

Installation guideline pictured

Customised solution for horizontal sun shade louvres

Ceramic profiles KERASHAPE® square tube 60 mm x 60mm,

Supporting aluminium profile 40/40/4 mm

Direct hook-on inside the aluminium profile with special hang-in device



Figure 1: Total view on completed assembly in 2400 mm length

Description:

The continuous aluminium profile 40/40/4 mm carries the KERASHAPE® profiles 60/60 mm.

Please cut the aluminium profile 400 mm shorter than the clearance between the two mullions (e.g. 2400 mm – 40 mm = 2360 mm)

Please cut KERASHAPE® profiles 25 mm shorter than the clearance between the two mullions (e.g. 2400 mm – 25 mm = 2375 mm).

If two separate ceramic profiles are in-between, the result needs to be divided by two and if necessary adjusted downwards (e.g. 2375 mm / 2 = 1187.5 mm → 1187 mm).

Without a tool the hang-in device can be pressed into the cut and deburred aluminium profile, it will stay in place by spring force (Figure 2, Figure 3). The holder should protrude by 20 mm over the aluminium profile (Figure 4).

When using more than one KERASHAPE® profiles on one aluminium profile, an EPDM spacer has to be placed between (Figure 8).

To secure the position of the KERASHAPE® profiles spring clips are placed between the aluminium profiles and the ceramic, during the assembly (Figure 5, Figure 7).

One spring clip per ceramic profile has to be placed on top of the aluminium profile.

The spring clip is to be placed at the centre joint if there is one (**Fehler! Verweisquelle konnte nicht gefunden werden.**). That positioning will allow free different thermal expansion of aluminium and ceramic the same time the joint between the adjacent KERASHAPE® profiles will stay constant.

Furthermore, the positioning of the spring clip at the centre joint on top of the aluminium profile will lift the ceramic for the clearance. Therefore, the deflection of the complete system caused by dead load will be reduced or even compensated. Alternatively to the spring clips, a polyurethane adhesive can be used at the same positions to do a punctual bonding.

The pre-assembled element can be hung at ones into standard base plates, which are fastened previously to the exiting construction (Figure 9). That enables to use the securing clip as well (Figure 10, Figure 11).

Roughly estimated, the centre deflection cause by dead load of a 2400 mm long assembly will be 4 to 5 mm. As the straight edge control shows (**Fehler! Verweisquelle konnte nicht gefunden werden.**), the installation of the spring clips as described above does reduce the deflection to less than 1 mm (Figure 13).

Picture series of assembling:

