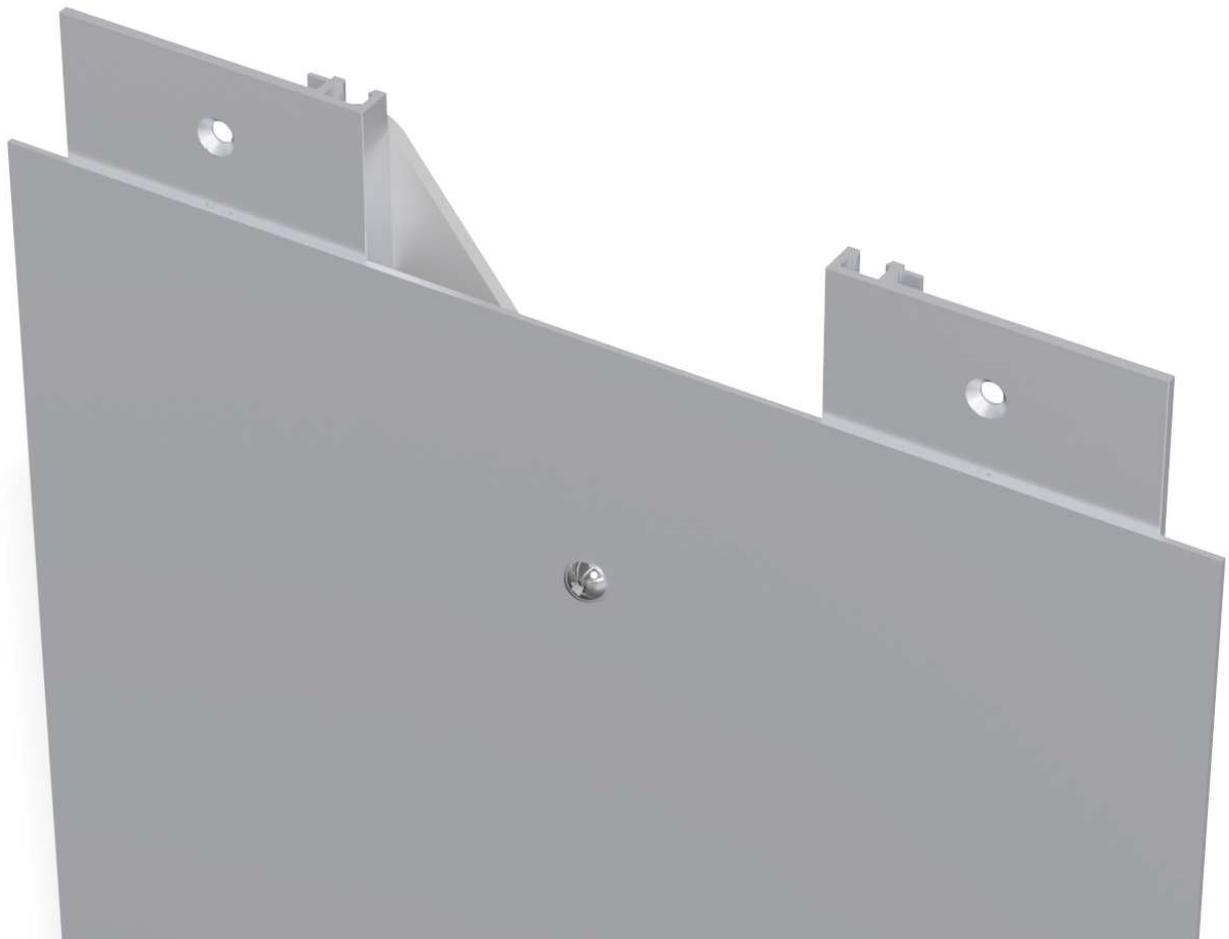


Installation instructions

WTC



MIGUMAX

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. However, the WTC should be laid out in an even and perpendicular manner when assembled. Pull a line taut and fasten the middle axis of the cover.

Check to make sure that the permitted straightness tolerance has not been exceeded at any point with regards to the fixed middle axis.

Record the existing expansion joint width throughout the entire expansion joint, and note the minimum expansion joint width for reassembling the frame.

Have all the tools you require ready.

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.

