

Proven fastening and  
anchoring systems for  
Concrete, Brick and Block Substrates





# High performance products with worldwide technical support

Worldwide the EJOT brand has become synonymous with technical excellence of product and for customer support. Our aim is to continually develop fastening systems that provide the highest level of performance for installers, and outstanding lifetime performance in application.

It is this holistic approach to development and manufacturing that has positioned EJOT as market leaders in so many diverse and international sectors.

Here, in this brochure, we have brought together our current portfolio of products that provide the complete building envelope with the most reliable fixings into concrete, brick and block substrates. Our sales engineers and technical teams will provide you with a knowledge-pool that spans the EJOT Group globally.

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Conformité Européene:  
European Conformity

The CE mark demands an annual audit of the factory production control and product quality assurance.



As a Full Member of the Construction Fixings Association, EJOT UK is committed to the promotion of 'Best Product' and 'Best Installation Practice'.

For further information about standards set by the CFA, visit [www.the-cfa.co.uk](http://www.the-cfa.co.uk)

## 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 100% sure of the technical performance that is engineered into EJOT products, no-one can second guess for example, 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 is ourselves instigating the survey, the installer, contractor or structural engineer, our technical team will gather information in advance by issuing a short but concise form to ensure our engineer is fully briefed.

With site-induction cleared, the testing process will follow set procedures that have been developed by EJOT's technical teams globally. That means our engineers are briefed on product, substrate, and the impact of climate and environmental conditions.

Our engineers then compile a documented report. This data provides a mean-average conclusion that will enable any structural engineer to compare loadings against the 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 at varying heights across the structure, tested to point of substrate failure

- **Results**

Compiled and data documented for assessment by the Structural Engineer

## 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 a holistic objective to develop better, more efficient products for the modern building envelope.



### Solving on-site challenges with off-site technology

When customers need support with technical issues on-site, Applitec technicians are able to replicate conditions off-site - providing a resource of immeasurable value.

There are many scenarios where our team can define or resolve a specific issue, typically installation omissions or substrate inconsistencies. Our laboratory is equipped with state-of-the-art equipment, and the technical ability to test virtually any scenario, during or prior to installation.

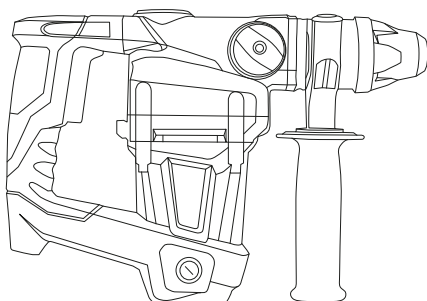


Testing reports compiled by Applitec technicians can enable structural engineers to determine if an incorrect installation is still fit for purpose. Equally, where there are any doubts surrounding substrates, test conditions can be created as a means of forecasting performance.

REGULAR SDS DRILL BIT



EJOT vortex-SDS DRILL BIT



## EJOT vortex-SDS

### Dust removal at source for drilling dense concrete, brick and block

EJOT vortex-SDS has been developed in response to the increasing HSE focus in the UK, on dust removal at source, on site.

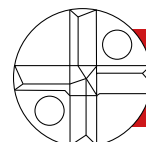
The modular design of the system means fast accurate drilling of holes from 8 to 20mm diameter and depths of up to 450mm.

All EJOT vortex-SDS drilling components have specially designed carbide tips that are engineered specifically for 'vortex-SDS' dust extraction drilling systems. The four-cutter design creates a more precise drill hole whilst remaining noticeably cooler than standard drill bits.

The drill trigger automatically powers the industrial vacuum unit whilst extraction continues for a full 10 seconds when the trigger is released. One trailing cable makes for a safer working environment all round.

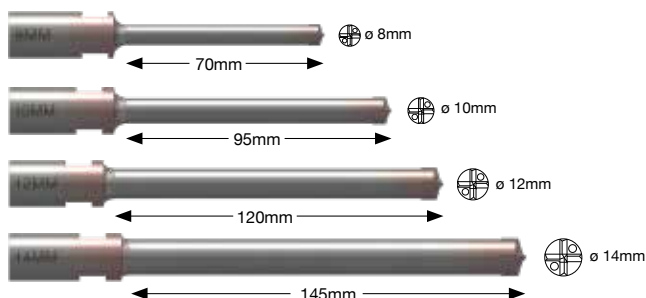
**EJOT vortex-SDS Extension Bar** can be ordered as an optional extra to increase the drilling depth options for 20mm diameter holes to up to 450mm.

### EJOT vortex-SDS DRILL TO HOSE CONNECTOR

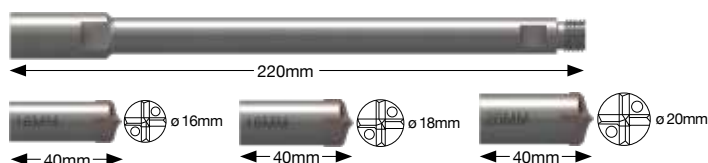


UNIQUE FOUR-CUTTER DESIGN

### EJOT vortex-SDS STANDARD DRILL BITS 8 - 14mm



### EJOT vortex-SDS MODULAR SYSTEM 16 - 20mm



A large construction site with a crane and a building under construction. The crane is lifting a heavy object, and the building has a modern, grid-like facade. The scene is set against a bright sky with some clouds.

# 1

## Self-tapping concrete screw range



EJOT's self-tapping fastener range provides a total solution choice for the modern building envelope. The products chosen to showcase here, have all been specifically developed for high-performance installation into a wide variety of masonry substrates.

## EJOT Masonry Anchor 4H Self Tapping Masonry Screw

### Overview

Manufactured from high quality grade case-hardened carbon steel.

This fastener provides a corrosion resistance finish in Zinc Blue.

### Installation Benefits

Installed with an 8mm Hex drive system, typical applications include steel sections, brackets or tracking being fixed to concrete or solid brick.



### Application

Brackets or tracking to concrete or solid brick

### Material

Carbon Steel

### Fixing

Screw Diameter	6.3mm
Lengths	32 and 45mm
Min Embedment Concrete	25 - 32mm
Effective Clamping Thickness	0 - 20mm
Drill Bit Diameter	5mm SDS

⊗ **8mm Hex Drive**

## FBS-R Button Head BS-R Hex Head Self-tapping Masonry Screws

### Overview

Manufactured from case-hardened steel with a high performance coating to enhance corrosion protection.

### Installation Benefits

For FBS-R, a T30 drive and for BS-R an 8mm AF hexagon drive is required. The twin thread design reduces installation torque. Typical applications include mechanical fixing of insulation and acoustic boards being fixed to concrete.



