

Stirling single-point locks for all your safety and security needs

A range of locks built for reliability and high cycle usage

Stirling devices enable you to choose a lock that:

- Provides security against planned forced entry.
- Ensures a 'Duty of Care' conformance that you need for both security and safety.
- Can enforce an entry/exit procedure and observe your final door status requirement.

Stirling Locks are

- Surface mounted for maximum door strength.
- Tested to over one million cycles.
- Easy to specify (refer to the ordering information at the end of the section).

Performance

Security	Successfully tested on LPS 1175 Security rating 2 and 3 doorsets
Fire	Successfully tested on BS 476 part 22:1987 doorsets
Blast	Successfully tested on doorsets to HM Government's bomb blast standard for 'People in Protected Spaces'; rating 'C25'
Panic Exit	Independently type tested to BS EN 1125: 2008, CE marked
Emergency Exit	Independently type tested to BS EN 179: 2008, CE marked



Stirling: Panic and Emergency exits

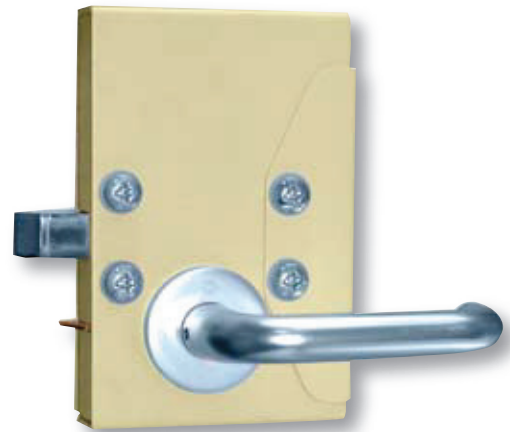
High performance, safe exit devices

Stirling bolting devices are:

- Strong
- Simple to specify
- Tested to over one million cycles
- Attractively finished

Stirling bolting only devices have:

- Automatic bolting upon door closure
- Proven rack and pinion mechanism
- Hardened steel bolts
- Choice of exit methods



Modular system

The Stirling range has been designed with a common fixing footprint, enabling alternative modules to be retrofitted to meet changes of customer requirements.

Performance

Security Successfully tested on LPS 1175 Security Rating 2, 3 and 4 doorsets

Fire Successfully tested on BS 476 part 22:1987

Panic Exit Independently type tested to BS EN 1125: 2008, CE marked

Emergency Exit Independently type tested to BS EN 179: 2008, CE marked

Operation

Stirling safe exits provide auto-latching upon door closure. A panic bar is required for buildings used by general public. Alternatively there is a choice of emergency exit by means of lever handle or push pad.

Fitting

Supplied for surface fitting, ensuring the fabric strength of the door is maintained.

Stirling Features

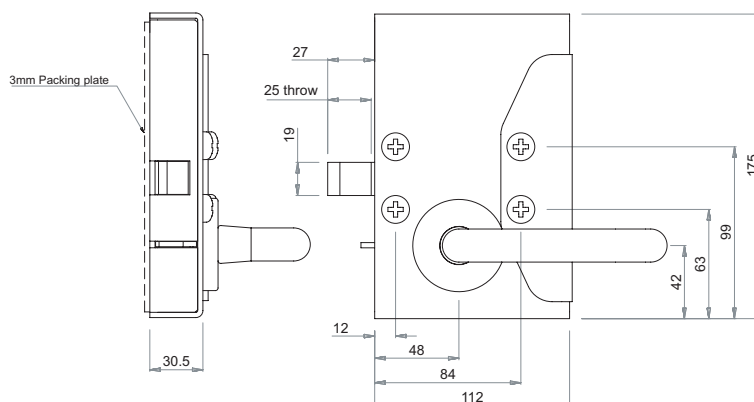
- 19mm square bolt with 25mm throw
- Positive latching engagement
- Steel template provides accurate and rapid installation

Stirling Benefits

- High performance
- Modular design
- Reliable, offering long trouble free life
- Choice of entry and exit methods
- Upgrade solution for existing doors



Steel template guide



Stirling 'ST105' emergency exit centre module dimensions (mm)

Self-coding system

Stirling (ST) modular devices have a simple ordering code that covers the chosen methods of entry and exit, followed by additional enhancements to further customise the device. Stirling devices are suitable for fitting to almost any door.

The device is easy to specify:

- Step 1. ▶ The number of bolts securing is predetermined for the Stirling range (1)
- Step 2. ▶ Apply entry code 0 (safe exit door)*
- Step 3. ▶ Choose the required exit code 4 (panic) or 5 (emergency)
- Step 4. ▶ Select any enhancements to customise and suit specific requirements

Handing and opening direction is required when ordering Stirling locks, please refer to the Surelock McGill handing chart for the correct two digit coding.

That's it! The device is specified.

* Panic and emergency exit devices have a '0' entry code, these can be supplied with an external key and/or handle entry, refer to the enhancement codes for the appropriate application.

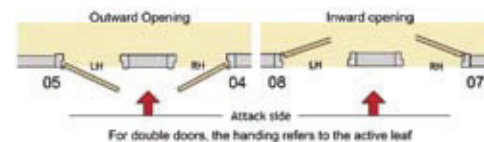
Four steps to Stirling

Step 1	Step 2	Step 3	Step 4
Number of bolts 1 1-point securing	Entry 0 No entry provision <i>Note: If key entry is required on bolting-only devices refer to 'Enhancements' code 'L'</i>	Exit 4 Panic exit 5 Emergency exit	Enhancements Customise to suit specific requirements (eg. as example system code shown below) K¹⁰ External key entry W Steel core fixing

Example system code: ST 1 0 5 - 04 - K¹⁰ W

The above code ST105-04-K¹⁰W specifies a Stirling single-point, lever handle emergency exit device. The enhancement codes K¹⁰ specifies external key entry, no external handle required and 'W' for steel core fixing.

Note: The code "04" specifies righthand outward opening.



Stirling enhancements

The Stirling range is supported with a full range of enhancements enabling a device to be tailored to meet the most demanding requirements. Devices are supplied for surface mounting and latching upon door closure.

Refer to the Stirling 'Enhancement Guide' for full information on available enhancements.

