



JZ5 self-tapping screws

For mechanical fastening of components
to heavy and high-strength steel structures



It's the little things that connect the big ones

Our strongest screw for the hardest steel

Self-tapping screws are always used when the maximum drilling capacity is too high for a self-drilling screw. Especially components with a high material thickness require the use of a self-tapping screw.

In the construction of particularly large buildings, the trend is towards ever larger spans of steel beams. A high-strength material is used in order to ensure a reliable stability of the buildings.

Self-tapping screws are used to fasten this solid material. Due to the hardened thread forming zone, the new self-tapping screw JZ5 is characterized by a particularly high level of process reliability during thread forming.

As the strongest EJOT screw to date, the new JZ5 bi-met self-tapping screw meets the increasing requirements on the market.

Self-tapping screws



Fine pitch thread with dog point (JZ)



Coarse thread with point (JA)



Fine pitch thread with point (JB)

Self-drilling screws



Drill point with cutting edge (JT)



EJOFAST® screw point geometry (JF)

Self-tapping screws JZ5 (A2 stainless steel + steel)

EJOT



Hard, harder – JZ5

The new bi-met self-tapping screw for high-strength steels

The special feature of the new JZ5 bi-met self-tapping screw is the hardened thread forming zone at the lower end of the dog point. To ensure that the JZ5 can reliably form its thread turns into the high-strength steel substructure, it features a point made of hardened carbon steel, just like bi-met self-drilling screws.

The remaining part of the screw, including the sealing washer, is made of weather-resistant A2 stainless steel. Thus, the JZ5 is perfectly equipped for applications in weather-exposed areas and also reliably protects the drill hole from penetrating moisture.

The advantages of the JZ5 at a glance

> **For high-strength steel substructures**

The harder steel point of the bi-met self-tapping screw can also penetrate harder materials and thus form a thread significantly better in high-strength steel structures