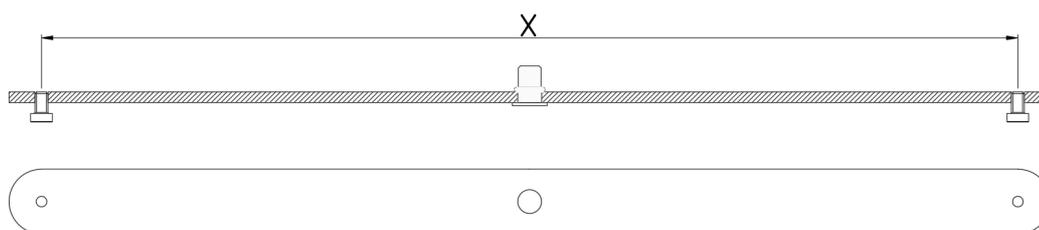
3.1 Linear guides

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

Centring devices are for ensuring that the cover plate (3.6) is always positioned in the middle of the cover, regardless of the movements of the expansion joint. The centring devices slide in the sliding bars, changing their angle to the expansion joint axis when the expansion joint moves. The cover plates are connected with the centring devices.

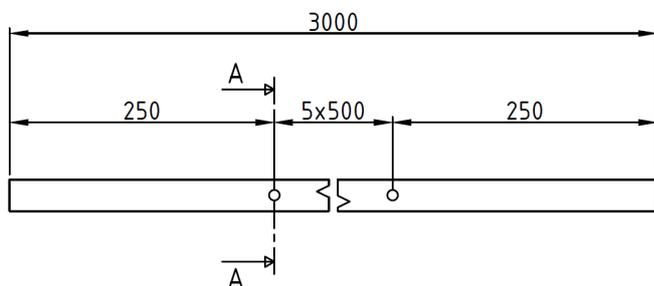


WTC 100	X=150mm
WTC 200	X=300mm
WTC 300	X=450mm
WTC 400	X=600mm
WTC 500	X=750mm
WTC 600	X=900mm

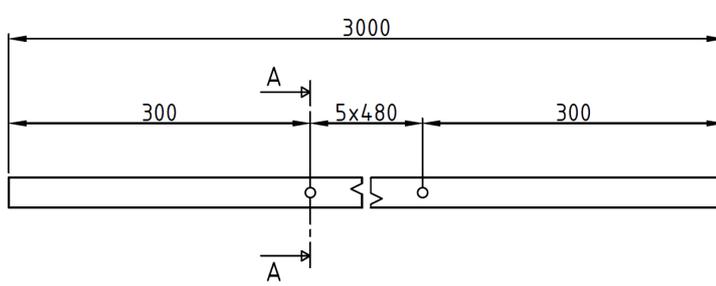
3.3 Mounting gauges for centring devices

Mounting gauges help with positioning the centring devices correctly. Positioning the centring devices correctly is important, so that you can position the centring devices at the exact spot for the screws to fit the threads of the centring devices when assembling the cover plates later.

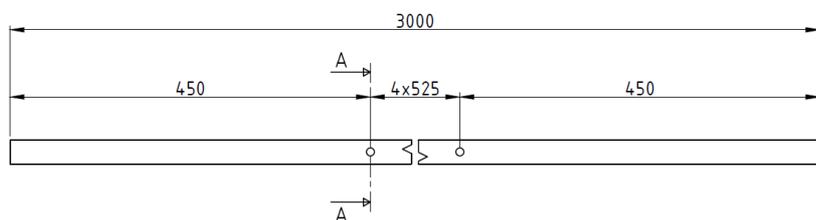
Mounting gauges for WTC 100, 200 and 300



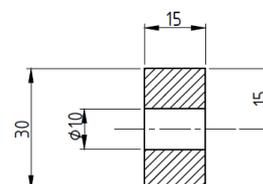
Mounting gauges for WTC 400



Mounting gauges for WTC 500 and 600



A-A cut



3.4 M8x35 wing screws

The wing screws are used to fasten the mounting gauges to the centring devices.



