

Installation instructions

WTC E4



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1. General information

Please check prior to starting with the installation to make sure that the supplied material is complete and undamaged. Any damages or missing components must be reported to MIGUA without delay.

Check whether the material and the on-site characteristics correspond to the technical data detailed in the data sheet. Pay particular attention to the existing expansion joint width. The straightness of the expansion joint may only be +/-10mm out.

Check the previous work carried out by other workers to ensure correct and fault-free execution. Check that the surface is capable of bearing weight and is free of cracks, and that the expansion joint edges do not show any ruptures.

If the conditions for assembly are unsuitable, you may not start assembly.

If the WTC needs a moisture barrier or fire protection (not included) underneath it, these must be assembled beforehand.

2. Preparation

Familiarise yourself with these instructions and working drawings.

Check the progress of the existing construction joint carefully throughout the entire process. These generally have tolerances and are not always exactly even. Record the existing expansion joint width throughout the entire expansion joint.

Have all the tools you require ready.

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3. Units

At the beginning of these instructions, we would like you to get to know the individual units and components of the WTC, and their function.

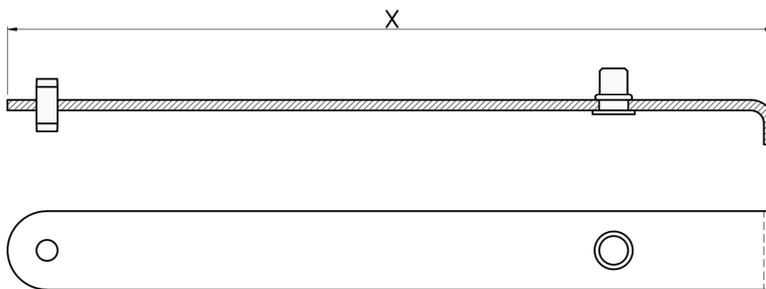
3.1 Linear guides

The linear guides are anchored to the structure on both sides of the expansion joint. The slide bars are for receiving the centring devices (3.2), which can slide along the bars.



3.2 Centring device (expansion joint width from 200mm)

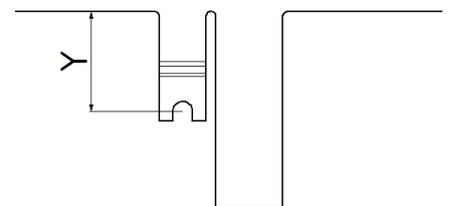
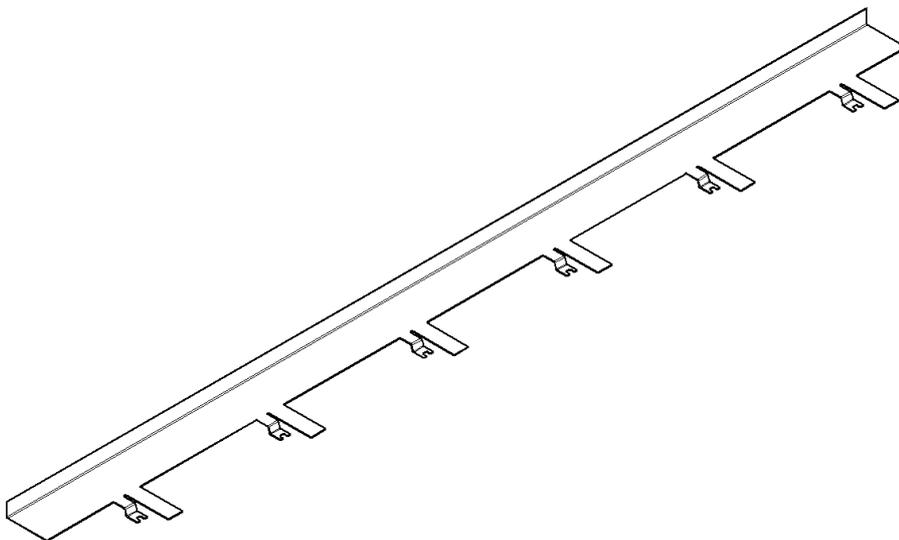
Centring devices are for additional fastening in the centre of the cover plate (3.4) for wider expansion joints (from 200mm). The centring devices slide in the sliding bars, changing their angle to the expansion joint axis when the expansion joint moves.