> **Version with 8.0 mm diameter**

For replacement of screws with a smaller diameter, for example during renovation

> **Weather- and UV-resistant**

Reliable waterproofing through elastomer sealing

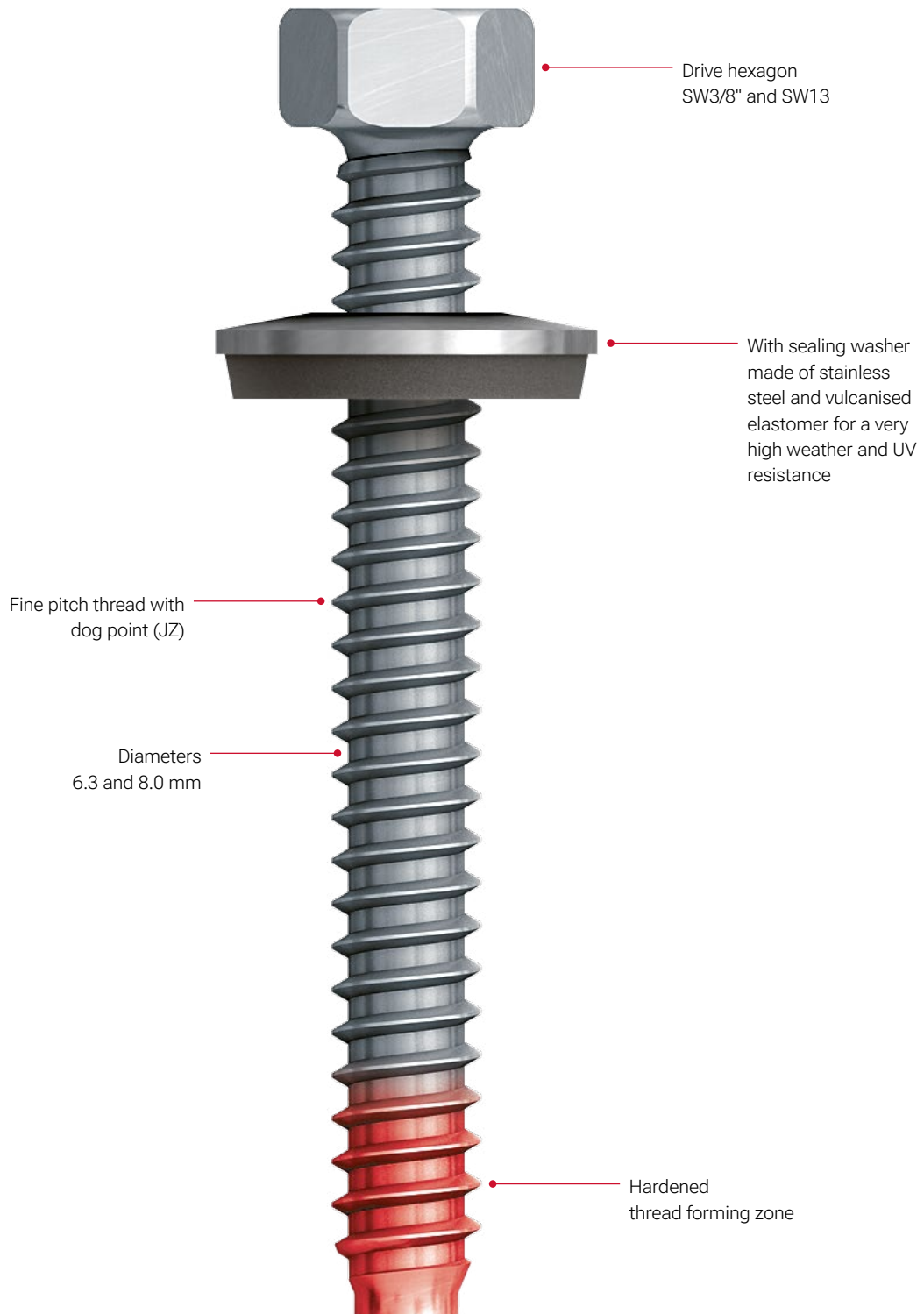
> **For fastening situations with limited space**

The JZ5-6.3 is ideally suited for applications with little space where a drill point cannot be used (e.g. insertion rails)



JZ5 self-tapping screws

The bi-met self-tapping screw in detail



Self-tapping bi-met screws

For a wide range of applications

Aircraft hangars



Production halls



Arenas



Logistic centres



On the roof



Trapezoidal profile to steel purlin ≥ 16.0 mm



Corrugated profile sheet to steel purlin ≥ 16.0 mm



Trapezoidal profile to insertion rail 3.0 mm



Corrugated profile sheet to insertion rail 3.0 mm



Sandwich panel to steel purlin ≥ 16.0 mm



Sandwich panel to insertion rail 3.0 mm

On the wall



Trapezoidal profile to steel purlin ≥ 16.0 mm



Corrugated profile sheet to steel purlin ≥ 16.0 mm



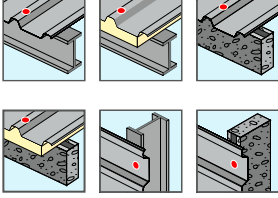
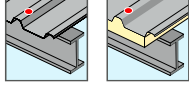










Trapezoidal profile to insertion rail 3.0 mm



Corrugated profile sheet to insertion rail 3.0 mm

Product overview JZ5 self-tapping screws

Type	JZ5-6.3xL	JZ5-8.0xL
		
Material	A2 stainless steel with hardened thread forming zone	
Applications		
Clamp thickness t_{fix} longest length [mm]	0 - 252	0 - 133
Screw length [mm]	20 - 263	60 - 150
Drive		
Sealing washer combinations		
Certifications	ETA-10/0200 ETA-13/0177	
Tools	 Socket wrench insert	 Socket wrench insert
QR code for the online shop		

Self-tapping screw JZ5-6.3



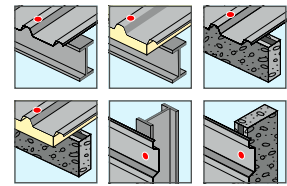
Application range

- > Fastening profiled steel sheets and sandwich panels to steel substructures
- > For high-strength steel substructures

