	100
SW8 R 4.8 x 130	80 - 90	3487 600 629	100
SW8 R 4.8 x 140	90 - 100	3487 700 629	100
SW8 R 4.8 x 150	100 - 110	3487 800 629	100
SW8 R-T 4.8 x 160	110 - 120	3477 900 629	100
SW8 R-T 4.8 x 180	130 - 140	3478 100 629	100
SW8 R-T 4.8 x 200	150 - 160	3478 300 629	100
SW8 R-T 4.8 x 220	170 - 180	3478 400 629	100
SW8 R-T 4.8 x 240	190 - 200	3478 600 629	100
SW8 R-T 4.8 x 260	210 - 220	3478 800 629	100
SW8 R-T 4.8 x 280	230 - 240	3479 000 629	100
SW8 R-T 4.8 x 300	250 - 260	3479 200 629	100

EJOT Insulation Washer DMT 85/7 E with JT3-ST2-6 Fastener

Centre-fix Washer for the installation of mineral wool insulation slab to light steel frame and CP board.

Stainless Steel insulation support washer for use with a range of stainless steel fasteners from the EJOT product range, including the JT3-ST2-6 x Length fastener

- High quality stainless steel grade 304 St/St, ISO Group A2. Din Werkstoff 1.4301

Application

For installation of mineral wool insulation slab to light steel framing, timber studs and CP board.

Material:

High quality stainless steel grade 304 St/St, ISO Group A2. Din Werkstoff 1.4301

JT3-ST2-6 Fastener

Technical data	
Screw diameter	6 mm
Embedment depth (Timber)	40 mm
Embedment depth/protrusion (sheathing board)	20 mm

Product range			
Product name Ø x L (mm)	Insulation Thickness (mm)	Article number	Min qty
JT3-ST-2 6 x 60	10 - 20	7382 125 301	500
JT3-ST-2 6 x 80	30 - 40	7382 107 301	250
JT3-ST-2 6 x 100	50 - 60	7382 101 301	250
JT3-ST-2 6 x 120	70 - 80	7382 102 301	250
JT3-ST-2 6 x 140	90 - 100	7382 103 301	250
JT3-ST-2 6 x 160	110 - 120	7382 104 301	200
JT3-ST-2 6 x 180	130 - 140	7382 105 301	200
JT3-ST-2 6 x 200	150 - 160	7382 106 301	200

DMT 85/7 E washer

Technical data	
Diameter	85 mm
Hole size	7 mm
Material type	A2 stainless
Material thickness	0.5 mm

Product range		
Product name	Article number	Min qty
DMT 85/7 E	9900 107 290	100

ETICS tools and accessories

With EJOT precision tools, you save time and money when installing anchors. They are essential for special cases and frequently decisive for standard tasks. The entire product range practically facilitates the fastening of thick insulation boards as well as renovation tasks at ETICS facades.

A broad range of accessories are available for use with the ejotherm STR U 2G & STR H product range.

All tools & accessories are made of high-quality materials and have been perfectly matched to be utilized with EJOT anchors.

ejotherm STR accessories

ejotherm STR cap EPS

- Specially developed polystyrene (EPS) isolation cap
- To be used with *ejotherm* STR U 2G, *ejotherm* STR U, *ejotherm* STR H and *ejotherm* STR H A2
- Colours: white or grey

Product range

Product name	Article number	Pcs / packing	Pcs / pallet
ejotherm STR cap EPS white	8593 000 093	100	8,000
ejotherm STR cap EPS grey	8593 111 070	100	8,000

ejotherm STR cap MW

- Specially developed mineral wool isolation cap
- To used with *ejotherm* STR U 2G, *ejotherm* VT 2G, *ejotherm* STR U, *ejotherm* STR H and *ejotherm* STR H A2

Product range

Product name	Article number	Pcs / packing	Pcs / pallet
ejotherm STR cap mineral wool (MW)	8593 000 098	100	8,000

ejotherm STR-Plug

- Special polystyrene (EPS) isolation plug
- To used with *ejotherm* STR U 2G, *ejotherm* STR U for surface fixed installation
- *ejotherm* STR H plug is included in the packaging of *ejotherm* STR H

Product range

Product name	Article number	Pcs / packing	Pcs / pallet
ejotherm STR plug	8709 033 000	500	96,000

ejotherm STR accessories

STR-tool 2GE

- Specially developed tool for countersunk installation of *ejotherm* STR U 2G
- Also compatible for use with *ejotherm* STR U, STR H and STR H A2
- Adjustment shaft with hex shank for easy use with standard drill chucks
- Patented mechanism enables quick and easy adjustment to the required anchor length
- EJOT STR principle ensures a reliable installation each time
- Easy conversion from *ejotherm* STR-tool 2GE for surface fixed installation
- Robust design for long service life
- Worn parts can be changed quickly
- Set comprises: *ejotherm* STR-tool 2GE, additional cutting discs, offset screw driver as well as screw bits for all applications

Product range

Product name	Article number	Pcs / packing
ejotherm STR-tool 2GE	9229 000 000	1

ejotherm adjustment shaft SDS-*plus*

- Alternative adjustment shaft with SDS-plus holder for *ejotherm* STR-tool 2GE

Product range

Product name	Article number	Pcs / packing
ejotherm adjustment shaft SDS-plus	9129 000 005	1

ejotherm adjustment shaft hex shank SW 10x160

- Replacement adjustment shaft with hex shank holder for *ejotherm* STR-tool 2GE

Product range

Product name	Article number	Pcs / packing
ejotherm adjustment shaft hex shank SW 10x160	9129 000 004	1

ejotherm STR accessories

ejotherm STR-tool spare kit

- To replace worn parts of the *ejotherm* STR-tools 2GE
- Set contains: 3 cutting discs, 3 bits T30 for the countersunk installation of *ejotherm* STR U 2G and *ejotherm* STR U

Product range		
Product name	**Article number**	**Pcs / packing**
ejotherm STR tool spare kit	9151 910 000	1

ejotherm STR tool spare bits

- For the countersunk installation of *ejotherm* STR U 2G and *ejotherm* STR U: *ejotherm* STR-Bit TX30-M8 x 52
- For surface fixed installation of *ejotherm* STR U 2G and *ejotherm* STR U: *ejotherm* STR-Bit TX30-1/4" x 200
- For the countersunk installation of *ejotherm* STR H: *ejotherm* STR-Bit TX25-M8 x 31
- For surface fixed installation of *ejotherm* STR H: *ejotherm* STR-Bit TX25-1/4" x 70

