

[ Securing the people  
who secure the country ]

# GLOBAL LOCKING SOLUTIONS

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SURELOCK MCGILL GROUP

The Surelock McGill Group are a global leader. Intensive research and development underpins the design and manufacture of high security locking solutions for a demanding, and highly sensitive market.

Our emphasis on testing has provided our products with international accreditation for both security and life-safety. This is why we are the world’s leading specialist in protection against physical and surreptitious attack, ballistic and blast, together with fire and acoustic solutions.

Our superbly-designed and robust products are due in part to many years of supporting offshore oil and gas exploitation. The requirements for the offshore environment means that our products are designed and tested for longevity and high resistance to corrosion.

Our locking systems and associated door furniture provide the widest range of products to meet the often-conflicting requirements of ensuring both security and life-safety. We provide comprehensive solutions for a wide range of customers, including:

- Embassies, government, and defence establishments
- Electricity, nuclear, gas and water facilities
- Telecommunications & data centres
- Petrochemical & offshore exploration
- Air and sea ports, plus rail infrastructure
- Secure hospitals, prisons, health and scientific laboratories
- Heritage sites & museums
- Finance, cash-in-transit, retail and commercial buildings
- Natural hazards, seismic shock, and tornados

Surelock McGill Group products have been specified to secure the highest profile locations globally, protecting people and national infrastructures around the world for nearly 60 years.

THE 'SURELOCK' & 'MICO' BRANDS

SURELOCK

Solutions for all requirements of high-risk protection, offering the greatest choice of combined accreditations to meet the most demanding of international standards in both security and life-safety. Maximising on the choice of operational sequencing and products tested to 1,000,000 cycles to ensure performance and longevity is fully assured. Manufactured in 316 stainless steel to meet the harshest of environments.

MICO

High performance security locking systems to meet the most popular of commercial applications requiring accredited security levels. A restricted choice of operational selections enable Mico products to be simple to select, fast to install and delivered with a short lead time. Manufactured in stainless steel for harsh environments and durability.

We have a knowledgeable technical and sales team who are always available to help with the selection of the correct product to suit your specific requirements.



Securing the people  
who secure the country



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**SINGLE-POINT v MULTI-POINT LOCKING**

Consideration when choosing a locking system should be made for the required security level & complexity of threat, ease of installation, plus a choice of entry and exit methods.

In this catalogue there are straight forward systems for simple security protection, to sophisticated systems that protect against high level threats ranging from outright terrorist attack to surreptitious incursions.

**SINGLE-POINT**

Single-Point high performance locks, stainless steel construction suitable for a variety of hostile environments. Simple to fit and offering high security protection. Suitable for doors and gates, with a choice of entry and exit solutions, plus enhancements to suit your individual operational requirements.

**MULTI-POINT**

Multi-Point high performance locks, stainless steel construction suitable for a variety of hostile environments. Normally surface mounted, with concealed (mortice) fitted options available. Meets base, enhanced and high security level risks. Suitable for protection against physical, blast, ballistic and acoustic threats. Multiple bolts spread the load, securing the opening in several places. Ideal for doors, gates, hatches and windows, with a choice of entry and exit solutions.

**SURFACE MOUNTED v MORTICE FITTED**

We provide both Surface and Mortice (concealed) systems. Surface mounted systems are easier to fit and service, while maintaining the fullest strength of door construction. Mortice (concealed) fitted systems are ideal when aesthetic considerations are paramount.