A selection of frame keeps is available to suit most applications, refer to 'Stirling Keeps and Strikes' for details.

Popular Enhancements

The following is a summary of the more popular enhancements chosen for Stirling safe exit devices; refer to the full enhancement chart for the full choice and details of enhancements available.

CODE	DESCRIPTION
H	External lever handle addition
H ³	Push pad; in place of inside handle; BS EN 179: 2008
K ²	External key/handle access (protected profile style cylinder – (Union as standard) and resistance to bolt end-thrust attack (option Q4)
K ¹⁰	External key access; no handle required; rim latch style cylinder – (Union as standard)
M	Electric monitoring of bolt status
O ⁰	Customer supplied cylinder
O ¹	Cylinder - Kaba-20 (registered)
O ²	Cylinder - Assa Twin 5800
O ⁵	Cylinder - Medeco m ³ -ARX (registered)
O ⁹	Cylinder - Abloy Disklock (registered, gold level)
Q ⁴	Anti-thrust resistance (seven times BS 3621)
W	Steel core fixing with machine screws
W ²	Surface fixing by coach screws
W ³	Surface fixing by machine screws

A Surelock McGill 'Safe Exit' specific brochure is available, upon request.



Quality statement

Our continued commitment to product excellence and accreditation to ISO 9001:2000 throughout the group ensures unequalled customer satisfaction and is our 'Seal of Excellence'.

Intellectual Property Rights

All Surelock products are the subject of intellectual property rights. These rights include patent and design rights, in particular UK patents 2289084, 2307270, 2321277, 2323272, 2330375, 2346927, 2351542, 2355282, 2359111, 2361959, 2364740, 2413822, 2423787, 2425325, 2462229 & 2462387, plus UK patent applications 2445948 & 2458893 together with overseas patents and applications.

In accordance with our policy of continual development and improvement we reserve the right to make changes in design and specifications without notice.



'Stirling' Bolting Devices - Enhancements available

CODE	Entry/Exit Codes		Description
	104	105	
H	✓	✓	External lever handle addition
H ³	✓	✓	Push pad; in place of inside handle; BS EN 179: 2008
H ⁶	✓	✓	Panic bar; in place of inside handle; BS EN 1125: 2008
K ²	✓	✓	External key/handle access (protected profile style cylinder – Union as standard) and resistance to bolt end-thrust attack (option 'Q ⁴ ')
K ¹⁰		✓	External Key access; no handle required; rim-latch style cylinder – (Union as standard)
K ¹³	✓	✓	External key/handle access (rim-latch style cylinder – Union as standard) and resistance to bolt end-thrust attack (option Q ⁴)
M	✓	✓	Electric monitoring of bolt status
N	◆	◆	Electric monitoring of lock status
O ⁰	◆	◆	Customer supplied cylinder
O ¹	◆	◆	Cylinder - Kaba-20 (registered)
O ²	◆	◆	Cylinder - Assa Twin Combi 5800
O ³	◆	◆	Cylinder - Yale
O ⁴	◆	◆	Cylinder - Bramah (registered)
O ⁵	◆	◆	Cylinder - Medeco m ³ -ARX (registered)
O ⁶	◆	◆	Cylinder - Ingersoll (registered)
O ⁹	◆	◆	Cylinder - Abloy Disklock Pro cylinder (registered, gold level)
O ¹⁰	◆	◆	Cylinder - Kaba Quattro pluS (registered)
O ²²	◆	◆	Cylinder - Assa Ruko Flexcore (choice for registration)
O ⁹¹	◆	◆	Cylinder - Abloy Protec (registered, diamond level)
P		◆	Cylinder guard (rim-latch style) for door thickness 44-60mm - tested to LPS1175 rating 3 protection
Q ⁴	✓	✓	Anti-thrust resistance (seven times BS 3621)
W	✓	✓	Machine screws with steel dowels
W ²	✓	✓	Surface fixing by coach screws
W ³	✓	✓	Surface fixing by machine screws
W ⁵	✓	✓	Surface fixing by security screws - timber doors and frames

✓ Available enhancements

◆ Dependant on other enhancement(s)

Stirling: Key Release

High performance, key entry devices

Stirling locking devices are:

- Strong
- Simple to specify
- Tested to over one million cycles
- Attractively finished

Stirling key-driven deadlocks have:

- Automatic re-securing upon door closure
- Proven rack and pinion mechanism
- Hardened steel bolts
- Choice of exit methods
- Choice of cylinders from leading manufacturers
- Available in stainless steel 316 for hostile environments



Modular system

The Stirling range has been designed with a common fixing footprint and key cylinder position, enabling alternative modules to be retrofitted to meet changes of customer requirements.

Choice of cylinders*

Key cylinders can be selected from most leading manufacturers, or customers own supply, enabling existing suiting requirements to be maintained.

* 'Union' cylinders fitted as standard.



Key cylinders from most leading manufacturers

Performance

Stirling provides the renowned Surelock McGill strength and stability required for high performance doors, including:

- Security** Successfully tested on LPS 1175 Security Rating 2, 3 and 4 doorsets
- Fire** Successfully tested on BS 476 part 22:1987
- Panic Exit** Independently type tested to BS EN 1125: 2008, CE marked
- Emergency Exit** Independently type tested to BS EN 179: 2008, CE marked

Operation

Key release devices, provide automatic re-securement upon door closure with a wide choice of exit solutions including turnknob lock release, panic or emergency exit (refer to the 'Self-coding system' guide to select the correct operation).

Fitting

Supplied as standard for surface fitting, ensuring the fabric strength of the door is maintained.



