HARCOM®
FIRE RESISTING ENCLOSURES



Fire Resisting Life Safety HV Cable Enclosure

BS EN 1366-5:2021
BS 8519:2020

Manufactured with GREEN STEEL*

Harcom® HV enclosures have been rigorously tested in both horizontal & vertical positions to comply with BS EN 1366-5:2021 & the updated BS 8519:2020 standards.

Successfully meeting all criteria for integrity and insulation for 120 minutes, preventing a temperature increase of 140°C above ambient as an average or no more than 180°C at localised point.

A key feature of the latest 2020 BS 8519 standard – the use of T3 thermocouples on each face of the enclosure, positioned midway inside the furnace – was fully satisfied during testing.

The Harcom® Fire Resisting HV Enclosure has been additionally tested in accordance with BS EN 60529:1992+A2:2013, achieving IP5X dust protection and IPX6 protection against powerful water jets.

Designed for ease of installation, the enclosure is prefabricated in modular sections. Cables are secured to the lid section and connected to internal channels or on cable trays before the underside is attached, fully enclosing the cables.

This enclosure protects cables from external fires, preventing overheating and ensuring that critical life safety systems remain operational. This guarantees safe occupant evacuation and access for fire-fighting services.

Furthermore, in the event of a fire inside the enclosure, testing according to EN 1366-5 confirms that fire breakout into adjoining compartments is prevented.

For more information:

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*Enclosure casings are manufactured using de-carbonised steel. Offering a 65% Co2e material reduction.

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BS EN 1366-5:2021
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KEY FACTS:

PRODUCT TYPE/APPLICATION:
HV Cable Enclosure

DESCRIPTION:
BS EN 1366-5:2021 and BS 8519:2020 Fire Resisting HV cable enclosure for up to 120 minute integrity and insulation to the EN 1363-1 fire curve

TEST SIZE/DIMENSIONS:
Max. 1200x500mm

BUILDERS WORK OPENING:
Max. 100mm around enclosure

WEIGHT:
130kg/m (600x300x1000mm)
+ Max. 85kg/m services

FIRE CLASSIFICATIONS:
EI120 (Ve Ho o>i)
EI120 (Ve Ho i>o)

ADDITIONAL TESTING:
BS EN 60529:1992+A2:2013
IP5X (against foreign objects & dust)
IPX6 (against powerful water jets)

MATERIAL:
De-carbonised steel casing with internal fire resisting lining

CHEMICAL PROPERTIES/ SAFETY DATA SHEETS:
SIlcate-free plaster based lining.
MSDA available upon request.

SAFE MANUAL AND MECHANICAL HANDLING:

- Do not attempt to lift loads that exceed safe manual handling limits. When lifting, bend at the knees and keep back muscles relaxed.
- Avoid bending the back or twisting the body while lifting or carrying loads.
- Use suitable mechanical lifting equipment wherever possible, such as pallet trucks, hoists, skates, rollers, forklifts, or similar approved equipment.
- Ensure sufficient numbers of personnel are available for the task, including two-person lifts where required.
- Be aware of the risk of trapped fingers and feet. Appropriate personal protective equipment (PPE) shall be worn in accordance with site guidelines.

DELIVERY:

- A trained banksman is recommended during vehicle reversing and unloading operations.
- Segregation between vehicles and site operatives shall be maintained at all times.
- Delivery drivers must comply with all site-imposed speed limits and traffic management arrangements.
- Site operatives not directly involved in delivery or off-loading activities must be kept clear of delivery and reversing areas.
- Mechanical lifting equipment should be used wherever practicable, including tail lifts, forklifts, site cranes, and pallet trucks.

SAFE STORAGE:

- Enclosures shall be moved immediately to the work area or an agreed designated storage location.
- To achieve the required PDI Intermediate Level of cleanliness and minimise the risk of contamination, storage areas must be clean, dry, and protected from site dust in accordance with TR/19 guidance.
- Where necessary, storage provisions may include boarded flooring, pallets, and water-resistant protective coverings.
- Must be stored clear of standing water, dirt, and building materials, and shall be protected from rainfall at all times.