Product range		
Product name	**Article number**	**Pcs / packing**
ejotherm STR-Bit TX30-M8 x 52	9151 900 013	1
ejotherm STR bit TX30-1/4" x 200	9253 014 200	1
ejotherm STR special bit TX25-M8 x 31	9151 900 012	1
ejotherm STR bit TX30-1/4“ x 70	9250 251 470	1

ejotherm STR accessories

ejotherm STR renovation cutter

- For additional anchor support in existing ETICS facades: Cost-effective retrofitting for ETICS allowing for additional anchors to be used
- Avoids the removal of the existing system, in most cases
- Using of the EJOT STR technology:
  1. cut through the existing render layer with the *ejotherm* STR renovation cutter
  2. install the *ejotherm* STR U 2G / STR U with the *ejotherm* STR-tool 2GE
  3. insert the STR cap to obtain an even plaster base
  4. finish by applying the final render coat

EJOT STR principle

Product range		
Product name	**Article number**	**Pcs / packing**
ejotherm STR renovation cutter	9151 940 000	1

EJOT insulation washers

EJOT insulation washer
Due to their flat under-head geometry, the EJOT insulation washers can be used at all locations where it is difficult to pull the washer into the insulating material.

A safe fix is established by using the corresponding fastener or anchor.

Insulation washer IT-Z 8/60
- To combine with SDF-S Plus 8UB
- Hole diameter: 8.2 mm
- Washer diameter: 60 mm
- Colour: blue

Product range			
Product name	Article number	Pcs / packing	Pcs / pallet
EJOT IT/Z 8/60	8745 000 751	100	15,000

Insulation washer IT/S 5/60
- To combine with wood screws
- Hole diameter: 5.4 mm
- Washer diameter: 60 mm
- Colour: yellow ochre

Product range			
Product name	Article number	Pcs / packing	Pcs / pallet
EJOT IT/S 5/60	8501 054 710	100	15,000

EJOT insulation washers

Insulation washer IT/Z 10/60
- Used in conjunction with fasteners and anchors depending of inner diameter
- Hole diameter: 10 mm
- Washer diameter: 60 mm
- Polyamide disc washer

Product range			
Product name	Article number	Pcs / packing	Pcs / pallet
EJOT IT/Z 10/60	9900101367	100	15,000

EJOT capped tube washer

Anchor washer SBH-T 65/25
- To combine with wood or Dabo screws
- Hole diameter: 5.2 mm
- Washer diameter: 65 mm
- Isolated washer with an integral cap

Product range			
Product name	Article number	Pcs / packing	Pcs / pallet
EJOT SBH-T 65/25	8519 035 001	100	7,200

With ejotherm on the rail to success

ejotherm® Rail anchor

If the facade requires greater tolerances, rail systems can be used for mounting ETICS. The dedicated *ejotherm* anchors allow the rails to be secured quickly and reliably.
The screw and hammer-set anchor range are versatile with high loading capacity and they are approved for fixing into all types of building material. They meet European Technical Approval, and with their matched accessories, provide efficiency as well as confidence.

Fastening of rail systems
EJOT

The use of ETICS rail fastener

These systems are ideal for use in the renovation of old facades. Special holding rails made of plastic or aluminium are secured to the facade, and then the insulation boards are fixed to them. In addition to the rail fastening, we also recommend that the boards are secured centrally using a washer anchor, such as the ejotherm STR U 2G. This provides additional fixing security.

ejotherm SDK U

Screw-in anchor for rails

- For fixing holding and base rails
- Approved for all building material categories (A, B, C, D, E)
- Shortest embedment depths, minimum drill hole depths
- Highest loads for maximum safety
- Economic anchor usage
- Pre-mounted screw for quick installation
- To compensate facade tolerances use spacers EJOT AS

Technical data	
Anchor nominal diameter	8 mm
Collar diameter	16 mm
Drill hole depth h1 ≥	35 mm (75 mm)
Embedment depth h_{ef} ≥	25 mm (65 mm)
Screw drive	TORX T30
Use categories acc. to ETA	A, B, C, D, E
German DIBt Approval	Z-21.2-1769
European Technical Approval	ETA-04/0023

Values in brackets: anchoring in aerated concrete (use category E)

Building materials, sorted according to use categories and design loads

For calculation of design loads the national safety factors have to be included (e.g., Germany: 3).
Please observe the approval.

Minimum requirements on the raw density and compression strength of stone according to the approval.

Characteristic loads		
A	Normal weight concrete C 12/15 acc. to EN 206-1	1.5 kN
A	Normal weight concrete C 16/20 - C 50/60 acc. to EN 206-1	1.5 kN
A	Pre-cast concrete panels C16/20 - C50/60	1.5 kN
B	Clay bricks (Mz) acc. to DIN 105	1.5 kN
B	Solid lime sandstone (KS) acc. to DIN EN 106	1.5 kN
B	Solid masonry of lightweight concrete (V) acc. to DIN 18152	0.6 kN
C	Vertically perforated clay bricks (Hlz) acc. to DIN 105	1.2 kN
C	Vertical cored reference bricks (Hlz) acc. to ÖNORM B 6124	0.75 kN
C	Sand-lime perforated (KSL) acc. to EN 106	1.5 kN
C	Lightweight concrete hollow blocks (HbL) acc. to DIN 18151	0.6 kN
D	Lightweight aggregate concrete (LAC)	0.9 kN
E	Autoclaved aerated concrete P2-P7	0.75 kN

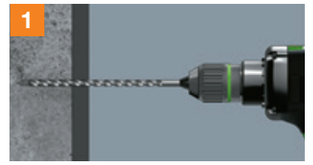
Application matrix with use categories A to D, embedment depth = 25 mm

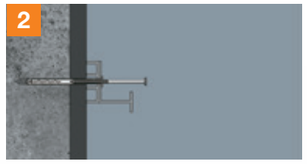
	To allow for differences in thicknesses of build up (spacers and existing render)				
(mm)	20	40	60	80	
	045	065	085	105	

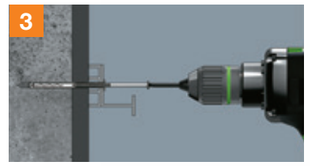
Application matrix with the use category E, embedment depth = 65 mm

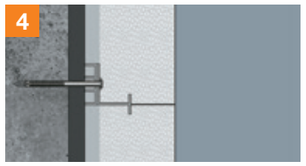
(mm)	-	-	20	40	
	045	065	085	105	

Installation









ejotherm NK U

Hammer-in anchor for rails

- For fixing of holding and base rails
- Approved for concrete, solid and perforated masonry
- Shortest embedment, minimum drill hole depths
- High load for high security
- Installation without special tools
- Pre-mounted nail for quick installation
- To compensate facade tolerances use spacers EJOT AS

Technical data	
Anchor nominal diameter	8 mm
Collar diameter	16 mm
Drill hole depth h1 ≥	35 mm
Embedment depth h_{ef} ≥	25 mm
Use categories acc. to ETA	A, B, C
European Technical Approval	ETA-05/0009

ejotherm®

CE

Building materials, sorted according to use categories and design loads

The respective national safety factors must be considered for the permissible loads (e.g., Germany: 3). Please observe the approval.

