

# Notes on fitting

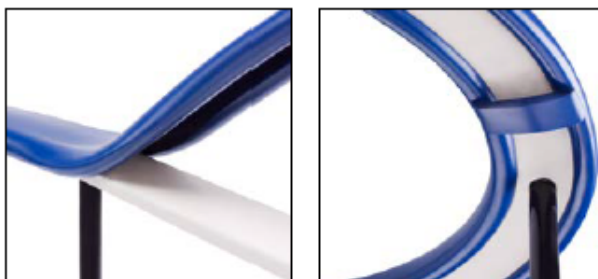
## Material

REHAU handrail profiles are made from plasticised RAU-PVC. RAU-PVC is a thermoplast and therefore its properties are temperature dependent. This can be taken advantage of when fitting.

## Installation

Firstly, it is necessary to ensure that the steel bar is smooth, e.g. it has no unmachined welding points. During installation, the handrail profile has to be heated to 70 to 90 °C. Thicker handrails require a longer preheating time. As a result of this, the profile becomes soft and pliable. A hot-air appliance, which is also available from REHAU (mat. 12330231001), is used to heat the handrail. Experience has shown that these appliances offer high installation efficiency. If the surrounding air temperature is low, it is advisable to store the coils of handrail in a heated room before installation.

The handrail is applied starting from the top down. The section of profile inside the appliance can be fitted to the flat steel bar with ease after a short heating period. The profile should not be stretched lengthways.



Curves can be covered without creasing if the profile is heated slightly more.

The profile is stretched at the outer radius and compressed at the inner radius. It is necessary to ensure that the lower retaining section is in contact with the steel bar across its entire surface. Retaining bars (cut from the profile) can be welded onto the underside of the curves to ensure that the profile does not lift off.

The inner radius of a curve should not be less than 1.5 times the profile width. The smallest recommended minimum radius for round handrails is 13 cm.



REHAU provides no guarantee for radii smaller than this. Once the fitted handrail has cooled, the ends are cut neatly leaving an extra 2 to 5 cm (depending on the profile length) to compensate for possible profile shrinkage. It is advisable to wait a few days before finishing this work.