Accessories

# Anchoring systems


For the anchoring of insulating materials we offer a wide range of different pins, bolts and anchors.

For lining with mats by the layer installation technique, anchoring with bayonet pins, installation clips and front-side rotating clips has proved itself. Where a solid board, e.g. SILCABOARD, is used as inner insulating layer, threaded bolts and end-clips are used. The end-clip is pushed over the thread and locks in there.

At higher temperatures or where there is high mechanical loading, a thicker threaded anchor plate can be used as closure.

In addition to metal end-plates, ceramic securing devices – so-called cup-locks – are available. These have the advantage that the temperature loading is not transferred completely to the threaded stud since this does not extend into the inside of the furnace. Thus the anchoring of the cup-lock takes place within the thermal insulation.

For the individual areas of application different qualities of steel are available – starting with 1.4301 via 1.4841 to 2.4851.

In order to permit installation to be carried out rapidly, the anchorings are designed for stud welding machines. The studs are welded on rapidly and reliably with a drawn-arc welding system with the aid of a ceramic ring.

## SPECIAL FEATURES

- resistant to high temperatures
- material quality in accordance with temperature requirements
- rapid installation through stud welding

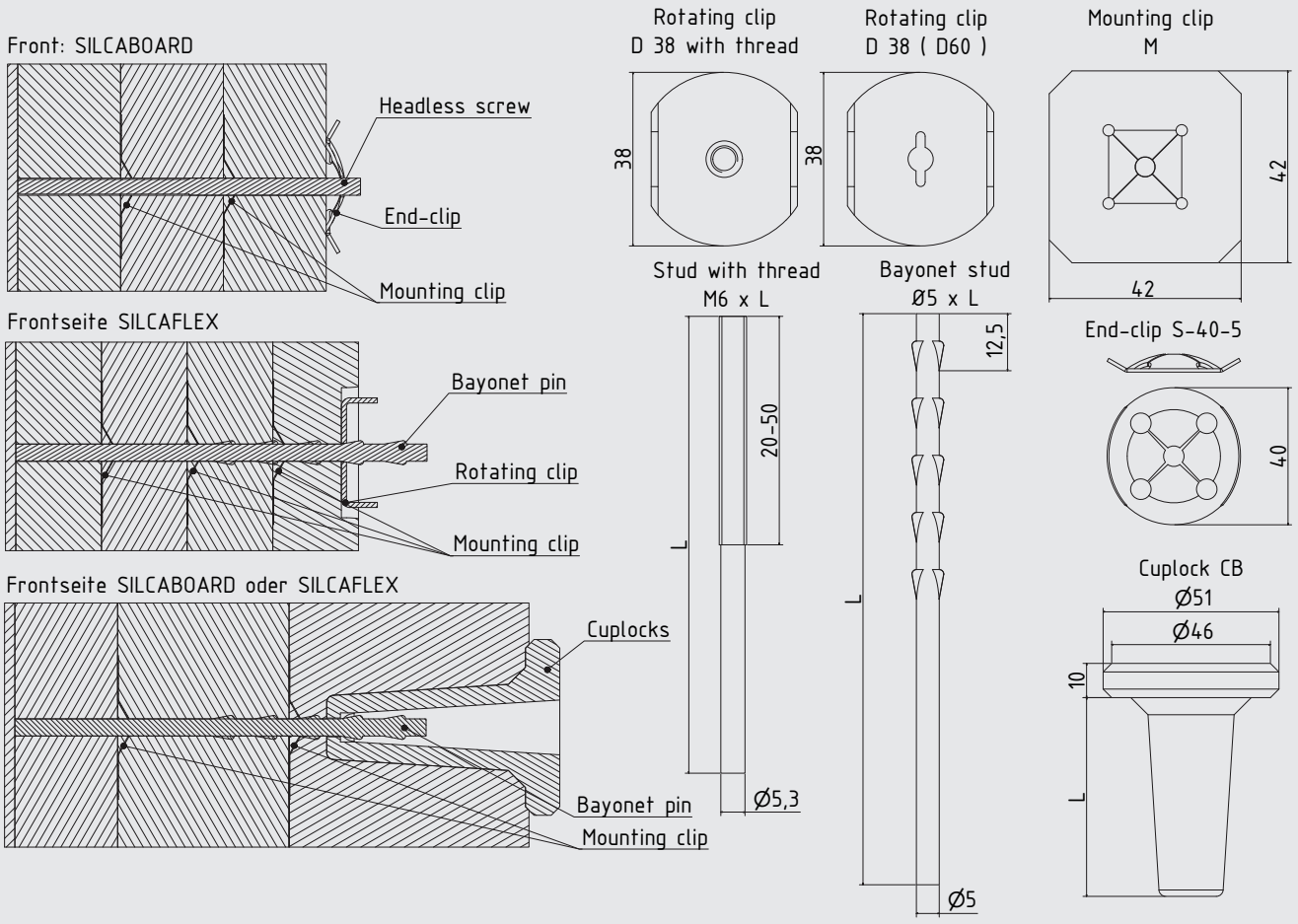
| Material designation | Length | Material | Temperature resistance *) |
|---|---|---|---|
| Bayonet pin Ø 5 x length | 40 – 400 mm (steps at 5 mm) | 1.4301<br>1.4828<br>1.4841 | 500 °C<br>850 °C<br>950 °C |
| Rotating clip D 38 (D 60) for bayonet pin | | | |
| Studs M5 x length<br>Studs M6 x length | 25 – 400 mm (steps at 5 mm) | | |
| Rotating clip D 38 threaded M6 | | | |
| End-clip S-40-5<br>End-clip S-40-6 | | | |
| Mounting clip M | | Mild steel<br>1.4301 | 300 °C<br>500 °C |
| Cup-lock CB 1“<br>Cup-lock CB 2“ | 26 mm<br>59 mm | Ceramic | 1,050 °C (low resistance to temperature change) |
| Expanded metal grid, width 1,000 mm x L | 5,000 mm | Mild steel | 300 °C |
| Expanded metal grid, width 1,000 mm x L | 1,000 mm | 1.4301<br>1.4841 | 500 °C<br>950 °C |
| Expanded metal grids are secured with Ø 3 x 35 mm pins. Requirement: approx. 25 pins /m² of material St37. | | | |
| *) The scale limit temperatures are 700 °C (1.4301), 1,000 °C (1.4828) and 1,150 °C (1.4841). | | | |
| The maximum application temperature of the cup-lock is limited by the maximum application temperature of the metallic anchorage. | | | |

# Anchoring systems

All bayonet pins and studs can be welded on with commercially available stud welding devices. Ceramic rings for welding on are supplied.

**You will find details of the special anchoring systems for the SILCASTACK and SILCAFIX module systems on data sheet No. 44.7.**

## Securing systems

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