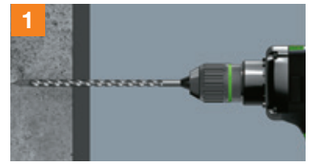
Minimum requirements on the raw density and compression strength of stone according to the approval.

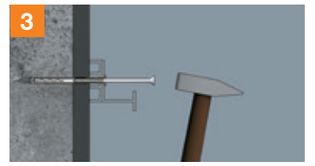
Characteristic loads		
A	Normal weight concrete C 12/15 acc. to EN 206-1	1.2 kN
A	Normal weight concrete C 16/20 - C 50/60 acc. to EN 206-1	1.2 kN
B	Clay bricks (Mz) acc. to DIN 105	1.5 kN
B	Solid lime sandstone (KS) acc. to DIN EN 106	1.5 kN
B	Solid masonry of lightweight concrete (V) acc. to DIN 18152	0.5 kN
C	Vertically perforated clay bricks (Hlz) acc. to DIN 105	0.9 kN
C	Sand-lime perforated bricks (KSL) acc. to DIN EN 106	1.5 kN
C	Lightweight concrete hollow blocks (HbL) acc. to DIN 18151	0.5 kN

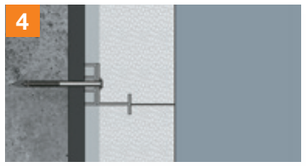
Application matrix with use categories A to C, embedment depth = 25 mm

To allow for differences in thicknesses of build up (spacers and existing render)					
(mm)	20	40	60		
	045	065	085		

Installation







Safe hold, almost invisible

Brick slip system anchor

For prefabricated External Thermal Insulation Composite Systems with brick slips, EJOT offers system anchors with a smaller countersunk head and high load-carrying capacity. These provide an inconspicuous fixing in the system's mortar joint and a stable retention of the façade structure. The anchors are available for concrete and masonry.

Fastening of brick slip systems

The use of brick-mounted ETICS

When construction or renovation requires an insulated brick facade, because of the higher weight per area, this must be securely anchored to the facade. This can be simply and efficiently using the EJOT brick slip system anchors. Used in the motor joints, the anchors are almost imperceptible.
Alternatively, ceramic linings can also be bonded on after the insulating boards are fixed. In this case, countersunk ejotherm STRU 2G anchors with caps, provide a smooth bonding surface for brick slip systems.

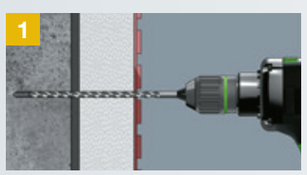
EJOT SDF-S *plus* 8UB

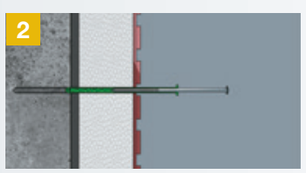
Brick slip system anchors for concrete and masonry

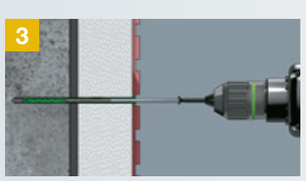
- Approved for concrete, solid and perforated masonry
- Anti-twist protection
- Anchor tube with small countersunk head for unobtrusive installation in the joint
- Universal expansion zone for safe anchoring
- Anchor with increased bending moment
- Pre-mounted screw for quick installation

Technical data	
Anchor nominal diameter	8 mm
Diameter of countersunk head	12 mm
Drill hole depth h1 ≥	80 mm
Embedment depth hef ≥	70 mm
Screw drive	TORX T30
Use categories acc. to ETA	A, B, C
European Technical Assessment	ETA-15/0231

Installation







Building materials, sorted according to use categories and design loads

The respective national safety factors must be considered for the permissible loads.
Please observe the approval.

The approved loads specified are upper limits of the respective anchoring substrates. Minimum requirements on the raw density and compression strength of stone according to the approval.

Characteristic loads (F_{RK}) acc. to ETA-15/0231		
A	Concrete (cracked and uncracked) acc. to EN 206-1	1.5 kN
B	Clay bricks (Mz) acc. to EN 771-1	3.5 kN
B	Solid lime sandstone (KS) acc. to EN 771-2 / DIN V 106	3.5 kN
C	Vertically perforated clay bricks (Hlz) acc. to EN 771-1 / DIN 105	0.75 kN
C	Sand-lime perforated bricks (KS) nach EN 771-2 / DIN V 106	2.5 kN
C	Lightweight concrete hollow blocks (HbL) acc. to EN 771-3 / DIN V 18151	0.9 kN

