EJOT®

Flat Roofing



Electro-bonding system

Non-penetrating mechanical fastening of the roof insulation for challenging areas

EJOT. Bringing it together.

Roof insulation for challenging areas

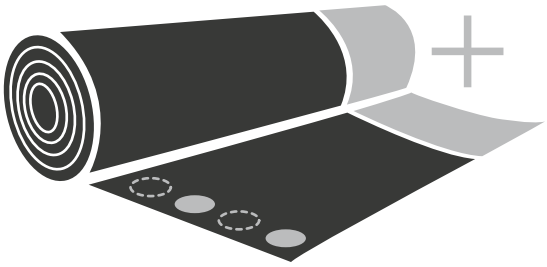
Especially in industrial construction, when building a flat roof, there is a focus on secure fastening of the heat insulation and roof insulation. The large roof surfaces are often exposed to a high wind load and have to withstand those reliably. Here, the mechanical fastening with flat roof fasteners such as HTK-2G from EJOT has become a widespread standard. Thereby, roofing membrane and underlying insulation material will be directly anchored to the surface just in one work step.

When using the flat roof fasteners, the roofing membranes will be placed along the overlap of the single track. This works quickly and ergonomic e.g., with special automated anchor installation tools that EJOT also offers as loan units.

In narrow or angled areas, such as the parapet or rising wall, this type of fastening is often time-consuming and laborious to execute in practice. Here, the application of a special induction system for flat roof fastening can be a practical addition.

Through electro-bonding the roofing membranes will not be necessarily fastened in the edge or overlap area but under the surface. Number and positioning of the single fastening points can be flexibly adjusted to the local occurrences.

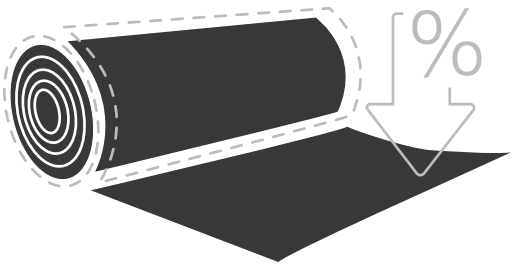
All advantages at a glance



> Less fasteners are required and wider roofing membranes are possible



> Consistent fastener distribution for protection against wind suction

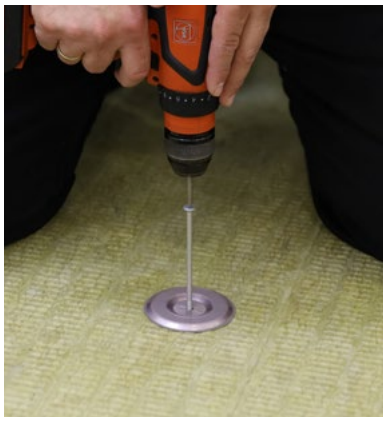


> Reduced use of materials through less and narrower transitions



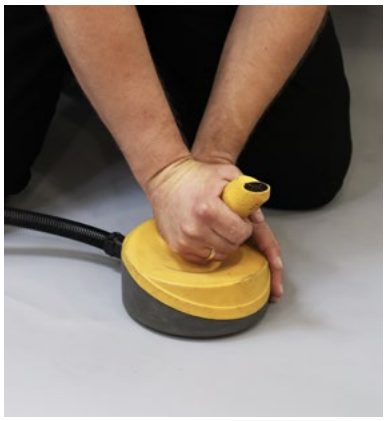
> Processing while kneeling or especially ergonomic while standing

Usage of an electro-bonding system



Step 1:

Fastening of the insulation boards with the EJOT CX-PL 80 metal anchor plates with heat-activated adhesive coating.



Step 2:

With the EJOT CX hand-held electro-bonding tool, plates under the roofing membrane are being located and spot bonded.



Step 3:

Fixing the bonded areas with the EJOT CX magnet until the end of the cooling down process.

When building a roof insulation by using electro-bonding, first the laid down insulation is fastened with special metal anchor plates that have a heat-activated adhesive coating. Then the roofing membranes are rolled out onto it. In the next work step, the metal anchor plates are located and then heated for a few seconds with the induction tool. Through this the adhesive coating on the anchor plates gets a solid connection to the roofing membrane. Afterwards the bonded areas are clamped firmly with a special magnet until they are completely cooled down to prevent detaching. The electro-bonding also works for all common insulating materials and roofing membrane materials: PVC, TPO, FPO, TPE, PP and EPDM.

Fastening with the electro-bonding system is especially flexible and user-friendly because the induction tool can be used horizontally as well as vertically – also in spatially limited areas. Furthermore, the EJOT CX tool holder allows ergonomic processing while standing – just as you are used to by our EJOT automated anchor installation tool for the flat roof area.



Tool and system components

EJOT® CX-PL thermo pad

Protective pad for using the electro-bonding system with heat sensitive XPS/EPS insulation materials



EJOT® CX magnet

Powerful magnet used to clamp membrane against the plate until cooled



EJOT® CX tool holder

Allows the ergonomic use of the induction tool while standing



EJOT® CX hand-held electro-bonding tool

Portable hand-held induction heating tool for EJOT CX-PL 80 plates



EJOT® CX-PL 80 plates

Metal anchor plates with heat-activated adhesive coating



EJOT® CX-TU tubes

Plastic telescopic tube fasteners for special requirements in terms of imposed loads and to reduce thermal bridges. With waterproof plugs



ETA-18/0147
VALRO

Services around the flat roof

For more than 100 years EJOT has been the expert and reliable partner for fastening solutions. We offer more than just one product. We are constantly at your side – from the submission phase through planning and initial sizing until the service on the constructionsite.



