

Handling instructions

Coating of aluminum with polyamide-based
thermal break profiles

Handling instructions

Coating of aluminum with polyamide-based thermal break profiles

Aluminum with polyamide-based thermal break profiles are generally coated as follows:

1. Conventional cleaning and/or pre-treatment baths

2. Drying of profiles

(e.g. blowing-out or drainage using compressed air)

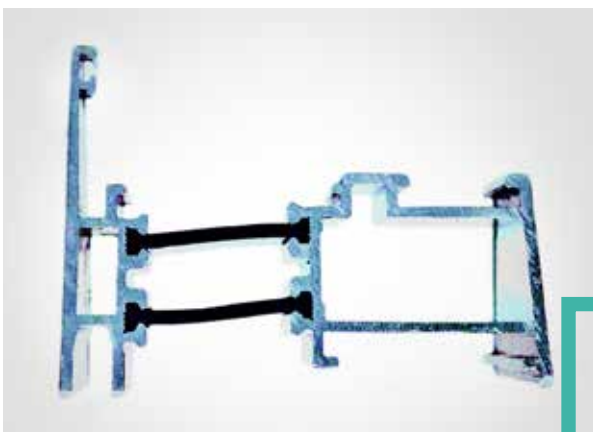
It must be ensured that no residues from the bath are present on the profiles, in the cavities or gaps. Such moisture can lead to the following problems: Formation of blisters or even rupture of insulating strips as a result of oven temperature.

3. Suspending profiles for coating

In order to avoid excessive bending in the horizontal coating process the profile might have to be supported if either the weight of the assembled profile is too high or if the geometry-dependent expansions are too different. In order to eliminate lob-sidedness in the vertical coating process it is important to hang the assembled profile from the aluminum part / parts (heavier part) so that it will hang as vertically as possible.

4. Coating the profiles in the oven

The object temperature of 180 °C – 200 °C and the dwell time of approx. 20 min. must not be exceeded. If this temperature or time is exceeded, the stability of the insulating strips may suffer. There is the risk of the profiles dis-aligning and moving out of parallel as well as a considerable loss of strength in the connection between the two aluminium sections.



Possible dis-aligning of an aluminum with polyamide-based thermal break profile