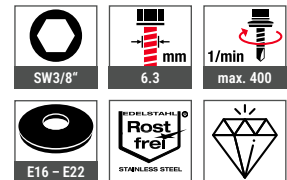
Properties

- > A2 stainless steel with hardened thread forming zone
- > Stainless steel sealing washer
- > Pre-assembled sealing washer

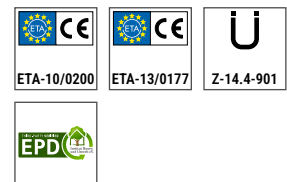
Applications



Technical specifications



Certification



Cross references

Socket wrench insert SW3/8"
Cordless screwdriver ASCS 6.3
ORKAN storm washers
Drill bit HSS
Drill hole chart

User manual




Product online



Order description	Length [mm]	Clamp thickness [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
Sealing washer E16, Ø 16 mm						
JZ5-6.3x20 E16	20	0 - 9	500		3191011311	4061245073194
JZ5-6.3x25 E16	25	0 - 14	500		3191111311	4061245073224
JZ5-6.3x30 E16	30	0 - 19	500		3191211311	4061245073255
JZ5-6.3x40 E16	40	0 - 29	250		3191311311	4061245073286
JZ5-6.3x53 E16	53	0 - 41	250		3191411311	4061245073316
JZ5-6.3x63 E16	63	0 - 52	250		3191511311	4061245073347
JZ5-6.3x83 E16	83	21 - 72	250		3191611311	4061245073378
JZ5-6.3x93 E16	93	31 - 82	100		3191711311	4061245073408
JZ5-6.3x103 E16	103	41 - 92	100		3191811311	4061245074207
JZ5-6.3x113 E16	113	51 - 102	100		3191911311	4061245073460
JZ5-6.3x123 E16	123	61 - 112	100		3192011311	4061245099804
JZ5-6.3x133 E16	133	71 - 122	100		3192111311	4061245073521
JZ5-6.3x143 E16	143	81 - 132	100		3192211311	4061245076201
JZ5-6.3x153 E16	153	91 - 142	100		3192311311	4061245073552
JZ5-6.3x163 E16	163	101 - 152	100		3192411311	4061245073583
NEW JZ5-6.3x173 E16	173	101 - 162	100		3093011311	4061245126562
JZ5-6.3x183 E16	183	121 - 172	100		3192511311	4061245073613
NEW JZ5-6.3x193 E16	193	131 - 182	100		3093111311	4061245126593
JZ5-6.3x203 E16	203	141 - 192	100		3192611311	4061245073644
JZ5-6.3x223 E16	223	161 - 212	100		3192711311	4061245073675