### Application

Mechanical fixing of insulation and acoustic boards to concrete and brick

### Material

Carbon Steel

### Fixing

Screw Diameter	6.3mm
Lengths	35 - 300mm
Min Embedment Concrete	30mm
Effective Clamping Thickness	0 - 270mm
Drill Bit Diameter	5mm SDS

⊗ **BS-R 8mm Hex Drive**

⊗ **FBS-R T30 Drive**



ETA 07/0013 (ETA only applies to the FBS-R version)  
EAD Pending

## FPS-E 8.0 Aerated Concrete Screw Range

### Overview

Manufactured from non-corrosive A4 stainless steel for maximized resistance. This fastener is designed for fast, efficient fixing into aerated concrete - no pilot hole is required.

### Installation Benefits

Installed with a T30 drive, the approved fastening system provides maximum reliability and cost saving advantages.



### Application

Fixing into aerated concrete - no pilot hole required

### Material

A4 Stainless steel

### Fixing

Screw Diameter	8mm
Lengths	80 - 300mm
Min Embedment Concrete	60mm
Effective Clamping Thickness	20 - 240mm

⊗ **T30 Drive**



ETA 07/0013

## RA-P Anchor 7.5

### Overview

For fixing timber, window and door frames into concrete and brick.

### Installation Benefits

Safely transfers mechanical loads vertically to the assembly frontage without radial force being applied to the substrate. The thread geometry combined with cutting serrations reduce the installation torque, providing complete control in the demanding applications.



### Application

Fixing timber, window and door frames to concrete and brick

### Material

Zinc Plated Steel

### Fixing

Screw Diameter	7.5mm
Lengths	40 - 300mm
Min Embedment Concrete	30 - 60mm
Effective Clamping Thickness	10 - 270mm
Drill Bit Diameter	6mm SDS
✳️ <b>T30 Drive</b>	

## JC2 KB 6 Concrete Screw

### Overview

JC2-KB: Hexagon head with combined washer

Quick and easy to install, requiring no additional tools. Able to take high loads even with small spacings and edge distances. Removable, reusable - ideal for temporary fixings.

### Installation Benefits

The screw is installed directly through the fixture into the pre-drilled hole. The thread is self-cutting into the concrete, creating a mechanical interlock over the total anchorage depth. Removable and can be re-used.



### Application

ETA approved concrete screws for cracked and non-cracked concrete

### Material

Zinc Plated Carbon Steel

### Fixing

Lengths	45 - 100mm
Min Embedment Concrete	40mm
Effective Clamping Thickness	5 - 60mm
Drill Bit Diameter	6mm SDS
⊕ <b>SW13/T30 Drive</b>	



ETA 17/0835 - Option 1 approval available  
ETA 18/0221  
EAD 330232-00-0601

## JC2 KB 8 Concrete Screw

### Overview

JC2-KB: Hexagon head with combined washer

Quick and easy to install, requiring no additional tools. Able to take high loads even with small spacings and edge distances. Removable, reusable - ideal for temporary fixings.

### Installation Benefits

The screw is installed directly through the fixture into the pre-drilled hole. The thread is self-cutting into the concrete, creating a mechanical interlock over the total anchorage depth. Removable and can be re-used.



### Application

ETA approved concrete screws for cracked and non-cracked concrete

### Material

Zinc Plated Carbon Steel

### Fixing

Lengths	60 - 120mm
Min Embedment Concrete	55mm
Effective Clamping Thickness	5 - 65mm
Drill Bit Diameter	8mm SDS
⊕ <b>SW13/T40 Drive</b>	



ETA 17/0835 - Option 1 approval available  
EAD 330232-00-0601

## JC2 KB 10 Concrete Screw

### Overview

JC2-KB: Hexagon head with combined washer  
Quick and easy to install, requiring no additional tools.  
Able to take high loads even with small spacings and edge distances. Removable, reusable - ideal for temporary fixings.

### Installation Benefits

The screw is installed directly through the fixture into the pre-drilled hole. The thread is self-cutting into the concrete, creating a mechanical interlock over the total anchorage depth. Removable and can be re-used.



ETA 17/0835 - Option 1 approval available  
EAD 330232-00-0601



### Application

ETA approved concrete screws for cracked and non-cracked concrete

### Material

Zinc Plated Carbon Steel

### Fixing

Lengths	80 - 140mm
Min Embedment Concrete	70mm
Effective Clamping Thickness	10 - 70mm
Drill Bit Diameter	10mm SDS

⊕ **SW15**

## JC2 ST 6 Countersunk Head Concrete Screw

### Overview

JC2-ST: Countersunk head  
Quick and easy to install, requiring no additional tools.  
Able to take high loads even with small spacings and edge distances. Removable, reusable - ideal for temporary fixings.

### Installation Benefits

The screw is installed directly through the fixture into the pre-drilled hole. The thread is self-cutting into the concrete, creating a mechanical interlock over the total anchorage depth. Removable and can be re-used.



ETA 17/0835 - Option 1 approval available  
ETA 18/0221  
EAD 330232-00-0601



### Application

ETA approved concrete screws for cracked and non-cracked concrete

### Material

Zinc Plated Carbon Steel

### Fixing

Lengths	60 and 100mm
Min Embedment Concrete	40mm
Effective Clamping Thickness	20 - 60mm
Drill Bit Diameter	6mm SDS

⊕ **T30 Drive**

## JC2-IT Combined Internal thread M8/M10

### Overview

JC2-IT: With combined internal thread M8/M10  
Quick and easy to install, requiring no additional tools.  
Able to take high loads even with small spacings and edge distances. Removable, reusable - ideal for temporary fixings.

### Installation Benefits

The screw is installed directly into the pre-drilled hole. The thread is self-cutting into the concrete, creating a mechanical interlock over the total anchorage depth. Removable and can be re-used.



ETA 17/0835 - Option 1 approval available  
EAD 330232-00-0601



### Application

ETA approved concrete screws for cracked and non-cracked concrete

### Material

Zinc Plated Carbon Steel

### Fixing

Lengths	45 and 60mm
Min Embedment Concrete	40mm
Effective Clamping Thickness	5 - 20mm
Drill Bit Diameter	6mm SDS

⊕ **SW13**

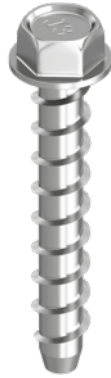
### Bi Met Screw Anchor (304ss) 7.5 x 45

#### Overview

Manufactured from high quality 304 grade stainless steel, with carbon steel lead threads for maximum performance.

#### Installation Benefits

Installed with a 10mm 'Hex' drive system, typical applications include steel sections, brackets or tracking being fixed to concrete or solid brick.