SURFACE MOUNTED  
MULTI-POINT



MORTICE FITTED  
MULTI-POINT



SURFACE MOUNTED  
SINGLE-POINT



MORTICE FITTED  
SINGLE-POINT



SINGLE-POINT  
LOCKING  
SYSTEMS



| SINGLE-POINT LOCKS         |    |    |    |    |    |    |    |    |                                 |             |
|----------------------------|----|----|----|----|----|----|----|----|---------------------------------|-------------|
| ABRYLL RANGE               |    |    |    |    |    |    |    |    |                                 |             |
| TYNE RANGE                 |    |    |    |    |    |    |    |    |                                 |             |
| STIRLING RANGE             |    |    |    |    |    |    |    |    |                                 |             |
| MODULA RANGE               |    |    |    |    |    |    |    |    |                                 |             |
| MSR SINGLE-POINT           |    |    |    |    |    |    |    |    |                                 |             |
| LODDON                     |    |    |    |    |    |    |    |    |                                 |             |
| RIMLOCK                    |    |    |    |    |    |    |    |    |                                 |             |
| RIBBLE                     |    |    |    |    |    |    |    |    |                                 |             |
| PAGE                       | 08 | 12 | 16 | 20 | 24 | 26 | 28 | 30 | INSTALLATION                    |             |
|                            | •  |    | •  |    | •  | •  | •  | •  | SURFACE MOUNTED                 |             |
|                            |    | •  |    | •  |    |    |    |    | MORTICE FITTED                  |             |
| ENTRY FUNCTION (OPTIONS)   |    |    |    |    |    |    |    |    |                                 |             |
|                            |    |    | •  |    |    | •  | •  | •  | KEY                             |             |
| •                          | •  | •  | •  | •  |    |    |    |    | KEY & LEVER HANDLE / KNOB       |             |
| •                          | •  | •  | •  | •  |    |    |    |    | ACCESS CONTROL                  |             |
|                            |    |    | •  |    |    |    |    |    | HANDS FREE MOTORISED            |             |
| •                          |    |    |    |    |    |    |    |    | COMBINATION LOCK & / OR LEVER   |             |
| •                          | •  | •  | •  |    | •  |    | •  |    | PADLOCKABLE / LOCKABLE OPERATOR |             |
| EXIT FUNCTION (OPTIONS)    |    |    |    |    |    |    |    |    |                                 |             |
| •                          | •  | •  | •  | •  | •  |    |    |    | PANIC BAR (BLADE / TUBE)        |             |
| •                          | •  | •  | •  | •  | •  |    |    |    | EMERGENCY PUSH PAD              |             |
| •                          | •  | •  | •  | •  | •  |    |    |    | EMERGENCY LEVER HANDLE          |             |
| •                          | •  | •  | •  | •  |    |    |    |    | KEY & LEVER                     |             |
|                            |    |    |    |    |    | •  |    |    | PULL LEVER / SLIDE BAR          |             |
|                            |    |    | •  |    |    |    | •  |    | THUMBTURN                       |             |
| •                          | •  | •  | •  | •  |    |    |    |    | THUMBTURN & LEVER               |             |
| •                          | •  | •  | •  | •  |    |    |    |    | BREAKGLASS DOME & LEVER         |             |
| •                          | •  | •  | •  | •  |    |    |    |    | ACCESS CONTROL                  |             |
|                            |    |    | •  |    |    |    |    |    | HANDS FREE MOTORISED            |             |
|                            |    |    |    |    |    |    |    |    | THUMBTURN WITH SLIDE BAR        |             |
|                            |    |    |    |    |    |    |    |    | BREAKGLASS DOME & SLIDE BAR     |             |
| LOCK FUNCTION (OPTIONS)    |    |    |    |    |    |    |    |    |                                 |             |
| •                          | •  | •  | •  | •  |    | •  | •  |    | AUTO DEADLOCKING                |             |
| •                          | •  | •  | •  | •  |    |    | •  | •  | MANUAL DEADLOCKING              |             |
| •                          | •  | •  | •  | •  | •  |    | •  | •  | NO DEADLOCKING                  |             |
| BOLTING FUNCTION (OPTIONS) |    |    |    |    |    |    |    |    |                                 |             |
| •                          | •  | •  | •  | •  | •  | •  | •  |    | AUTO BOLTING                    |             |
| •                          |    | •  |    |    |    |    | •  | •  | MANUAL BOLTING                  |             |
| PERFORMANCE                |    |    |    |    |    |    |    |    |                                 |             |
| •                          | •  | •  | •  | •  |    |    |    |    | EN 1125                         | LIFE SAFETY |
| •                          | •  | •  | •  | •  |    |    |    |    | EN 179                          |             |
|                            |    |    | •  |    |    |    |    |    | UL 305                          |             |
| •                          |    |    | •  | •  |    |    | •  |    | EN 1634-1 *                     | FIRE        |
|                            |    |    |    |    |    |    |    |    | UL 10C *                        |             |
|                            |    |    | •  | •  |    |    |    |    | CERTIFIRE                       |             |
| •                          | •  | •  | •  | •  | •  | •  | •  |    | LPS 1175 *                      | SECURITY    |
|                            |    |    |    |    |    |    |    |    | FEBR *                          |             |
|                            |    |    |    |    |    |    |    |    | EN 1627 *                       |             |
|                            |    |    | •  |    |    |    |    |    | STS 202 *                       |             |
| •                          | •  | •  | •  | •  |    | •  |    |    | SRB *                           |             |
|                            |    |    |    | •  |    |    |    |    | PAS 24                          |             |
|                            |    |    |    |    |    |    |    |    | EN 1522 *                       | BALLISTIC   |
|                            |    |    |    |    |    |    |    |    | ISO 16933 *                     | BLAST       |
| •                          | •  | •  | •  | •  |    |    | •  |    | EN 1670                         | CORROSION   |
|                            |    |    |    |    |    |    |    |    | TESTING                         | SEISMIC     |

\* - When tested on selected doorsets



The Abryll range is a high performance single-point, surface mounted locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Abryll has been engineered to provide multiple entry & exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control or combination lock with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. The robust design and stainless steel construction assists in protecting your facilities and provides a high level of durability.



### FEATURES

- Surface mounted for maximum strength
- 30mm (1 1/8") x 20mm (3/4") bolt x 37mm (1 1/2") throw
- Stainless steel construction for corrosion resistance and durability
- Cycle tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

### BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

### OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

### PRODUCT PERFORMANCE CHART

 – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |     |     |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION   | SEISMIC TESTED | CYCLES         |             |
|---------------|-------|-----|-----|-----|-----|-----|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-------------|----------------|----------------|-------------|
| ISSUE 8       |       |     |     |     |     |     |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |        |             |                |                |             |
| TIME          | TOOLS |     |     |     |     |     |   |         | SR 1-8    |         |         |        |        |        |                   |                 |        |             |                |                |             |
|               | A     | B   | C   | D   | E   | F   | G | H       |           |         |         |        |        |        |                   |                 |        |             |                |                |             |
| 20 MIN        |       |     |     |     |     |     |   |         | UP TO SR6 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25 | UL 10C      | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |
| 15 MIN        |       |     |     |     |     |     |   |         |           | 45 MINS | RC4     |        |        |        | BR2               | EN 179          |        | FB6         | EN 1634-1      |                | EN 1670:GR4 |
| 10 MIN        | A10   | B10 | C10 | D10 | E10 | F10 |   |         |           | 30 MINS | RC3     | BR1    |        |        |                   | UL 305          | FB5    |             | EN 1670:GR3    |                |             |
| 5 MIN         |       |     |     |     |     |     |   |         |           | 15 MINS | RC2     |        |        |        | FB4               |                 | EXV 15 | EN 1670:GR2 |                |                | 200K        |
| 3 MIN         |       |     |     |     |     |     |   |         |           | 5 MINS  | RC1     | FB3    |        |        | CERTIFIRE         | EN 1670:GR1     |        |             |                |                |             |
| 1 MIN         |       |     |     |     |     |     |   |         |           |         |         |        |        |        |                   |                 |        |             |                |                |             |

### ENTRY FUNCTION (OPTIONS)

- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- ACCESS CONTROL** Access control to unlock & lever handle to release
- COMBINATION LOCK** Combination lock & lever handle to release
- LOCKABLE OPERATOR** External key lockable lever handle/hasp for panic exits

### EXIT FUNCTION (OPTIONS)

- PANIC BAR** Life-safety panic exit
- EMERGENCY – PUSH PAD** Single operation exit
- EMERGENCY – LEVER HANDLE** Single operation exit
- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- THUMBTURN & LEVER HANDLE** Thumbturn to unlock & lever handle to release
- BREAK DOME & LEVER HANDLE** Break dome & thumbturn to unlock & lever handle to release
- ACCESS CONTROL & LEVER HANDLE** Access control to unlock & lever handle to release

### LOCK FUNCTION (OPTIONS)

- AUTO DEADLOCKING** Automatic deadlocking upon door closure (Storeroom function)
- MANUAL DEADLOCKING** Manual deadlocking upon door closure (Classroom function)
- NO DEADLOCKING** Panic & emergency exit only

### BOLT FUNCTION (OPTIONS)

- AUTO BOLTING** Automatic bolting upon door closure
- MANUAL BOLTING** Manual bolting



