

ES8000 V-Lock

General Information

The ES8000, also known as the V-lock is a high torque motorised bolt that moves from the vertical position to the horizontal state when locked. The bolt moves into the V shaped strike plate pulling the door aligned with the lock. The high torque motorised bolt can be concealed from view or surface mounted and has the worlds first fail-open motor locking mechanism.

Slim design with classic satin stainless steel faceplate, and significant 7mm overall (+/- 3.5mm) door misalignment tolerance make ES8000 a product with great aesthetic appearance as well as easy installation.

Features

- SIDE LOAD - PRE LOAD Capable
Lock will unlock with up to 15kg of side pressure, when wired in 3 wire mode.
(1 x Permanent Power, (positive 12-24Vdc) wire. Negative (0 volt return) wire, and 1 x Switching input (positive 12-24Vdc) wire
- Door misalignment of up to 3.5mm +/-
- Power to Lock (Fail Safe) / Power to Open (Fail Secure) field configurable
- HIGH TORQUE Motorised locking and unlocking (3 wire mode)
- High Speed Operation. Unlocks in less than 1 second
- Surface Mount Accessory Kit. Ideal for 180° swing through glass door applications
- Multiple Orientation – Interior Doors
Can be mounted vertically or horizontally
(For exterior doors due to possible water ingress the ES8000 must be mounted horizontally)

Applications

- Misaligned doors
- Timber doors
- Glass doors



Standards and Compliance

SCEC Endorsed (Intruder Resistant Bracket Required)

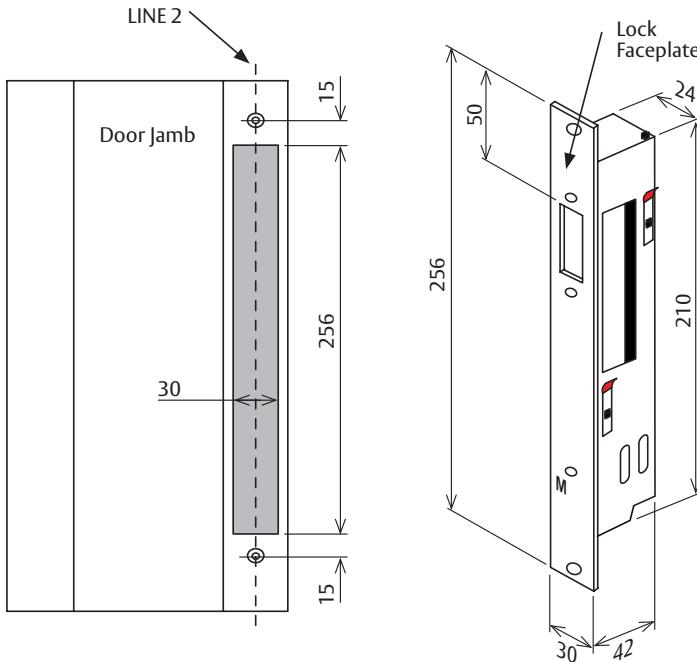


Successfully fire rated up to 4hrs on fire door assemblies in accordance with AS1905.1. 2005 (Part 1: Fire resistant door sets).



CE Approved

ES8000 V-Lock



Wiring below shows lock in locked position

Power To Lock (PTL) Wiring Connections

BLACK	- 0 volts d.c.	DC Power
BLUE	- Access Control (PTL)	
RED	- Positive Continuous Supply	
PURPLE	- (COM)	Bolt Position Monitor
WHITE	- (NO)	
ORANGE	- (NC)	

Power To Open (PTO) Wiring Connections

BLACK	- 0 volts d.c.	DC Power
BLUE	- Access Control (PTO)	
RED	- Positive Continuous Supply	
PURPLE	- (COM)	Bolt Position Monitor
WHITE	- (NO)	
ORANGE	- (NC)	

Power To Lock 2 Wire Control (NOT RECOMMENDED)

BLACK	- 0 volts d.c.	DC Power
BLUE		
RED		
PURPLE	- (COM)	Bolt Position Monitor
WHITE	- (NO)	
ORANGE	- (NC)	