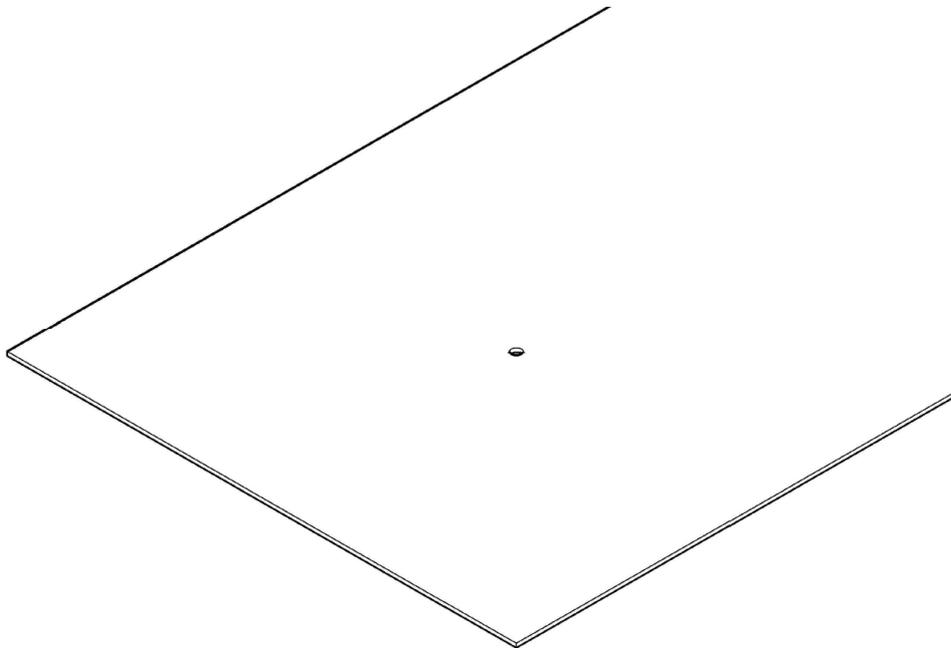
3.5 Square plugs

The square plugs are placed in the sliding bars to prevent the centring devices from slipping during assembly. The plugs are pressed out of the sliding bars when the expansion joint moves.



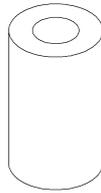
3.6 Cover plate

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.



3.7 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.



3.8 Saddle clamp

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



3.9 M8x35-ISO 7380 - A2

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



3.10 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.

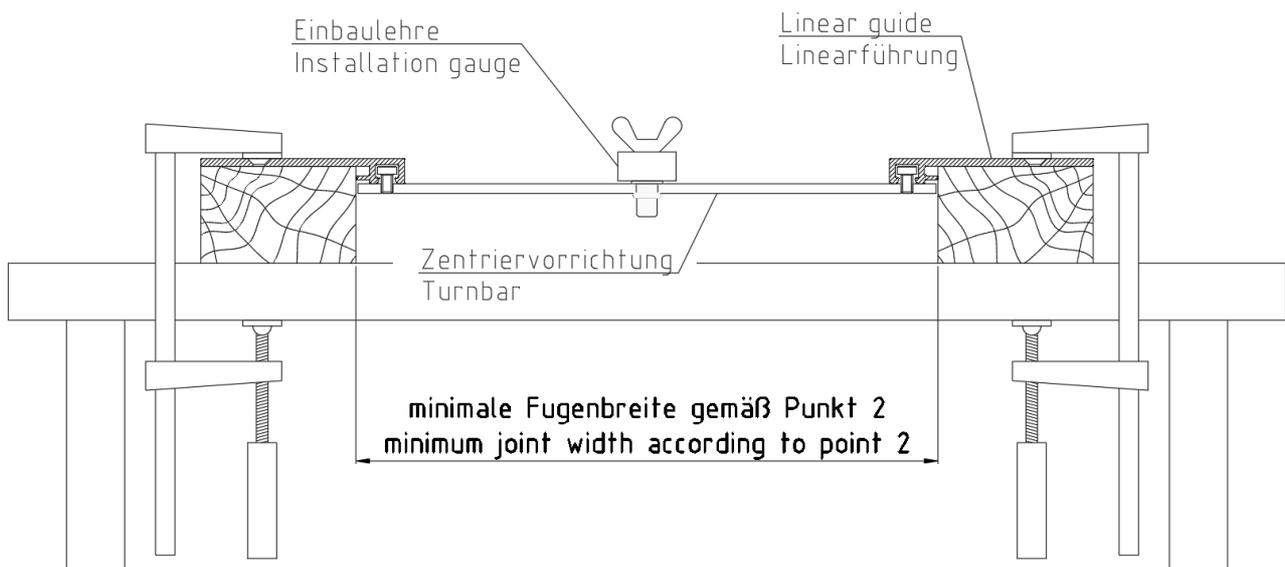
4.1 Preassembling the frame

Lay two linear guides parallel to each other, at a distance of the expansion joint width recorded under point 2, with the slide bars pointing inwards on the trestle. Underpin the linear guides, e.g. with wooden blocks, so that the slide bars hang downwards. Position the linear guides so that the ends are flush, and fix with screw clamps.