PANIC AND EMERGENCY



KEY & LEVER HANDLE

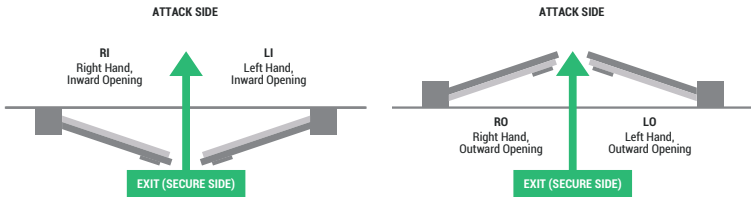


ACCESS CONTROL

### SELF CODING SYSTEM

The Abryll (AB) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: AB1A-AMLS-AA-LMLS



| PRODUCT        |                 |                 | ENTRY                                     |                                 | SECURING            |                                     | EXIT      |                                      |
|----------------|-----------------|-----------------|-------------------------------------------|---------------------------------|---------------------|-------------------------------------|-----------|--------------------------------------|
| RANGE          |                 | BOLTS           | UNLOCKING                                 |                                 | UPON DOOR CLOSURE   |                                     | UNLOCKING |                                      |
| AB             | Abryll          | 1               | X                                         | None                            | AA                  | Auto bolting / Auto deadlocking     | X         | None                                 |
| BOLT DIRECTION |                 |                 | K                                         | Key                             | AM                  | Auto bolting / Manual deadlocking   | K         | Key                                  |
| A              | Horizontal bolt |                 | H                                         | Lockable handle (Key / Padlock) | AB                  | Auto bolting only                   | A         | Access control                       |
|                |                 | A               | Access control                            |                                 | MA                  | Manual bolting / Auto deadlocking   | T         | Thumbturn                            |
|                |                 | C               | Combination                               |                                 | MM                  | Manual bolting / Manual deadlocking | L         | Single Handed / Panic - Emergency    |
|                |                 | BOLT RETRACTION |                                           | MB                              | Manual bolting only | BOLT RETRACTION                     |           |                                      |
|                |                 | X               | None                                      |                                 |                     |                                     | X         | None                                 |
|                |                 | M               | Manual                                    |                                 |                     |                                     | M         | Manual                               |
|                |                 | OPERATOR        |                                           | OPERATOR                        |                     |                                     |           |                                      |
|                |                 | XX              | None                                      |                                 |                     |                                     | XX        | None                                 |
|                |                 | LS              | Lever handle (Tubular straight)           |                                 |                     |                                     | LS        | Lever handle (Tubular straight)      |
|                |                 | HE              | Lever handle (H/D Tubular ergonomic)      |                                 |                     |                                     | HE        | Lever handle (H/D Tubular ergonomic) |
|                |                 | LH              | Lockable handle                           |                                 |                     |                                     | PB        | Panic bar (Blade aluminium)          |
|                |                 | UE              | Profile lever handle (Ergonomic)          |                                 |                     |                                     | PP        | Push pad                             |
|                |                 | UH              | Profile lever handle (Ergonomic clutched) |                                 |                     |                                     | PE        | Panic bar (Tubular st/st)            |

EXAMPLE BOLT DIRECTIONS

See coding chart above for reference

No Bolts (1)  
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference

Entry (XXXX)  
Exit (LMPB)

Entry (XXXX)  
Exit (LMLS)

Entry (KMLS)  
Exit (LMPB)

Entry (KMLS)  
Exit (TMLS)

Entry (KMLS)  
Exit (KMLS)

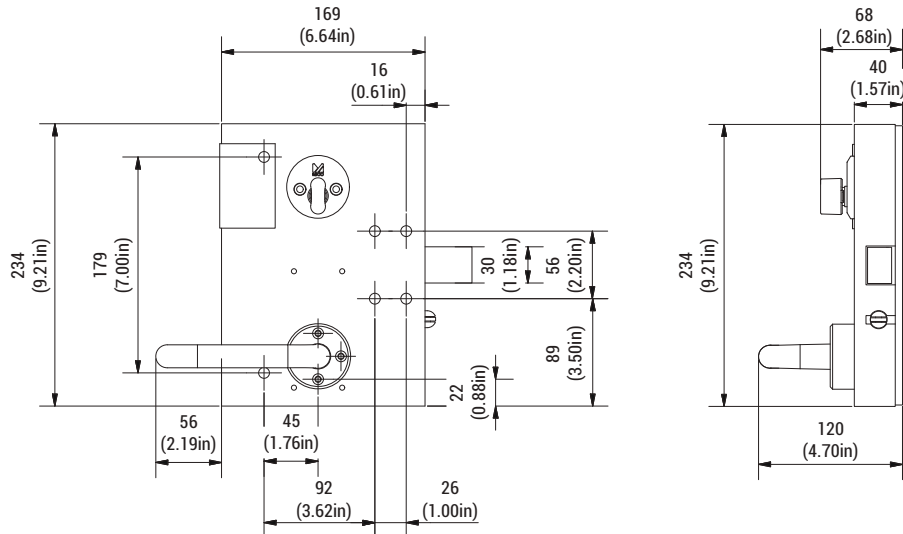
Entry (AMLS)  
Exit (AMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

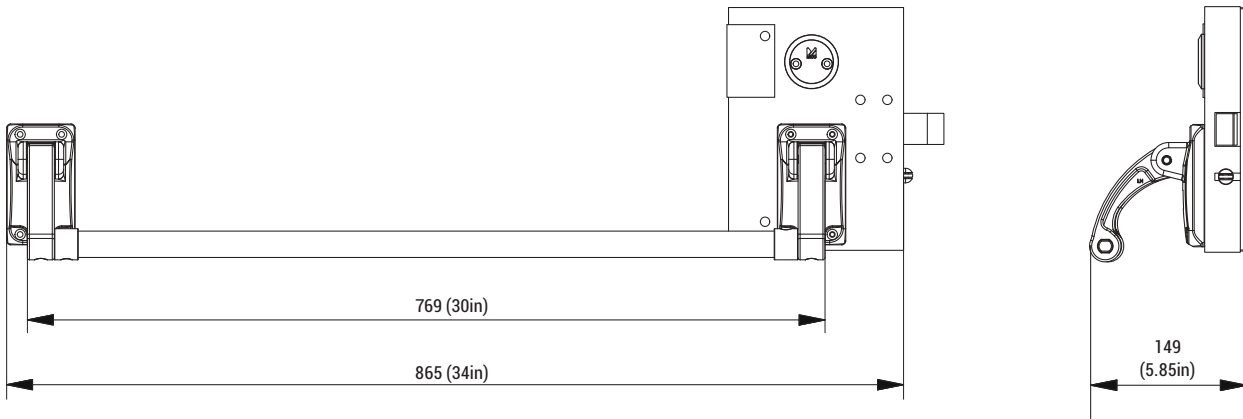
### ABRYLL ACCESS CONTROL POWER CONSUMPTION

| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12V     | 6W                             | 0.5A                      | 12V 1.0A                 |
| 24V     | 6W                             | 0.25A                     | 24V 1.0A                 |