Steel template guide

Stirling Features

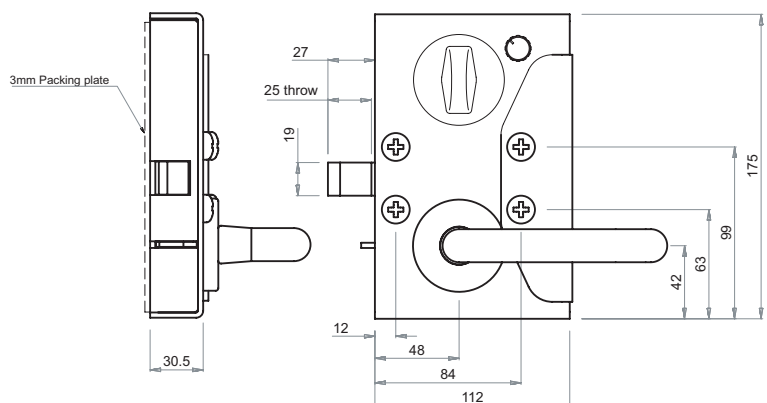
- 19mm square bolt with 25mm throw
- Positive latching engagement
- Easily adjusted
- Euro-profile cylinder as standard complete with cylinder guard
- Steel template provides accurate and rapid installation

Stirling Benefits

- High performance
- Modular design
- Reliable, offering long trouble free life
- Choice of entry and exit methods
- Upgrade solution for existing doors



Euro-profile cylinder with guard: S-10261 (code P⁴)



Stirling 'ST113' key & turnknob release centre module dimensions (mm)

Self-coding system

Stirling (ST) modular devices have a simple ordering code that covers the chosen methods of entry and exit, followed by additional enhancements to further customise the device. Stirling devices are suitable for fitting to almost any door.

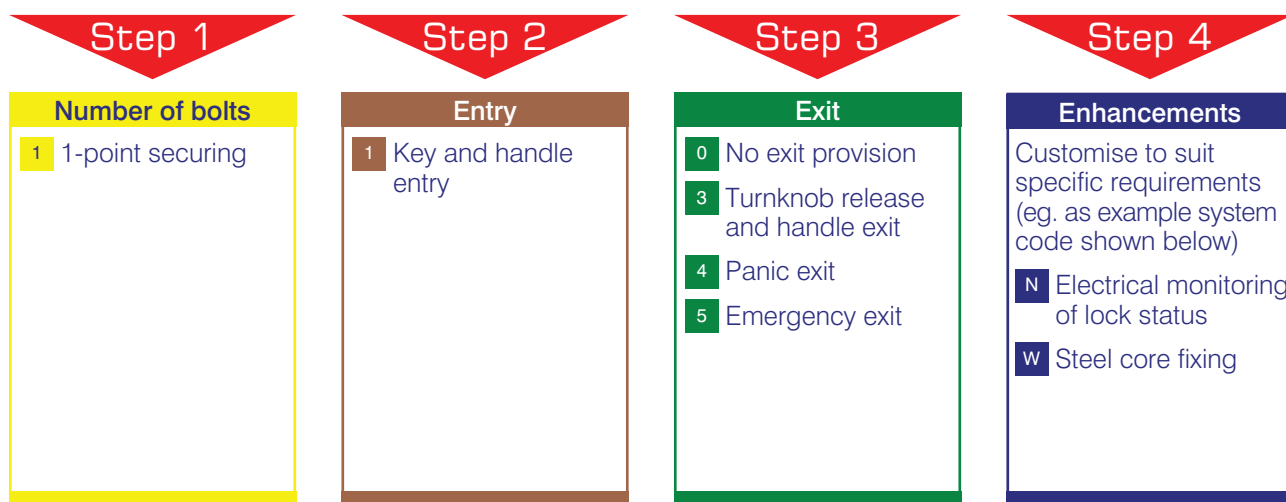
The device is easy to specify:

- Step 1. ▶ The number of bolts securing is predetermined for the Stirling range (1)
- Step 2. ▶ Apply entry code 1 (key release)
- Step 3. ▶ Choose required exit code 0, 3, 4 or 5
- Step 4. ▶ Select any enhancements to customise and suit specific requirements

Handing and opening direction is required when ordering Stirling locks, please refer to the handing chart for the correct two digit coding.

That's it! The device is specified.

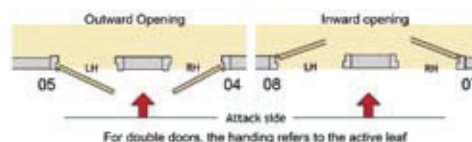
Four steps to Stirling



Example system code: ST 1 1 3 - 04 - N W

The above code ST113-04-NW specifies a Stirling device with external key entry, turnknob exit release with lever handle both sides. The enhancement codes 'N' specifies electric monitoring of lock status and 'W' for steel core fixing.

Note: The code 04 specifies right hand outward opening.



Surelock McGill Stirling enhancements

The Stirling range is supported with a full range of enhancements enabling a device to be tailored meet the most demanding requirements. Devices are supplied for surface mounting and automatic re-securing upon door closure. Refer to the Stirling 'Enhancement Guide' for full information on available enhancements.

A selection of frame keeps is available to suit most applications, refer to 'Stirling Keeps and Strikes' for details.



Popular Enhancements

The following is a summary of the more popular enhancements chosen for Stirling key release devices; refer to the full enhancement chart for the wider choice and full details.

CODE	DESCRIPTION
H ³	Push pad; in place of inside handle; BSEN 179: 2008
K ⁴	Internal turnknob release with break-dome protection
K ¹³	External key/handle access (rim-latch style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
N	Electric monitoring of lock status
O ⁰	Customer supplied cylinder
O ¹	Cylinder - Kaba-20 (registered)
O ²	Cylinder - Assa twin 5800
O ⁵	Cylinder - Medeco m ³ -ARX (registered)
O ⁹	Cylinder - Abloy Disklock (registered, gold level)
P	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 3 protection
W	Steel core fixing with machine screws
W ²	Surface fixing by coach screws
W ³	Surface fixing by machine screws

A Surelock McGill 'Key Release' specific brochure is available upon request.

Quality statement

Our continued commitment to product excellence and accreditation to ISO 9001:2000 throughout the group ensures unequalled customer satisfaction and is our 'Seal of Excellence'.

Intellectual Property Rights

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In accordance with our policy of continual development and improvement we reserve the right to make changes in design and specifications without notice.