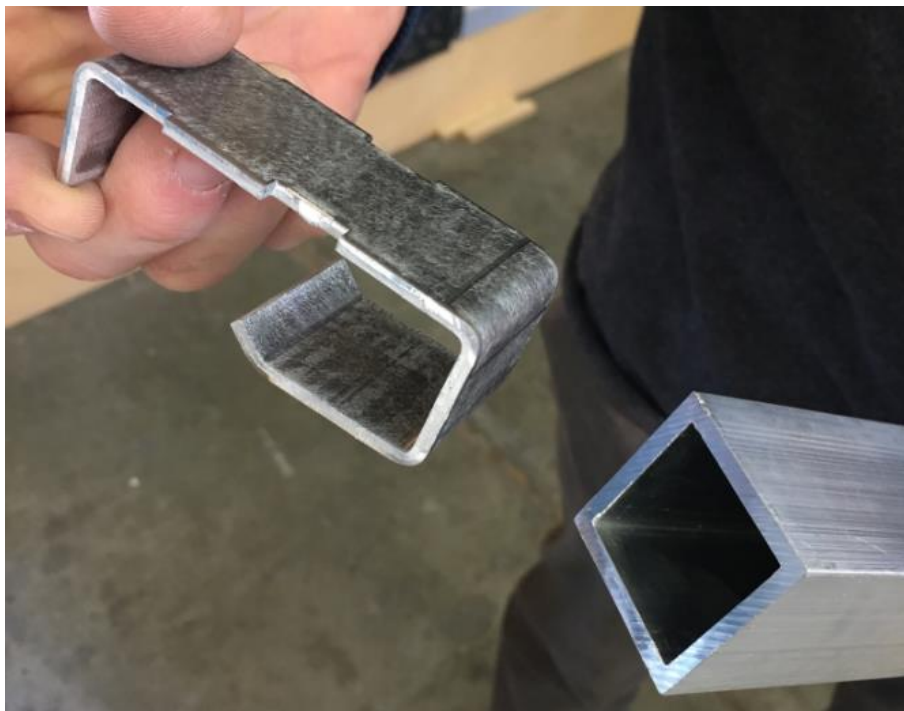


Figure 2: holder and aluminium profile before assembling

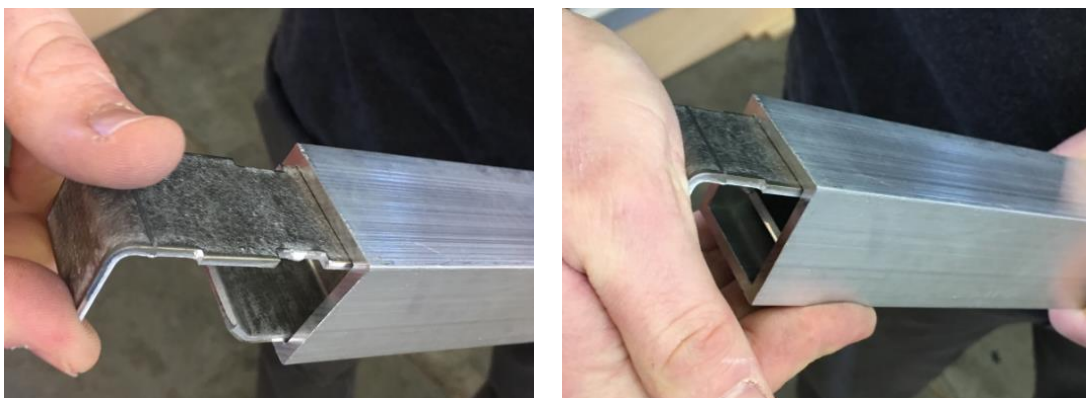


Figure 3: inserting of holder into profile



Figure 4: holder within aluminium profile protruding about 20 mm

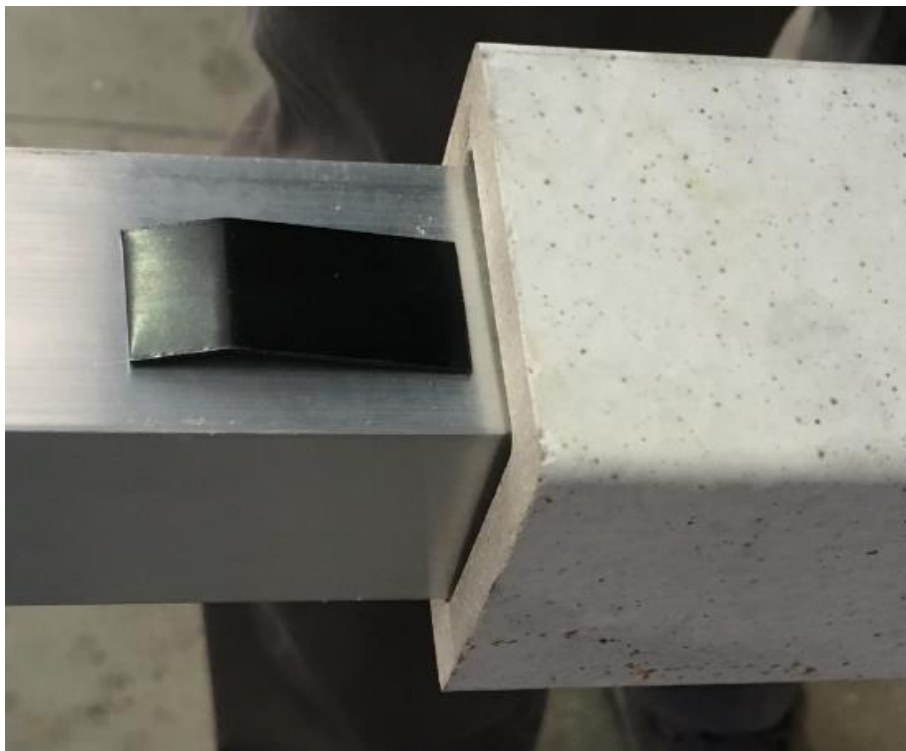


Figure 5: Inserting the aluminium profile and placing of the spring clip



Figure 6: Position of the spring clip at the centre joint on top of the aluminium profile