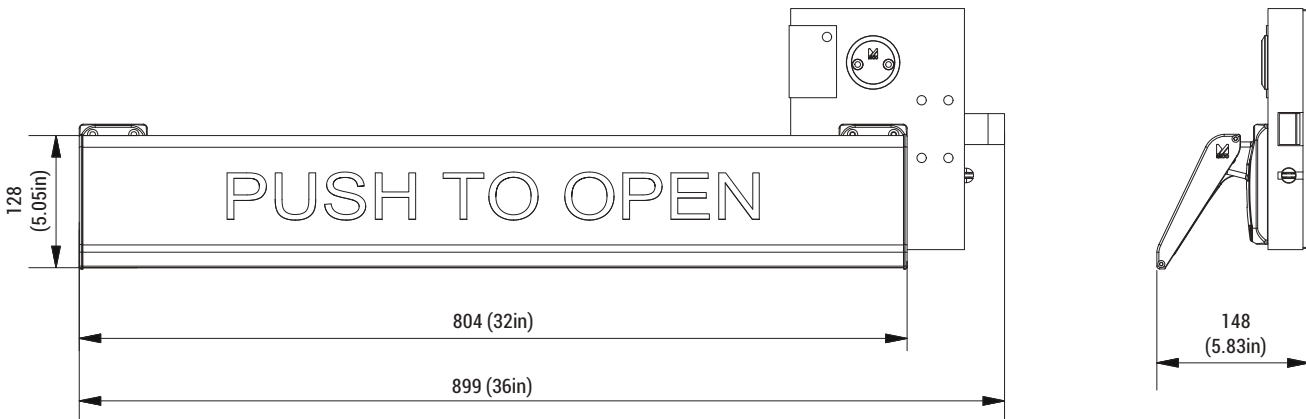
### ABRYLL TECHNICAL DRAWINGS



ABRYLL PANIC & EMERGENCY EXIT



ABRYLL PANIC BAR (TUBE)



ABRYLL PANIC BAR (BLADE)

The Tyne range is a high performance single-point locking system, with an extra deep backset for mortice fitting. Tested and certified to multiple international standards against forced entry, blast, and fire protection. Tyne has been engineered to suit multi-rebated doorsets. Multiple entry & exit methods make the range incredibly versatile and suitable for most applications.

Entry includes key, or access control with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.



## FEATURES

- 127mm (5") backset
- Self-handing and bi-directional
- Available for mortice fitting
- 40mm (1 1/2") x 15mm (5/8") bolt x 25mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Cycle tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

## BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

## OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |    |    |   |   |   |   |   |                | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|----|----|---|---|---|---|---|----------------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |    |    |   |   |   |   |   | ISSUE 7 SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B  | C  | D | E | F | G | H |                |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |    |    |   |   |   |   |   |                | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |    |    |   |   |   |   |   |                |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |    |    |   |   |   |   |   |                | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         | A5            | B5 | C5 |   |   |   |   |   |                | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |    |    |   |   |   |   |   |                | 15 MINS | RC2     | BR1     |        |     | UL 305  | FB4               | EXV 15          | CERTIFIRE | EN 1670:GR2 |                | 200K      |
| 1 MIN         |               |    |    |   |   |   |   |   |                | 5 MINS  | RC1     |         |        |     |         | FB3               |                 |           | EN 1670:GR1 |                |           |

## INSTALLATION

### SURFACE MOUNTED

For maximum strength

## ENTRY FUNCTION (OPTIONS)

### KEY & LEVER HANDLE

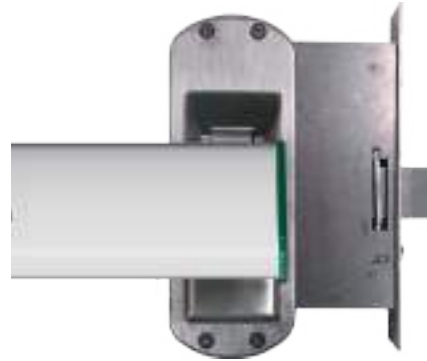
Key to unlock & lever handle to release

### ACCESS CONTROL

Access control to unlock & lever handle to release

### LOCKABLE OPERATOR

External key lockable lever handle/hasp for panic exits



PANIC AND EMERGENCY EXIT

## EXIT FUNCTION (OPTIONS)

### PANIC BAR

Life-safety panic exit

### EMERGENCY – PUSH PAD

Single operation exit

### EMERGENCY – LEVER HANDLE

Single operation exit

### KEY & LEVER HANDLE

Key to unlock & lever handle to release

### THUMBTURN & LEVER HANDLE

Thumbturn to unlock & lever handle to release

### BREAK DOME & LEVER HANDLE

Break dome & thumbturn to unlock & lever handle to release



KEY & LEVER HANDLE

### ACCESS CONTROL & LEVER HANDLE

Access control to unlock & lever handle to release

## LOCK FUNCTION (OPTIONS)

### AUTO DEADLOCKING

Automatic deadlocking upon door closure (Storeroom function)

### MANUAL DEADLOCKING

Manual deadlocking upon door closure (Classroom function)