Carefully guide the required number of centring devices (equivalent to the number of holes in the mounting gauges) into the slide bars, and slide them into the approximate installation position. The direction of the centring devices must be the same, and the rivet nuts must be projecting downwards. With the mounting gauges, you can position the centring devices at the exact spot for the screws to fit the threads of the centring devices when assembling the cover plates. Fasten the mounting gauges to the centring devices with wing screws.

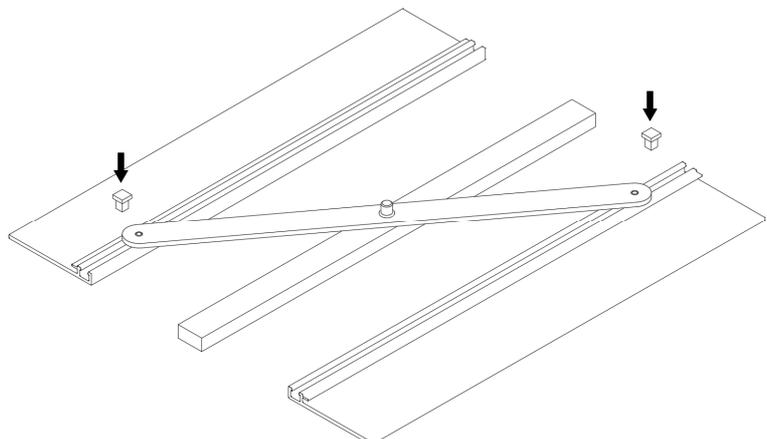
The WTC needs to be adjusted to the existing expansion joint width on site; therefore, we do not have a spacer for this cover. Fix each centring device with two square plugs per device to stop them slipping down during assembly.

You now have a frame with the exact installation dimensions.



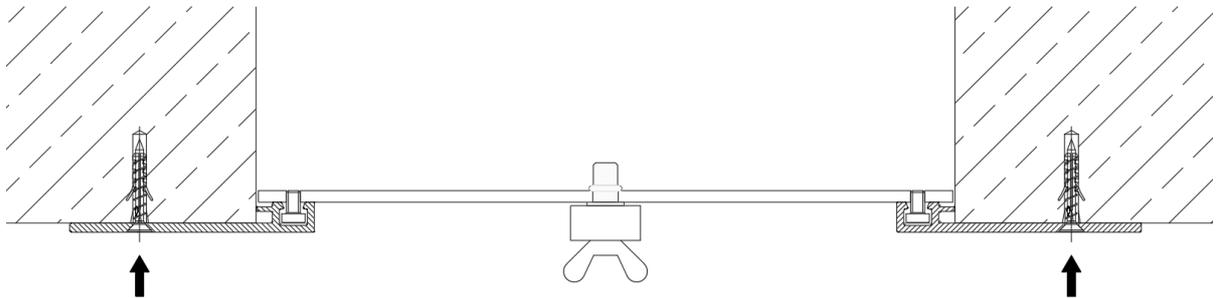
View from below

The centring bars are fixed with the square plugs during assembly.



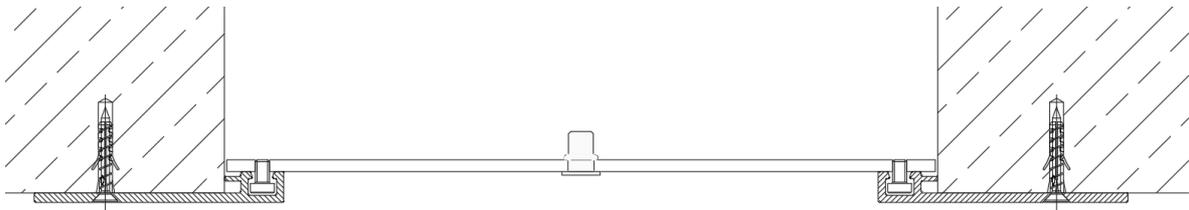
4.2 Anchoring the frame

The preassembled frame can now be placed centrally towards the fixed expansion joint axis on the wall, and anchored with the appropriate fasteners.



4.3 Removing the mounting gauges

Now remove the mounting gauges carefully. Make sure that the square plugs are still in the correct position, and that the centring devices do not slip downwards. The mounting gauges will be reused for the next length.