	Order description	Length [mm]	Clamp thickness [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
	JZ5-6.3x243 E16	243	181 – 232	100		3192811311	4061245073705
	JZ5-6.3x263 E16	263	201 – 252	100		3192911311	4061245073736
	Sealing washer E19, Ø 19 mm						
	JZ5-6.3x20 E19	20	0 – 9	500		3191066311	4061245073200
	JZ5-6.3x25 E19	25	0 – 14	500		3191166311	4061245073231
	JZ5-6.3x30 E19	30	0 – 19	500		3191266311	4061245073262
	JZ5-6.3x40 E19	40	0 – 29	250		3191366311	4061245073293
	JZ5-6.3x53 E19	53	0 – 41	250		3191466311	4061245073323
	JZ5-6.3x63 E19	63	0 – 52	100		3191566311	4061245073354
	JZ5-6.3x83 E19	83	21 – 72	100		3191666311	4061245073385
	JZ5-6.3x93 E19	93	31 – 82	100		3191766311	4061245073415
	JZ5-6.3x103 E19	103	41 – 92	100		3191866311	4061245074221
	JZ5-6.3x113 E19	113	51 – 102	100		3191966311	4061245073477
	JZ5-6.3x123 E19	123	61 – 112	100		3192066311	4061245073507
	JZ5-6.3x133 E19	133	71 – 122	100		3192166311	4061245073538
	JZ5-6.3x143 E19	143	81 – 132	100		3192266311	4061245076218
	JZ5-6.3x153 E19	153	91 – 142	100		3192366311	4061245073569
	JZ5-6.3x163 E19	163	101 – 152	100		3192466311	4061245073590
NEW	JZ5-6.3x173 E19	173	101 – 162	100		3093066311	4061245126579
	JZ5-6.3x183 E19	183	121 – 172	100		3192566311	4061245073620
NEW	JZ5-6.3x193 E19	193	131 – 182	100		3093166311	JZ5-6.3x193 E19
	JZ5-6.3x203 E19	203	141 – 192	100		3192666311	4061245073651
	JZ5-6.3x223 E19	223	161 – 212	100		3192766311	4061245073682
	JZ5-6.3x243 E19	243	181 – 232	100		3192866311	4061245073712
	JZ5-6.3x263 E19	263	201 – 252	100		3192966311	4061245073743
	Sealing washer E22, Ø 22 mm						
	JZ5-6.3x20 E22	20	0 – 9	500		3191013311	4061245073217
	JZ5-6.3x25 E22	25	0 – 14	500		3191113311	4061245073248
	JZ5-6.3x30 E22	30	0 – 19	500		3191213311	4061245073279
	JZ5-6.3x40 E22	40	0 – 29	250		3191313311	4061245073309
	JZ5-6.3x53 E22	53	0 – 41	250		3191413311	4061245073330
	JZ5-6.3x63 E22	63	0 – 52	100		3191513311	4061245073361
	JZ5-6.3x83 E22	83	21 – 72	100		3191613311	4061245073392
	JZ5-6.3x93 E22	93	31 – 82	100		3191713311	4061245073422
	JZ5-6.3x103 E22	103	41 – 92	100		3191813311	4061245074238
	JZ5-6.3x113 E22	113	51 – 102	100		3191913311	4061245073484
	JZ5-6.3x123 E22	123	61 – 112	100		3192013311	4061245073514
	JZ5-6.3x133 E22	133	71 – 122	100		3192113311	4061245073545
	JZ5-6.3x143 E22	143	81 – 132	100		3192213311	4061245076225
	JZ5-6.3x153 E22	153	91 – 142	100		3192313311	4061245073576
	JZ5-6.3x163 E22	163	101 – 152	100		3192413311	4061245073606
NEW	JZ5-6.3x173 E22	173	101 – 162	100		3093013311	4061245126586
	JZ5-6.3x183 E22	183	121 – 172	100		3192513311	4061245073637
NEW	JZ5-6.3x193 E22	193	131 – 182	100		3093113311	4061245126616
	JZ5-6.3x203 E22	203	141 – 192	100		3192613311	4061245073668
	JZ5-6.3x223 E22	223	161 – 212	100		3192713311	4061245073699
	JZ5-6.3x243 E22	243	181 – 232	100		3192813311	4061245073729
	JZ5-6.3x263 E22	263	201 – 252	100		3192913311	4061245073750

Self-tapping screw JZ5-8.0



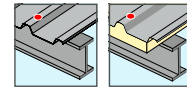
Application range

- > Fastening profiled steel sheets and sandwich panels to steel substructures up to S 355 (St 52)
- > Suitable for replacing screws with diameter 5.5 mm and 6.3 mm

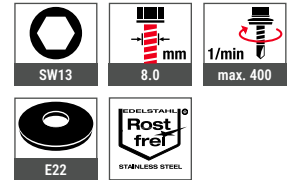
Properties

- > A2 stainless steel with hardened thread forming zone
- > Stainless steel sealing washer
- > Pre-assembled sealing washer

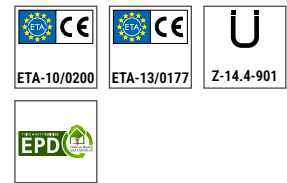
Applications



Technical specifications



Certifications



Cross references

Socket wrench insert SW13
 Cordless screwdriver ASCS 6.3
 ORKAN storm washers
 Drill bit HSS
 Drill hole chart