#### Application

Steel sections, brackets or tracking to concrete or solid brick

#### Material

Stainless Steel grade 304

#### Fixing

Screw Diameter	7.5mm
Lengths	45mm
Min Embedment Concrete	30mm
Effective Clamping Thickness	0 - 15mm
Drill Bit Diameter	6mm SDS

⊕ **10mm Hex Drive**



### EJOT Technical Services

EJOT's self-tapping fasteners present a total range solution to the building envelope.

Once installed, specifiers and contractors alike, can be sure that our fastenings will support system performance in application – providing longevity and high performance in their own right.

**For product information and technical support, please call Support team on 01977 687040 or visit EJOT UK online**



## Nylon Expansion Anchors



EJOT's nylon expansion anchoring range provides extensive solutions for lightweight to heavier details, cost-effectively.

Application-specific variants allow for high performance fixing into a wide variety of substrates and our technical team will advise on suitability of performance.

## ND-K 6.0 V Hammer Set Anchor

### Overview

Nail manufactured from zinc plated carbon steel. Pre-assembled with high grade nylon sleeve.

### Installation Benefits

This hammer set anchor provides fast and easy installation into all pressure resistant building materials, typically PVC and metal sections.



### Application

Light weight rails and brackets to concrete and solid brick

### Material

Zinc plated carbon steel


### Characteristics

Pre-assembled with nail screw

Nail head with pozi drive for removal or adjustment  
Plug collar acts as a plastic insulating washer to aid in preventing galvanic corrosion

### Fixing

Lengths	45 - 70mm
Min Embedment Concrete	30mm
Effective Clamping Thickness	0 - 40mm
Drill Bit Diameter	6mm SDS

 **Hammer set drive**



## ND-K 8.0 V or E Hammer-set Anchor

### Overview

Nail manufactured from zinc plated carbon steel or A2 stainless steel. Pre-assembled with high grade nylon sleeve.

### Installation Benefits

This hammer set anchor provides fast and easy installation into all pressure resistant building materials, typically PVC and metal sections.



### Application

Light weight rails and brackets (PVC and Metal sections) to concrete and solid brick

### Material

Zinc plated carbon steel. Stainless steel grade A2


### Characteristics

Pre-assembled with nail screw

Nail head with pozi drive for removal or adjustment  
Plug collar acts as a plastic insulating washer to aid in preventing galvanic corrosion

### Fixing

Lengths	60 - 100mm
Min Embedment Concrete	30mm
Effective Clamping Thickness	0 - 70mm
Drill Bit Diameter	8mm SDS

 **Hammer set drive**



## SDF-KB 10V x Length V or E Screw-set Anchor

### Overview

Available in zinc plated carbon steel or A4 Stainless steel, the screw's hexagonal head drive and integrated internal drive creates optimised load-transmission for a secure installation.

### Installation Benefits

Collar flange provides thermal separation between screw and attachment as well as a seal ring to prevent moisture penetration.

Radially expanding for consistent expansion, a double safety lock guards against torsional rotation. The nylon sleeve is coloured for easy identification.



### Application

Installing helping hand brackets and metal sections to concrete and masonry

### Material


Zinc plated carbon steel with nylon plug (V)  
Stainless Steel grade A4 with Nylon Plug (E)

### Characteristics

Hex head with Flange Washer  
Minimum 40mm embedment in concrete  
Two installation depths  
Short expansion - fast installation  
High bending moment

### Fixing

Lengths Carbon Steel (V)	50 - 220mm
Lengths Stainless Steel A4 (E)	50 - 70mm
Min Embedment Concrete	40mm
Min Embedment Masonry	50mm
Drill Bit Diameter	10mm SDS

 **13mm Hex Drive**

 **T40 Drive**



ETA 10/0305

## SDF-KB 10H x Length V or E Screw-set Anchor

### Overview

Available in zinc plated carbon steel or A4 stainless steel, the screw's countersunk head drive and integrated internal drive creates optimised load-transmission for a secure installation into lightweight concrete and all hollow and perforated building materials. Can also be used in aerated concrete.

### Installation Benefits

Radially expanding for consistent expansion, a double safety lock guards against torsional rotation. The nylon sleeve is coloured for easy identification.



ETA 10/0305



### Application

Installing helping hand brackets and metal sections to concrete and masonry

### Material

Zinc plated carbon steel with nylon plug (V)  
A4 Stainless Steel with Nylon Plug (E)

### Characteristics

Hex head with Flange Washer  
Reliable hold in problematic substances  
Radial expansion

### Fixing

Lengths Carbon Steel (V)	80 - 220mm
Lengths Stainless Steel A4 (E)	80 - 220mm
Min Embedment Concrete	70mm
Min Embedment Masonry	70mm
Drill Bit Diameter	10mm SDS
⊕ <b>13mm Hex Drive</b>	

## SDP-KB 10G x Length E Screw-set Anchor

### Overview

Available in zinc plated carbon steel or A4 stainless steel, this facade plug provides a high load capacity and optimized transmission.

### Installation Benefits

A double stage screw combines expansion zones to create a secure and positive installation into aerated concrete and masonry. Rotary motion drill action acts to create a fast installation. The nylon sleeve is coloured for easy identification.



ETA 12/0502



### Application

Installing helping hand brackets and metal sections to aerated concrete

### Material

A4 Stainless Steel with Nylon Plug

### Characteristics

Hex head with Flange Washer  
Reliable hold in problematic substances  
High load capacity

### Fixing

Lengths	80 - 220mm
Min Embedment	70mm
Drill Bit Diameter	10mm SDS without hammer action
⊕ <b>13mm Hex Drive</b>	

## SDF-S 8V x Length V Screw-set Anchor

### Overview

Provides very high bearing loads when fixing timber and metal substructures to concrete and solid brick masonry.

### Installation Benefits

Small drill-hole diameter required. Ease of product identification on site through different sleeve colours. The nylon sleeve is coloured for easy identification.



ETA 15/0387



### Application

Installing timber substructures to solid brick, masonry and concrete

### Material

Zinc Plated Carbon Steel with Nylon Plug (V)

### Characteristics

Countersunk Head  
Small Drill hole diameter

### Fixing

Lengths	80 - 220mm
Min Embedment Concrete	50mm
Min Embedment Masonry	50mm
Drill Bit Diameter	8mm SDS
⊕ <b>T30 Drive</b>	

## SDF-S 10V x Length V Screw-set Anchor

### Overview

Designed for the installation of wood or metal components, typically the structural fastening of gates, doors, windows and square timber. The anchor provides an embedment depth of just 40mm in concrete and 50mm in masonry.

### Installation Benefits

A short expansion zone and optimized radial design creates fast installation and high side load capability. A double safety lock guards against torsional rotation. The nylon sleeve is coloured for easy identification.