Application matrix with standard-utilisation[1] embedment depth = 70 mm

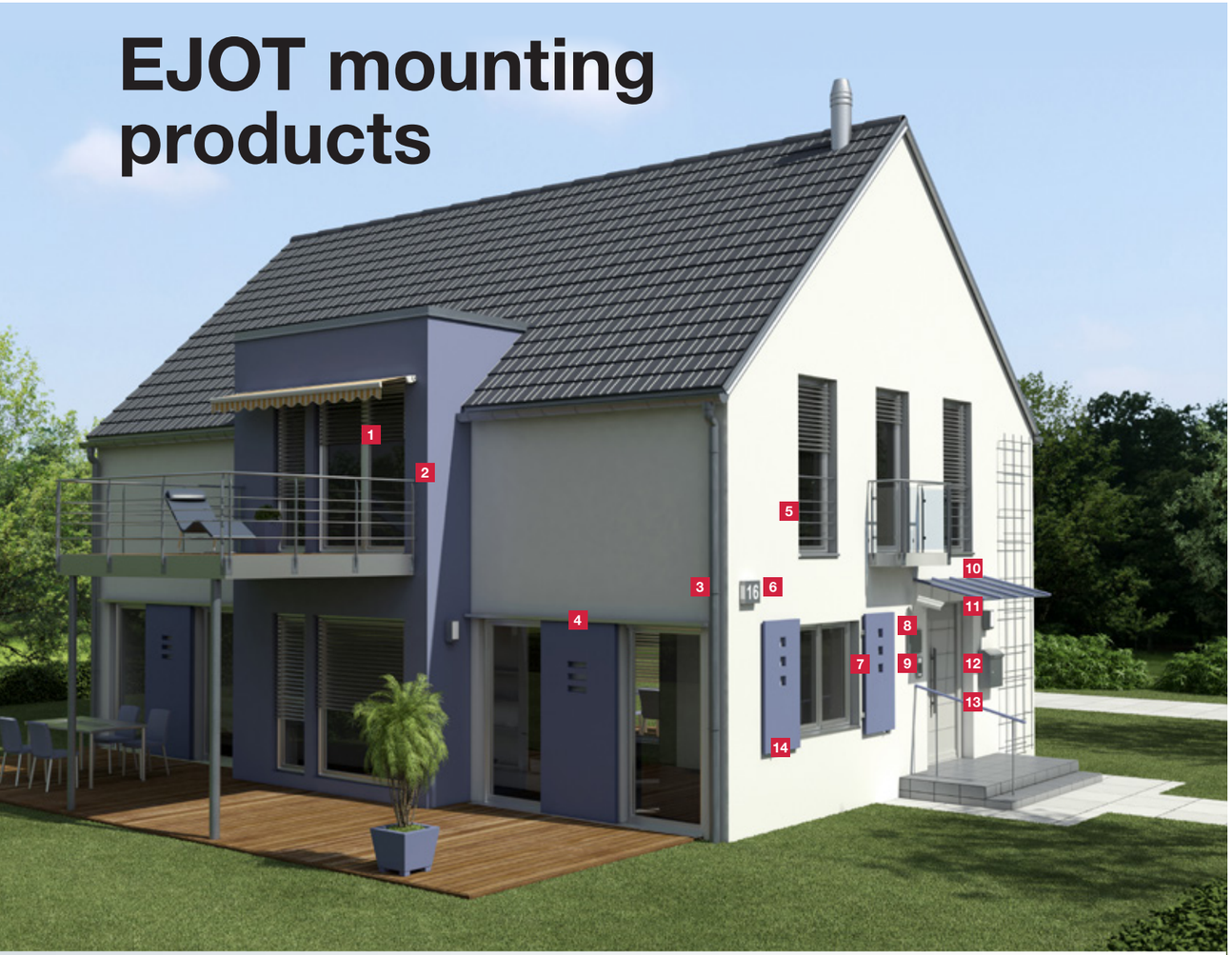
1) Standard case for surface fixed anchorage installation. All the rest assembly situations of the anchor are regarded separately.

2) Please observe the position of the screw head in the insulation and possible underlining of the insulation.

Insulation thickness[2]	To allow for differences in thicknesses of build up (adhesive and existing render)					
(mm)	10	30	50	70	90	110
20	100	120	140	160	180	200
40	120	140	160	180	200	220
60	140	160	180	200	220	240
80	160	180	200	220	240	260
100	180	200	220	240	260	280
120	200	220	240	260	280	300
140	220	240	260	280	300	
160	240	260	280	300		
180	260	280	300			
200	280	300				
220	300					

Product range			
Product name and length (mm)	Article number Zinc-plated steel	Packing unit (pcs.)	Palett units (pcs.)
EJOT SDF-S *plus* 8UB x 100	8786 100 460	100	12,000
EJOT SDF-S *plus* 8UB x 120	8786 120 460	100	12,000
EJOT SDF-S *plus* 8UB x 140	8786 140 460	100	12,000
EJOT SDF-S *plus* 8UB x 160	8786 160 460	100	7,200
EJOT SDF-S *plus* 8UB x 180	8786 180 460	100	7,200
EJOT SDF-S *plus* 8UB x 200	8786 200 460	100	7,200
EJOT SDF-S *plus* 8UB x 220	8786 220 460	100	7,200
EJOT SDF-S *plus* 8UB x 240	8786 240 460	100	upon request
EJOT SDF-S *plus* 8UB x 260	8786 260 460	100	upon request
EJOT SDF-S *plus* 8UB x 280	8786 280 460	100	upon request
EJOT SDF-S *plus* 8UB x 300	8786 300 460	100	upon request

EJOT mounting products



EJOT mounting elements provide strength where exterior attachments and visual aesthetics are key. Where the outer shell of the building structure is carrying the thermal insulation and light to heavy mounted parts, this range of products offers an efficient solution for all construction and static requirements.

- For retrofitting and for the planned integration into new ETICS
- Tested and controlled quality
- Always a force-locked joint
- Reduced thermal bridging
- Minimal interference with the top layer – easy to seal
- Protects against damage and renovations

1. Balcony railing
2. Pipe brackets
3. Sliding roller shutter guide rail
4. French balcony
5. House number
6. Folding shutters in front windows
7. Motion sensors
8. Door Bell
9. Canopy
10. Wall light
11. Letter box
12. Hand rail for staircase
13. Trellis
14. Folding shutter locking mechanism

Mounting elements for **unplanned fitting**

5 **8**

EJOT Spiral anchor

Spiral-shaped plastic assembly anchor including sealing washer and integrated threaded sleeve. The EJOT spiral anchor is the optimum fastening solution of light attachment parts to ETICS facades, for example:

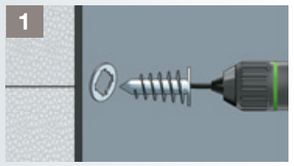
- Lightweight signs
- House numbers
- Letterboxes
- Lights

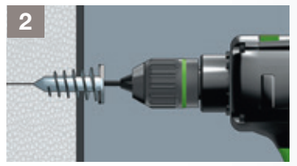
The recommended service load for each fixing point is max. 5 kg

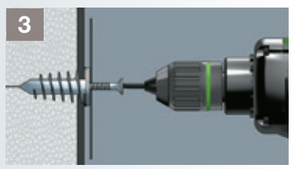
Product advantages:

- Zero thermal transmission
- Easy and safe installation
- No pre-drilling necessary
- Commercially available assembly tool

Spiral anchor	**5, 8**
Iso Dart	**2, 5, 7, 8, 10, 11, 13, 14**
Power Bloc	**9, 12, 13**
Iso Corner	**1, 3, 4, 6**







You will find more detailed information and technical specifications for this range of products in our special catalogue "Fastening solutions for mounted products". Request now: m.newell@ejot.co.uk

Mounting elements for
unplanned fitting

2 5 7 8 10 11 13 14

EJOT Iso-Dart

The EJOT Iso-Dart is a fastening system comprising one installation bush made of plastic including sealing washer and one facade anchor (Ø 8 mm).