WTC 200 E4	X=290mm
WTC 300 E4	X=390mm
WTC 400 E4	X=490mm
WTC 500 E4	X=600mm
WTC 600 E4	X=700mm

3.3 Assembly aid for the centring devices

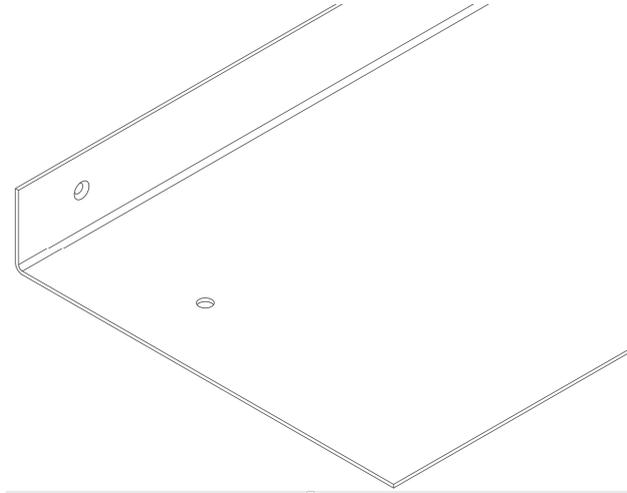
Assembly aids help with the correct positioning of the centring devices, and keep them in position during assembly. Positioning the centring devices correctly is important, to position the centring devices at the exact spot for the screws to fit the threads of the centring devices when assembling the cover hoods later.



WTC 200 E4	Y=75mm
WTC 300 E4	Y=125mm
WTC 400 E4	Y=175mm
WTC 500 E4	Y=225mm
WTC 600 E4	Y=275mm

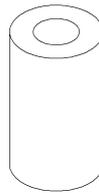
3.4 Cover plate

Cover plates cover the expansion joints and protect them from environmental influences. In delivered condition, the cover plates can be seen on the exterior with a protective film.



3.5 M8x10 spacer tubes

The polyamide spacer tubes prevent the screws from being screwed in too tightly when fastening the cover plates, pressing down any bulges in the cover plates.



3.6 Saddle clamp

Saddle clamps prevent the spacer tubes slipping off the screws while the cover plates are being assembled.



3.7 M8x60-ISO 7380 - A2

The cover plates are fastened to the centring devices with raised countersunk head screws.



3.8 Screws for anchoring (not included with delivery)

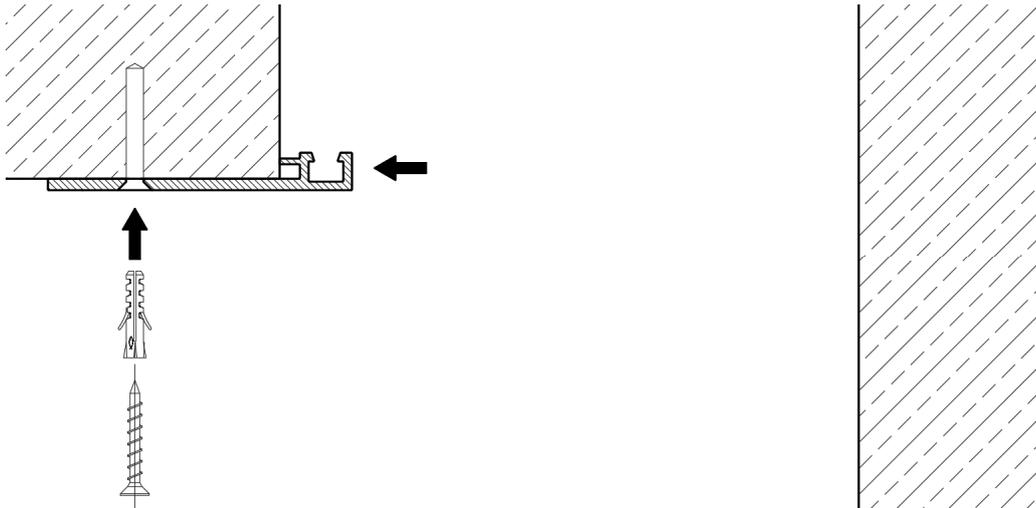
Screws for anchoring to the substructure are separate from the substructure material, and must be fixed individually. Make sure that the countersunk heads of the screws fit the sinkholes in the linear guides.