ETA 10/0305



### Application

Installing timber substructures to solid brick, masonry and concrete

### Material

Zinc Plated Carbon Steel with Nylon Plug (V)

### Characteristics

Countersunk Head  
Shallow embedment 40mm in concrete  
Short expansion - fast installation  
High bending moment  
Radial expansion

### Fixing

Lengths	50 - 220mm
Min Embedment Concrete	40mm
Min Embedment Masonry	50mm
Drill Bit Diameter	10mm SDS
⚙️ T40 Drive	



## SDF-S 10H x Length V or E Screw-set Anchor

### Overview

Available in zinc plated carbon steel or A4 stainless steel, internal drive creates optimised load-transmission for a secure installation in to hollow and perforated substrates. Can also be used in aerated concrete.

### Installation Benefits

Collar flange provides thermal separation between screw and attachment as well as a seal ring to prevent moisture penetration. Radially expanding for consistent expansion, a double safety lock guards against torsional rotation. The nylon sleeve is coloured for easy identification.



ETA 10/0305



### Application

Installing timber substructures to solid brick, masonry and concrete

### Material

Zinc Plated Carbon Steel with Nylon Plug (V)  
A4 Stainless Steel with Nylon Plug (E)

### Characteristics

Countersunk Head  
Reliable hold in problematic substrates  
Radial expansion

### Fixing

Lengths	80 - 300mm
Min Embedment Concrete	70mm
Min Embedment Masonry	70mm
Drill Bit Diameter	10mm SDS
⚙️ T40 Drive	



## SDP-S 10H x Length V or E Screw-set Anchor

### Overview

Available in zinc plated carbon steel or A4 stainless steel, the screw's internal torx drive creates optimised load-transmission for a secure installation into lightweight concrete and all perforated building materials.

### Installation Benefits

Radially expanding for consistent expansion, a double safety lock guards against torsional rotation. The nylon sleeve is coloured for easy identification.



ETA 12/0502



### Application

Installing timber substructures to lightweight concrete and perforated building material

### Material

Zinc Plated Carbon Steel with Nylon Plug (V)  
A4 Stainless Steel with Nylon Plug (E)

### Characteristics

Countersunk Head  
Combined expansion zones  
High load capacity

### Fixing


Lengths Carbon Steel (V)	80 - 220mm
Lengths Stainless Steel A4 (E)	80 - 220mm
Min Embedment Concrete	70mm
Min Embedment Masonry	70mm
Drill Bit Diameter	10mm SDS without hammer action
⚙️ T40 Drive	





# 3

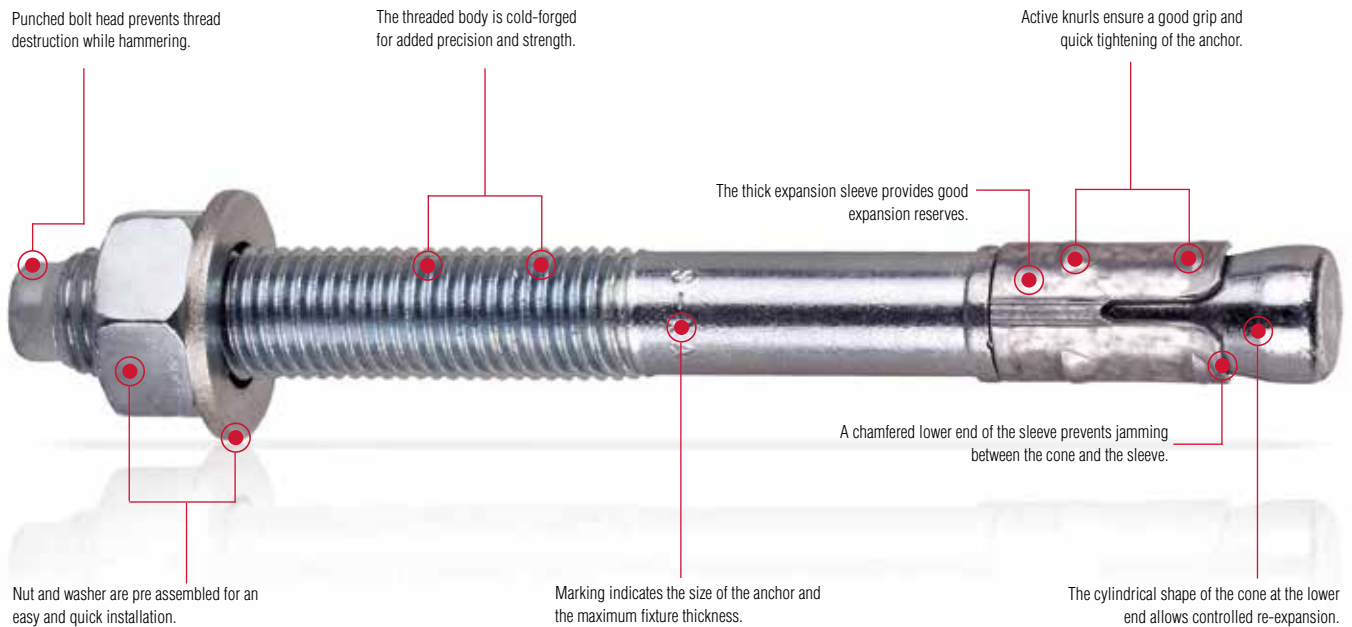
## Metal Torque Controlled Expansion Anchors



EJOT' range of anchor bolts now include the new high-performance BA-Plus range. All products provide a safe and reliable solution for the most demanding applications and base materials.

Supported by our global knowledge-pool of fastening expertise, we are fully equipped to support your team with the right products and guidance.

### Type BA: Premium quality through bolts for fixing in cracked and non-cracked concrete



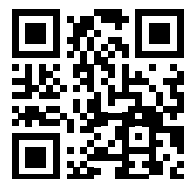
EJOT through bolts are a torque-controlled expansion anchor for use in cracked and non-cracked concrete. They are also suitable for installation in hard base materials such as solid concrete or natural stone. What's more, EJOT through bolt anchors are preassembled and can be installed directly through the fixture and into the appropriate substrate.



#### Installation animation

As a guide to show user benefits and ease of installation, you can view our Anchor Bolt installation animation on the EJOT UK YouTube Channel.

[youtube.com/EJOTUK](https://youtube.com/EJOTUK)



**Materials and Finishes**

- Zinc electroplated steel for indoor and dry applications.
- Hot dip galvanized steel for dry applications and damp interiors which can be inspected regularly.
- Stainless steel for outdoor applications subject to humidity, as well as installation in industrial and maritime environments.
- HCR stainless steel for aggressive conditions, e.g. chlorine, chemical pollution and tunnels.

