

# ES8100 V-Lock

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The unique and popular Trimec ES8000 V-Lock has been upgraded to produce the new ASSA ABLOY ES8100 V-Lock.

Designed and assembled in Australia, with patents pending in various countries, the ES8100 incorporates many improvements over its predecessor, the ES8000, including a higher side load rating of 100kg, Door Position Monitoring, integrated LED lock status and diagnostics visual indication, increased door misalignment correction from 7mm to 12mm, an IP53 rating for external door applications and simple, one-step, PTO/PTL onsite configuration.

Although completely redesigned internally, the new ES8100 V-Lock body and faceplate retains the original footprint and is a direct retrofit to the original ES8000 model. The ES8100 strike plate utilises the same fixing locations but is 3mm wider to increase misalignment distance.

The ES8100, also known as the V-lock, contains a high torque motorised bolt which moves into a V shaped Strike Plate, pulling the door into alignment, when locked. The ES8100 may be mounted either vertically or horizontally but cannot be mounted in the floor.

The ES8100 V-Lock can be mortice mounted and concealed from view or surface mounted, with the inclusion of an optional kit. A slim design with classic satin stainless steel faceplate, makes the ES8100 a product with great aesthetic appearance and easy installation.



## Key features:

- Unlocks under a Pre-Load of up to 100kg in 3-wire mode, 15kg in 2-wire mode
- Locks under a Pre-Load of 20kg (12W) and 35kg (24W)
- 1000kg Holding Force
- IP53 rated for external door applications
- Door Position and Lock Status Monitoring
- On-Board visual Lock Status indication and diagnostics LED
- Easy, one-step, Fail Safe (PTL) and Fail Secure (PTO) field selection
- Optional Surface / Glass mount Kit
- May be mounted vertically or horizontally (must not be mounted in the floor)
- Allows for door misalignment of up to 12mm total (+/-6mm)
- Operating voltage: 11.4 - 26VDC
- Durability tested to 500,000 cycles (120N unlocking, 50N locking)

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## Applications

- Single and double swing hinge doors
- Doors subject to side load (pre-load)
- Misaligned doors
- Glass doors
- Suitable for use with access control, intercom, keypad and card reader systems and doors requiring door position monitoring

<b>Voltage</b>	11.4 - 26VDC
<b>Current</b>	Peak current: 1000mA, Idle current: 35mA @ 12VDC with LED activated
<b>Unlocking pre-Load</b>	Side load rated: Motorised unlocking - 100kg max at the bolt
<b>Strength</b>	Maximum 1000kg
<b>Monitoring</b>	Lock status monitoring: NO/NC, Door position monitoring: NC
<b>Unlocking time</b>	1 second under side load
<b>Locking time</b>	3 seconds
<b>Environment</b>	Weather resistant construction to IP53
<b>Operating temperature</b>	-10 to +60 degrees celsius
<b>Endurance</b>	500,000 operations (120N unlocking, 50N locking)
<b>Dimensions</b>	Body: 210L x 24W x 42D (mm), Faceplate: 256L x 30W (mm), Strike plate: 256L x 30W (mm)
<b>Construction</b>	Stainless steel lock body, Face plate and strike plate

## Retrofit strike plate technical information

ES8100 with various strike plates		
	ES8100 as supplied (using 208100-003)	Retrofit strike plate (208100-004)
Operating voltage	11,4 - 26DVC	
Current	Peak 1000mA, standby 35mA @ 12V	
Unlocking side load (3 wire)	100kg	
Unlocking side load (2 wire)	15kg	10kg
Locking side load	20kg (12W)	10kg (12W)
Door misalignment correction	12mm (+-6mm)	7mm (+-3.5mm)
Operational door gap	8mm	8mm
Door position sensor door gap	8mm	5mm
Strike plate width	30mm	27mm