4. Assembly

When you have familiarised yourself with the components and checked to make sure the materials are complete, you are ready to start assembly.

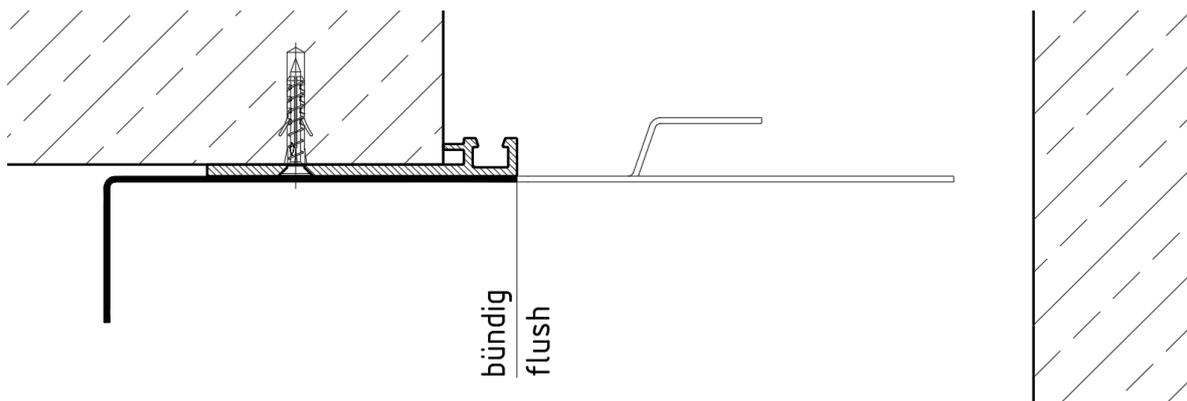
4.1 Assembling the linear guide

Put a linear guide on the wall and slide it towards the expansion joint edges with the stop. Use a spirit level to place the linear guide in a perpendicular position, and fasten it. Use anchoring material which is suitable for the surface you are working with (not included). Make sure also that the countersunk heads of the screws fit the sinkholes in the aluminium profiles. The heads must be flush and must not protrude.