User manual



Product online



Order description	Length [mm]	Clamp thickness [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
Dichtscheibe E22, Ø 22 mm						
JZ5-8.0x60 E22	60	0 – 43	250		3190653311	4061245062600
JZ5-8.0x80 E22	80	16 – 63	100		3190853311	4061245062617
JZ5-8.0x100 E22	100	36 – 83	100		3191053311	4061245062624
JZ5-8.0x150 E22	150	86 – 133	100		3191553311	4061245062631



Sealing washers

Increased reliability when using sealing washers

EJOT recommends using sealing washers – also in combination with case-hardened steel screws that are used in unweathered areas.

The risk of damaging the screw joint with improper installation (e.g. excessive tightening torque, slightly sloped clamping) is significantly reduced when using sealing washers.

Furthermore, the clamp load and thus the tensile stress in the screw are limited by the use of sealing washers. A direct exposure of the joint (protective surface coating damaged by the fastening process) is almost prevented - the risk of operational, hydrogen-induced embrittlement drops significantly.

Rain-proof connections

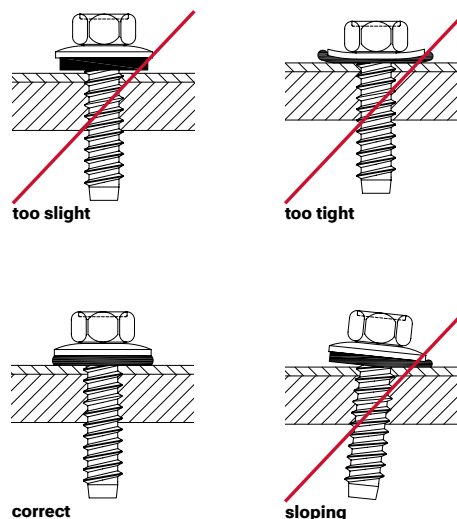
The use of sealing washers facilitates the formation of rain-proof fastening and connection points in lightweight metal construction.

When planning and executing the connections, the minimum roof pitches according to the specialist rules of lightweight metal construction must be observed.

Correct installation of sealing washers

Screws with sealing washers must be installed using a depth stop. Deformation of the sealing washer (washer with elastomer seal) is prevented with the adjustable depth stop on the screwdriver.

If the sealing washer is correctly installed, the rubber seal may overlap. Only if the metal back of the sealing washer changes from convex to concave, the joint is definitely too tight.





At home in many trades

The product segments of the Market Unit Construction

With the Market Unit Construction, EJOT offers professional fastening solutions for the building industry in the Building Fasteners and ETICS Fasteners sectors.

With EJOT you get everything you need for almost every application from a single supplier with the usual high product quality.

Timber Construction

High-quality fastening technology for anchor and direct assembly in timber construction

www.ejot.com/timber-construction

Industrial Lightweight Construction

High-quality fasteners for fixing profiled sheets and sandwich panels in the industrial lightweight construction sector

www.ejot.com/industrial-lightweight-construction

Solar

Fastening technology for solar and photovoltaic installations on trapezoidal steel profile and sandwich element roofs as well as for use on fibre cement roofs

www.ejot.com/solar

Flat Roofing

Fasteners, and installation tools for the efficient fixing of insulation and waterproofing membrane to flat roofs and slightly sloping roofs

www.ejot.com/flat-roofing

Rainscreen Facades (RVF)

Complete substructure system with consoles, screws, anchoring solutions, insulation support anchors and anchors

www.ejot.com/rainscreen-facades

Anchoring Technology

Special products for mechanical anchoring in non-cracked and cracked concrete as well as chemical and thus expansion pressure-free products for heavy-duty fastening in concrete and masonry

www.ejot.com/anchoring-technology

Window and Glass Facade Technology

High quality fastening elements for window and door assembly and for use in aluminium/glass facade systems

www.ejot.com/window-and-glass-facade-technology

Interior Work

Special products for fastening wood chipboards and for fastening attachments in plasterboard, masonry or concrete

www.ejot.com/interior-work

Fastening solutions for External Thermal Insulation Composite Systems (ETICS)