EJOT Iso-Dart for the retro-fit of light to medium heavy mounted parts to ETICS facades made of EPS, mineral wool and mineral foam.

EJOT Iso-Dart will accept common coarse threaded screws up to Ø 9mm or hanger bolts Ø 9 mm with neck thread M10, e.g.:

- Downpipe brackets
- Signs and billboards
- Lighting
- Folding shutter locking mechanism

Product advantages:
- Reduces the thermal transmission by thermal decoupling (chi-value 0.002 W/K acc. to TR025)
- High load-bearing capacity by anchoring to the substrate
- Waterproofing against the plaster shell by high-quality EPDM sealing washer
- Verification of driving rain security in conformity to DIN EN 19050
- Easy and safe installation

EJOT facade anchor	
Drill hole diameter	8 mm
Drill hole depth $h_1 \geq$ in substrate	80 mm
Screw drive	TORX T30

You will find more detailed information and technical specifications for this range of products in our special catalogue “Fastening solutions for mounted products”. Request now: wdvs@ejot.de

EJOT Iso-Dart

Preliminary recommended working loads

Surface	Raw density class	Minimum compressive strength	Axial tensile strength		Shear force carrying capacity*	
	ρ [kg/dm³]	f_b [N/mm²]	kN	kg	kN	kg
Concrete ≥ C12/15	-	-	0.30	30	0.15	15
Solid brick	≥ 1.8	12	0.30	30	0.15	15
Solid lime sand brick	≥ 1.8	12	0.30	30	0.15	15
Lightweight concrete solid brick	≥ 0.5	4	0.25	25	0.15	15
Vertically perforated brick	≥ 0.9	12	0.25	25	0.15	15
Perforated lime sand brick	≥ 1.6	12	0.25	25	0.15	15
Hollow block from light-weight concrete	≥ 0.5	2	0.15	15	0.15	15
Porous concrete	≥ 0.5	4	0.20	20	0.15	15
Chipboard and OSB boards, d ≥ 15 mm	-	-	0.20	25	0.10	10
Solid construction timber (KVH), d ≥ 60mm	-	-	0.30	30	0.15	15

Details apply for the transversal force transmission directly on the plastic bush.

Application matrix:

[1] Tolerance compensation up to 30 mm

[2] Assembly the screw without anchor sleeves - pre-drill only up to the substrate

Insulation thickness	Concrete and masonry[1]	Solid wood[2]	Timber composite plates[2] (OSB, wood chipboard d≥18 mm)
(mm)			
80	EJOT Iso-Dart 80	-	-
100	EJOT Iso-Dart 100	-	-
120	EJOT Iso-Dart 120	EJOT Iso-Dart 100	EJOT Iso-Dart 80
140	EJOT Iso-Dart 140	EJOT Iso-Dart 120	EJOT Iso-Dart 100
160	EJOT Iso-Dart 160	EJOT Iso-Dart 140	EJOT Iso-Dart 120
180	EJOT Iso-Dart 180	EJOT Iso-Dart 160	EJOT Iso-Dart 140
200	EJOT Iso-Dart 200	EJOT Iso-Dart 180	EJOT Iso-Dart 160
220	EJOT Iso-Dart 220	EJOT Iso-Dart 200	EJOT Iso-Dart 180
240	EJOT Iso-Dart 240	EJOT Iso-Dart 220	EJOT Iso-Dart 200
260	EJOT Iso-Dart 260	EJOT Iso-Dart 240	EJOT Iso-Dart 220
280	EJOT Iso-Dart 280	EJOT Iso-Dart 260	EJOT Iso-Dart 240
300	-	EJOT Iso-Dart 280	EJOT Iso-Dart 260
320	-	-	EJOT Iso-Dart 280

Product range:

EJOT Iso-Dart comprising:
1 installation bush
1 sealing washer
1 EJOT facade anchor

One installation bit per package provided

Product name	**Product code**	Pieces / pack
EJOT Iso-Dart 80	**8500 080 440**	10
EJOT Iso-Dart 100	**8500 100 440**	10
EJOT Iso-Dart 120	**8500 120 440**	10
EJOT Iso-Dart 140	**8500 140 440**	10
EJOT Iso-Dart 160	**8500 160 440**	10
EJOT Iso-Dart 180	**8500 180 440**	10
EJOT Iso-Dart 200	**8500 200 440**	10
EJOT Iso-Dart 220	**8500 220 440**	10
EJOT Iso-Dart 240	**8500 240 440**	10
EJOT Iso-Dart 260	**8500 260 440**	10
EJOT Iso-Dart 280	**8500 280 440**	10

9 12 13

EJOT® Power-Bloc

Product description:
The EJOT Power-Bloc is foam moulded cuboid made of EPS with high mass density. A surrounding 20 mm grid specifies the exact dimension to be cut.

Applications:
Due to the tough elasticity of the rigid foam, EJOT Power-Bloc is especially suitable as backings for thermal bridge-free, alien fixations in thermal insulation composite systems of expanded polystyrene (EPS) and rock wool (SW). Furthermore, they may also be used as pressure pads for medium-heavy loads.

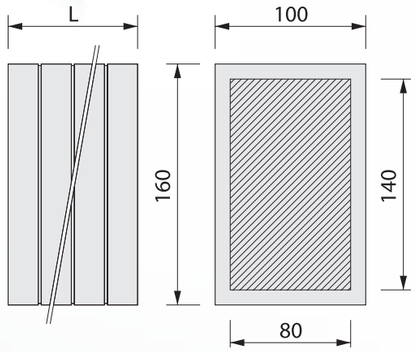
Timber or tapping screws are suitable for the screw connection in the EJOT Power-Bloc as well as such with cylindrical thread and large pitch (frame screws).

