

High Security Emergency Rescue Hardware

REL.1461TB 'Breakout' - Overhead Door Closer

Basic Principles

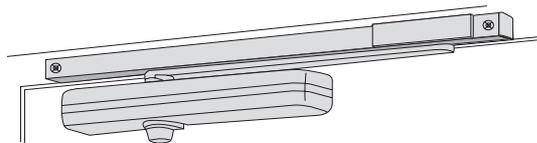
In some high security situations such as young offenders' institutions it can be necessary to 'upgrade' the security level of doors to ensure that rooms remain secure at all times but also offer safe and immediate release when necessary.

Application

A typical scenario may involve a series of bedroom doors in a secure unit, each opening off a corridor. Ideally, doors would open out into the corridor (away from the bedrooms) ensuring occupants were unable to barricade themselves in the room. Unfortunately, in most cases, room and corridor design dictates otherwise since doors opening regularly into corridors would cause a hazard to passing traffic. Consequently doors must open into the room and be available for fast emergency release from the corridor side by authorized personnel.

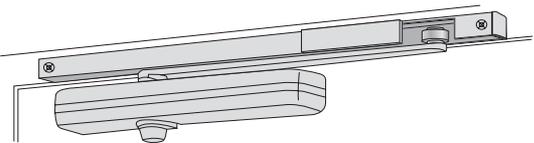
The closer is one part of a three part solution to this requirement that can be used as a whole or in part, dependent upon the specific requirements of the system.

Since most bedroom doors in this type of environment are fire doors an overhead closer is a prerequisite. The **REL.1461TB** is a fire rated track arm closer and is fixed to the door's top rail on the corridor side (out of harm's way) allowing the door to open out into the corridor when necessary.



Operation

The key feature of this solution is the 'break-out' track; comprising a slider system allowing the nylon arm roller to 'pop out' of the track (when the emergency stop is released) and the door to open in the opposite direction, i.e. away from any obstacle. The slider is normally secured in place using a hex-pin screw fixing – an appropriate tool is provided.



It is essential that the door and frame detail is known prior to final specification since the vertical layout of this closer is critical. This product is handed LH or RH and is the same hand as the door during the door's normal operation.

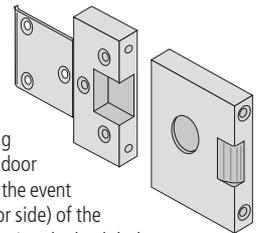
UK Fire Certification in accordance with EN 1634-1:2000 (timber)
WFRC No. 142058 **120 mins.**
BS EN 1154:1997.

REL.1462B 'Breakout' - Strike Box

Where rooms are secured using conventional locks, i.e. locks without a privacy function override, it is always necessary to provide fast and effective release from the 'corridor' side. Similarly, where a privacy function override is installed, pressure applied to a door from the inside may not allow external retraction of the latch bolt in the normal manner.

Operation

Where either of the above scenarios is a possibility then a two piece strike plate or 'keep' can be introduced. Fabricated usually from aluminium - allowing the latch bolt to engage normally when the door is set for single action operation. However, in the event of an emergency the outermost part (corridor side) of the strike is removed, via two security screws, freeing the latch bolt and allowing the door to open away from the obstacle.

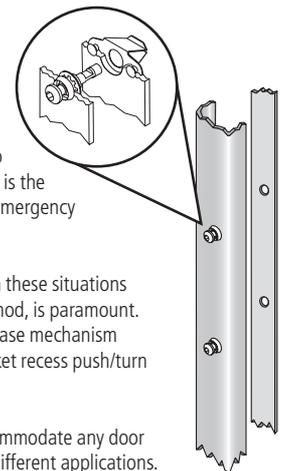


REL.1463B 'Breakout' - Full Height Continuous Emergency Stop

In high security situations the level of security offered by the conventional **REL.ES-1** stop is sometimes insufficient to keep occupants in their rooms. Where this is the case then a more substantial 'full height' emergency stop is required.

It should be borne in mind however that in these situations quick release of the stop, via a secure method, is paramount. The **REL.1463.B** incorporates a quick release mechanism requiring a special tool to operate the socket recess push/turn fasteners.

Full height stops can be fabricated to accommodate any door height and can be designed to suit many different applications.



How to Specify or Order

Part #	Description
REL.1461TB	'Breakout' Overhead Door Closer
REL.1462B	'Breakout' Strike Box
REL.1463B	'Breakout' Full Height Cont. Emergency Stop

Finishes

US28 - Powder Coated Silver (**REL.1461TB** only)
MILL - Mill Finish Aluminium (**REL.1462B** only)
USP - Steel Primed for Painting (**REL.1463B** only)