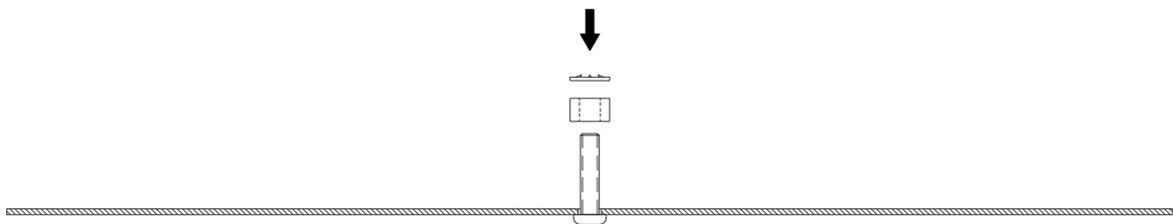


4.4 Following frame

Assemble the next frame as set out in 4.1.

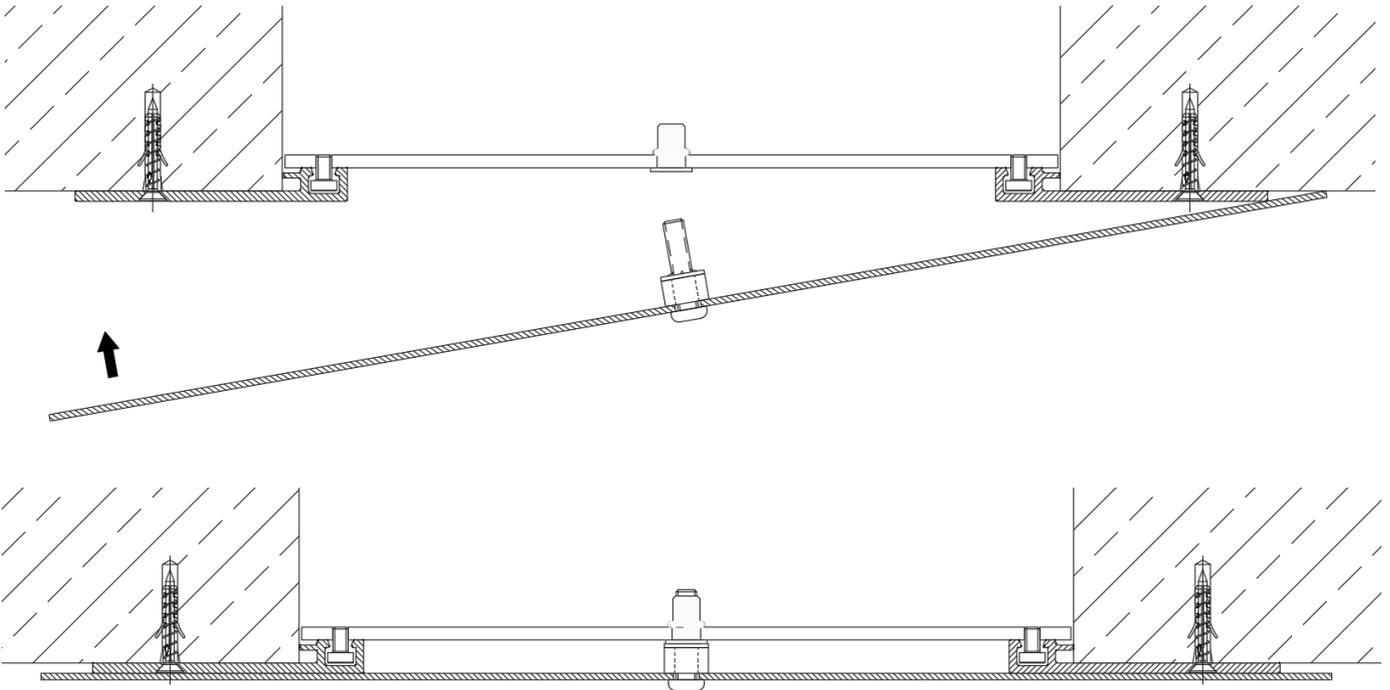
4.5 Preassembling the cover plates

Push the M8x35 raised countersunk head screws through the holes in the cover plates from the visible side. Slide the spacer tubes over the screws from below, and secure the spacer tubes with clamping rings to stop them slipping.



4.6 Assembling the cover plates

Place the cover plate on one side against the wall. Carefully fold the hood towards the wall. Make sure that the screws meet the threads of the centring devices. Fasten the screws.



5. Acceptance

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