**Installation Benefits**

- Fixing into cracked and non-cracked concrete, also suitable for hard materials such as natural stone, solid clay brick.
- Torque-controlled expansion anchors for pre-, push-through and distance installations.
- When torque is applied the expansion clip expands developing frictional grip into the hole.
- Anchor diameter and max. fixture thickness marked on the body.
- Variable range of coatings and materials such as ZP, HDG, A4 and HCR 1.4529/1.4565 which supports for anchor selecting in different applications.

**Type BA-V carbon steel**

Zinc electroplated acc. EN ISO 4042,  $t \geq 5 \mu\text{m}$



Dry internal conditions

**Type BA-F carbon steel**

Hot dip galvanized acc. EN ISO 10684,  $t \geq 40 \mu\text{m}$



Dry internal conditions

**Type BA-E stainless steel**

A4 for indoor, outdoor, industrial use and maritime climate



Recommended when fire or corrosion resistance is required

**Type BA-E HCR stainless steel**

HCR for extremely corrosive conditions



Aggressive atmospheres such as swimming pools, road tunnels etc.

**Substrates**

Approved for

- Cracked concrete
- Non-cracked concrete

Also suitable for

- Solid clay brick (M8 max)
- Natural stone

### Type BA Through Bolts: 8mm



**BA-V**



**BA-F**



**BA-E**



**BA-E HCR**



ETA 14/0219 - Option 1

#### Application

Fixing of medium to heavy duty structures into cracked and non cracked concrete

#### Material

Zinc Plated Carbon Steel - V  
Carbon Steel Hot Dipped Galvanised - F  
Stainless Steel Grade A4 - E  
Stainless Steel Grade HCR - E HCR

#### Fixing

Lengths	72 - 147mm
Min Embedment	45mm
Effective Clamping Thickness	10 - 85mm
Drill Bit Diameter	8mm SDS

⊕ **13mm Hex Drive**

### Type BA Through Bolts: 10mm



**BA-V**



**BA-F**



**BA-E**



**BA-E HCR**



ETA 14/0219 - Option 1

#### Application

Fixing of medium to heavy duty structures into cracked and non cracked concrete

#### Material

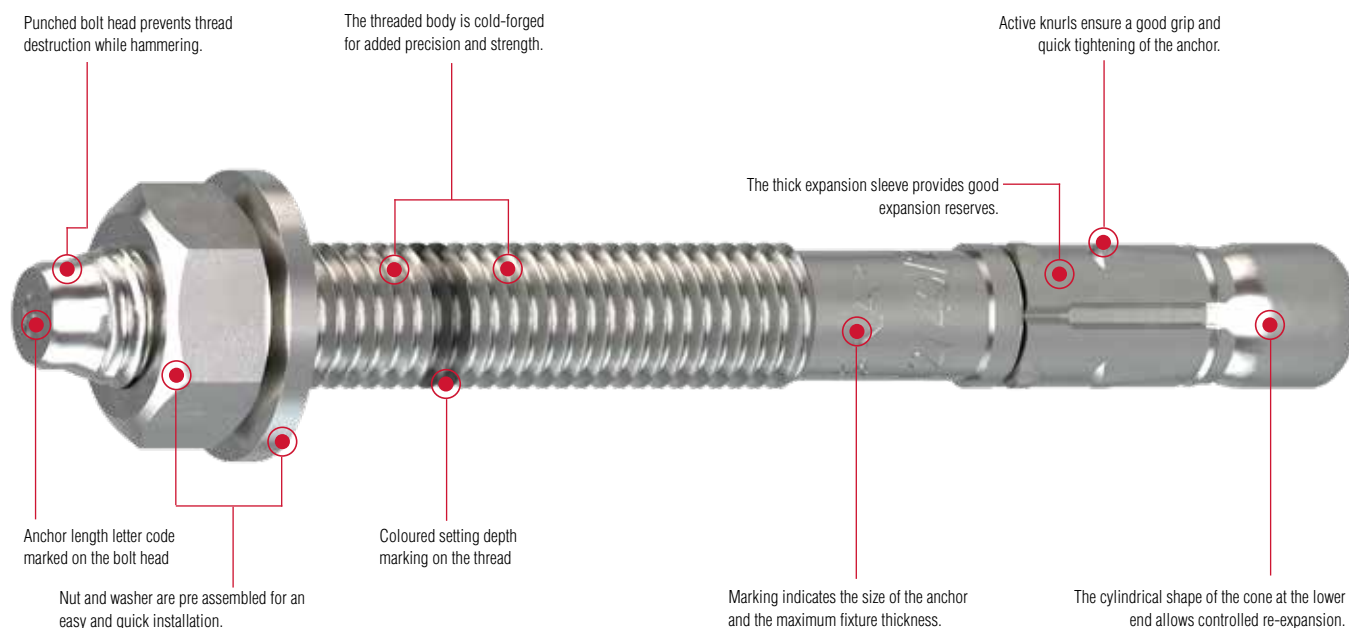
Zinc Plated Carbon Steel - V  
Carbon Steel Hot Dipped Galvanised - F  
Stainless Steel Grade A4 - E  
Stainless Steel Grade HCR - E HCR

#### Fixing

Lengths	92 - 162mm
Min Embedment	60mm
Effective Clamping Thickness	10 - 80mm
Drill Bit Diameter	10mm SDS

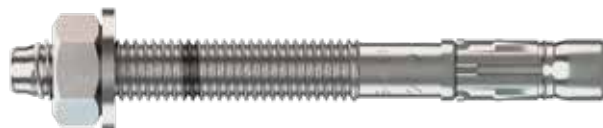
⊕ **17mm Hex Drive**

## Type BA Plus: High performance through bolts for fixing in cracked and non-cracked concrete



### Type BA-V Plus carbon steel

Zinc electropl. acc. EN ISO 4042,  $t \geq 5 \mu\text{m}$



Dry internal conditions, indoor with temporary condensation

**NEW  
TO THE  
RANGE**

### Type BA-F Plus carbon steel

Hot dip galvanized acc. EN ISO 10684,  $t \geq 40 \mu\text{m}$



Humid indoor use, outdoor inland rural areas only in not safety relevant applications

### Type BA-E Plus stainless steel

A4 for indoor, outdoor, industrial use and maritime climate



Recommended when fire or corrosion resistance is required



ETA 18/0219 - Option 1

### Application

High performance through bolts  
for fixing into cracked and non cracked concrete

### Material

Zinc Plated Carbon Steel - V  
Carbon Steel Hot Dipped Galvanised - F  
Stainless Steel Grade A4 - E

