

SECURED BY DESIGN HOMES 2019

Extracts relating to GERDA access control box (ACB)

27.27 In the event of a power failure door locks shall revert to a safe (unlocked) mode unless there is a fire evacuation policy in place that requires doors to remain locked, such as that operated within some care homes.

Security compartmentation of developments incorporating 25 or more flats, apartments, bedsits or bedrooms

27.33 It is imperative that the fire service should have unrestricted access to all floors in the event of an emergency so the internal access control system utilised should incorporate the following features:

27.33.1 Where unlawful free internal movement is restricted via the lift then the fire service must be afforded access via a firefighter's mode' or an evacuation lift in 'evacuation mode'.

27.33.2 If unlawful free internal movement has been restricted via an access control system acting on dedicated external doorsets and any additional doorsets providing access to individual floors/ landings then an electronic release must be incorporated within the system to allow the fire service free access to all of the communal areas of the building. The electronic release system must be weatherproof, easily identifiable and located close to the entrance that Fire and Rescue Teams would use in the event of an emergency. It has been agreed between the police and fire and rescue services that the most practical means of achieving this aim is to install a switch within an Access Control Box (ACB). The key system for the ACB should be of a restricted type acceptable to the local fire and rescue service. An ACB must be secure for obvious reasons and therefore shall be tested and certificated to one of the following standards:

- LPS 1175 Issue 7.2:2014 Security Rating 2; or
- LPS 1175 Issue 8:2018 Security Rating A3+; or
- STS 205 Issue 1:2011 Burglary Rating 2.

27.33.3 The use of an ACB is in addition to the installation of a Premises Information Box (PIB), which are recommended by the fire and rescue service and are referenced within clauses of BS 9991:2015. The ACB should be clearly marked with a photoluminescent identification sign in the same way as the PIB. The exact location of an ACB should be specified during consultation with the local Fire and Rescue Service.



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T12030

EXTERNAL TO MAIN ENTRANCE



GERDA BOX WITH
OVERRIDE SWITCH

Supplied and installed
BY OTHERS including
connection to override
switch inside Gerda box

INTERNAL

RISER

GROUND FLOOR

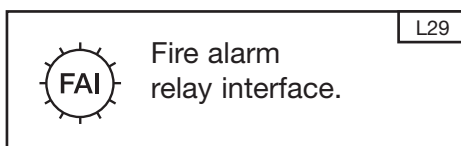
NACD
CABINET

V

FAI

NACD configure so that on activation of FAI, all access controlled doors (or as instructed) fail unlocked (safe). All doors must be equipped with fail safe locking devices only.

Supplied and installed
BY OTHERS



V FP200 (BS5839-1 / Class 1 CU compliant)
1mm²/core cable, 3-core
+ 1-core Earth.
(Red sheaf, brown, grey, black + green/yellow cores)

GERDA ACB Dimensions: 346mmH x 346mmW x 120mmD (more info on page 5).

ACB for Access Control Protection

High Security Grade



The Access Control Box (ACB) is designed to protect the switch for access control on new build residential buildings and buildings where there has been major refurbishment taking place. This is to facilitate Fire & Rescue Service access.

It is a requirement of Secured by Design which is referenced in 'Secured by Design Homes 2016'. Under section 27.10, Fire Service Access, the need to provide free internal movement is explained: "If unlawful free internal movement has been restricted via an access control system acting on dedicated external doorsets and any additional doorsets providing access to individual floors/landings then an electronic release must be incorporated within the system to allow the fire service free access to all of the communal areas of the building."



The ACB which protects the access control switch is accessed by the Fire & Rescue Service through the Gerda One Key® System. Once the switch is deactivated, access can be gained to the communal areas secured by electronic or electrical means.

- The Fire & Rescue Service will retrieve their key upon departure.
- It is the responsibility of the building owner/manager/designated ACB contact to reinstate the power. Care must be taken to ensure that the door is not closed prior to re-activation.
- Once the power is reinstated the door which operates on a spring mechanism, can be closed to without the need of a key. There are no keys supplied with the ACB.