Figure 7: spring clip during installation

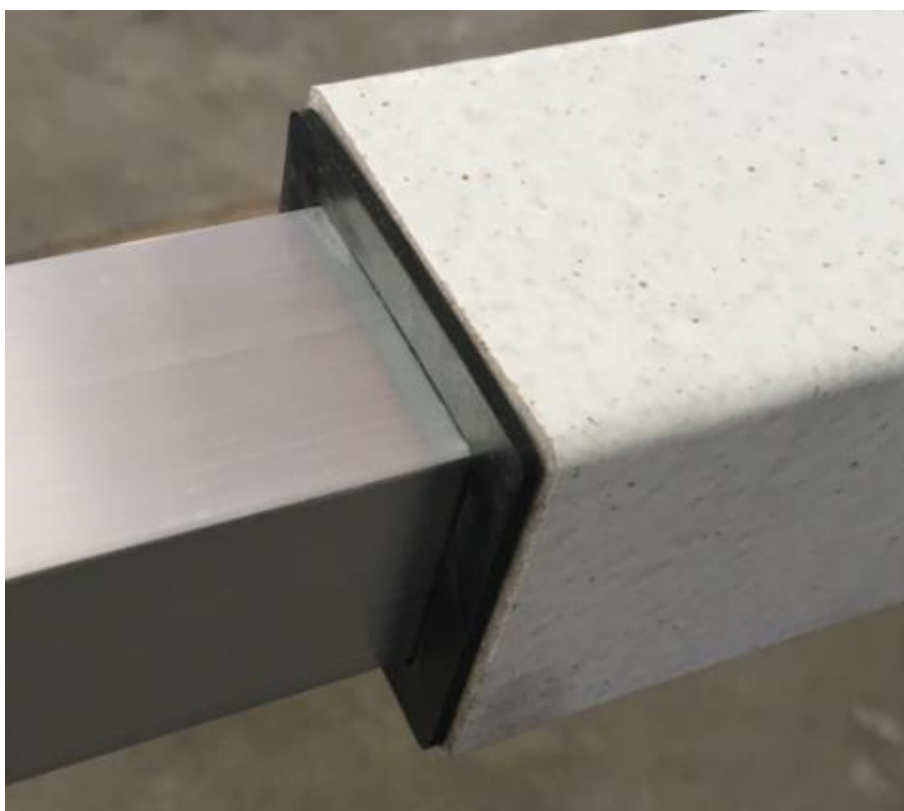


Figure 8: EPDM spacer between the ceramic profiles

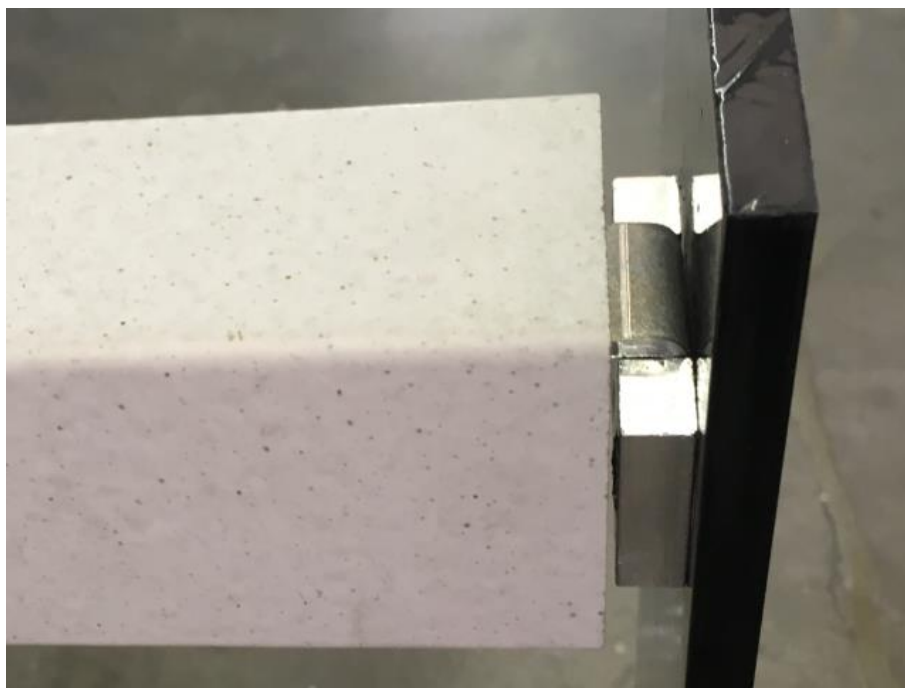


Figure 9: Hang-in holder placed in the base plate



Figure 10: Installing the securing clip



Figure 11: assembly with securing clip installed



Figure 12: straight edge control of deflection



Figure 13: centre deflection caused by dead load less than 1 mm