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INSTALLATION:

Safe Installation & Access:
Safe access routes to the work face shall be provided and maintained at all times. The work area must be kept clean, free from debris, and adequately ventilated and lit. Installation shall only be carried out by trained and competent operatives.

Interface with Other Products:
Refer to the relevant wall and service penetration details where applicable.

Competence Requirements:
Installation must be undertaken by operatives holding appropriate third-party accreditation, such as FIRAS training or certification to LPS 1531.

Inspection, Testing & Record Keeping:
Ongoing inspections shall be undertaken by FIRAS-trained supervisors. The system must be inspected and signed off prior to handover. System certification shall be issued upon completion of the works.

Sequencing of Works:
Installation sequencing shall be in accordance with project requirements and typically follows:

- Lid
- Services (by others)
- Underside

MAINTENANCE:

(IN ACCORDANCE WITH BS 9999:2017)

Harcom® systems may not maintain the required level of performance if they are not regularly inspected, tested, and maintained. Continued reliability of Harcom® systems is essential.

Harcom® systems may be compromised by subsequent works carried out by other trades. The later installation of services such as electrical and IT cabling, or building services pipework, can significantly affect the integrity of fire compartments. Works should not be signed off until Harcom® systems have been checked and confirmed as fully functional following such works.

Effective maintenance of Harcom® systems is equally important both internally and externally to the building. Any materials used for repair or modification must not impair the overall fire safety strategy.

WARRANTIES, GUARANTEES & INSURANCE:

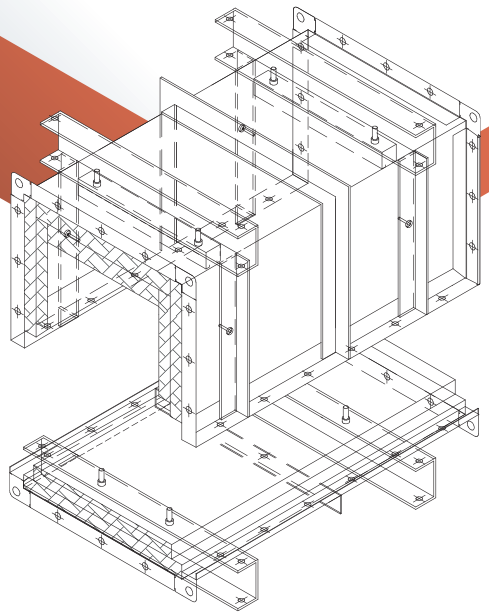
Unauthorised modification to the Harcom® system, including alterations to penetration seals, will invalidate the certificate of conformity.

INSPECTION & MAINTENANCE SCHEDULE:

Harcom® recommends that the system is inspected by a competent person:

- Following any works carried out in the vicinity by others
- As a minimum, on an annual basis

Any damage identified should be reported to the original installer so that an assessment can be undertaken and remedial works carried out where necessary.



CLEANING REQUIREMENTS:

To maintain cleanliness, the Harcom® system should be cleaned using a vacuum cleaner fitted with a soft brush attachment.

Do not use:

- Wire brushes
- Chemical cleaners
- High-pressure steam or water jetting systems

MODIFICATIONS:

Any modifications to the Harcom® system must be carried out by an approved installer only.

RECORD KEEPING:

All inspections, maintenance activities, and any changes to the Harcom® system shall be recorded and retained by the project's Responsible Person.

DISPOSAL:

End of life information:
Life of building (50 years*).

Recycling:
Internal lining board can be removed by mechanical means. Not recyclable - not incinerable. Storage in class III landfill or according to local regulations that may apply. Do not store as a mixture with organic waste. The enclosure casings recyclable, always follow local authority guidelines.

Packaging:
Delivered on wooden pallets which can be reused, incinerated or recycled. Always follow local authority guidelines.

* Based on internal installation in a dry and non-humid environment.

The information contained within this document is provided in good faith and is believed to be accurate at the time of publication. All data and performance values are typical unless otherwise stated and are subject to change without notice as part of Harcom® Group Ltd's ongoing product development programme.

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