EJOT®

Applications | Products | Special

LT-TD system

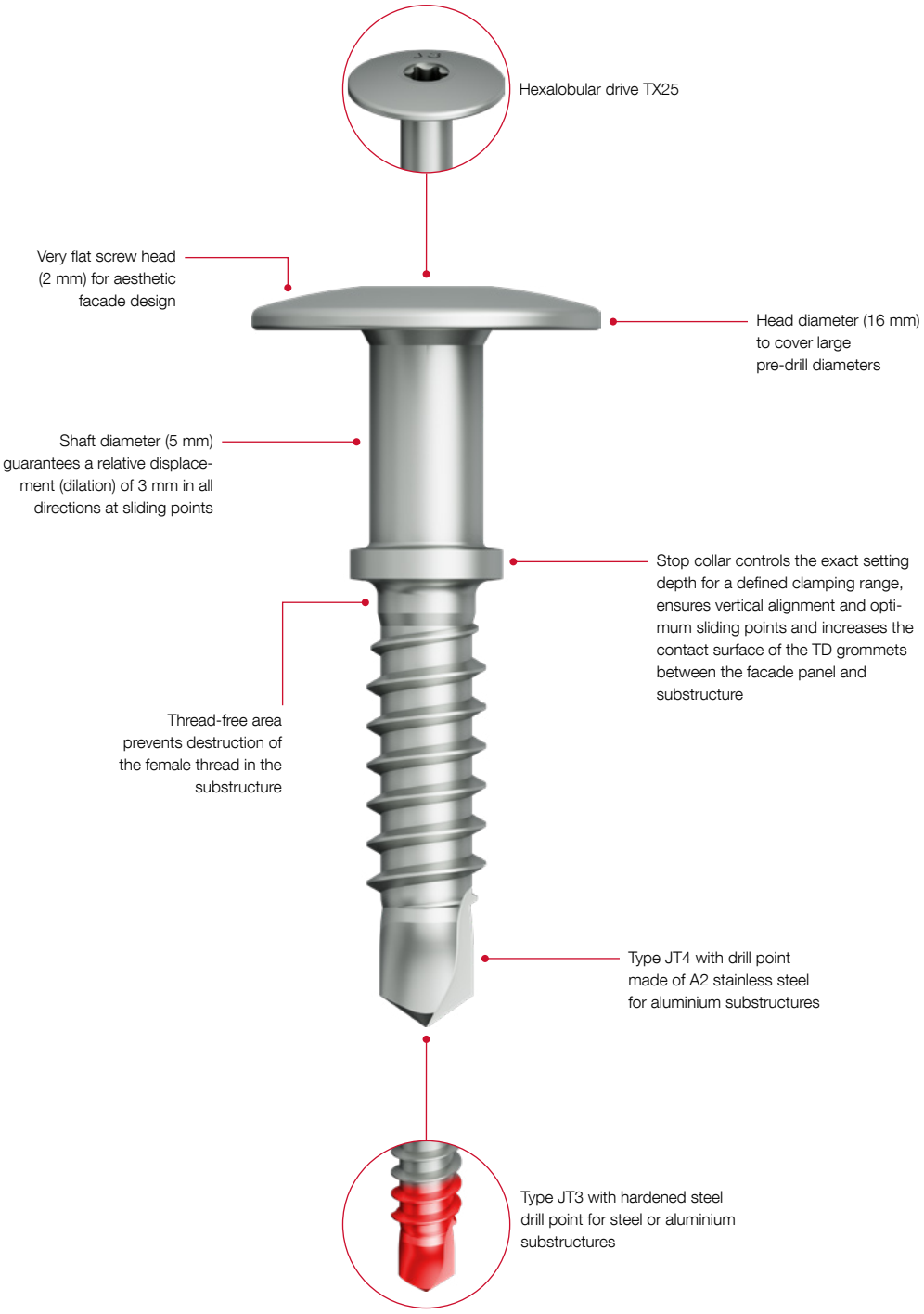
A revolution in the visible fastening of rainscreen facade cladding

Bringing it together.