Thermal bridge free subcontracted assembly is possible, e.g., with:
- Pipe brackets
- Trap and casement fastener
- Billboards
- Clothes hook holders

Product benefits:
- Minimum thermal bridging
- Many possible applications

Dimensions:

Size	160 x 100 mm
Effective area	140 x 80 mm
Length L	1000 mm
Mass density	140 kg/m³



Product range

Product name	Product code	Pieces / pack
EJOT Power-Bloc 160x100x1000	**8788 160 040**	4

Optional accessories:

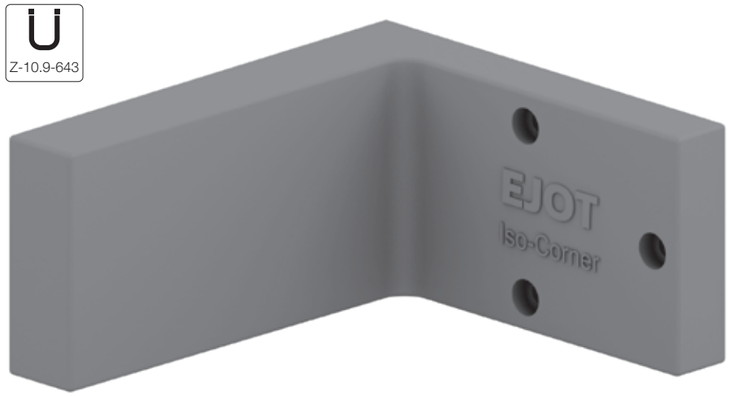
With application cases as sole compression underlay depending on the mounting elements (e.g., socket plate, wall light):
EJOT facade anchor

For application cases with thermal bridge free subcontracted assembly Commercially available chipboard or tapping screws min. screw-in depth 60 mm, such as e.g.,
EJOT chipboard screws SH3-5.0x70

1 3 4 6

EJOT® Iso-Corner

Ü
Z-10.9-643



Product description
The EJOT® Iso-Corner is an installation angle made of polyurethane hard foam for the planned attachment of add-on parts to ETIC systems.

Together with an anchor set that is tuned to the substrate, as well as an EJOT Delta PT 100 screw for fastening the attachment in the support element, this results in a perfectly coordinated fastening system on the installation angle.

Application range
For the planned retro-fitting of medium heavy to heavy attachments to ETICS facades.

Application examples
- Railings
- Guardrails
- Window and sliding shutters
- Consoles, f.e. for air conditioning units

Included in delivery

Order description	PU	Article number
EJOT® Iso-Corner 140	1 pc.	**8778 140 070**
EJOT® Iso-Corner 200	1 pc.	**8778 200 070**
EJOT® Iso-Corner 300	1 pc.	**8778 300 070**

Benefits
- One element / two installation surfaces
- Cut to length at the job site – the perfect adaptation to the surface
- Load application with a distance up to 20 mm to the installation surface permitted (bridging of non-load-bearing layers e.g. plaster)
- High reliability and load-carrying capacity with this building authorities approved system
- Reduces cold bridging through thermal decoupling
- Can be combined with special Iso-Corner fastening kits (facade anchor or chemical anchor system)
- Fixing the attachment with direct assembly: pre-drill / screw in / done
- Variable screw position and number for highest flexibility / adjustment to the attachment

Technical Data	
Base plate	140 x 270 mm
Total height EJOT Iso-Corner 140	140 mm
Total height EJOT Iso-Corner 200	200 mm
Total height EJOT Iso-Corner 300	300 mm

YouTube

EJOT® Iso-Corner video:
https://youtu.be/qY5IDZSAiK0

EJOT® Iso-Corner Set Delta PT

consisting of 2 pcs. EJOT Delta PT® 100x60/37 A4

Order description	PU	Article number
EJOT® Iso-Corner Set Delta PT	1 set	8 778 000 060

Product description

The EJOT Delta PT® screw included in delivery has been the benchmark in the automotive industry for reliable and easy direct assembly into plastics for many years.

Application range

For fastening add-on parts on EJOT® Iso-Corner

Benefits

- High load capacity direct fastening into plastic material
- Direct assembly saves time and work steps
- Easy installation
- High fatigue strength
- Safety due to high tensile and torsion strength as well as vibration resistance
- A wide range of possible tightening torques

Technical Data

Core hole Ø	8 mm
Drill hole depth	≥ 40 mm
Screw drive	AF 13

Load application

The load can be applied directly to the installation surface or at a distance up to 20 mm and distinguishes itself from “conventional add-on parts” as a result.

Sufficient compressive strength for the barrier sheet has to be assured.

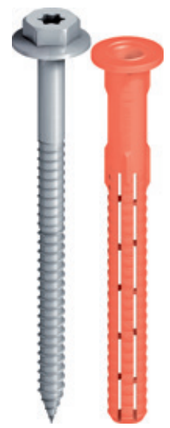
EJOT® Iso-Corner Kit SDF

consisting of 3 pcs. EJOT® facade anchors SDF-KB-10H

ETA-10/0305 · SW13/T40

Ø [mm]	Anchor length L [mm]	Tolerance compensation – non-load-bearing layers (adhesives, plasters, etc.) [mm]	PU	Order description	Article number
Anchors with steel screws with zinc-plated Cr(VI)-free coating (-V)					
10	100	0*	1 kit	EJOT® Iso-Corner Kit SDF 100	8 513 100 423
10	120	0 - 20	1 kit	EJOT® Iso-Corner Kit SDF 120	8 513 120 423
10	140	20 - 40	1 kit	EJOT® Iso-Corner Kit SDF 140	8 513 140 423

*on flat surface areas



Application range

- For fastening the EJOT® Iso-Corner to concrete, rain screens, solid and perforated brick masonry

EJOT® Iso-Corner Kit SDP

consisting of 3 pcs. EJOT® facade anchors SDP-KB-10G

ETA-12/0502 · SW13/T40

Ø [mm]	Anchor length L [mm]	Tolerance compensation – non-load-bearing layers (adhesives, plasters, etc.) [mm]	PU	Order description	Article number
Anchors with steel screws with zinc-plated Cr(VI)-free coating (-V)					
10	100	0*	1 kit	EJOT® Iso-Corner Kit SDP 100	8 532 100 423
10	120	0 - 20	1 kit	EJOT® Iso-Corner Kit SDP 120	8 532 120 423
10	140	20 - 40	1 kit	EJOT® Iso-Corner Kit SDP 140	8 532 140 423

*on flat surface areas

Application range

- For fastening the EJOT® Iso-Corner to aerated concrete

Accessories (optional)

Order description	PU	Article number
Blow-out pump 8 mm	1	9 150 300 000
Cleaning brush 12	1	9 150 300 012