Specification

- The ACB is designed to protect the access control switch for use by the Fire & Rescue Service in the event of an incident.
- Designed to be positioned externally to a building as well as internal siting
- The ACB is constructed from a range of steel materials, including hardened steel.
- The finish is powder coated RAL 9006 (silver)
- Fire & Rescue Service sign to front of ACB door for fast recognition. This signage is photo-luminescent grade to PSPA class C for identification in smoke filled situations.
- The door handle is attached to the right side of the door, vertically centred and is designed to detach if undue force is applied.
- The locking system contains a spring mechanism so the door will open straightaway – with or without a handle.
- The ACB is designed to counter condensation build up – an aspect of climate conditions in the UK.



Photo-luminescent signage

Security

- Designed and tested to STS 205 issue 3 (2011) for Burglary Resistance. Level II.
- Third party certified and Secured by Design accredited.
- The lock cylinder, tested to EN1303:2005, achieves best grades in all categories and is approved by Secured by Design, which is the police preferred specification.
- Manufactured in accordance with ISO9001.

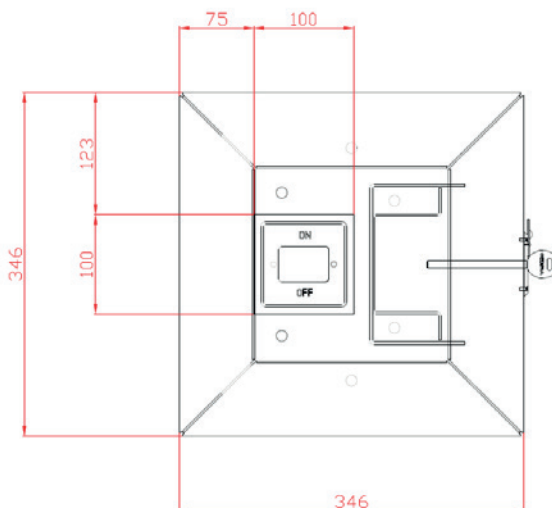
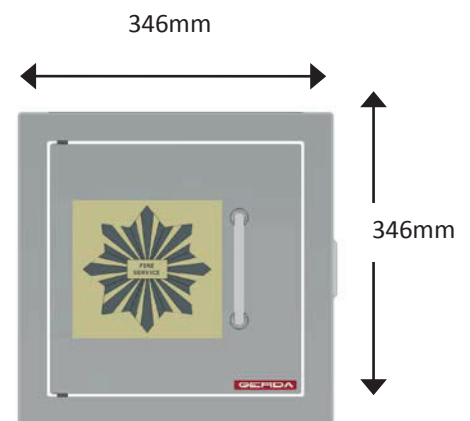
Features

- The lock is designed to be operated by the Fire & Rescue Service One Key[®] System
- Independent 2-point locking mechanism (top and bottom)
- Patented integral cylinder

- Features of the lock include an anti-snap and anti-drill cylinder that uses the Hard Soft System, being formed of several composites of metal. The engineering of the box is such that the cylinder cannot be extracted
- The lock is positioned on the right side of the box in order to avoid the attention of vandals and to restrict manoeuvring room in the event of an attack
- The lock is accessed by the Fire & Rescue Service through their unique multi-dimensional Gerda key[®]. The key hole is located on the right hand side of the ACB.
- The key hole is protected with a lock cover to prevent debris entering the lock.
- The ACB box is designed for corrosion standard EN1670 grade 3.
- Each ACB contains its own hologram for identification.

Dimensions

- The external size of the ACB is 346 mm x 346 mm x 120 mm deep.
- The depth of the ACB with handle is 163mm.
- The ACB is designed to cover a standard access control switch designated to be 100mm x 100mm back box with a depth of 40mm.
(A depth of up to 85mm can be accommodated for a switch)



Installation

- Standard fixings for brick wall substrate and template for affixing are provided together with installation instructions.

Liaison with Fire & Rescue Service

- The designated Fire & Rescue Service department are notified of the location of the ACB.