LT-TD system

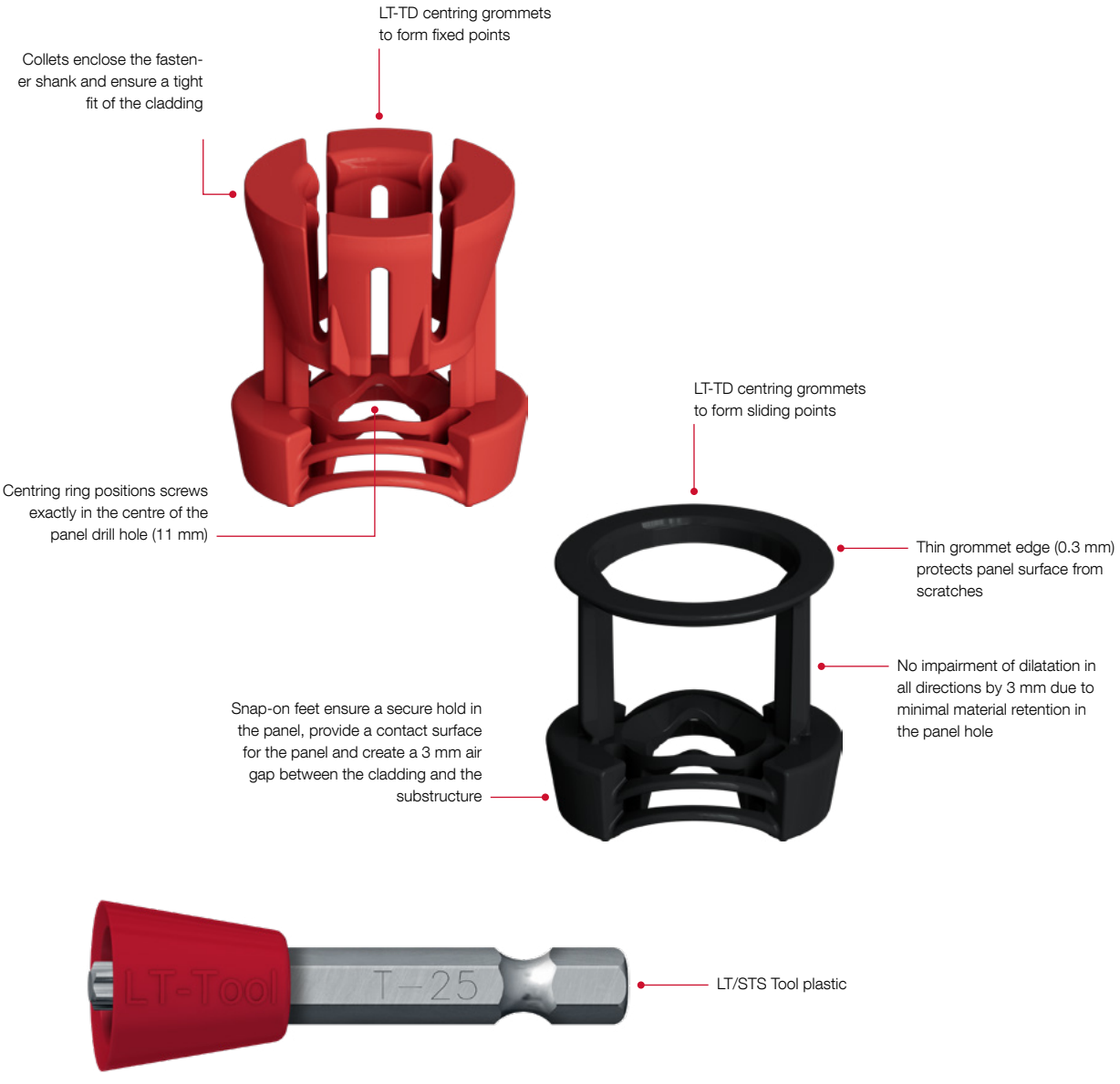
With the LT-TD system, EJOT has revolutionised the visible fastening of rainscreen facade cladding: TD (thermal distance) means thermal decoupling by creating a 3.0 millimetre air gap between the facade cladding and the substructure.