Special anchors for fixing insulation on external wall systems

www.ejot.com/etics-fasteners

Mounting Elements for Attachments

Fastening solutions for the planned and subsequent fastening of attachments to ETICS facades

www.ejot.com/etics-mounting-elements

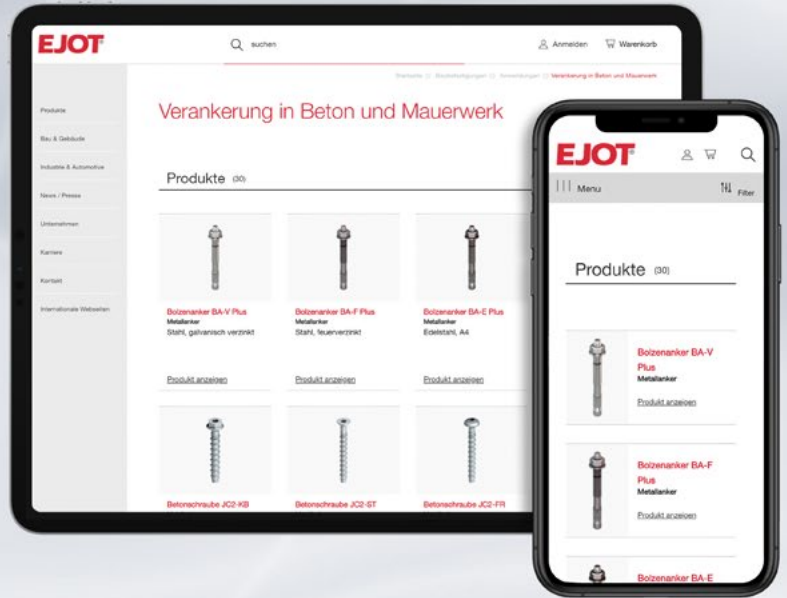
Profiles for External Thermal Insulation Composite systems (ETICS)

Profiles for high quality render finishes

www.ejot.com/etics-profiles



www.ejot.com/construction



The fastest way to the appropriate EJOT® product

Discover EJOT Worldwide

EJOT is an European market leader in fastening technology. In Europe, our numerous sales companies and offices guarantee direct customer contact and fast availability of our products. EJOT services and products are also available on an international scale. We have production sites and sales offices in North America and Asia.

Find your contact person for all EJOT distribution and production companies and our partner and sales offices – worldwide. We look forward to hearing from you.



EJOT Worldwide:
www.ejot.com/construction

We are committed

EJOT® is a member of various trade associations and organisations



Fachverband Baustoffe und Bauteile
für vorgehängte hinterlüftete
Fassaden e. V.
www.fvhf.de



Deutscher Schraubenverband e. V.
www.schraubenverband.de



Verband Fenster + Fassade
www.window.de



Fachverband
Werkzeugindustrie e. V.
www.werkzeug.org



ift Rosenheim, Institut für
Fenster- und Fenstertechnik e. V.
www.ift-rosenheim.de



