Specification text: Fire protection enclosure / fire protection partition (LWA 30)

Tested fire protection enclosure, suitable for functional integrity and fire load insulation with a fire resistance of at least 30 minutes, with a fire load from outside and inside tested in accordance with DIN 4102, EN 1363-1, EN 1364-1 resp. EN 1634-3, EN 13501-1 and EN 13501-2. Based on the general technical approval / general construction type approval Z-86.1-36 and Z-86.1-33 in accordance with MLAR 2005.

Fire protection enclosure / fire protection partition type (LWA)

- Suitable for functional integrity over 30 minutes
- With a tested fire resistance of 30 minutes EI_1 30 (o<->i) and EI_2 (o<->i)
- Protection class-tested in accordance with EN 60529
- Smoke testing in accordance with EN 1634-3

Dimensions and technical data

- **Type LWA 4.1 Fire protection enclosure / fire protection partition, single-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 868 W 518 D 68	H 710 W 360 D 10	-

Weight approx. 29 kg

- **Type LWA 4.2 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 868 W 768 D 68	H 710 W 610 D 10	-

Weight approx. 40 kg

- **Type LWA 5.1 Fire protection enclosure / fire protection partition, single-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1018 W 518 D 68	H 860 W 360 D 10	-

Weight approx. 33 kg

- **Type LWA 5.2 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1018 W 768 D 68	H 860 W 610 D 10	-

Weight approx. 46 kg

- **Type LWA 5.3 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1018 W 1018 D 68	H 860 W 860 D 10	-

Weight approx. 66 kg

- **Type LWA 6.1 Fire protection enclosure / fire protection partition, single-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1168 W 518 D 68	H 1010 W 360 D 10	-

Weight approx. 37 kg

- **Type LWA 6.2 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1168 W 768 D 68	H 1010 W 610 D 10	-

Weight approx. 53 kg

- **Type LWA 6.3 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1168 W 1018 D 68	H 1010 W 860 D 10	-

Weight approx. 68 kg

- **Type LWA 7.3 Fire protection enclosure / fire protection partition, double-door**

External dimensions in mm	Internal dimensions in mm	Space units
H 1318 W 1018 D 68	H 1160 W 860 D 10	-

Weight approx. 76 kg

- **Type LWA 7.4 Fire protection enclosure / fire protection partition, double-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 1318 W 1268 D 68 H 1160 W 1110 D 10 -
  Weight approx. 93 kg

- **Type LWA 8.3 Fire protection enclosure / fire protection partition, double-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 1468 W 1018 D 68 H 1310 W 860 D 10 -
  Weight approx. 84 kg

- **Typ LWA 12.1 Fire protection enclosure / fire protection partition, single-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 2087* W 518 D 68 H 1910 W 360 D 10 -
  Weight approx. 63 kg
  * in the design type "LWA 30" standing on the wall + 19 mm by doubling up

- **Type LWA 12.2 Fire protection enclosure / fire protection partition, double-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 2087* W 768 D 68 H 1910 W 610 D 10 -
  Weight approx. 90 kg
  * in the design type "LWA 30" standing on the wall + 19 mm by doubling up

- **Type LWA 12.3 Fire protection enclosure / fire protection partition, double-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 2087* W 1018 D 68 H 1910 W 680 D 10 -
  Weight approx. 97 kg
  * in the design type "LWA 30" standing on the wall + 19 mm by doubling up

- **Type LWA 12.4 Fire protection enclosure / fire protection partition, double-door**
  External dimensions in mm **Internal dimensions in mm** **Space units**
  H 2087* W 1268 D 68 H 1910 W 1110 D 10 -
  Weight approx. 143 kg
  * in the design type "LWA 30" standing on the wall + 19 mm by doubling up

- **Type Fire protection enclosure / fire protection partition (LWA), custom**
  Cover dimensions in mm
  External dimensions H / W / D: ____ x ___ x ___ mm
  Internal dimensions H / W / D: ____ x ___ x ___ mm
  Weight: depending on dimensions

- Door hinged on the right or left, or double door (design-related due to dimensional specifications)
- Protection class 2, enclosure with double insulation (with optional plastic caps for wall mounting)
- Protection class according to EN 62208 / EN 60529 classification IP 54
- Tested fire protection enclosure/fire protection partition with test number from a state-approved MPA

Enclosure

- Lock with narrow edge banding to protect against impact loads on the edge, swivel lever and 2-point locking mechanism, resting on the enclosure.
- Swivel lever, material PA (can be retrofitted to locking system with DIN half cylinder).
- 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
- 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.
- Exterior color light grey, similar to RAL 7035

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

Test data required to assess the functional integrity according to gem. MLAR 11.2005
(Example: Series LWA 30 460 x 410 x 60 mm external dimensions)

- Temperature increase of the air measured at 2/3 height: **max. 33 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 2005.

Options

- Tested ventilation system „KLS“, smoke-retardant, for dissipating heat loss (self-closing in the event of fire)
- Special colors and special coatings
- Additional ventilation with internal fan
- Duct connection piece for connecting to cable ducts
- Cable cut-out
- KCLS-N cold smoke barrier to prevent cold smoke from entering the necessary escape route

Installation and assembly

- High-quality assembly instructions for easy installation and assembly with enclosed documentation
- Incl. wall mounting kit, consisting of European technically approved wall plugs
- Certificate RAL quality mark from the Gütegemeinschaft Brandschutz im Ausbau e.V.

Product

Celsion Brandschutzsysteme GmbH
Dresdener Straße 51
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Phone: +49 3591 / 270 78 42
Email: sales@celsion.de
Web: www.celsion.de

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

Advantages fire protection enclosure / fire protection partition type LWA 30 min.

This fire protection enclosure / fire protection partition has been specially developed to separate existing electrical distribution boards, surface-mounted and flush-mounted, from the escape route in accordance with MLAR 3.2.2. This is achieved by simply screwing or slipping the LWA 30 over the existing distribution system and placing it on the existing fire-resistant wall.
At the same time, the fire protection enclosure also protects safety-related systems from fire and is suitable for functional integrity.

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

Explanations:

Abbreviation	**Description**
MLAR	Model piping system directive (Musterleitungsanlagenrichtlinie)
MPA	Materials testing institute
GBA	Gütegemeinschaft Brandschutz im Ausbau e.V.
MVVTB	Model administrative regulation