### Type BA Plus Through Bolts: 8mm



**BA-V Plus**



**BA-F Plus**



**BA-E Plus**

### Fixing

Lengths	75 - 150mm
Min Embedment	48mm
Effective Clamping Thickness	10 - 85mm
Bolt Diameter	8mm
Drill Bit Diameter	8mm SDS
⊕ <b>13mm Hex Drive</b>	

### Type BA Plus Through Bolts: 10mm



**BA-V Plus**



**BA-F Plus**



**BA-E Plus**

### Fixing

Lengths	72 - 162mm
Min Embedment	40mm
Effective Clamping Thickness	10 - 80mm
Bolt Diameter	10mm
Drill Bit Diameter	10mm SDS
⊕ <b>17mm Hex Drive</b>	

### Type BA Plus Through Bolts: 12mm



**BA-V Plus**



**BA-F Plus**



**BA-E Plus**

### Fixing

Lengths	88 - 178mm
Min Embedment	50mm
Effective Clamping Thickness	5 - 80mm
Bolt Diameter	12mm
Drill Bit Diameter	12mm SDS
⊕ <b>19mm Hex Drive</b>	

### Type BA Plus Through Bolts: 16mm



**BA-V Plus**



**BA-F Plus**



**BA-E Plus**

### Fixing

Lengths	123 - 178mm
Min Embedment	85mm
Effective Clamping Thickness	5 - 60mm
Bolt Diameter	16mm
Drill Bit Diameter	16mm SDS
⊕ <b>24mm Hex Drive</b>	



4

## LIEBIG Products

**LIEBIG**



Engineered from high quality steels and modular in design, LIEBIG® anchoring technology is ideal for heavy duty installations and available in bespoke lengths.

Typical applications include steel construction, railings, cable trays, industrial machinery, lifting systems, facades and base plates.



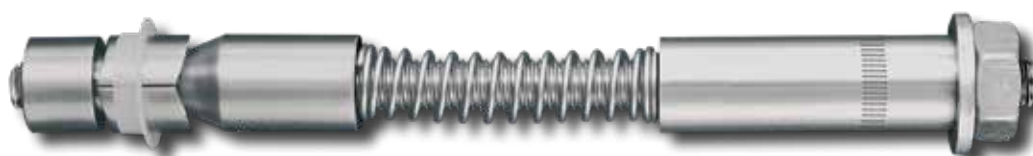
LIEBIG Anchorbolt - see page 24



LIEBIG Safety Bolt - see page 25



LIEBIG Superplus - see page 26



LIEBIG Ultraplus - see page 27

## LIEBIG®: The original anchoring technology. Exceptional loading. Exceptional performance.

The unique modular design and absolute strength of LIEBIG anchoring products is well known and engineers around the world know the brand for its reputation to deliver outstanding performance.

This range brings together the power of LIEBIG's original anchoring technology with EJOT's manufacturing and technical excellence. Together we are making LIEBIG products and the technical guidance to support them readily accessible; putting the world's finest anchoring technology back in your hands.



ETA 06/0108 - Option 1  
Approved for cracked and non-cracked concrete  
Suitable for natural stone

### TrustFix specification software

The TrustFix anchor design software is available now to download and use for your next project.

**Call EJOT Customer Services on 01977 687040**  
**Email [liebig@ejot.co.uk](mailto:liebig@ejot.co.uk)**





## LIEBIG Anchor Type AB and AS

**General purpose heavy duty  
anchor for high loads**

### Overview

The installation torque draws the anchor's cone into the thick-walled expansion sleeve. This causes the sleeve to be pressed against the sidewalls of the hole and develops tension resistance through friction.

### Installation Benefits

- Torque controlled heavy duty with single cone expansion for through fixing
- Suitable for heavy loads
- Dome washer for visual confirmation of correct installation
- Economical high capacity anchor for a wide range of uses
- Approved for use in cracked and non-cracked concrete
- Custom lengths available on request



### Application

Steel structures  
Machinery  
Guard rails  
Base plates  
Storage and racking  
Facades  
Cable trays  
Gates  
Lifting systems

### Material

Zinc plated carbon steel  
Stainless steel A4

### Fixing

Product range	M8 - M16
Effective clamping thickness	5 - 100mm

### Construction

#### Type AB

With hexagonal nut, domed washer and threaded stud



#### Type AS

With hexagonal bolt and domed washer



ETA 06/0123 - Option 1  
Approved for cracked and non-cracked concrete



## High performance fastening with unrivalled global support

EJOT UK offers highly specialised project support providing customers with a wealth of experience relating to all heavy duty anchoring applications.

**Call EJOT Customer Services on 01977 687040**

**Email [liebig@ejot.co.uk](mailto:liebig@ejot.co.uk)**



## LIEBIG Safety Bolt Type B, S and SK

Double expansion, heavy duty  
anchor for increased security

### Overview

The installation torque causes the anchor's two opposing cones to be drawn into the expansion sleeve. This causes the sleeve to be pressed against the sidewalls of the hole over its entire length and results in optimum frictional resistance and high load capacity in cracked and non-cracked concrete.

### Installation Benefits

- Torque controlled heavy duty with double cone expansion for through fixing
- Suitable for heavy loads
- Dome washer for visual confirmation of correct installation
- Solid all-steel construction
- High capacity anchor for use in cracked and non-cracked concrete
- Custom lengths available on request



### Application

Steel structures  
Machinery  
Guard rails  
Base plates  
Storage and racking  
Facades  
Cable trays  
Gates  
Lifting systems

### Material

Zinc plated carbon steel  
Stainless steel A4

### Fixing

Product range	M6 - M16
Effective clamping thickness	5 - 100mm

### Construction

#### Type B

With hexagonal nut, domed washer and threaded stud



#### Type S

With hexagonal bolt and domed washer



#### Type SK

With countersunk headed screw



ETA 06/0108 - Option 1  
Approved for cracked and non-cracked concrete  
Suitable for natural stone

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## LIEBIG Superplus Self-undercutting Anchor Type BLS, SLS, SKLS and BLS-P

The undercut fixing system that does not require a special setting tool

### Overview

Automatic self-undercutting. The unique design of the SUPERPLUS causes an undercut to be created when the installation torque is applied. The sleeve's outer cutting teeth expand and undercut into the base material. This results in a durable mechanical interlock with base material that functions in both cracked and non-cracked concrete.