This additional rear ventilation within the rainscreen facade interrupts the heat flow from the inside of the building to the panel surface and ensures that the facade dries evenly. The result is a durable, attractive facade without marking of the substructure.



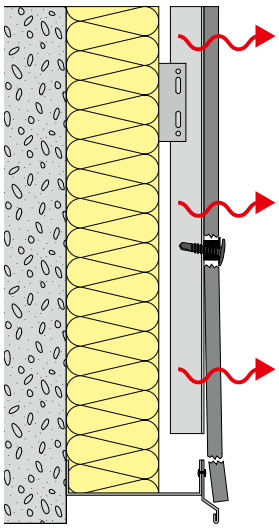
Detail view of fixed point for LT-TD system

Detail view of sliding point for LT-TD system



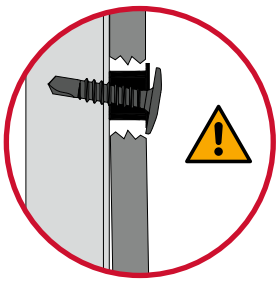
The operating principle – the details make the difference

Standard system



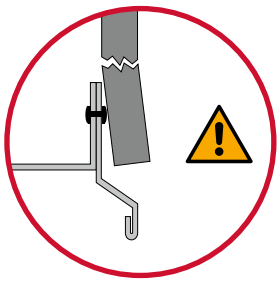
Thermal coupling

Direct contact of the support profile with the facade cladding leads to weather-related markings of the profile positions on the surface of the facade cladding.



Angled screw connection

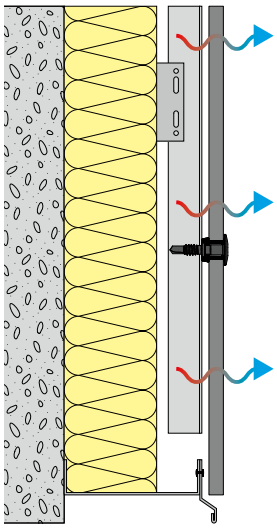
A non-perpendicular screw connection can have a negative effect on the sliding point and cause the facade cladding to break.



Ventilation grille narrow point

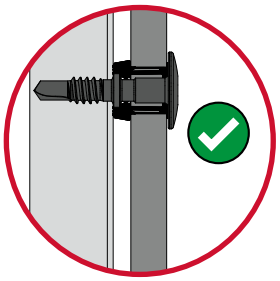
The corner areas of the facade cladding are particularly sensitive. The attachment points of ventilation grilles and end profiles can generate stresses and cause the facade cladding to break.

LT-TD system



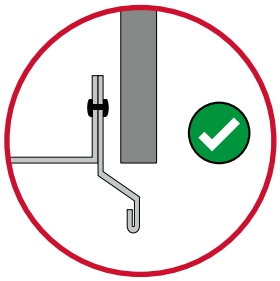
Thermal decoupling

The support profile has a 3 mm gap to the facade cladding and is therefore thermally decoupled. The surface of the façade cladding remains visually appealing in the long term.



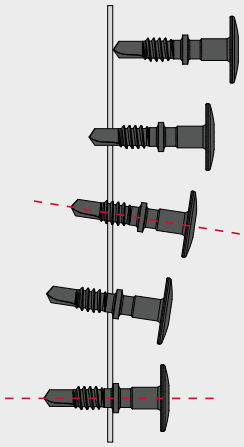
Perpendicular screw connection

The perpendicular alignment of the screw guarantees an optimum sliding point with a relative displacement (dilation) of 3 mm in all directions.



Space for ventilation grille

The attachment points of ventilation grilles and end profiles have no contact with the facade cladding due to the second rear ventilation level.