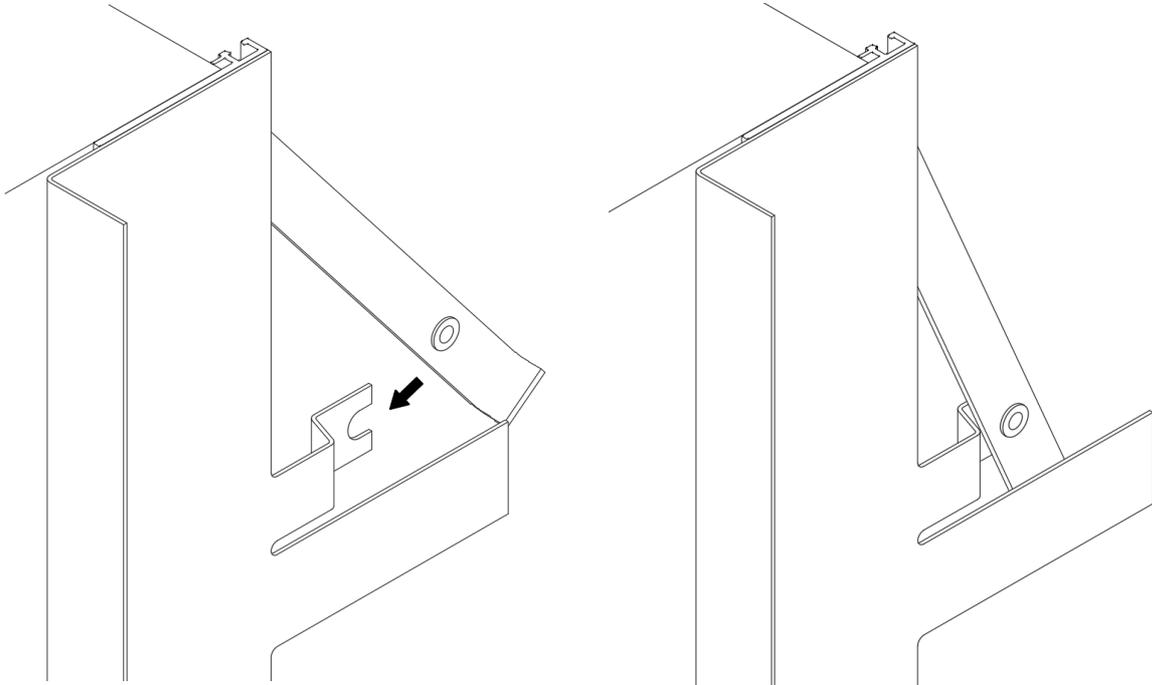
4.2 Assembling the centring bars

Now hook the pins of the centring bars into the sliding bars, and turn the centring bars until they are wedged into the assembly aid. When you have done this with all the centring bars, the assembly aid will stay standing.



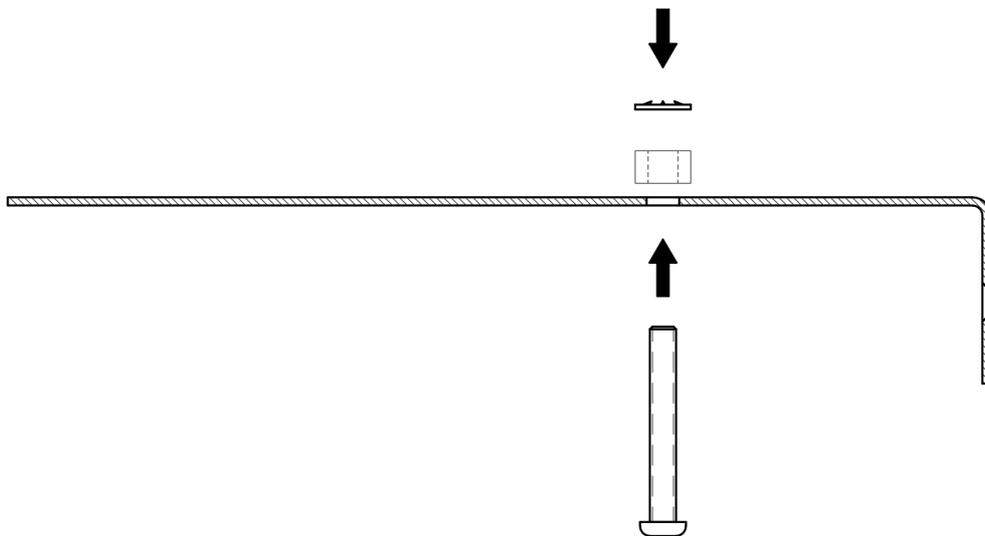
4.2 Assembling the centring bars

Now hook the pins of the centring bars into the sliding bars, and turn the centring bars until they are wedged into the assembly aid. When you have done this with all the centring bars, the assembly aid will stay standing.



4.3 Preassembling the cover plates

Push the M8x60 raised countersunk head screws through the holes in the cover plates from the visible side. Slide the spacer tubes over the screws from the other side, and secure the spacer tubes with clamping rings to stop them slipping.



