

Specification text: Battery case - Celsion Battery Case (CBC – 30 min)

Tested fire protection enclosure with a fire resistance duration of at least 30 minutes, with a fire load from outside and inside tested in the sense of F30 and I30 in accordance with DIN 4102, DIN EN 1363-1 resp. EN 1634-3, EN 13501-1 and EN 13501-2. Suitable for storing and charging of batteries (incl. lithium-ion batteries).

Tested fire protection enclosure, suitable for maintaining the functional integrity of installations for at least 30 minutes in the event of external fire exposure. Based on the general technical approval / general construction type approval Z-86.1-5 in the sense of I30 and Z-86.1-10 in the sense of E30 and F30, in accordance with MLAR 2015 points 5.2 and 3.2.

Fire protection enclosure type Celsion battery case (CBC 30)

- Suitable for functional integrity over 30 minutes
- With a tested fire resistance of 30 minutes
- With a tested fire load insulation of 30 minutes
- Protection class-tested enclosure
- Smoke testing in accordance with EN 1634-3
- Meets the requirements of the MLAR (model piping system directive)

Dimensions and technical data

- **Type CBC SMALL fire protection enclosure as wall-mounted enclosure, single-door**

External dimensions in mm			Internal dimensions in mm		
H 728	W 678	D 365	H 550	W 500	D 290

Weight approx. 80 kg
- **Type CBC SMALL fire protection enclosure as wall-mounted enclosure, single-door**

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

Weight approx. ____ kg
- Single-door: door hinge variable, standard: on the right; on customer request on the left, ex works at no extra cost.
- 1 x integrated Celsion cable entry in the right-hand side panel (type CKE E)
- Optional natural ventilation system KLS
- Optional cold smoke barrier KCLS
- Optional, permanently installed socket outlet with earthing contact
- Optional battery tray
- Optional reinforced floor
- **Type CBC BIG fire protection enclosure as floor-standing enclosure, double door**

External dimensions in mm			Internal dimensions in mm		
H 1778	W 1078	D 494	H 1600	W 900	D 400

Weight approx. 318 kg
- Double door with covered steel hinges:
 - Opening by 2x swivel lever (locking cylinder in swivel lever)
- with integrated natural ventilation system KLS Ø 80 mm
 - 1 x in the door and 1 x in the top of the enclosure
- 1 x integrated Celsion cable entry in the right-hand side panel (E)
- incl. 8-socket power strip (can be switched on/off) inside on the rear wall, pre-installed at the bottom right
- incl. single planked rear wall

Further information can be found at www.celsion.de

Printing errors and mistakes cannot be completely ruled out. In case of uncertainty, please contact us.

- incl. reinforced floor
- incl. 1x steel sheet tray
- incl. 3x perforated sheet metal shelves (max. load 100 kg per perforated shelf)
- Optionally with a base with leveling feet that can be driven under, tested in a fire test by an MPA

Enclosure

- Electrotechnical test, certificate no. 1170559: UI 400V, IP 54, IK06; indoor use
- Tested electrical distribution board in accordance with EN 61439-1 / protection class II
- Tested fire protection enclosure with test number from a state-approved MPA
- Lock with narrow edge banding to protect against impact loads on the edge, PA swivel lever and 2-point locking mechanism, flush-closing doors
- Swivel lever, material PA (can be retrofitted to locking system with DIN half cylinder).
- Enclosure can be locked at any time by simply pushing the swivel lever closed, no key required.
- Fireproof with all-round seal to prevent the leakage of smoke (three-stage protection function). First stage up 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.
- Tested with built-in components and integrated cable bulkhead
- Exterior color light grey, similar to RAL 7035 / Outer edges, handle and ventilation grid ultramarine blue, similar to RAL 5002
- F30 in the sense of E30 patented and tested KLS ventilation system, smoke-retardant, for dissipating heat loss

Material

- Basic fire protection panels non-flammable
- 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-flammable 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.
- Fireproof with all-round seal to prevent the leakage of smoke (three-stage protective function) from the inside to the outside in relation to escape and rescue routes

Temperature and ventilation

- Suitable for temperature limits from 10°C in accordance with EN 62208 under normal operating conditions
- Compliance with the humidity limit values in accordance with EN 62208 and the following parts in normal operation
- Cable entry with integrated heat accumulator, resulting in minimal heat entry into the enclosure via the cable entry
- Patented features include: Enclosure, cable entry and various additional options

Options

- F30 double planked special rear wall for free-standing installation in the room in compliance with the above points. Tested with test report and confirmation of fire resistance.
- Wall mounting kit M10x135 with European verification of fitness for use (floor mounting kit for CBC BIG differs for free-standing installation)

- Special colors and special coatings
- Additional ventilation to dissipate the power loss
- Duct connection piece for connecting to cable ducts
- Cold smoke barriers KCLS as built-in or retrofit variant to prevent smoke from leaking, even in smoldering fires
- Fire detector according to EN54-7
- Smoke detector slider system

Installation and assembly

- High-quality assembly instructions for easy installation and assembly with enclosed documentation for the respective fire protection enclosure
- Certificate RAL quality mark from the 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

Installation company certified according to GBA or equivalent

Explanations:

Abbreviation	Description
AbZ	General building authority approval / general technical approval
CKE	Celsion cable entry
KLS	Celsion ventilation system
GBA	Gütegemeinschaft Brandschutz im Ausbau e.V.
MLAR	Model piping system directive (Musterleitungsanlagenrichtlinie)
MPA	Materials testing institute