'Stirling' Key Release Deadlocks - Enhancements available

CODE	Entry/Exit Codes					Description
	ST101	ST111	ST113	ST114	ST115	
H ³					✓	Push pad; in place of inside handle; BSEN 179: 2008
K ²	✓	✓	✓	✓	✓	External key/handle access (protected profile style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
K ⁴			✓			Internal turnknob release with break-dome protection
K ¹³	✓	✓	✓	✓	✓	External key/handle access (rim-latch style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
M	✓	✓	✓	✓	✓	Electric monitoring of bolt status
M ³				✓	✓	Request to exit (initiated by internal handle operation)
N	std	std	std	std	std	Electric monitoring of lock status
O ⁰	✓	◆	◆	◆	◆	Cylinder - supplied free issue (approved types and factory fitted only)
O ¹	✓	◆	◆	◆	◆	Cylinder - Kaba-20 (registered)
O ²	✓	◆	◆	◆	◆	Cylinder - Assa Twin Combi 5800 (registered)
O ³	✓	◆	◆	◆	◆	Cylinder - Yale
O ⁴	✓	◆	◆	◆	◆	Cylinder - Bramah (registered)
O ⁵	✓	◆	◆	◆	◆	Cylinder - Medeco m ³ -ARX (registered)
O ⁹	✓	◆	◆	◆	◆	Cylinder - Abloy Disklock Pro cylinder (registered, gold level)
O ¹⁰	✓	◆	◆	◆	◆	Cylinder - Kaba Quattro pluS (registered)
O ²²	✓	◆	◆	◆	◆	Cylinder - Assa Ruko Flexcore (choice for registration)
O ⁹¹	✓	◆	◆	◆	◆	Cylinder - Abloy Protec (registered, diamond level)
P	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 3 protection
P ⁵	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 4 protection
P ⁶	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 52-60mm – tested to LPS 1175 rating 5 protection
Q ⁴	std	std	std	std	std	Anti-thrust resistance (seven times BS 3621)
W	✓	✓	✓	✓	✓	Steel core fixing with machine screws
W ²	✓	✓	✓	✓	✓	Surface fixing by coach screws
W ³	✓	✓	✓	✓	✓	Surface fixing by machine screws
W ⁵	✓	✓	✓	✓	✓	Surface fixing by security screws - timber doors & frames

✓ Available enhancements

◆ Dependant on other enhancement(s)

Stirling: Electric Release

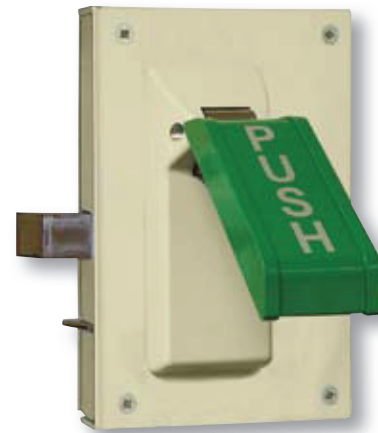
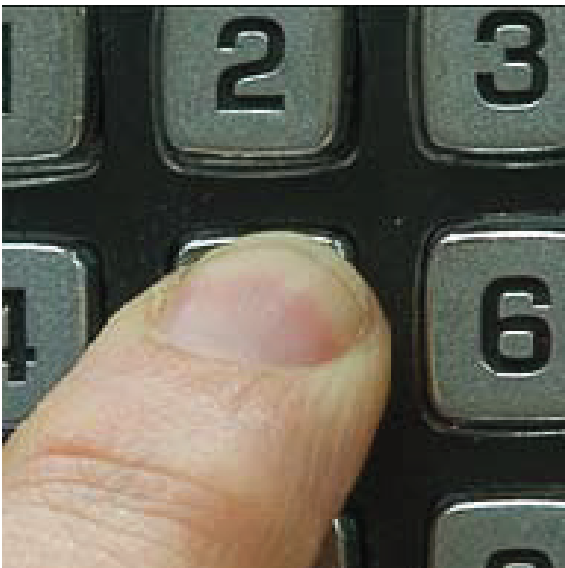
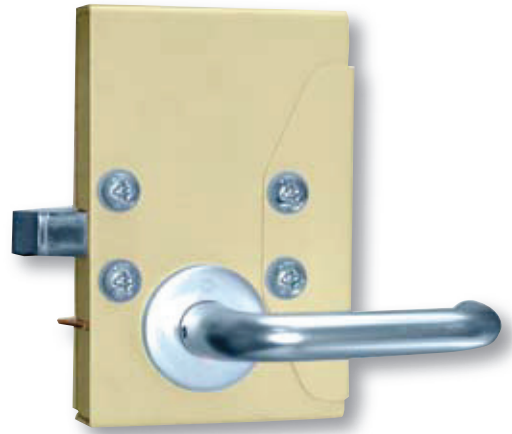
High performance, access control entry devices

Stirling locking devices are:

- Strong
- Simple to specify
- Tested to over one million cycles
- Attractively finished

Stirling electric release deadlocks have:

- Automatic re-securing upon door closure
- Proven rack and pinion mechanism
- Hardened steel bolts
- Choice of exit methods
- Choice of cylinders from leading manufacturers
- Available in stainless steel 316 for hostile environments



Modular system

The Stirling range has been designed with a common fixing footprint and key cylinder position, enabling alternative modules to be retrofitted to meet changes of customer requirements.

External key override in case of power failure

An external key override can be provided to cover for the possibility of power failure, with cylinders from most leading manufacturers, or customers own supply, enabling existing suiting requirements to be maintained.

Performance

Stirling provides the renowned Surelock McGill strength and stability required for high performance doors, including:

Security	Successfully tested on LPS 1175 Security Rating 2, 3 and 4 doorsets
Fire	Successfully tested on BS 476 part 22:1987
Panic Exit	Independently type tested to BS EN 1125: 2008, CE marked
Emergency Exit	Independently type tested to BS EN 179: 2008, CE marked

Operation

Stirling electric release devices provide automatic re-securement upon door closure. There is a wide choice of exit solutions including; access control, turnknob or key lock release, panic or emergency exit.

Fitting

Supplied as standard for surface fitting, ensuring the fabric strength of the door is maintained.