Institut Bauen und Umwelt e. V.
www.ibu-epd.com



Industrieverband für Bausysteme
im Metalleichtbau e. V.
www.ifbs.de



Global Fastener Alliance®
www.globalfasteneralliance.com



Warenzeichenverband Edelstahl
Rostfrei e.V.
www.wzv-rostoffrei.de



Verband für Dämmsysteme,
Putz und Mörtel e. V.
www.vdpm.info



www.ppa-europe.eu



www.mcrma.co.uk



Österreichischer Fachverband
für hinterlüftete Fassaden
www.oefhf.at



Schweizerischer Fachverband
für hinterlüftete Fassaden
www.sfhf.ch



Europäischer Fachverband für
Wärmedämm-Verbundsysteme
www.ea-etics.com



ARGE Qualitätsgruppe
Wärmedämmsysteme
www.waermedaemmsysteme.at



Österreichische
Arbeitsgemeinschaft für die
Mitgliedsbetriebe
www.oaep.at



Stifterverband für die Deutsche
Wissenschaft e.V.
www.stifterverband.org



BuGG Bundesverband
GebäudeGrün e. V.
www.gebauedegruen.info/



Fastening solutions for the building industry

The EJOT Construction Division supplies to selected segments of the building industry. This includes professional applications on building facades as well as installation solutions for technical facilities inside the building.

Striving for high product quality is not an end in itself for EJOT. The customer really benefits from our screws and anchors. Therefore reliable installation also means low failure costs for the customer. Moreover, durable quality joints provide the best protection against expensive customer complaints. This is why our strategic product lines are manufactured according to highest quality standards.

We convey expert knowledge about the use of our products to all our customers. And if required, we are on hand with advice and support for fastening systems.

Other services include advice over the telephone, application advice on-site, initial sizing, component tests in the EJOT Test Centre and a comprehensive training programme for system providers, architects, specifiers, assemblymen and contractors with the EJOT TEC ACADEMY.

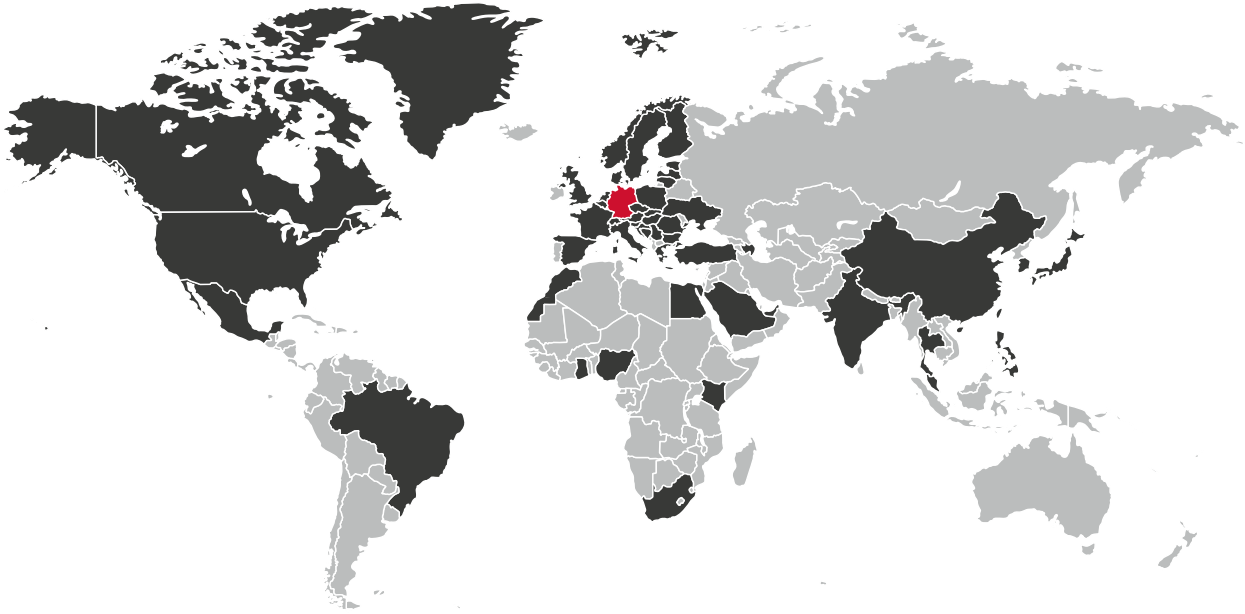
Innovative products are the key to success. We leave nothing to chance. We identify our customers' needs under real conditions on the job site. Communication from the market and about market requirements to the development departments is ensured by a regular exchange between our technical experts and specialists and users from the international building industry. This is how we develop innovative product solutions that offer a clear added value and inspire customers.