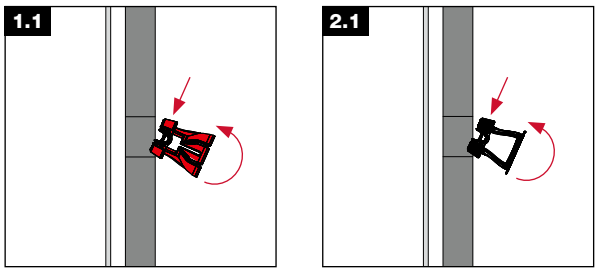


Perpendicular orientation with guarantee: The stop collar

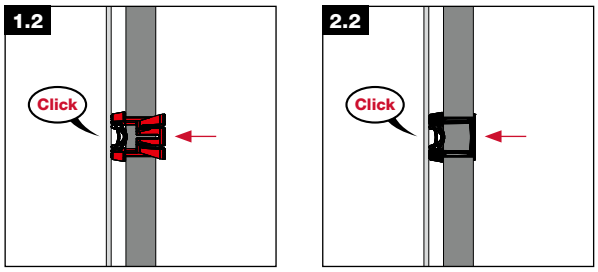
To ensure that screws can be screwed into components, their threads naturally have a slope from the tip towards the screw head. If the threads meet the component, the screw tends to tilt parallel to the course of the threads. This inclined position means that the sliding points cannot be optimally executed and therefore optimum sliding of the facade cladding is not possible. The stop collar of the LT-TD screws counteracts this problem and automatically aligns the screws perpendicular when they hit the stop collar on the substructure. This guarantees perfectly executed sliding points.

The assembly process – simple, with process-reliability

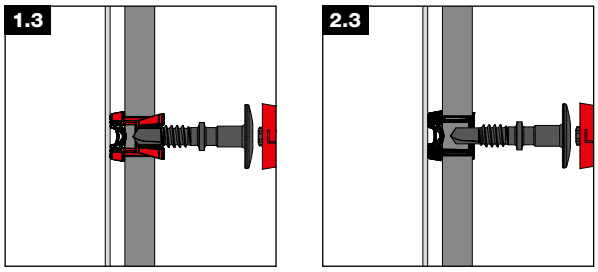
1. Fixed point **2. Sliding point**



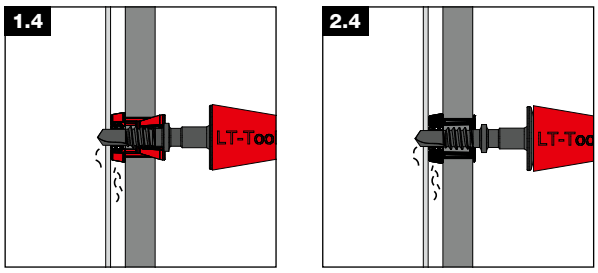
Insert LT-TD grommet
The grommet is inserted at a slight angle into the factory-made drill hole in the facade cladding. The snap-on feet are pressed together and pushed into the drill hole with a tilting movement.



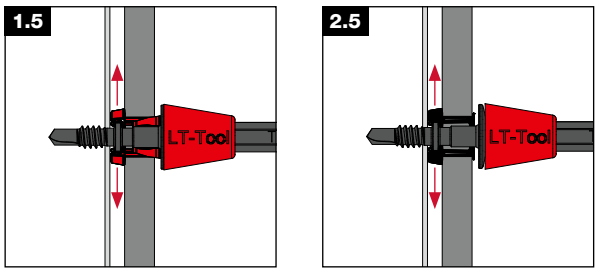
Lock grommet
The grommet is pushed through the drilled hole until the snap-on feet on the back of the facade cladding protrude and snap into place. This way the grommet is securely locked in the facade cladding.



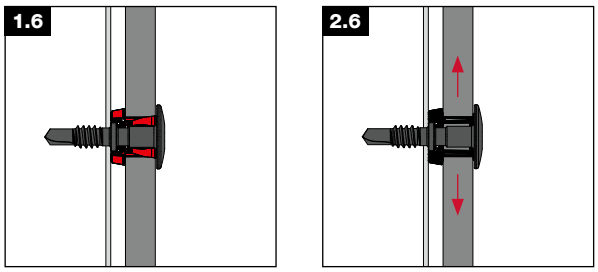
Position LT-TD screw
The centering ring of the grommet is used to position the screw exactly in the center of the drill hole. The LT/STS tool ensures reliable screw guidance.