## Specification statement

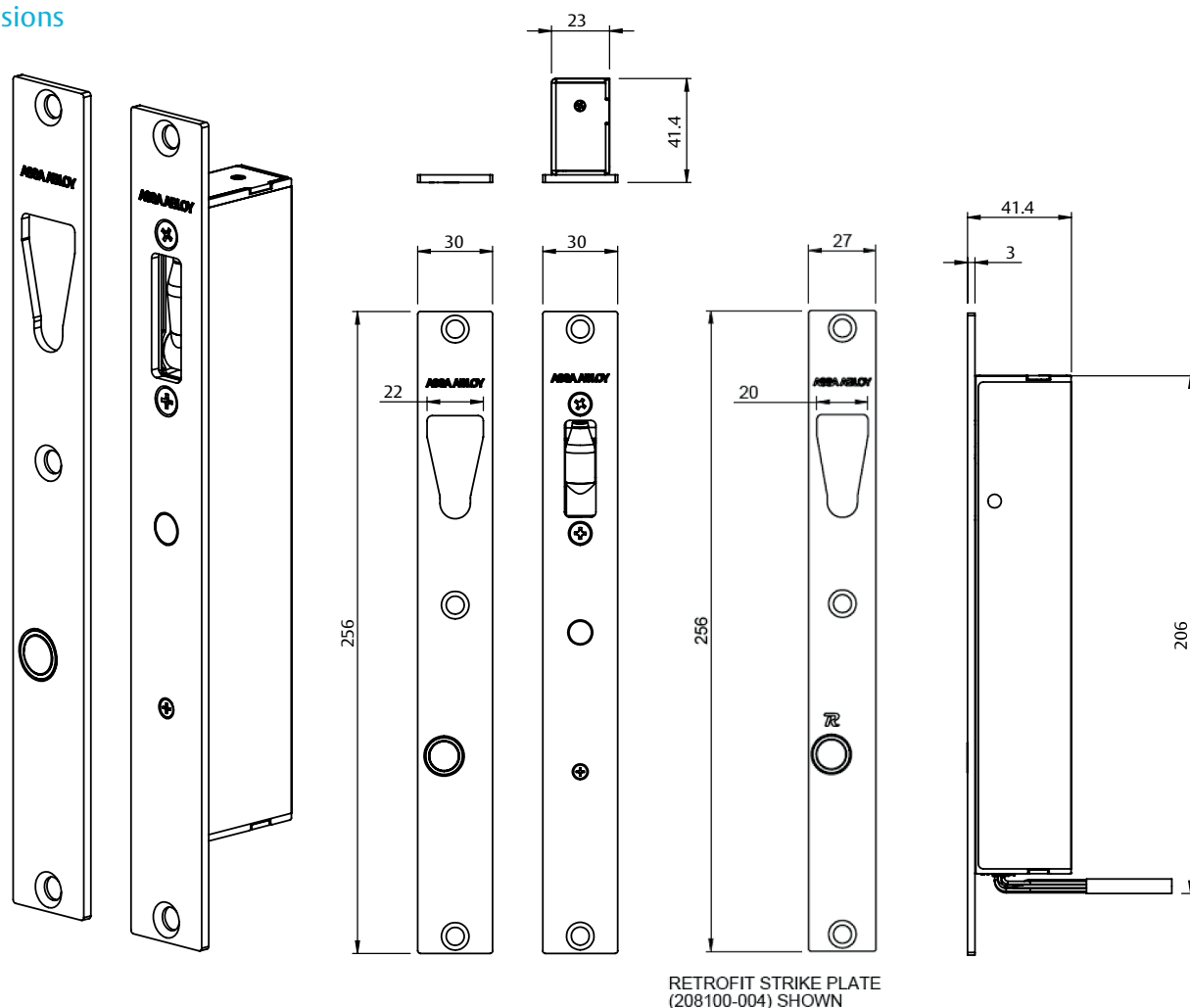
The lock must be a high torque motorised bolt with pre-load tolerance, capable of unlocking with up to 100kg of side pressure (Pre-Load) and Locking up to 35kg Pre-Load. The lock must have a minimum IP Rating of IP53, include integrated lock status and diagnostics LED indication, lock status and door position monitoring and be site configurable for Fail Safe (PTL) or Fail Secure (PTO) operation. The lock shall accept an operating voltage between 11.4 to 26VDC and draw no more than 1000mA during change of state and 35mA when idle.

The strike plate must be shaped in a V format to accommodate up to 12mm (total) for misaligned doors. The lock must be triggered with a magnet positioned in the strike plate and be monitored for locked, unlocked and door position.

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## Dimensions



## Standards and Compliance



- EN 14846:2008
- Timber doors - FD30 & FD60
- IP53 Rating

## Ordering

Part number	Product description
<b>ES8100</b>	ASSA ABLOY ES8100 V-Lock, 11,4-26VDC, fail safe, full monitoring
<b>208000-000</b>	ES8100 V-Lock glass door housing (includes dress plate and fixing tape)
<b>208100-003</b>	ES8100 V-Lock strike plate with magnet standard replacement
<b>208100-004</b>	ES8100 V-Lock strike plate for ES8000 to ES8100 retrofit
<b>208100-010</b>	ES8100 V-Lock connection lead