EJOT® Iso-Corner Kit Injection

consisting of 3 pcs. anchor rods AST and 3 pcs. mesh sleeves USF

Order description	PU	Article number
EJOT® Iso-Corner Kit Injection consisting of 3 pcs. anchor rods AST M10x170-V and 3 pcs. mesh sleeves USF 16x85	1 kit	**8 778 000 170**

Anchor rod AST

approved for polyester and vinyl ester composite mortar

Application range

- For embedment in concrete and solid brick
- For embedment in perforated brick in combination with mesh sleeve

Properties of AST steel

- Anchor rod: strength grade 5.8 or 6.8 acc. to EN ISO 898-1
- Nut: strength grade 5 or 6 acc. to EN 20898-2
- Washer: acc. to EN ISO 7089

Note

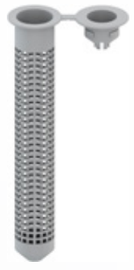
To determine the characteristic load capacity in concrete, approval **ETA-16/0107** has to be considered. To determine the characteristic load capacity in solid and perforated brick, approval **ETA-16/0089** has to be considered.

Embedment depth h_{ef}	
Concrete	≥ 60 mm
Solid brick masonry	90 mm
Perforated brick masonry*	85 mm

Drill hole diameter d_0	
Concrete	12 mm
Solid brick masonry	12 mm
Perforated brick masonry*	16 mm
*When using the mesh sleeve USF 16x85	

Mesh sleeve USF

ETA-16/0089



Application range

- For embedment in perforated brick

Characteristics

- Guarantees exact calibration of threaded rod

Note

Please observe the corresponding approvals during planning and processing.

Accessories (optional)

Order description	Applications	PU	Article number
Applicator gun AP 300 ml		1	9 570 010 300
Blow-out pump 8 mm	Facade anchors	1	9 150 300 000
Cleaning brush 14	without mesh sleeve	1	9 150 300 014
Cleaning brush 18	with mesh sleeve	1	9 150 300 018

Mortar cartridge USF

Vinyl resin, styrene-free

ETA-16/0107
ETA-16/0089
F120

Order description	Content [ml]	Composite mortar	PU	Article number
Multifix USF 280 ml	280	Vinyl resin, styrene-free	1	**9 571 000 280**

Application range

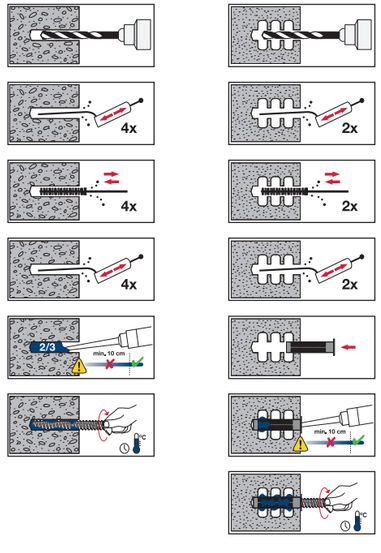
- For installation in cracked concrete (option 1) and non-cracked concrete (option 7) (ETA-16/0107)
- For installation in masonry (ETA-16/0089)
- For installation in natural stone (without approval)

Benefits

- Processing with common applicator gun possible
- Can be used in wet concrete and water-filled drill holes
- Delivery including mixing nozzle

Note

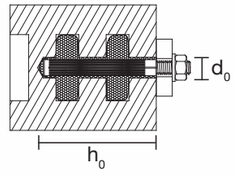
Please observe the corresponding approvals during planning and processing.
Winter version upon request



Installation parameters		
Anchor rod	d_0 [mm]	$h_{ef} = h_0$ min - max [mm]
M10	12	60 - 200

Installation parameters / consumption in perforated building materials*				
Mesh sleeve	Anchor rod	d_0 [mm]	h_0 [mm]	Number of fills
USF 16x85	M10	16	90	11
*Filling of the mesh sleeve complete + 15%				

Processing time and minimum curing time			
°C			
-10*	1h 30’	24h	48h
≥ -5	1h 30’	14h	28h
≥ 0	45’	7h	14h
≥ +5	25’	2h	4h
≥ +10	15’	1h 20’	2h 40’
≥ +20	6’	45’	1h 30’
≥ +30	4’	25’	50’
≥ +35	2’	20’	40’
+40	1.5’	15’	30’
*Min. cartridge temperature +15 °C			



EJOT technical support on-site

When specifying outside of any standard technical parameters our technical team may recommend a thorough test report, carried out on site by a qualified EJOT engineer.

The reason is straightforward. Whilst we can be sure of the technical performance of our products, no-one can second guess the integrity of substrates. Where high loadings into critical structural areas create potential risk, we want our customers to have absolute peace of mind and confidence in the match between fixing and substrate - and the correct installation process.

Much more than 'added value'

Whether it's ourselves instigating the survey, or the installer, contractor or a structural engineer, our technical team will gather information in advance. That means our engineers are briefed on product, substrate, and the impact of climate and environmental conditions.

With site-induction cleared, the testing process will follow set procedures that have been developed by EJOT's technical teams globally.

Our engineers then compile a report. This data provides a mean-average conclusion that will enable any specifier to compare loadings against any necessary European Technical Approval specifications.

Typical site test process

- **Identification**
  EJOT's technical support team will assess the product application specification
- **Recommendation**
  This may require an on-site test survey. Alternatively, anyone in the specification to installation chain may make this request
- **Information**
  Our technical team will issue a 'site test requisition form' in advance
- **Survey**
  Multiple points are tested to point of substrate failure
- **Results**
  Compiled and data documented for assessment

EJOT technical support off-site

EJOT APPLITEC is at the heart of our operations worldwide; the design, origination, testing and manufacturing of progressive fastening systems that provide high installation performance and longevity in application.

Here in the UK, our APPLITEC Centre has become an industry-wide resource, often in partnership with leading OEMs, sharing an objective to develop better, more efficient products for the modern building envelope.

When customers need support with technical issues on-site, particularly where there are structural implications, our team of Applitec technicians are able to replicate conditions off-site – providing a resource of immeasurable value.

EJOT UK's Applitec Centre is equipped with state-of-the-art equipment, and the technical ability required to recreate and test virtually any scenario, during or prior to installation.

Typically, testing reports compiled by Applitec technicians can enable structural engineers to determine if an incorrect installation is still fit for purpose. Equally, where procedures demand, test conditions can be created as a means of forecasting performance.

