

### re-IR 3000 Infrared heater

«re-IR 3000» infrared heater with mobile and spring support, control module and integrated temperature sensor. The device is designed for a maximum room height of 3.00 m and requires a 3x400V, CEE16 3LNPE power connection on-site.



### re-T Support

Quick support with attachable T-piece (length: 1.40 m) for a maximum room height of 3.00 m. The free hanging length of re-plate must be less than 70 cm.



#### Tested Hilti direct fastening

re-plate was tested as a system with Hilti X-CR 48 P8 S15 nails, which are applied with the appropriate DX 5 powder actuated setting tool.





#### re-plate:

Dimensions	Cross-section	Prestressing force $F_{p,\theta}$	Prestressing $\sigma_{p,\theta^{\star}}$	Relaxation
120/1.5 mm	180 mm <sup>2</sup>	68 kN	380 N/mm <sup>2</sup>	15% after t <sub>∞</sub>

Maximal stress $f_{s, ud} **$	Anchorage resistance $F_{s, ud **}$
610 MPa	109.8 kN

<sup>\*</sup> In case corrosion protection is required max. activating temperature is 165 °C, this results in prestress 300N/mm² (54 kN/re-plate)

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<sup>\*\*</sup> Design value at anchorage failure

# **Application**



Remove any coatings and/or insulation in the reinforcement area



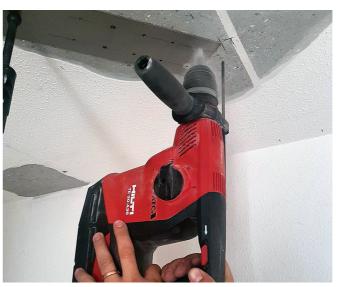
2 Temporary fixing of re-plate with T-supports



5 Step-wise heating with re-IR 3000 infrared radiant heater



6 Program temperature control during heating via the built-in control unit log



**3** Pre-drill supporting surface through pre-punched re-plate Ø 3.5 mm



4 Mechanically end-anchoring with Hilti DX 5 powder activated tool and system-tested stainless steel nails (X-CR 48 P8 S15)



Applied and pre-stressed re-plate - load-bearing components can now be removed - if necessary, apply the system-tested Sika

# Indoor cement-based application:

**SikaCem Pyrocoat**® "Fire protection spray plaster" applied by machine

Thickness: approx. 15 -40 mm

fire protection system

Fire resistance depending on requirements

\*no adhesive primer on re-plate necessary

## Outdoor application/cement-based tunnel construction:

**SikaCrete**®**-213F** "Fire protection sprayed mortar" applied by machine

Layer thickness: mm

Please contact our technical service.

\*no adhesive primer on re-plate necessary

# Fire protection

re-plate can be protected with various Sika fire protection mortars. For a high degree of reinforcement and residual safety in the event of failure of re-plate under the action of heat, object-specific fire protection measures are required. Depending on the field of application, the easily appliable fire protection measures can be designed based on the valid Sika product documentation.



For exterior applications, mortars from the Sika Monotop® series are available. Fire protection measures concerning the specified coating thicknesses are standard values and must be adapted to the locally applicable official regulations and the applicable standards.