Stirling Features

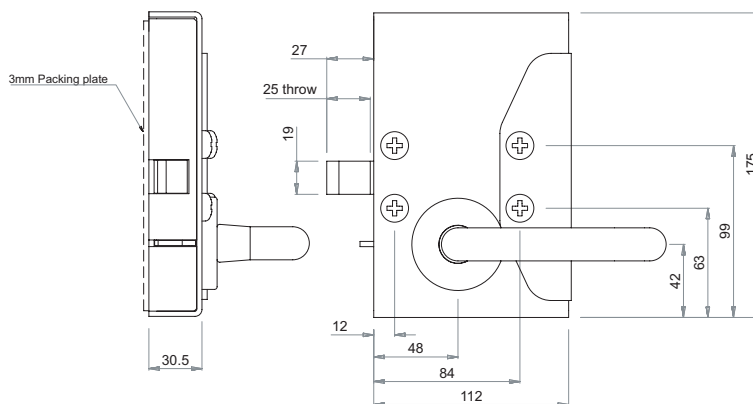
- 19mm square bolt with 25mm throw
- Positive latching engagement
- Easily adjusted
- Steel template provides accurate and rapid installation



Steel template guide

Stirling Benefits

- High performance
- Modular design
- Reliable, offering long trouble free life
- Choice of entry and exit methods
- Upgrade solution for existing doors



Stirling 'ST122' access control release centre module dimensions (mm)

Self-coding system

Stirling (ST) modular devices have a simple ordering code that covers the chosen methods of entry and exit, followed by additional enhancements to further customise the device. Stirling devices are suitable for fitting to almost any door.

The device is easy to specify:

- Step 1. ▶ The number of bolts securing is predetermined for the Stirling range (1)
- Step 2. ▶ Apply entry code 2 (electric release)
- Step 3. ▶ Choose required exit code 1, 2, 3, 4 or 5
- Step 4. ▶ Select any enhancements to customise to suit any specific requirements

Handing and opening direction is required when ordering Stirling locks, please refer to the Surelock McGill handing chart for the correct two digit coding.

That's it! The device is specified.

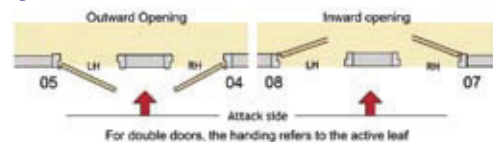
Four steps to Stirling

Step 1	Step 2	Step 3	Step 4
<p style="text-align: center; background-color: #ffff00; color: black; padding: 5px;">Number of bolts</p> <p style="background-color: #ffff00; padding: 5px;">1 1-point securing</p>	<p style="text-align: center; background-color: #8b4513; color: white; padding: 5px;">Entry</p> <p style="background-color: #8b4513; padding: 5px;">2 Electric release and handle entry</p>	<p style="text-align: center; background-color: #008000; color: white; padding: 5px;">Exit</p> <ul style="list-style-type: none"> 1 Key and handle exit 2 Electric release and handle exit 3 Turnknob release and handle exit 4 Panic exit 5 Emergency exit 	<p style="text-align: center; background-color: #000080; color: white; padding: 5px;">Enhancements</p> <p style="background-color: #000080; padding: 5px;">Customise to suit specific requirements (eg. as example system code shown below)</p> <ul style="list-style-type: none"> K¹⁰ External rim-latch key cylinder P Cylinder guard protection W Steel core fixing

Example system code: ST 1 2 2 - 04 - K¹⁰ P W

The above code ST122-04-K¹⁰PW specifies a Stirling single-point access control device with lever handle both sides and lock status monitoring. The enhancement codes K¹⁰ specifies external rim-latch key cylinder in case of power failure, 'P' cylinder guard protection and 'W' for steel core fixing.

Note: The code '04' specifies right hand outward opening



Power consumption

Stirling standard solenoids are 12V energise to unlock (fail secure) with alternative 24V and 50V, plus energise to lock (fail safe), all available.

Voltage (dc)	Power consumption	Current draw
V	W	A
12	7	0.58
24	7	0.29
50	7	0.14

Surelock McGill Stirling enhancements

The Stirling range is supported with a full range of enhancements enabling a device to be tailored meet the most demanding requirements. Devices are supplied for surface mounting and automatic re-securing upon door closure. Refer to the Stirling 'Enhancement Guide' for full information on available enhancements.



Popular Enhancements

The following is a summary of the more popular enhancements chosen for Stirling key release devices; refer to the full enhancement chart for the wider choice and full details.

CODE	DESCRIPTION
H ³	Push pad; in place of inside handle; BS EN 179: 2008
K ²	External key/handle access (protected profile style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
K ¹³	External key/handle access (rim-latch style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
M ³	Request to exit (initiated by external handle operation)
O ⁰	Customer supplied cylinder
O ¹	Cylinder - Kaba-20 (registered)
O ²	Cylinder - Assa twin 5800
O ⁵	Cylinder - Medeco m ³ -ARX (registered)
O ⁹	Cylinder - Abloy Disklock (registered, gold level)
P	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 3 protection
W	Steel core fixing with machine screws
W ²	Surface fixing by coach screws
W ³	Surface fixing by machine screws

A Surelock McGill 'Electric Release' specific brochure is available upon request.

Quality statement

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'Stirling' Electric Release Deadlocks - Enhancements available