EJOT® Fasteners for the system





DABO® screw
VHT-R-4.8

- Case-hardened steel
- Climadur-coated – high-quality coating to improve corrosion protection (15 Kesternich cycles, DIN 50018)
- With bugle head



DABO® screw
VHT-E-4.8

- A4 stainless steel with hardened steel point
- With bugle head



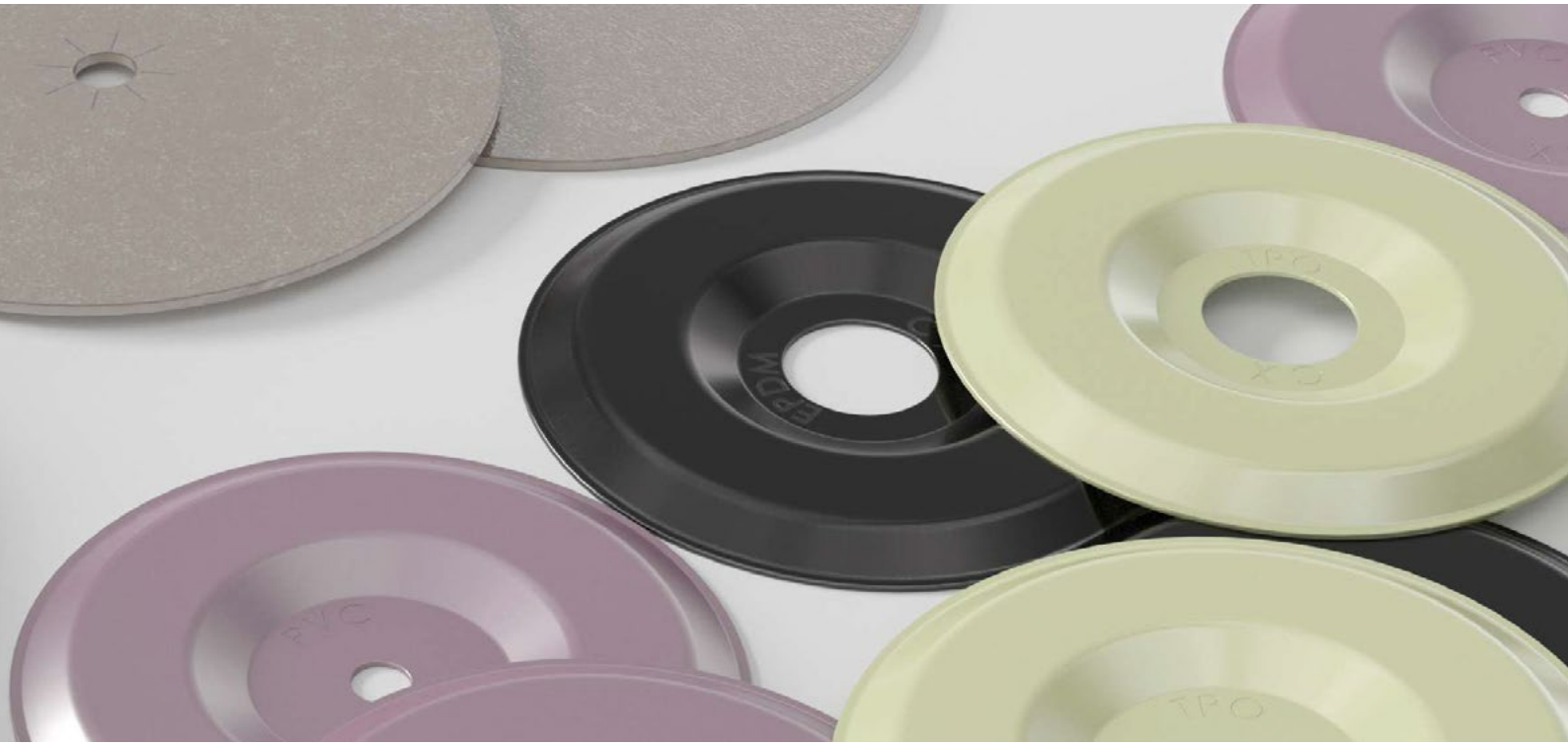
DABO® screw
TKR-4.8

- Case-hardened steel
- Climadur-coated – high-quality coating to improve corrosion protection (15 Kesternich cycles, DIN 50018)
- With bugle head



DABO® screw
TKE-4.8

- A4 stainless steel with hardened steel drill point
- With bugle head





Self-drilling screw
JT2-ST-2-6.0

> Case-hardened steel, protected against corrosion
> EJOGUARD corrosion protection
> With countersunk head



Self-drilling screw
JT3-ST-2-6.0

> A2 stainless steel with hardened steel drill point
> With countersunk head



Concrete screw
FBS-R-6.3

> Case-hardened steel
> Climadur-coated – high-quality coating to improve corrosion protection (15 Kesternich cycles, DIN 50018)



Gas concrete screw
FPS-E-8.0

> A2 stainless steel
> Approved for P3.3/0.5 aerated concrete onwards
> No pre-drilling

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