4.4 Assembling the cover plates

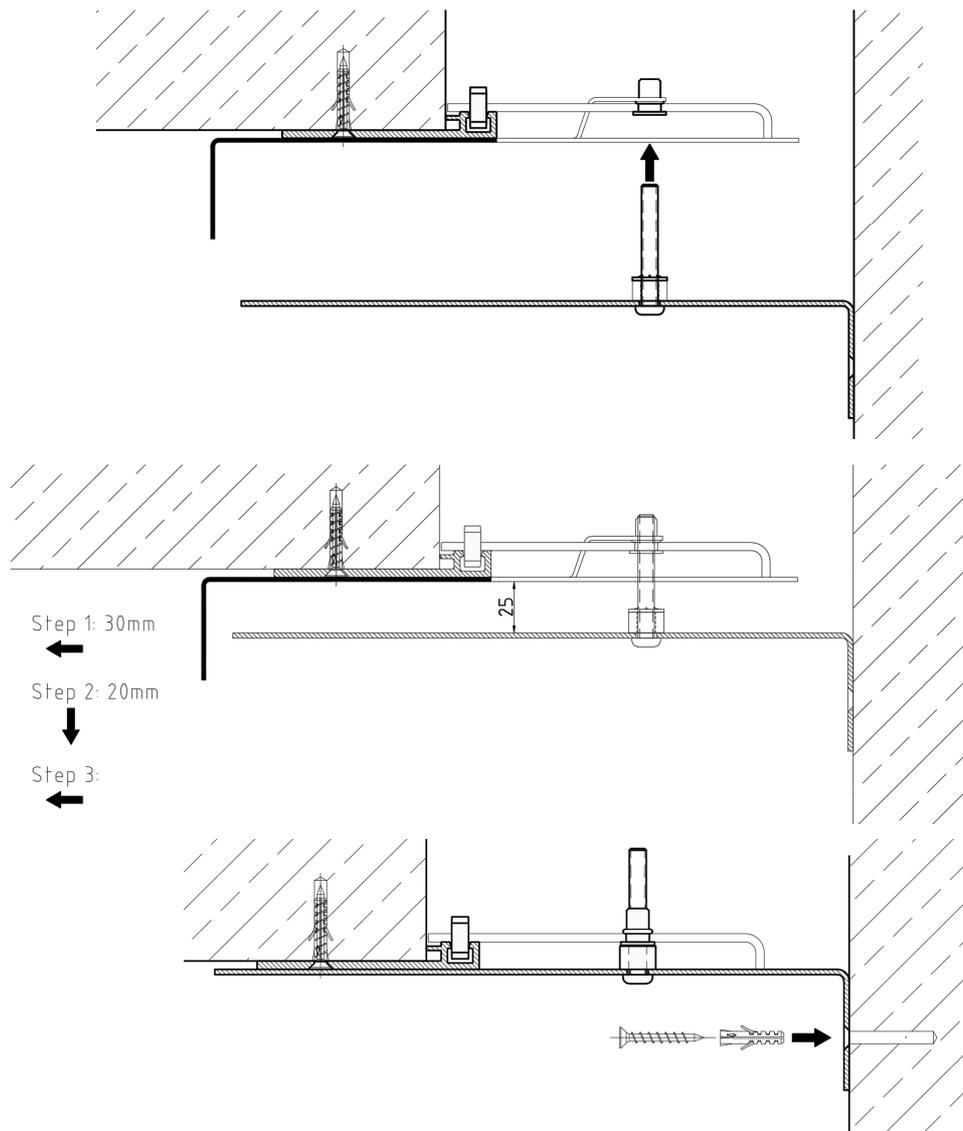
Carefully slide the cover plate towards the wall. Make sure that the screws meet the threads of the centring devices. Screw in the screws carefully until the cover plate until it has a distance of 25mm from the assembly aid.

Now carefully remove the assembly aid and put it to one side, as it will be needed for the next task.

Make sure that the centring devices do not breach the guide bars.

Now tighten the screws for the centring device. Do not put any pressure on the screws or the cover plate; instead, tighten them gently in the cover plate, and turn each screw alternately in a clockwise direction until all screws have been fastened.

When you have fastened the screws, fix the cover plate to the other wall with appropriate fasteners.



5. Acceptance

Dispose of the packaging material and clean the cover. Protect the cover from damages until it has been accepted by the architects.