CODE	Entry/Exit Codes					Description
	ST121	ST122	ST123	ST124	ST125	
H ³					✓	Push pad; in place of inside handle; BS EN 179: 2008
K ²	✓	✓	✓	✓	✓	External key/handle access (protected profile style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
K ⁴			✓			Internal turnknob release with break-dome protection
K ¹³	✓	✓	✓	✓	✓	External key/handle access (rim-latch style cylinder - Union as standard) and resistance to bolt end-thrust attack (option Q4)
M	✓	✓	✓	✓	✓	Electric monitoring of bolt status
M ³				✓	✓	Request to exit (initiated by internal handle operation)
N	std	std	std	std	std	Electric monitoring of lock status
O ⁰	✓	◆	◆	◆	◆	Cylinder - supplied free issue (approved types and factory fitted only)
O ¹	✓	◆	◆	◆	◆	Cylinder - Kaba-20 (registered)
O ²	✓	◆	◆	◆	◆	Cylinder - Assa Twin Combi 5800 (registered)
O ³	✓	◆	◆	◆	◆	Cylinder - Yale
O ⁴	✓	◆	◆	◆	◆	Cylinder - Bramah (registered)
O ⁵	✓	◆	◆	◆	◆	Cylinder - Medeco m ³ -ARX (registered)
O ⁹	✓	◆	◆	◆	◆	Cylinder - Abloy Disklock Pro cylinder (registered, gold level)
O ¹⁰	✓	◆	◆	◆	◆	Cylinder - Kaba Quattro pluS (registered)
O ²²	✓	◆	◆	◆	◆	Cylinder - Assa Ruko Flexcore (choice for registration)
O ⁹¹	✓	◆	◆	◆	◆	Cylinder - Abloy Protec (registered, diamond level)
P	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 3 protection
P ⁵	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 44-60mm – tested to LPS 1175 rating 4 protection
P ⁶	◆	◆	◆	◆	◆	Cylinder guard (rim-latch style) for door thickness 52-60mm – tested to LPS 1175 rating 5 protection
Q ⁴	std	std	std	std	std	Anti-thrust resistance (seven times BS 3621)
R ¹	✓	✓	✓	✓	✓	Access control (energise to unlock) 24V solenoid
R ²	✓	✓	✓	✓	✓	Access control (energise to lock) 12V solenoid
R ³	✓	✓	✓	✓	✓	Access control (energise to lock) 24V solenoid
R ⁴	✓	✓	✓	✓	✓	Access control (energise to unlock) 50V solenoid
W	✓	✓	✓	✓	✓	Steel core fixing with machine screws
W ²	✓	✓	✓	✓	✓	Surface fixing by coach screws
W ³	✓	✓	✓	✓	✓	Surface fixing by machine screws
W ⁵	✓	✓	✓	✓	✓	Surface fixing by security screws - timber doors & frames

✓ Available enhancements

◆ Dependant on other enhancement(s)













Stirling: Enhancements

Enhancements have been designed and tested to enable a basic Stirling device to be closely tailored to meet customers individual requirements, to ensure the performance of a building and those who use the building. Correct selection will ensure that a door will return to a specific status upon closure, and if required can be linked to other doors to create an 'Air-lock' application.

Each type of enhancement has been allocated an alpha code with numeric variants for each as applicable. The following section describes each in as much detail as possible and where necessary technical information has been included to assist in making the correct choice.

A wall chart is available listing all enhancements available for each device.

CODE	DESCRIPTION	PAGE
 H	Handle variants	2
 K	Operational variants	3
 M	Electric monitoring of bolt status	4
 N	Electric monitoring of lock status	4
 O	Key Cylinder variants from most leading manufacturers, including customer's own supply	5-6
 P	Cylinder protection, various levels of testing included	7-8
 Q	Anti-trust resistance (seven times BS 3621)	9
 R	Solenoid voltage and power to lock/unlock (fail safe/secure status)	9
 S	Stainless steel 316 - finish polished	9
 W	Various fixing screw packs to suit door construction	10

Option H⁽ⁿ⁾**Handle Variants**

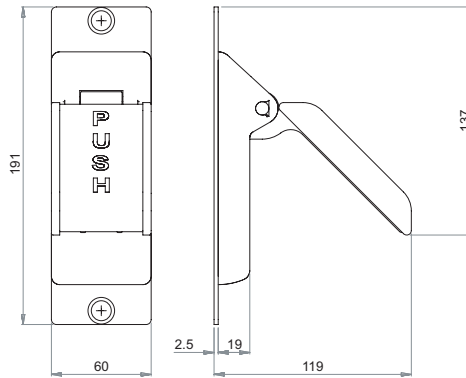
Various handle combinations can be selected from those normally supplied for each device.

Option H**External lever handle**

Stainless steel external handle added to 'Exit' only devices. This provides free access where security is not an issue (i.e. a fire wall partition door).

Option H³**Push pad in place of inside handle**

Alternative exit operator retains the BS EN 179: 2008 accreditation and CE marking.



Option K⁽ⁿ⁾**Operational variants**

Various locking combinations can be selected from those normally supplied for each device.

Option K²**External key release in case of power failure**

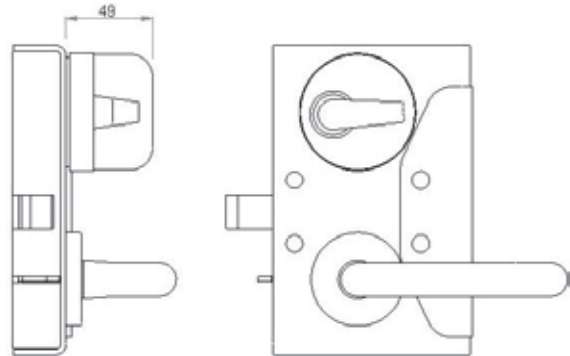
Provides a key entry facility for electric release devices in the event of power failure.

Option K⁴**Break-dome over turnknob**

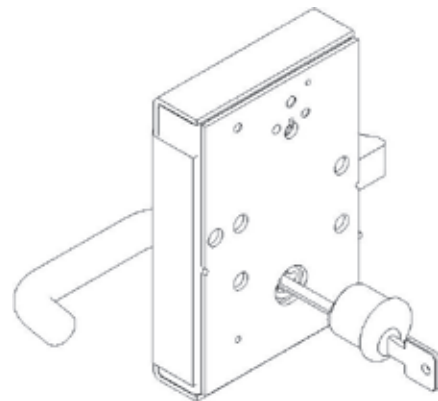
Provides a manual lock release facility with visual awareness of an event, ie. for use on controlled exits, or in the case of power failure for electric release devices.



Break-dome over
turnknob - **Option K⁴**

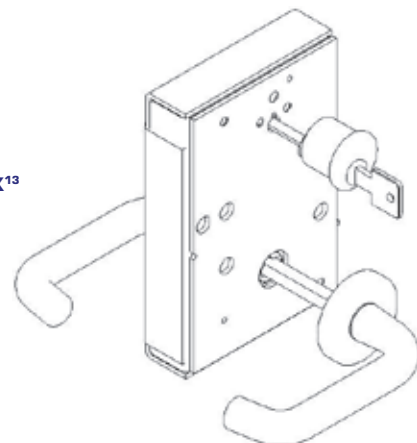
**Option K¹⁰****Single key entry; no handle required**

Single key entry provision with no external handle required, uses a rim latch style cylinder - (Union supplied as standard).