### NO DEADLOCKING

Panic & emergency exit only

## BOLT FUNCTION (OPTIONS)

### AUTO BOLTING

Automatic bolting upon door closure



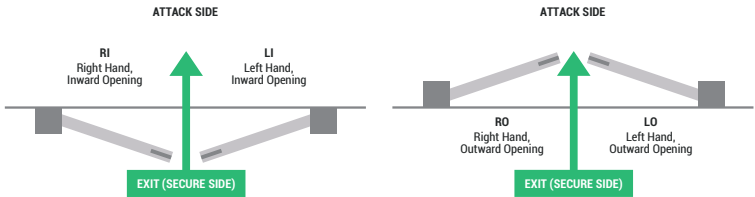
ACCESS CONTROL



SELF CODING SYSTEM

The Tyne (TY) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: TY1A-AMLS-AA-TMLS



| PRODUCT        |                 |       | ENTRY           |                                          | SECURING          |                                     | EXIT            |                                   |
|----------------|-----------------|-------|-----------------|------------------------------------------|-------------------|-------------------------------------|-----------------|-----------------------------------|
| RANGE          |                 | BOLTS | UNLOCKING       |                                          | UPON DOOR CLOSURE |                                     | UNLOCKING       |                                   |
| TY             | Tyne            | 1     | X               | None                                     | AA                | Auto bolting / Auto deadlocking     | X               | None                              |
| BOLT DIRECTION |                 |       | K               | Key                                      | AM                | Auto bolting / Manual deadlocking   | K               | Key                               |
| A              | Horizontal bolt |       | A               | Access control                           | MA                | Manual bolting / Auto deadlocking   | A               | Access control                    |
|                |                 |       | BOLT RETRACTION |                                          | MM                | Manual bolting / Manual deadlocking | T               | Thumbturn                         |
|                |                 |       | X               | None                                     |                   |                                     | L               | Single Handed / Panic - Emergency |
|                |                 |       | M               | Manual                                   |                   |                                     | BOLT RETRACTION |                                   |
|                |                 |       | OPERATOR        |                                          |                   |                                     | X               | None                              |
|                |                 |       | XX              | None                                     |                   |                                     | M               | Manual                            |
|                |                 |       | LS              |                                          |                   |                                     | OPERATOR        |                                   |
|                |                 |       | US              | Profile lever handle (Straight)          |                   |                                     | XX              | None                              |
|                |                 |       | UC              | Profile lever handle (Straight clutched) |                   |                                     | LS              | Lever handle (Tubular straight)   |
|                |                 |       |                 |                                          |                   |                                     | US              | Profile lever handle (Straight)   |
|                |                 |       |                 |                                          |                   |                                     | PB              | Panic bar (Blade aluminium)       |
| PP             | Push pad        |       |                 |                                          |                   |                                     |                 |                                   |
|                |                 |       |                 |                                          |                   |                                     | PE              | Panic bar (Tubular st/st)         |