ES8000 V-Lock Technical Information

Voltage	12 to 24Vdc, Voltage Tolerance 12V (+15% - 0%) 24V (+/- 15%)
Current	Minimum 1 Amp Regulated Supply
Monitoring	COM, NO, NC Voltage free changeover contacts rated at 48 dc/100mA
Security	Passed S3 (AS4145.2 -1993)
Strength	Maximum 1000kg (with supported strike plate)
Side Load	Side Load rated: Motorised Unlocking – 15kg max at bolt Fail Safe Unlocking – 3kg max at bolt
Endurance	300,000 operations
Environment	Operational temperature range -20°C to + 60°C
Lock Body	Stainless Steel Lock Body and Faceplate
Bolt	11mm diameter, 20.5mm projection

Specification Statement

The lock must be a high torque motorised bolt with Preload tolerance. The strike plate must be shaped in a V format to accommodate for misaligned doors. Lock will unlock with up to 15kg of side pressure and will be powered with 12-24v and draw no more than 1000mA. The lock must be configurable for Power to Lock (Fail Safe) or Power to Open (Fail Secure). The lock must be triggered with a magnet positioned in strike plate, and be monitored for locked unlocked and door position.

Ordering Information

Product Description	Part Number
ES8001 V-Lock 12-24vdc Fail Safe 30mm F/P	118001-010
ES8002 V-Lock 12-24vdc Fail Secure 30mm F/P	118002-010
ES8001 V-Lock 12-24vdc Fail Safe 30mm F/P - Scec Endorsed	118001-100
ES8002 V-Lock 12-24vdc Fail Secure 30mm F/P - Scec Endorsed	118002-100
Accessories	
ES8000 V-Lock Glass door housing (Incl dress plate & fixing tape)	218000-000
ES8000 V-Lock strike plate with magnet (spare part)	218000-003

ES8000 Glass Door Bracket

General Description

The ES8000 glass door bracket is the ideal solution when it comes to 180° swing through doors or double action glass doors. Until now we had to rely on other products for these applications. This bracket works in conjunction with the ES8000, and is not limited to glass thickness. As we know there are many factors that cause side load/pressure, the ES8000 resolves this problem and still offer a secure and reliable locking solution that is aesthetically appealing for glass doors.

The ES8000 Glass door bracket is fixed to the glass by means of 3M self adhesive tape. This type of fixing gives a great aesthetic appearance as well as easy installation.

Note: Two brackets are required if there is a glass header, also it's important to note that the bracket/s should always be installed at the secure side of the door.

NOTES ON THE 3M SELF ADHESIVE TAPE

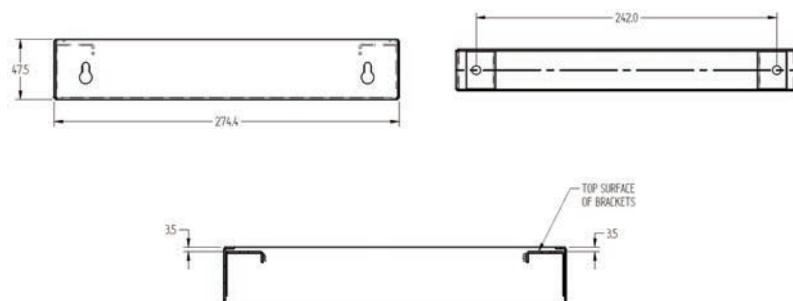
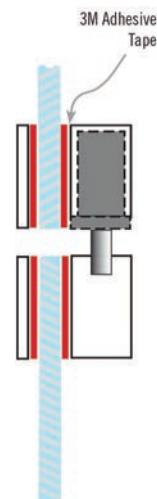
As per the 3M published data and given the surface area of the V-Lock glass door housing (around 20 sqin), this equates to around 900kg holding force under laboratory conditions. The actual shatter point of glass varies from door to door depending on the condition of the glass, (scratches, chips etc). But any attempt to leverage a glass door beyond 500kg will more than likely shatter it.

Features

- Self adhesive holding force 900kg
- Includes dress plate for opposite side of door

Applications

- Frameless glass doors with Solid header frame
- Frameless glass doors with frameless glass header (two brackets required)
- 90° and 180° single and double swing glass doors
- Other surface applications for timber doors.



Ordering Information

Product Description	Part Number
ES8000 V-Lock Glass door Housing (incl Dress plate and 3M fixing tape)	218000-000

Don't Compromise.



ES8000 V-Lock
with Strike Plate

The ES8000 V-Lock is a high torque motorised bolt which unlocks in less than one second.

In addition to the overall misalignment tolerance of 7mm, the V-Lock makes an ideal solution for both single and 180° double action doors, owing to its slim design, rigid construction and an impressive aesthetic appearance.

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