**Option K¹³****Rim latch cylinder and handle entry**

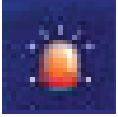
Alternative cylinder type, ie. unprotected rim-latch cylinder in place of protected Euro-profile. Providing a cost saving if cylinder protection is not required, also providing the choice to add cylinder protection to LPS 1175 Security Rating 3, 4 or 5 (refer to enhancement 'P(n)').

Rim latch cylinder - **Option K¹³**



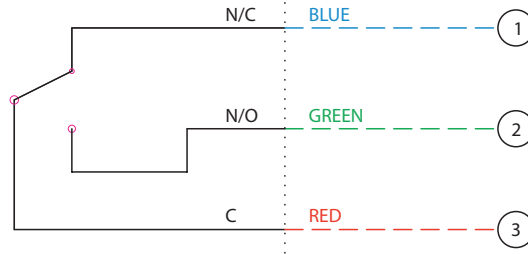
Option M

Electric Monitoring of the Bolt Status



A double pole microswitch providing a signal in the event of bolt withdrawal.

Option M wiring diagram

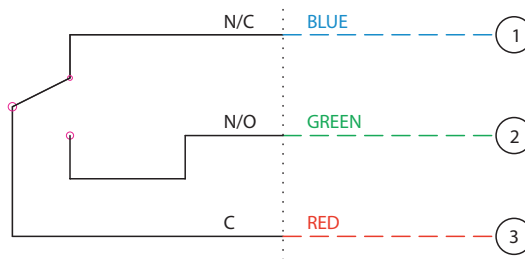


Option M³

Request to exit

A double pole microswitch providing a signal from the initial movement of the internal emergency exit handle, for alarm deactivation.

Option M³ wiring diagram



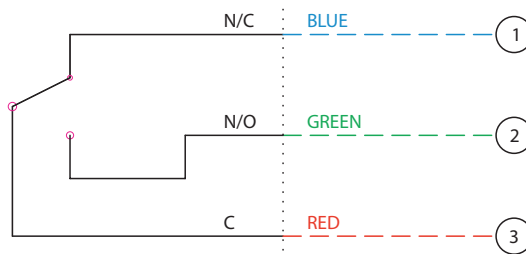
Option N

Electric Monitoring of the Lock Status



A double pole microswitch providing a signal in the event of lock release.

Option N wiring diagram



Note: Cable core colours may change, dependant on a combination of electrical enhancements.



Option O⁽ⁿ⁾**Cylinder Variants**


The Stirling range of devices have been designed to complement almost all makes of cylinders to suit customers individual choice of make and to complement any suiting requirements, including registered cylinders to provide the highest level of key control, with Union (5 pin) cylinder being fitted as standard unless otherwise advised.


The following cylinder variants indicate the manufacturer, model, registering information and security level of cylinder to the European BS EN 1303 and UL standards.


Option O⁰**Customers own supply**


Where a customer chooses to issue cylinders to Surelock McGill on a free-issue basis, this must be supported with a key for quality control inspection before despatch.


The make of cylinder must be advised when ordering to ensure correct component parts are matched. For example, in the case of a cylinder guard being required, i.e. option code O⁰O⁵ indicates the free issue of a Medeco m³-ARX cylinder.


Option O ¹	Kaba 20	Registered	BS EN 1303	UL
		yes	6 - 2	


Option O ²	Assa Twin-Combi	Registered	BS EN 1303	UL
		yes	6 - 2	437


Option O ³	Yale (5 pin)	Registered	BS EN 1303	UL
		no		


Option O ⁴	Bramah	Registered	BS EN 1303	UL
		yes		


Option O ⁵	Medeco m ³ -ARX	Registered	BS EN 1303	UL
		yes	6 - 2	437

Option O⁶	Ingersoll	Registered	BS EN 1303	UL
		yes		

Option O⁹	Abloy Disklock Pro	Registered	BS EN 1303	UL
		yes	6 - 2	

Option O¹⁰	Kaba Quattro S	Registered	BS EN 1303	UL
		yes	6 - 2	

Option O²²	Assa Ruko Flexcore	Registered	BS EN 1303	UL
		yes	3 - 0	

Option O⁹¹	Abloy Protech	Registered	BS EN 1303	UL
		yes	6 - 2	

Option P⁽ⁿ⁾

Cylinder Guards



A range of cylinder guards are available if selecting the rim-latch style cylinder (option K13), to suit various makes. Cylinder guards have been tested to meet the demanding security requirements of LPS 1175 Security Ratings 2, 3, 4 & 5.

Option P	Rim cylinder guard	LPS 1175	Surelock	
		SR 3	Base	
<p>Stainless steel cylinder guard for conventional shape rim latch style cylinders, complete with manganese anti-drill protection, for door thickness 44-60mm.</p>				
Option P⁵	Rim cylinder guard	LPS 1175	Surelock	
		SR 4	Enhanced	
<p>Manganese steel cylinder guard for conventional shape rim latch style cylinders, complete with manganese anti-drill protection, for door thickness 44-60mm.</p>				
Option P⁶	Rim cylinder guard	LPS 1175	Surelock	
		SR 5	High	
<p>Manganese steel cylinder guard for conventional shape rim latch style cylinders, complete with cobalt anti-drill protection, for door thickness 52-60mm.</p>				



Cylinder guards -
Option P



Cylinder guard -
Option P⁶

Option Q⁽⁴⁾**Anti-thrust Resistance Q4**

A deadlocking feature which provides an extremely high resistance to crowbar attack, tested to over seven times BS 3621.

Option R⁽ⁿ⁾**Solenoid Variants**

A selection of continuous rated d.c. solenoids with various voltages and operational features, the default standard being 12V, energise to lock (fail secure in the case of power failure) with 7W power consumption and 0.58A current draw.