### Installation Benefits

- Unique self undercutting, heavy duty through fix anchor
- Cost effective - no special drills or undercut tools required
- High capacity anchor for use in cracked and non-cracked concrete
- Increased reliability due to undercut
- Simple installation, no special drill bit or setting tool required
- Applying torque creates undercut
- Two approved embedment depths per diameter
- Reduced edge distances and spacings
- Approved for fire resistance
- Custom lengths available on request



ETA 01/0011 - Option 1  
Approved for cracked and non-cracked concrete



### Application

Steel structures  
Power plants  
Safety barriers and guide rails  
Base plates  
Storage racking  
Lifts  
Cranes and crane runways  
Tunnel ventilation equipment  
Machinery  
Facades

### Material

Zinc plated carbon steel  
Stainless Steel A4

### Fixing

Product range	M8 - M16
Effective clamping thickness	15 - 60mm

### Construction

#### Type BLS Stud with Nut



#### Type SLS Hexagonal Bolt



#### Type SKLS Countersunk Screw



#### Type BLS-P Extended Stud with Nut



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**Email [liebig@ejot.co.uk](mailto:liebig@ejot.co.uk)**



## LIEBIG ULTRAPLUS Undercut Anchor

The undercut anchor for exceptionally high loads - also for shock and seismic loads

### Overview

When the anchor is installed the expansion segments are driven down to the undercut in the drilled hole. The spring pressure automatically expands the segments into the undercut with an audible "click." This results in a mechanical undercut connection without any expansion pressure. The "positive undercut" allows perfect bearing of the segments and ensures reliable transmission of the load into the concrete.

### Installation Benefits

- High tension and shear capacities
- Custom lengths available
- High margin of safety due to positive undercutting (comparable performance to a cast-in headed stud)
- Strong mechanical interlock
- Immediate take up of load
- Through fix installation
- Low expansion forces
- Small edge distance and anchor spacings
- Completely removable
- Reliable fixing for high loads in cracked and non-cracked concrete
- Produced from high strength materials
- The spring automatically compensates for tolerances in the fixture thickness
- Proven performance history in resisting dynamic loads, shock loads and seismic loads.



### Application

Steel structures  
Nuclear power plants  
Water treatment plants  
Industrial plants  
Petrochemical installations  
Conveyor systems  
Cranes and crane runways  
Many other uses

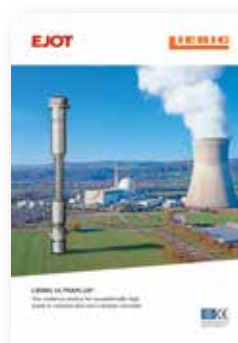
### Material

Zinc plated carbon steel  
Stainless steel A4  
Sheradised and HDG options available

### Fixing

Product range

M12 - M36



LIEBIG® ULTRAPLUS® catalogue now available



Watch the LIEBIG® ULTRAPLUS® installation animation at the EJOT UK YouTube Channel



Option 1  
Approved for cracked and non-cracked concrete

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## Chemical Resin



EJOT's injectable chemical systems provide a genuinely high performance solution for the most demanding applications and base materials.

Supported by our worldwide resource of fastening expertise, we are fully committed to technical support for specification and installation teams.

## Threaded Studs for Chemical Anchoring Systems

### Zinc Plated Steel (V) and A4 Stainless Steel (E)

High strength anchoring into masonry blocks, cracked and non-cracked concrete

Nut and washer engineered for problem-free threading

Embedment depth marker on shaft simplifies installation

Threaded stud available in zinc-plated and A4 stainless steel

Chamfered tip will disperse any air pockets when inserted into resin



#### Overview

EJOT Resin studs are manufactured and supplied in steel with a BZP finish, or as A4 Stainless Steel.

The product comprises of a threaded rod with hexagonal drive for a fast and secure installation. The nuts and washer forms an integral part of the design. A depth indicator as part of the stud makes a simple but valuable installation aid.

#### Installation Benefits

Available in a wide range of sizes, the product comes with ETA approval when used with the EJOT Multifix VSF or Super Epoxy SE800 resin systems.

#### Internal Threaded Sockets

M6 - M12

#### Resin Studs V and E



##### Application

For embedment in concrete and solid brick for embedment into perforated brick in combination with Nylon sleeve

##### Material

8.8 Grade Zinc Plated Steel (V)  
A4 Stainless Steel (E)

##### Stud Sizes

M8 - M20

#### Resin Stud Nylon Sleeve

##### Application

Allows resin to be installed overhead, use with or without internal threaded sockets. Forms part of the ETA approval for Masonry and Hollow substrates

##### Sleeve Sizes

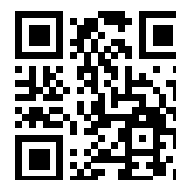
Studs M6 - M8 for use with sizes 12 x 50 and 12 x 80  
Studs M10 - M12 for use with sizes 16 x 85 and 16 x 130  
Studs M12 - M16 for use with size 20 x 85



#### Installation animation

As a guide to show user benefits and ease of installation, you can view our Resin Stud installation animation on the EJOT UK YouTube Channel.

[youtube.com/EJOTUK](https://youtube.com/EJOTUK)





## Multifix VSF Chemical Resin 410ml

EJOT Multifix VSF styrene-free, low-odour anchor mortar is a two-part chemical anchoring system based on a 'high reactivity' vinylester resin.

### Installation Benefits

ETA Approved for concrete, this resin provides high bond strength with high load, dynamic and chemical resistance. Used with all grades of threaded rod and rebar, for non-cracked and cracked concrete applications. This product is also suitable underwater.



15/0282 option 1  
Approval for threaded rods M8 to M24  
Approval for rebar 8 - 25mm  
VOC classification A+

## Multifix VSF Chemical Resin

### Application

Suitable to anchor threaded rods and rebar into cracked and non-cracked concrete

### Material

Two Component Injection chemical anchor vinylester styrene free

### Characteristics

Vinylester Styrene Free

Low Odour

Fast Curing

Fire resistance classification

for use with potable water

WRAS Approved



## Super Epoxy SE 800 Chemical Resin 400ml

An epoxy injection mortar for solid base materials and is effective in dry, wet and flooded holes. Styrene free, very low odour.

ETA and fire approved, this product is suitable for very high loads and provides high chemical and temperature resistance along with dynamic and long term loads resistance.

### Installation Benefits

Suitable for warm/hot regions, this product can be used with diamond drilled holes and oversized holes. Thixotropic, it can be applied in both vertical and horizontal directions.



13/0918  
Approval for rebar 8 - 32mm  
VOC classification A+

## Super Epoxy SE 800

### Application

Suitable to anchor threaded rods and rebar into stone, cracked and non-cracked concrete

### Material

Two Component Injection chemical anchor based on pure epoxy resin

### Characteristics

Pure Epoxy Injection Resin

For High Loads

No shrinkage

High chemical and temperature resistance for use with percussive and diamond drilled holes

Dynamic and long term load resistance

Fire resistance



## Accessories for Anchor Bolt and Chemical Anchoring Systems

### Overview

Effective and safe chemical anchoring systems rely upon high quality accessories that support correct installation procedures.