EXAMPLE BOLT DIRECTIONS

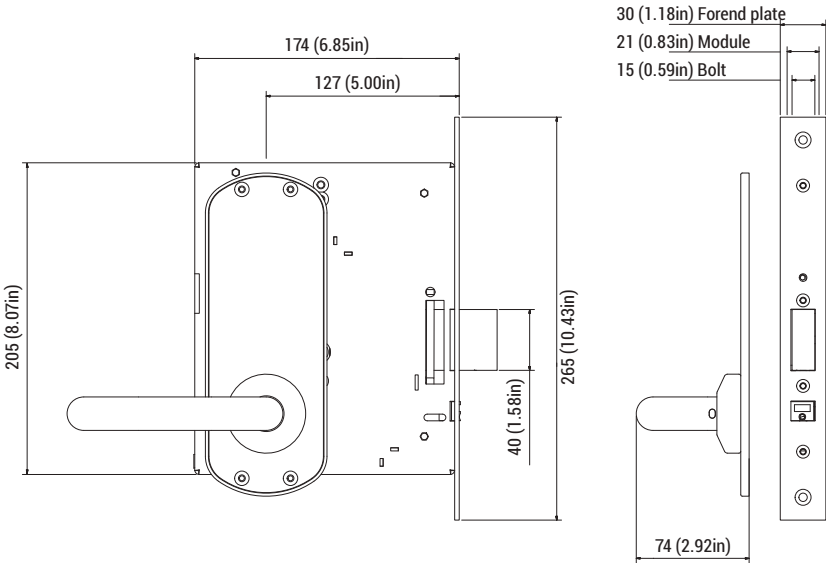
See coding chart above for reference

EXAMPLE ENTRY/EXIT DIRECTIONS

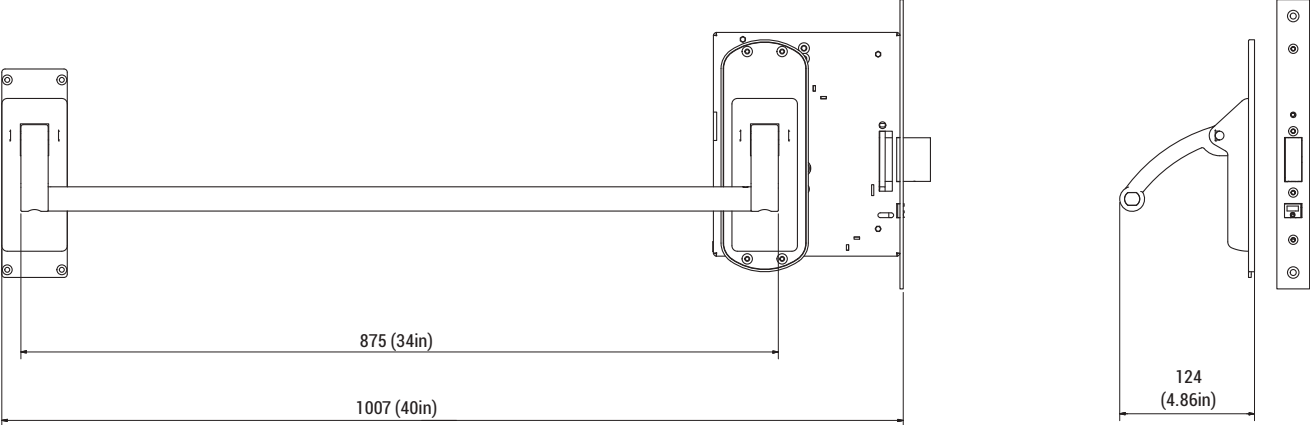
See coding chart above for reference

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

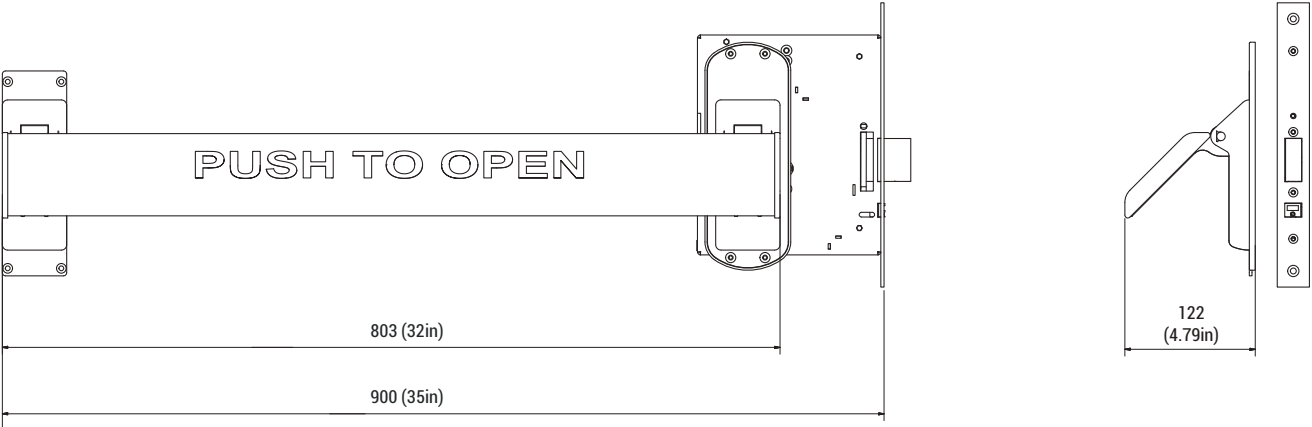
TYNE TECHNICAL DRAWINGS



TYNE PANIC & EMERGENCY EXIT



TYNE PANIC BAR (TUBE)



TYNE PANIC BAR (BLADE)

The Stirling range is a compact high performance single-point, surface mounted locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Stirling has been engineered to provide multiple entry & exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes single key operation to unlock and release, alternatively key or access control with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.



## FEATURES

- Surface mounted for maximum strength
- 19mm (3/4") square bolt x 25mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Cycle tested to over 1,000,000 cycles
- To suit rim and euro-profile cylinders (order cylinder separately)
- Steel template provides for fast installation

## BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality
- Easy retrofit, to upgrade existing doors

## OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key entry with no lever handle required
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Sandwich through-bolt fixing kits for easier retro-fit installation
- Bolt-through loadplate for cylinder guard installation

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |   |   |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION | SEISMIC TESTED | CYCLES         |             |
|---------------|-------|-----|-----|-----|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|
| ISSUE 8       |       |     |     |     |   |   |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |        |           |                |                |             |
| TIME          | TOOLS |     |     |     |   |   |   |         |           |         |         |        |        |        |                   |                 |        |           |                |                | SR 1-8      |
|               | A     | B   | C   | D   | E | F | G | H       |           |         |         |        |        |        |                   |                 |        |           |                |                |             |
| 20 MIN        |       |     |     |     |   |   |   |         | UP TO SR4 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25 | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |
| 15 MIN        |       |     |     |     |   |   |   |         |           |         | RC5     |        |        |        | EN 179            | FB6             |        | EXV 15    | EN 1634-1      |                | EN 1670:GR4 |
| 10 MIN        | A10   | B10 | C10 | D10 |   |   |   |         |           |         | RC4     | BR2    |        |        | FB5               | EN 1670:GR3     |        |           |                |                |             |
| 5 MIN         |       |     |     |     |   |   |   |         |           |         | RC3     | BR1    |        |        | FB4               | EN 1670:GR2     |        |           |                |                |             |
| 3 MIN         |       |     |     |     |   |   |   |         |           |         | RC2     |        |        |        | FB3               | EN 1670:GR1     |        |           |                |                |             |
| 1 MIN         |       |     |     |     |   |   |   |         |           |         | RC1     |        |        |        |                   |                 |        |           |                |                |             |

## ENTRY FUNCTION (OPTIONS)

- KEY DRIVEN** Key to unlock & release
- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- ACCESS CONTROL** Access control to unlock & lever handle to release
- MOTORISED** Single remote activation to unlock & release
- LOCKABLE OPERATOR** External key lockable lever handle/hasp for panic exits

## EXIT FUNCTION (OPTIONS)

- PANIC BAR** Life-safety panic exit
- EMERGENCY – PUSH PAD** Single operation exit
- EMERGENCY – LEVER HANDLE** Single operation exit
- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- THUMBTURN & LEVER HANDLE** Thumbturn to unlock & lever handle to release
- BREAK DOME & LEVER HANDLE** Break dome & thumbturn to unlock & lever handle to release
- ACCESS CONTROL & LEVER HANDLE** Access control to unlock & lever handle to release
- MOTORISED** Single remote activation to unlock & release

## LOCK FUNCTION (OPTIONS)

- AUTO DEADLOCKING** Automatic deadlocking upon door closure (Storeroom function)
- MANUAL DEADLOCKING** Manual deadlocking upon door closure (Classroom function)
- NO DEADLOCKING** Panic & emergency exit only

## BOLT FUNCTION (OPTIONS)

- AUTO BOLTING** Automatic bolting upon door closure



KEY & LEVER HANDLE



MOTORISED

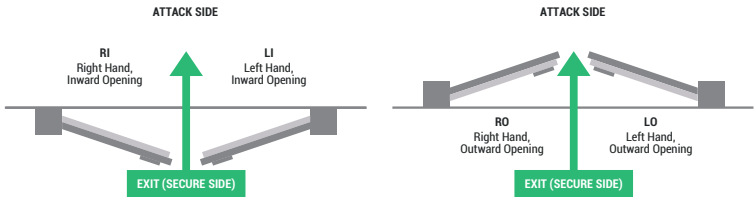


PANIC & EMERGENCY EXIT

SELF CODING SYSTEM

The Stirling (ST) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: ST1A-AMLS-AA-LMLS