	Voltage	Energise to:	Power consumption	Current draw
Option R¹	24V	Unlock - fail secure	7W	0.29A
Option R²	12V	Lock - fail safe	7W	0.58A
Option R³	24V	Lock - fail safe	7W	0.29A
Option R⁴	50V	Unlock - fail secure	7W	0.14A
Option R⁷	50V	Lock - fail safe	7W	0.14A

Option S**Stainless Steel**

Corrosion resistant stainless steel 316 with a polished finish. Ideal for offshore, saline and other hostile situations as well as medical clean rooms.



Example of stainless steel, option S

Option W⁽ⁿ⁾ Fixing Packs

A selection of fixing packs is available to suit surface fitting to both timber and steel doors.


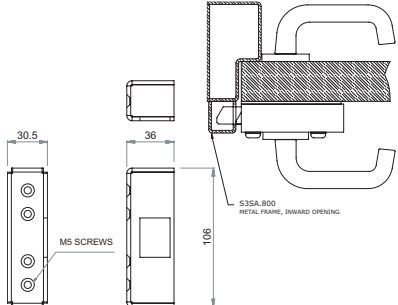
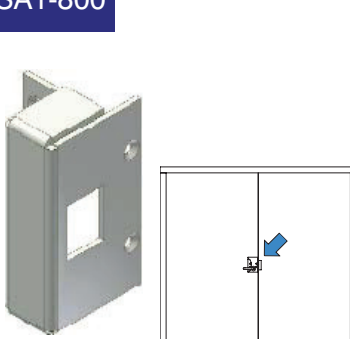
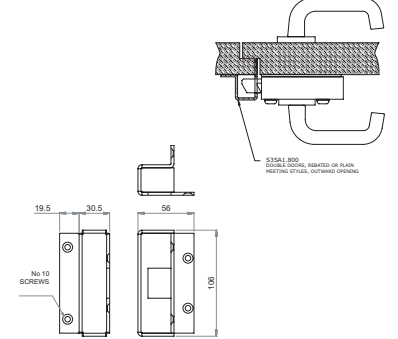
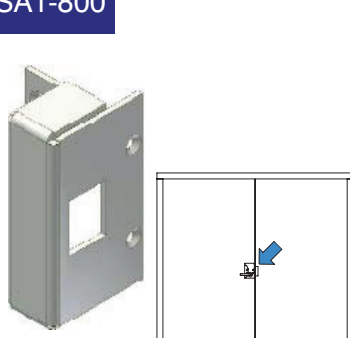
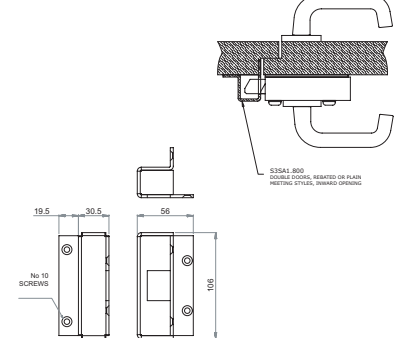
Option W	Steel core - surface fixing to timber doors	
	<p>The most secure way of fixing a surface fitted device to a timber door. Steel dowels with threaded nuts inserted into the core of the door, machine screws pass through the device securing into the threaded nuts, ensuring a perfect partnership between the lock and door.</p>	
Option W²	Coach screw - surface fixing to timber doors	
	<p>A fast and simple way of fixing a surface fitted device to a timber door.</p>	
Option W³	Machine screw - surface fixing to steel doors	
	<p>A fast and simple way of fixing a surface fitted device to a steel door.</p>	
Option W⁵	Security screw - mortice fixing to timber doors	
	<p>Pin-Torx screws supplied to provide a tamper resistant method of fixing a mortice fitted device to a timber door.</p>	

Stirling: Frame keeps for surface-mounted systems

A wide selection of keeps and strike plates are available to suit almost every application. These need to be ordered separately.

Available in heavy-section steel with a grey-white RAL 9002 leatherette powder coating finish, or from polished stainless steel (add suffix '-S' to your ordering code).


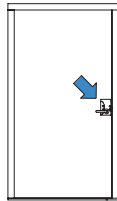
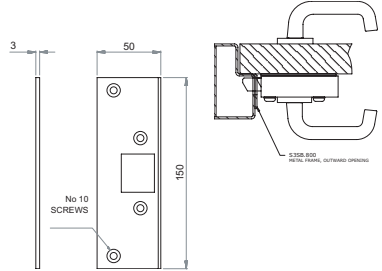

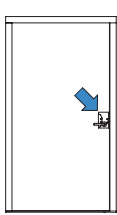
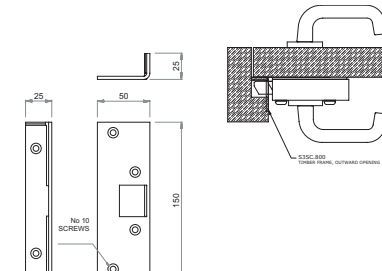

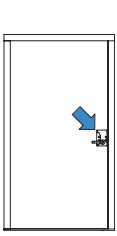
On timber frames the keeps can be recessed flush with the frame. On metal frames they can be fixed to reinforce a thin section prior to frame installation.

<p>SA800</p> 	<p>Frame keep</p> <p>Designed for an inward-opening single leaf door hung in a steel frame.</p>	
<p>SA1-800</p> 	<p>Frame keep</p> <p>Dual purpose keep, illustrated on an outward opening double door.</p>	
<p>SA1-800</p> 	<p>Frame keep</p> <p>Dual purpose keep, illustrated on an inward-opening double door.</p>	

Frame keeps for surface-mounted systems

Available in heavy-section steel with a grey-white RAL 9002 leatherette powder coating finish, or from polished stainless steel (add suffix '-S' to your ordering code).

On timber frames the keeps can be recessed flush with the frame. On metal frames they can be fixed to reinforce a thin section prior to frame installation.

<p>SB800</p> 		<p>Frame keep</p> <p>Designed for an outward-opening single leaf door hung in a steel frame.</p>	
<p>SC800</p> 		<p>Frame keep</p> <p>Designed for an outward-opening single leaf door hung in a timber frame.</p>	
<p>SD800</p> 		<p>Frame keep</p> <p>Designed for an inward-opening single leaf door hung in a timber frame.</p>	