EJOT quality online:
www.ejot.com/quality

The International EJOT® Group

The origin is in Germany, the future in the world



Locations worldwide

www.ejot.com/subsidiary_selector



Find your contact for all EJOT sales and production companies as well as our partner and sales offices - worldwide. We are looking forward to hearing from you.



53 Mio.
Screws

In our manufacturing plants around the world, we produce up to 52 million items for construction and industry every day.



33,000
Products

Screws, anchors, through bolts or complex part groups – the EJOT portfolio is made up of around 36,000 products.



2,400
Patents

Unsere Ingenieure entwickeln stetig neue Produktlösungen, die durch mehr als 2.400 Patente geschützt sind.



1922
founded

The history of EJOT dates back to the early 20th century.



4,400
Employees

More than 4,500 employees work for our worldwide customers every day.

ENGINEERED IN

GERMANY

The majority of the EJOT portfolio is produced in Germany and developed by our own R&D department.



EJOT® TEC ACADEMY

Our know-how for your building projects


With the EJOT TEC ACADEMY, we regularly offer training courses to inform you about current trends in the construction industry, our products and their applications.




EJOT® TEC ACADEMY:
www.ejot.com/tec-academy


Audio-Podcast

EJOT® TEC ACADEMY Podcast



In our EJOT TEC ACADEMY podcast, you can find out more about trends and topics in the construction industry and the associated fastening solutions – always up-to-date, technically sound and at the heart of the industry.





Listen now!

Expert knowledge in the construction blog


Entertaining and informative - the construction blog on our website offers interesting guidebooks and useful tips on various topics of fastening technology. Available completely digital, anytime and anywhere.

The content varies from guidebooks regarding rainscreen facades, anchoring technology or the planning and creation of a flat roof to articles on corrosion, the use of self-drilling screws, and more.


It's worth checking in regularly, because new, exciting articles are added frequently.


YouTube-Kanal

EJOT® Construction Division



Our YouTube channel offers a large number of videos with product presentations, assembly instructions and tips from the world of fastening technology.





Watch now!



Construction blog:
www.ejot.com/blog

Overview of our training programme

Basic trainings

At our TEC CENTER we offer basic trainings on different topics. The two-day trainings are designed for installers, distributors, architects and planners and deal with the focal points of the various application areas.

Application range

- > Rainscreen Facades
- > Anchoring technology
- > Building envelope (Industrial Lightweight Construction, Flat Roofing, Solar)
- > Timber construction (are planned)

Your benefit

- > Skill development in fastening and anchoring technology
- > Knowledge of conditions under the German building law
- > Safe product selection for the application case, based on guidelines in compliance with the approval
- > Safety in practical handling

Dates

Current training dates are announced in our newsletter as well as on our TEC ACADEMY page on the internet.

Focus days

Innovative topics, numerous ideas, different perspectives – all in one day. The focus days, which are workshop-style events, are held as joint training sessions with some of our cooperation partners and will focus on system and construction requirements of the different application areas.

Your benefit

- > Direct exchange and access to experts of the industry
- > Insights into the TEC CENTER's sustainability concept
- > Access to the EJOT network within the construction industry

Dates

Current training dates are announced in our newsletter as well as on our TEC ACADEMY page on the internet.

Individual training

Would you like a seminar or training course that is specifically tailored to your needs and requirements? Your team has technical questions, needs more confidence in the use of different construction products or wants to discuss specific details with our experts? Then let us work with you and plan your individual training for your company and team.

Your benefit

- > Safe learning environment for your team
- > Individual topics
- > Direct exchange and access to experts of the industry
- > Insights into the TEC CENTER's sustainability concept
- > Access to the EJOT network within the construction industry
- > Individual date coordination

Dates

We coordinate the dates for your individual trainings together with you.



EJOT SE & Co. KG

Market Unit Construction

In der Stockwiese 35

57334 Bad Laasphe · Germany

T +49 2752 908-0

F +49 2752 908-731

construction@ejot.com

www.ejot.com/construction