| PRODUCT        |                 |       | ENTRY           |                                 |  | SECURING          |                                   |  | EXIT            |                                   |  |
|----------------|-----------------|-------|-----------------|---------------------------------|--|-------------------|-----------------------------------|--|-----------------|-----------------------------------|--|
| RANGE          |                 | BOLTS | UNLOCKING       |                                 |  | UPON DOOR CLOSURE |                                   |  | UNLOCKING       |                                   |  |
| ST             | Stirling        | 1     | X               | None                            |  | AA                | Auto bolting / Auto deadlocking   |  | X               | None                              |  |
| BOLT DIRECTION |                 |       | K               | Key                             |  | AM                | Auto bolting / Manual deadlocking |  | K               | Key                               |  |
| A              | Horizontal bolt |       | A               | Access control                  |  | AB                | Auto bolting only                 |  | A               | Access control                    |  |
|                |                 |       | BOLT RETRACTION |                                 |  |                   |                                   |  | T               | Thumbturn                         |  |
|                |                 |       | X               | None                            |  |                   |                                   |  | L               | Single Handed / Panic - Emergency |  |
|                |                 |       | M               | Manual                          |  |                   |                                   |  | BOLT RETRACTION |                                   |  |
|                |                 |       | P               | Powered (Electric)              |  |                   |                                   |  | X               | None                              |  |
|                |                 |       | OPERATOR        |                                 |  |                   |                                   |  | M               | Manual                            |  |
|                |                 |       | XX              | None                            |  |                   |                                   |  | P               | Powered (Electric)                |  |
|                |                 |       | LS              | Lever handle (Tubular straight) |  |                   |                                   |  | OPERATOR        |                                   |  |
|                |                 |       | US              | Profile lever handle (Straight) |  |                   |                                   |  | LS              | Lever handle (Tubular straight)   |  |
|                |                 |       | KK              | Key                             |  |                   |                                   |  | US              | Profile lever handle (Straight)   |  |
|                |                 |       |                 |                                 |  |                   |                                   |  |                 |                                   |  |
|                |                 |       |                 |                                 |  | PP                | Push pad                          |  |                 |                                   |  |
|                |                 |       |                 |                                 |  | PE                | Panic bar (Tubular st/st)         |  |                 |                                   |  |

EXAMPLE BOLT DIRECTIONS

See coding chart above for reference

No Bolts (1)  
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference

Entry (KMLS)  
Exit (KMLS)

Entry (KMLS)  
Exit (TMLS)

Entry (XMKK)  
Exit (LMLS)

Entry (AMLS)  
Exit (AMLS)

Entry (APXX)  
Exit (LMPB)

Entry (APXX)  
Exit (LMLS)

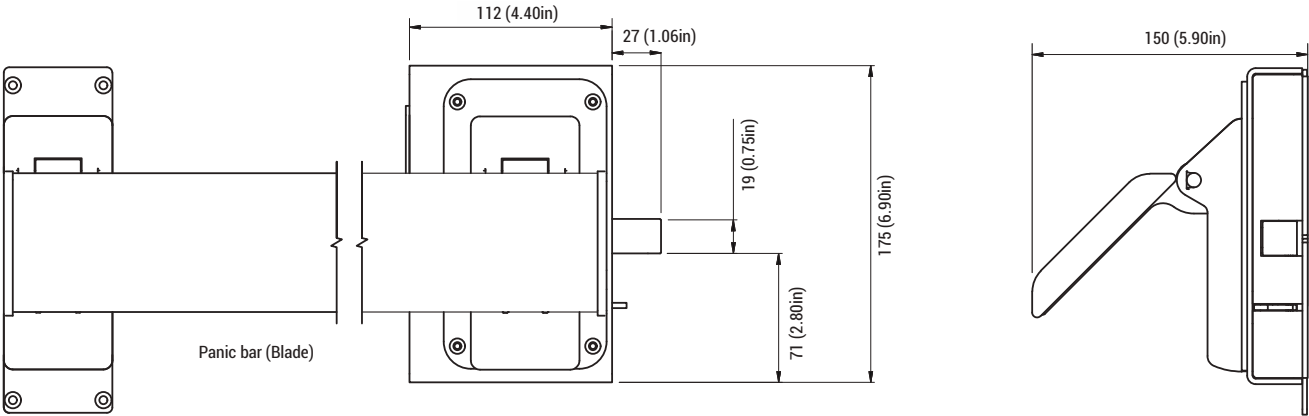
For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

STIRLING ACCESS CONTROL & MOTORISED POWER CONSUMPTION

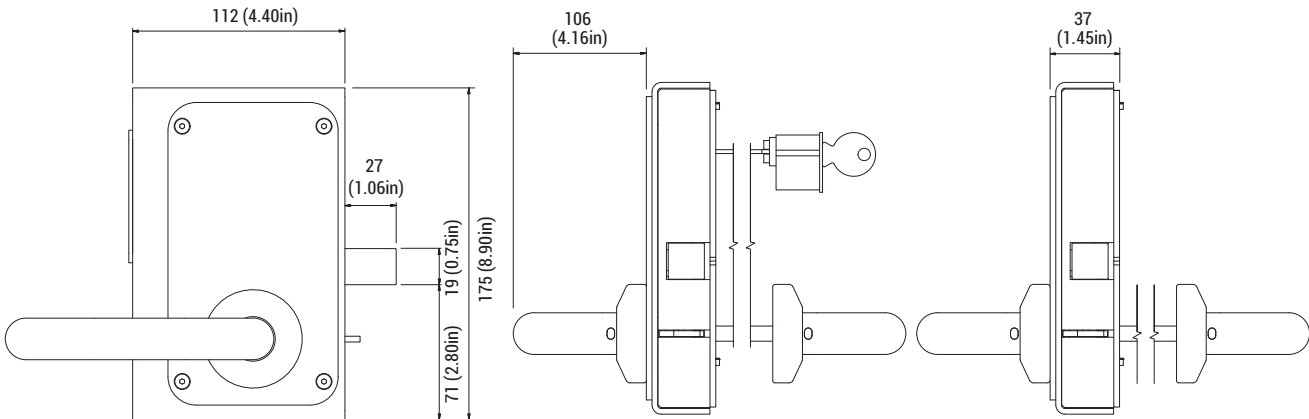
| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12V     | 7W                             | 0.6A                      | 12V 1.0A                 |
| 24V     | 7W                             | 0.3A                      | 24V 0.5A                 |

| VOLTAGE | POWER CONSUMPTION PER MOTOR | CURRENT DRAW PER MOTOR | RECOMMENDED POWER SUPPLY                                 |
|---------|-----------------------------|------------------------|----------------------------------------------------------|
| 24V     | 48W                         | 2A                     | 24V 2A (110V to 240V ac) Power supply provided with lock |