Fastening operation
Swarf is produced during screw fastening, which can be discharged through the air gap between the cladding and the substructure.



Stop collar
The screw is screwed in up to the stop collar. This controls the exact setting depth for a defined clamping area, ensures perpendicular alignment of the screw and increases the contact surface of the grommet between the facade panel and sub-structure.



Installation complete
For the fixed point (1.6), collets of the grommet enclose the fastener shank and ensure a tight fit of the cladding. The sliding point (2.6) ensures relative displacement (dilatation) of 3 mm in all directions.

LT-TD system selection aid

Screw type	JT4- LT-TD-3-5.5x24/4 KD16	JT4- LT-TD-3-5.5x26/6 KD16	JT4- LT-TD-3-5.5x28/8 KD16	JT4- LT-TD-3-5.5x30/10 KD16	JT4- LT-TD-3-5.5x32/12 KD16
Material	A2 stainless steel	A2 stainless steel	A2 stainless steel	A2 stainless steel	A2 stainless steel
Application	all common facade claddings	all common facade claddings	all common facade claddings	all common facade claddings	all common facade claddings
Approval by cladding manufacturer	–	–	–	–	–
Strip-proof	yes	yes	yes	yes	yes
Substructure	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Drilling capacity (t_I pre-drilled) [mm]	3.0	3.0	3.0	3.0	3.0
Clamping thickness t_{fix} [mm]	4.0	6.0	8.0	10.0	12.0
EJOT proof of usability	coming soon	coming soon	coming soon	coming soon	coming soon
					
LT-TD grommet for fixed points (F)	Centring grommet TD Ø11/4 F	Centring grommet TD Ø11/6 F	Centring grommet TD Ø11/8 F	Centring grommet TD Ø11/10 F	Centring grommet TD Ø11/12 F
					
LT-TD grommet for sliding points (S)	Centring grommet TD Ø11/4 S	Centring grommet TD Ø11/6 S	Centring grommet TD Ø11/8 S	Centring grommet TD Ø11/10 S	Centring grommet TD Ø11/12 S
Availability	coming soon	coming soon	yes	coming soon	coming soon

					
JT3- LT-TD-3-5.5x28/4 KD16	**JT3- LT-TD-3-5.5x30/6 KD16**	**JT3- LT-TD-3-5.5x32/8 KD16**	**JT3- LT-TD-3-5.5x34/10 KD16**	**JT3- LT-TD-3-5.5x36/12 KD16**	**JT4- LT-2/6-6x50 KD16**
A2 stainless steel with hardened steel drill point	A2 stainless steel with hardened steel drill point	A2 stainless steel with hardened steel drill point	A2 stainless steel with hardened steel drill point	A2 stainless steel with hardened steel drill point	A2 stainless steel
all common facade claddings	all common facade claddings	all common facade claddings	all common facade claddings	all common facade claddings	all common facade claddings
–	–	–	–	–	Z-14.4-851 PURICELLI
yes	yes	yes	yes	yes	yes
Steel / Aluminium	Steel / Aluminium	Steel / Aluminium	Steel / Aluminium	Steel / Aluminium	Timber / Aluminium
3.0	3.0	3.0	3.0	3.0	1.5–2.0
4.0	6.0	8.0	10.0	12.0	8.0
coming soon	coming soon	coming soon	coming soon	coming soon	ETA-10/0200
					
Centring grommet TD Ø11/4 F	Centring grommet TD Ø11/6 F	Centring grommet TD Ø11/8 F	Centring grommet TD Ø11/10 F	Centring grommet TD Ø11/12 F	Centring grommet TD Ø11/8 F
					
Centring grommet TD Ø11/4 S	Centring grommet TD Ø11/6 S	Centring grommet TD Ø11/8 S	Centring grommet TD Ø11/10 S	Centring grommet TD Ø11/12 S	Centring grommet TD Ø11/8 S
coming soon	coming soon	yes	coming soon	coming soon	yes

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800-en-global-2025.03.07

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