

# LACONT Battery concrete cabinet BBS

For the safe storage of lithium-ion batteries



Patent registered

## Technical description concrete body:

- Concrete cabinet made of pre-fabricated reinforced concrete parts with a fire resistance class F90
- Water impermeable concrete C 35/45 according to EN 206-1, XC4, XD1, XF1, XA1
- Visible sides smooth, all visible edges chamfered
- Roof pitch to rear wall with drip edge
- For forklift transport 2 x 220 x 100 mm entry opening for forklift forks

Fire load test  
BAM Berlin

FIRE RESISTANCE F90



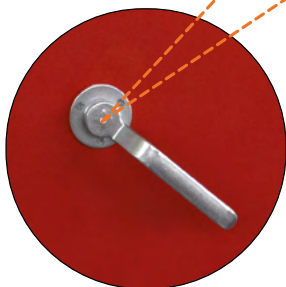
BBS,  
Article no. C62-2015-B,  
with optional exterior painting

## Design of sump pallet:

- Base sump pallet made from 3 mm galvanized sheet steel
- Liquid-tight welded according to WHG - **Ü-sign according to StawaR**
- Sump capacity 30 liter

## Pressure release:

- Ceiling plate with opening and pressure relief dome
- With gas management incl. fleece mat for filtering the harmful gases in case of accident



Wedge lever lock



Model	BBS
External dimensions W x D x H (mm)	1500 x 910 x 2314
Internal dimensions W x D x H (mm)	1100 x 630 x 1600
Adjustable storage levels	4
Dimensions per storage level W x D x H (mm)	1000 x 500 x 280
Max. load per storage level (kg)	100
Weight (kg)	2850
Article no.	C62-2015-B
Article no., exterior painting, white	C62-2016-B
Article no., additional grid shelf as storage level	C62-2017-B

## So that you are safe!

According to the ADR\*, lithium-ion batteries are classified as class 9 dangerous goods and are thus classified as particularly critical. Safe storage with regard to fire, smoke and explosion as well as fire-resistant separation from other areas is therefore essential.

\*Regulations for the transport of dangerous goods

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## T90-1 fire protection door BRM 1100 x 1600 mm:

- In accordance with the general technical approval of the DIBt Berlin
- Lockable
- With additional wedge lever lock
- Opening angle of door: 130°
- Galvanized and additionally painted

## Customer services:

- Requirements for the installation surface
  - A soil load of at least 26 kN/m<sup>2</sup> must be demonstrated
  - Floor accuracy according to DIN 18202, table 3, line 3
- Anchoring to the ground is not necessary, the BBS stands firmly on the ground by its own weight
- Connection of the earthing to existing foundation or depth earth electrodes



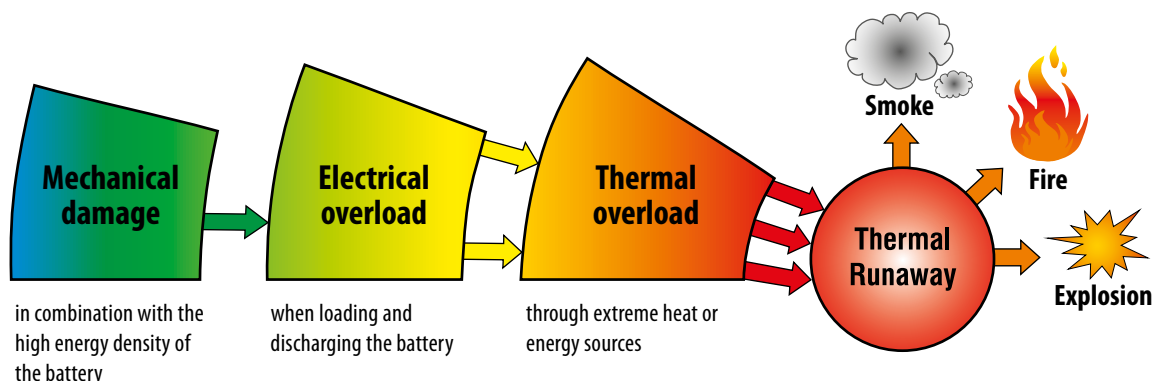
Concerning the real test of the storage cabinet guidance was made regarding standards of ADR:

- It was observed that the battery concrete cabinet has completely fulfilled its protection goals
- Temperature on the outside of the storage cabinet has never been exceeded at any time, i.e. temperature  $T = 100^{\circ}\text{C}$
- There was no flame failure. Furthermore, there was no leakage of solid parts referring to the storage cabinet indicated by detectors
- The review of HF-measurement revealed that there was no critical hydrogen fluoride concentration (pressure release with integrated gas management) indicated by detectors



Product video:  
Lithium-ions safety  
storage in LaCont  
Battery Concrete  
Cabinet BBS

## Hazards in handling with lithium-ion batteries ---> Thermal Runaway



**LaCont  
Umwelttechnik GmbH**  
Halberstädter Str. 20A  
39435 Egelin / GERMANY

Phone +49 39 268 / 98 96 - 0  
Fax +49 39 268 / 98 96 - 29  
E-Mail: info@lacont.de  
Web: www.lacont.de

