akurit SLK-ALU-TR

Heavy duty brackets

approved heavy duty brackets for thermal bridge-proof external assembly of heavy components

- comprising of PU rigid foam with four cast-in-place steel brackets
- with aluminium plate for threaded connection of the mounting object and a compact plate (HPL) for optimum pressure distribution across the surface

Applications

- used for stairways, awnings or canopies

Substrate

Condition / Testing

- The suitability of the fastening material supplied is to be checked for the substrate and the application area.

Processing

Applying / Processing / Assembling

- Mark first drill hole and drill. Drill masonry with perforated bricks without hammer action.
- With the drilling jig for SLK-ALU-TR, place a positioning bolt into the corresponding hole. Drill second hole with the aid of the drilling jig for SLK-ALU-TR.
- With the drilling jig for SLK-ALU-TR, place second positioning bolt into the corresponding hole. Drill third and fourth hole with the aid of the drilling jig for SLK-ALU-TR.
- Drilling dust must be thoroughly cleaned out of drill holes. Cleaning procedure for concrete or solid bricks:
  blow out 4x
  brush out 4x
  blow out 4x
- Adjusting the SLK-ALU-TR heavy duty bracket: Align the SLK-ALU-TR heavy duty bracket with spacer washers precisely with the facade. If required, spray threaded bolts with corrosion protection spray.
- Press injection mortar in the SLK-ALU-TR heavy duty bracket through the holes on the sides until this escapes between the SLK-ALU-TR heavy duty bracket and the substrate. Consumption per SLK-ALU-TR heavy duty bracket: 30 ml
- Adjust insulation panels without joints. Mark the exact position so that the SLK-ALU-TR heavy duty bracket can be found again after applying the plaster coating.

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Subsequent coating / workability

- SLK-ALU-TR heavy duty brackets can be coated with standard coating materials for external thermal insulation composite systems without a primer.
  Attachments can be fitted onto the plaster coating. In this case the coating must withstand the pressure forces caused by the attachment.
- Screws with a metric thread (M-screws) are suitable for screwing into the SLK-ALU-TR heavy duty bracket.
  Screw connections must only be made in the usable areas intended for this.
- Drill hole through the compact and aluminium plate. The drilling depth must be 40 – 50 mm.
  Drill diameter:
  M6: 5.0 mm
  M8: 6.8 mm
  M10: 8.5 mm
  M12: 10.2 mm
- Screw the attachment in the SLK-ALU-TR heavy duty bracket.
  The screw depth into the SLK-ALU-TR heavy duty bracket must be at least 35 mm so that the screw connection is made in the whole thickness of the foamed-in aluminium plate.
  To determine the entire screw depth, the exact thickness of the coating on the SLK-ALU-TR heavy duty bracket must be known.
  The necessary screw length results from the screw depth, the thickness of the coating and the thickness of the attachment.
  Tightening torque M_A
  per M6 screw: 10.0 Nm
  per M8 screw: 25.0 Nm
  per M10 screw: 48.4 Nm
  per M12 screw: 65.9 Nm
  The manufacturer's specifications are to be taken into account for the tightening torques of the screws.

Notes

- The heavy duty bracket is to be fitted before gluing the insulation panels.
- Heavy duty brackets must show no signs of damage before installation that impair the static load-bearing capacity and must not be exposed to weathering for a longer period.

Storage

- Store dry and as per instructions.

Technical Data

Base area	250 x 150 mm
Usable area	162 x 82 mm
Thickness	100 – 300 mm
Fire behaviour	E

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

General notes

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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