

Specification text: Celsion Fire Protection Enclosure (CK- 30/ CK 30-SHD/ CK 30-SHW)

Tested fire protection enclosure with a fire resistance duration of at least 30 minutes, with a fire load from outside and inside in the sense of F30, tested in accordance with DIN EN 1363-1 in the sense of E30 (i <->o) as well as single components in accordance with EN 13501. Compliance with the limit values specified in EN 1047-2 or EN 12101-10 is possible during normal operation and in the event of a fire.

Based on the general technical approval / general construction type approval Z-86.1-54 for the scope of MLAR 2005 5.2.2 c.

Suitable for maintaining the functional integrity for at least 30 minutes in the event of fire exposure from the outside in the sense of E30.

Proof of the heat development of electrical/electronic installations in the enclosure under normal condition and in the event of fire can be provided on a project-specific basis by calculation or by a fire test at an MPA.

Fire protection enclosure type small distribution board (CK30 / CK 30-SHW / CK 30-SHD)

- Suitable for functional integrity of safety-related installations over 30 minutes
- With a tested fire resistance of 30 minutes (flame exposure from outside and inside)
- IP, 54, IK 08, Ui=400V, Protection class 2 according to EN 62208
- Approved by the General Building Authority Z-86.1-54 (MLAR 5.2.2c)

Dimensions and technical data

- **Type CK 1-30 fire protection enclosure as small distribution board**

External dimensions in mm			Internal dimensions in mm		
H 314	W 314	D 168	H 200	W 200	D 100

Weight approx. 13 kg
- **Type CK 2-30 fire protection enclosure as small distribution board**

External dimensions in mm			Internal dimensions in mm		
H 414	W 414	D 218	H 300	W 300	D 150

Weight approx. 22 kg
- **Type CK 3-30 fire protection enclosure as small distribution board**

External dimensions in mm			Internal dimensions in mm		
H 514	W 514	D 218	H 400	W 400	D 150

Weight approx. 31 kg
- **Type (CK 30) fire protection enclosure as small distribution board special, custom**

External dimensions in mm			Internal dimensions in mm		
H ____	W ____	D ____	H ____	W ____	D ____

Weight approx. __ kg
- **Type CK 30 - SHW/SHD fire protection enclosure as small distribution board**

External dimensions in mm			Internal dimensions in mm		
H ____	W ____	D ____	H ____	W ____	D ____

Weight approx. __ kg

With standard cable entries

- e.g.: CK 2-30 / CK 3-30
on two sides: 3 x 40 mm Ø, 4 x 18 mm Ø, on one side: 1 x 40 mm Ø
- e.g.: CK 1-30
on two sides: 2 x 40 mm Ø, 4 x 18 mm Ø

Enclosure

- Lid with two to four tension locks (optionally lockable) or swivel lever (4-point locking system)
- Edge banding to protect the edge from impact
- Exterior color light grey, similar to RAL 7035 (custom color on request)
- Fireproof with all-round seal to prevent the leakage of smoke (three-stage protection function). First stage 68°C to 95°C smoke-inhibiting and fireproof. The second stage begins at approx. 300° C with complete endothermic sealing of the enclosure. From 180° C to 1000° C, the third stage begins to additionally foam the enclosure if necessary.
- Protection of escape and rescue routes against fire and smoke, from the inside out
- incl. wall mounting kit, consisting of European technically approved dowels,
- Tested with various built-in components and integrated cable bulkhead
- Cable entry with integrated heat accumulator, resulting in minimal heat entry into the enclosure via the cable entry

Material

- Basic fire protection panels non-combustible
- Coated fire protection panels meet the requirements of DIN EN 438-2, e.g. abrasion resistance, impact resistance, scratch resistance, etc. ...
- Multi-layer, patented wall construction made of non-combustible building materials, with endothermic middle layers to keep the temperature low even in the event of fire
- Surface: high-quality coated basic fire protection panels with high impact and shock resistance as well as chemical resistance
- The standard surface coating is ≤ 0.5 mm and therefore fulfills the instructions in the MVVTB that coatings up to 0.5 mm layer thickness do not affect the assessment of the building material class.

Test data required to assess the functional integrity according to MLAR (Example: series CK 2-30)

- Temperature increase of the air measured at 2/3 height: **max. 34 Kelvin** after 30 minutes

The assessment of whether the electrical installations to be installed remain functional must be performed on a project-specific basis, in accordance with MLAR.

Temperature and ventilation

- Patented ventilation system KLS to dissipate the heat loss
- Compliance with the temperature and humidity limit values in accordance with EN 61439-1 and EN 12101-10 in normal operation and in case of fire (mandatory)
- Cable entry with integrated heat accumulator, resulting in minimal heat entry into the enclosure via the cable entry
- Patented features include: Enclosure, ventilation systems and various additional options

Options

- Closure with swivel lever (4-point) → CK 30-SHW/SHD
- Closure for tension locks
- Special colors and special coatings
- Ventilation system KLS 40-60 for fire from the outside

Installation and assembly

- High-quality assembly instructions for easy assembly with enclosed documentation
- Incl. wall mounting kit M10 consisting of European technically approved dowels
- RAL quality mark certificate from Gütegemeinschaft Brandschutz im Ausbau e.V.

Product

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or equivalent.

If a different product is used, the approvals and calculations of the excess temperature including temperature curves must be submitted to the planning office. Equivalence is only given if the above requirements are met.

Service:

Delivery and ready-to-use assembly

Advantages of small distribution board (CK 30) - Fire Protection Enclosure 30 min

Maximum safety in the smallest space. Verification of continued functionality for, among other things, substations, terminals, fuses, and surge protection devices for emergency lighting, fire alarm systems, and voice alarm systems. This enclosure is a fire-retardant partition to protect safety-related installations and escape routes from the fire load

Due to the freely selectable surface, which can optionally be adapted to the existing architecture, the fire protection housing can also be used in representative areas.

On request, the system can be equipped with the required installations, e.g. fuses, clamps on top-hat rails, and simply screwed to the wall as a complete unit on site.
Thanks to the built-in "CKE" cable entries, no further fire protection measures are necessary.

Explanations:

Abbreviation	Description
MVVTB	Model administrative regulation
MLAR	Model piping system directive (Musterleitungsanlagenrichtlinie)
MPA	Materials testing institute