Contact the Applitec team,
01977 68 70 40

Email
applitec@ejot.co.uk

Anchor selection table

Anchor with European Technical Approval / Assessment (ETA)

		Insulation boards				Rail systems		Brick slip systems
		ejotherm STR U 2G P. 12	*ejotherm* STR H / A2 P. 18 / 20	EJOT H1 eco P. 28	EJOT H3 P. 30	*ejotherm* SDK U P. 38	*ejotherm* NK U P. 38	EJOT SDF-S *plus* 8UB P. 40
Normal weight concrete C 12/15 acc. to EN 206-1	A	●	–	●	●	●	●	–
Normal weight concrete C 16/20 - C 50/60 acc. to EN 206-1	A	●	–	●	●	●	●	●
Pre-cast concrete panels C 16/20 - C 50/60	A	●	–	○	○	●	○	–
Clay bricks (Mz) acc. to EN 771-1 / DIN 105	B	●	–	●	●	●	●	●
Solid lime sandstone (KS) acc. to EN 771-2 / DIN EN 106	B	●	–	●	●	●	●	●
Solid masonry of lightweight bricks (V) acc. to EN 771-3 / DIN 18152	B	●	–	○	○	●	●	–
Vertically perforated bricks (Hlz) acc. to EN 771-1 / DIN 105	C	●	–	●	●	●	●	●
Vertically cored reference bricks (Hlz) acc. to ÖNORM B 6124	C	●	–	–	–	●	–	–
Sand-lime sand bricks (KSL) acc. to EN 771-2 / DIN EN 106	C	●	–	●	●	●	●	●
Lightweight concrete hollow blocks (HbL) acc. to EN 771-3 / DIN 18151	C	●	–	○	○	●	●	●
Lightweight aggregate concrete (LAC) acc. to EN 1520	D	●	–	●	–	●	–	–
Autoclaved aerated concrete (AAC 2-AAC 7) acc. to EN 771-4	E	●	–	●	–	●	–	–
Timber and thin steel substrates (without ETA)		–	●	–	–	–	–	–

● Application ruled in the approval
○ One-site test maybe required
- No approval

Screw-in anchor
Hammer-in anchor

Use categories

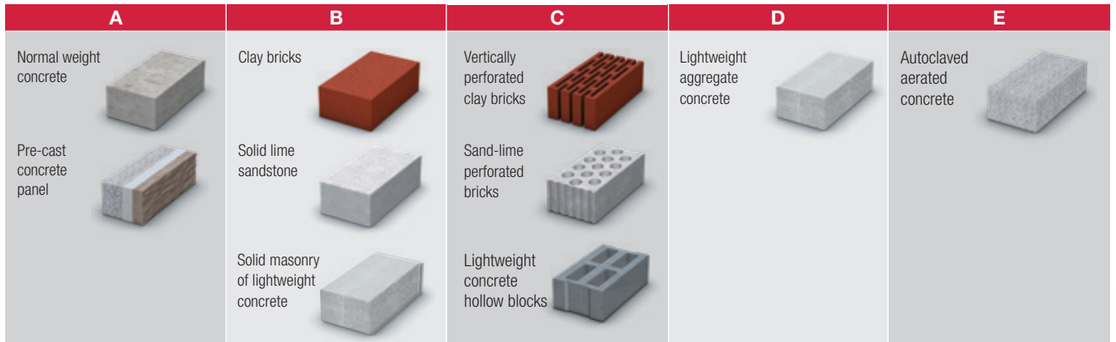
Secure solutions for every construction material

Which anchor do I need for which substrate? What do I do for mixed masonry? Our ***ejotherm*** product range with European Technical Approval / Assessment (ETA) makes it easy for you.

Your advantages
- *Easy anchor choice using a comprehensive product range*
- *Solutions for all insulation materials*
- *Reduced stock volume*

Moreover, you have a special programme with cost-efficient solutions at your hand.

Typical applications
- Rebuilding the stability of damaged ETICS
- Solutions for renovation
- Re-establishing the structural stability of existing pre-cast concrete panels

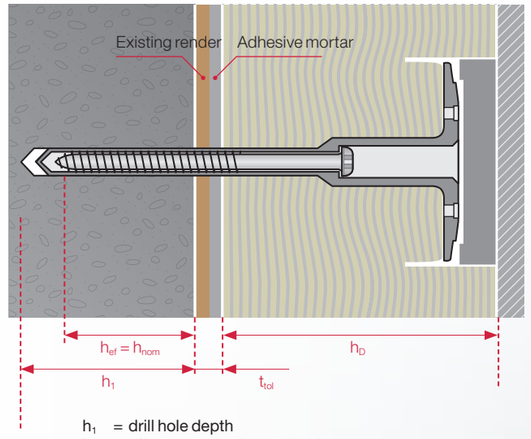


Determining the required anchor lengths

Determining the required anchor length l_D:
effective embedment depth h_{ef}
\+ tolerance compensation t_{tol}
\+ insulation thickness h_D

Determining the tolerance compensation t_{tol}:
non-load-bearing layers (thickness of existing render, wood-wool light weight boards, brick strip tiles etc., existing render is often 20 mm thick)
\+ thickness of the adhesive mortar layer after pressing the insulation material onto the wall (generally, approx. 10 mm)*
\+ additional compensation of uneven facade surfaces*

Notes:
- *Building-specific conditions must always be considered*
- *As long as no other specifications are available, the nominal installation depth h_{nom} corresponds to the effective installation depth h_{ef}*
- *If larger uneven surface on the facade have to be compensated, different anchor lengths may be necessary*
- *Calculations also apply with the recessed assembly of the **ejotherm STR U 2G** and **ejotherm STR U***



h_1 = drill hole depth
h_{ef} = effective embedment depth
h_{nom} = nominal embedment depth ($\geq h_{ef}$)
t_{tol} = tolerance compensation
h_D = insulation thickness

* Facade tolerances are finally compensated by the actual overall thickness of the adhesive mortar layer.

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Website: www.ejot.co.uk

The complete solution for the modern building envelope

This catalogue showcases our current portfolio of high performance self-drilling and self-tapping fasteners, storm washers, rivets, accessories and specific tooling for every installation process of the roofing and cladding industry.

EJOT's fastening systems encompass every facet of the modern building envelope and this range is complemented by other highly specialist products and systems, all designed, manufactured and supported by the EJOT Group, worldwide.

Ask about our product and service literature for:

- Rainscreen, steel framing and insulation
- ETICS and external wall insulation
- Flat roofing systems
- Metal anchoring systems for concrete substrates
- Best practice guides

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