EJOT's range of accessory products provide the complete system to ensure a safe and secure installation. These can be ordered as individual items or as part of a complete site kit.



### Internal Threaded Socket

#### Accessories

- Nylon Sleeves for hollow masonry applications
- Mesh Sleeves and Internal Sockets
- Applicator Guns appropriate for the Multifix VSF and Super Epoxy SE 800 systems
- Cleaning brushes for the complete drill diameter range, 10 - 28mm
- 400ml Blow-out Pump for cleaning drill holes in concrete and solid brick masonry.

#### Sleeve Sizes

M6 - M12



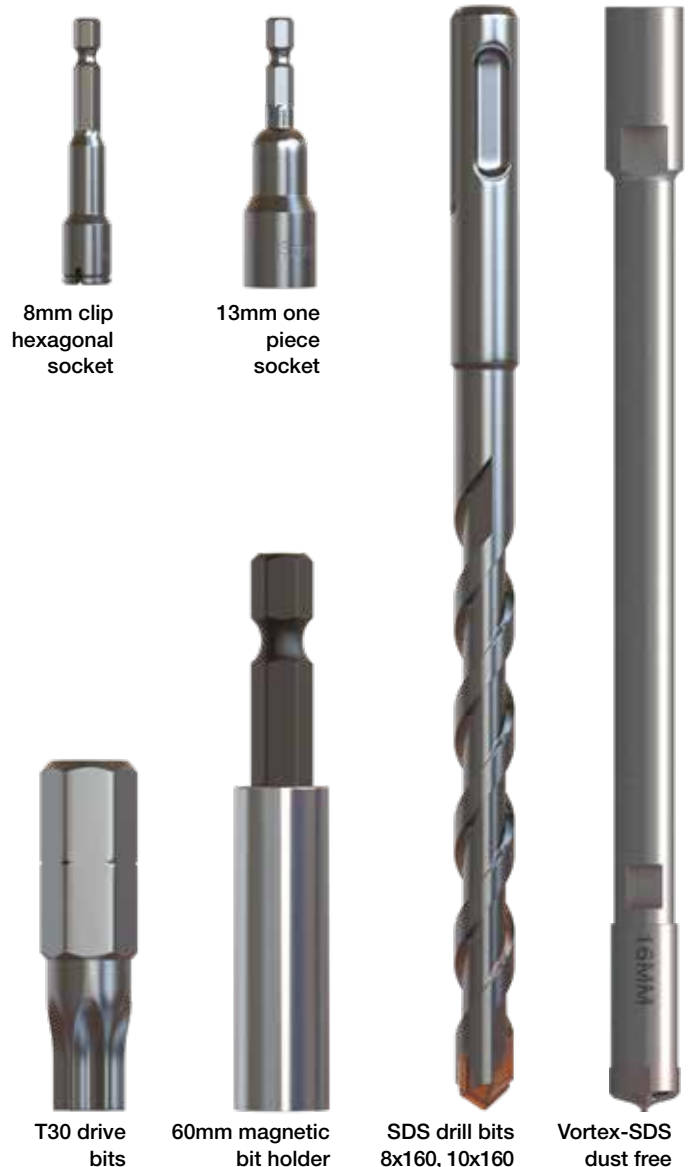
# Installation tools and accessories



With the vast amount of research and development invested into the design and manufacture of all EJOT fastening systems, the installation tools are equally key to providing optimum performance and the correct function of product.

These tools and accessories have been designed specifically for use with EJOT fastening products to deliver correct installation features such as drive speed, torque etc. as well as maximising efficiency for the installer.

For further information on specific installation accessories visit EJOT online at [www.ejot.co.uk](http://www.ejot.co.uk) or talk to a member of our Technical Team on 01977 687040.



## EJOT vortex-SDS

Dust removal at source for drilling dense concrete, brick and block



UNIQUE FOUR-CUTTER DESIGN

The modular design of the EJOT vortex-SDS system means fast accurate drilling of holes from 8 to 20mm diameter and depths of up to 450mm.

All EJOT vortex-SDS drilling components have specially designed carbide tips that are engineered specifically for EJOT vortex-SDS dust extraction drilling systems. The four-cutter design creates a more precise drill hole whilst remaining noticeably cooler than standard drill bits.

vortex-SDS  
Drill to hose connector



EJOT vortex-SDS Standard drill bits 8 - 14mm



EJOT vortex-SDS Modular system 16 - 20mm



See page 6 for a full overview of the EJOT vortex-SDS system

## EJOT® Webshop

All EJOT products and systems shown in this overview brochure, can be viewed in greater detail at our website. For convenience, we have grouped products related to the key aspects of working with concrete, brick and block material – into application categories of their own.

Navigating the site is fast and straight-forward with technical documents and support literature available to download alongside specific product information.

All products are available to buy online and a quick and simple registration process will provide your personalised webshop pricing and credit arrangements.

Once up and running with your online account, the My EJOT webshop automatically stores your purchase history, providing you with an instant reference to products used on your projects.



Visit [www.ejot.co.uk](http://www.ejot.co.uk) and search concrete, brick and block or scan our QR code left for a direct link to our site on your phone.

 Scan me



For help and assistance when registering your online account, please call 01977 687040

# The complete solution for the modern building envelope

This catalogue showcases our current portfolio of high performance fastening systems for fixing to concrete, brick and block.

This range is further complemented by other highly specialist products and systems, all designed, manufactured and supported by the EJOT Group, worldwide.

Technical guidance and support for all EJOT products, is available through a national frontline team of experienced sales engineers, supported by a thoroughly knowledgeable and responsive customer services team, based at our manufacturing centre in Yorkshire.



## EJOT Rainscreen Specification APP

This interactive design guide provides a complete specification route through the four key installation stages, presenting safe, reliable rainscreen installation.

Available to download free for IOS and Android tablets.



### Roofing & Cladding

The complete fastening solutions for modern building envelopes.



### Rainscreen and Facades

Proven fastening and anchoring systems for all rainscreen and facade applications.



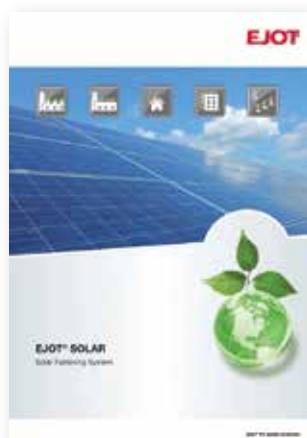
### Membrane Roofing Systems

Innovative fastening systems for insulation and pvc membrane to all decks.



### Hazardous Environments

Specialist products developed for highly corrosive environments.



### Solar Installation

International product overview for all solar system installations.



### External Wall Insulation

Full specification, product and accessory guide for ETICS professionals.



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**EJOT® The Quality Connection**