STIRLING TECHNICAL DRAWINGS

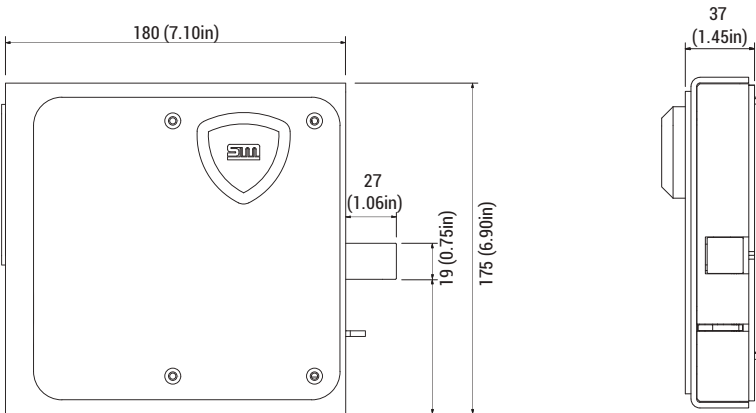


STIRLING PANIC & EMERGENCY EXIT



STIRLING KEY DRIVEN

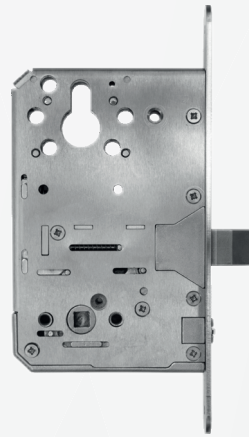
STIRLING KEY / ACCESS CONTROL & LEVER HANDLE



STIRLING MOTORISED

The Modula is a cost-effective high security single-point mortice lock that completely changes the performance expectations of standard 70mm backset locks. Modula has been engineered to provide multiple entry & exit methods, making it incredibly versatile and suitable for most applications.

Entry includes key, or access control with lever handle. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. The robust design and stainless steel construction of Modula will assist in protecting your facility and provide durability.



## FEATURES

- Unique design utilises partial latching prior to deadlocking
- Mortice mounted & retrofittable with selected Assa Abloy locksets
- 70mm (2 3/4") backset
- 20mm (3/4") x 15mm (5/8") bolt x 25mm (1") throw
- Stainless steel construction for corrosion resistance and durability
- Tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

## BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides a wide selection of operational functionality

## OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to enable exit
- Further enhancements are available

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |    |   |   |   |   |   |         |           | FEBR    | EN 1627 | STS 202                                                                                                            | PAS 24 | SRB | SAFETY                                                                                                         | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES    |             |
|---------------|-------|----|---|---|---|---|---|---------|-----------|---------|---------|--------------------------------------------------------------------------------------------------------------------|--------|-----|----------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-------------|-------------|----------------|-----------|-------------|
| ISSUE 8       |       |    |   |   |   |   |   | ISSUE 7 |           |         |         |                                                                                                                    |        |     |                                                                                                                |                   |                 |             |             |                |           |             |
| TIME          | TOOLS |    |   |   |   |   |   |         | SR 1-8    |         |         |                                                                                                                    |        |     |                                                                                                                |                   |                 |             |             |                |           |             |
|               | A     | B  | C | D | E | F | G | H       | UP TO SR2 | 60 MINS | RC6     | BR3                                                                                                                | PAS 24 | SRB | EN 1125                                                                                                        | FB7               | EXV 25          | UL 10C      | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |             |
| 20 MIN        |       |    |   |   |   |   |   |         |           | 15 MINS | RC5     | <th><th>EN 179</th><th>FB6</th><th rowspan="4">EXV 15</th><th>EN 1634-1</th><th>EN 1670:GR4</th><th>500K</th></th> |        |     | <th>EN 179</th> <th>FB6</th> <th rowspan="4">EXV 15</th> <th>EN 1634-1</th> <th>EN 1670:GR4</th> <th>500K</th> | EN 179            |                 | FB6         | EXV 15      |                | EN 1634-1 | EN 1670:GR4 |
| 10 MIN        |       |    |   |   |   |   |   |         |           | 30 MINS | RC3     | BR2                                                                                                                |        |     | EN 1670:GR3                                                                                                    | FB5               | EN 1670:GR2     | 200K        |             |                |           |             |
| 5 MIN         |       |    |   |   |   |   |   |         |           | 15 MINS | RC2     | BR1                                                                                                                |        |     | UL 305                                                                                                         | FB4               | CERTIFIRE       | EN 1670:GR1 |             |                |           |             |
| 3 MIN         | A3    | B3 |   |   |   |   |   |         |           | 5 MINS  | RC1     |                                                                                                                    |        |     |                                                                                                                |                   | FB3             |             |             |                |           |             |
| 1 MIN         |       |    |   |   |   |   |   |         |           |         |         |                                                                                                                    |        |     |                                                                                                                |                   |                 |             |             |                |           |             |

## ENTRY FUNCTION (OPTIONS)

- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- ACCESS CONTROL** Access control to unlock & lever handle to release

## EXIT FUNCTION (OPTIONS)

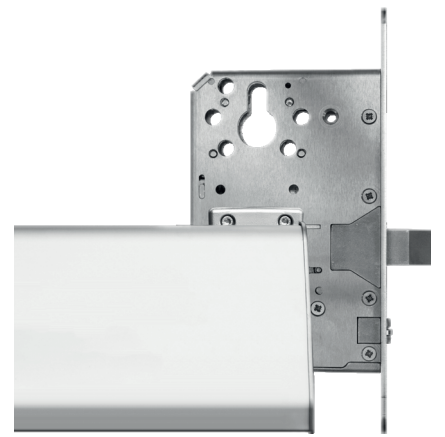
- PANIC BAR** Life-safety panic exit
- EMERGENCY – PUSH PAD** Single operation exit
- EMERGENCY – LEVER HANDLE** Single operation exit
- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- THUMBTURN & LEVER HANDLE** Thumbturn to unlock & lever handle to release
- BREAK DOME & LEVER HANDLE** Break dome & thumbturn to unlock & lever handle to release
- ACCESS CONTROL & LEVER HANDLE** Access control to unlock & lever handle to release

## LOCK FUNCTION (OPTIONS)

- AUTO DEADLOCKING** Automatic deadlocking upon door closure (Storeroom function)
- MANUAL DEADLOCKING** Manual deadlocking upon door closure (Classroom function)
- NO DEADLOCKING** Panic & emergency exit only

## BOLT FUNCTION (OPTIONS)

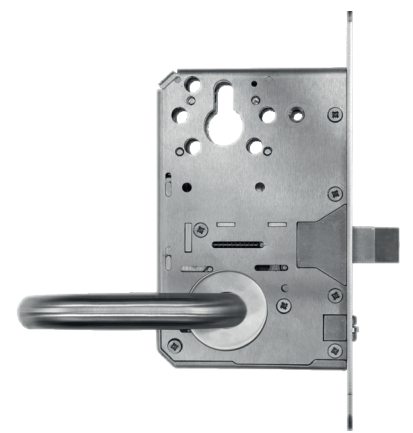
- AUTO BOLTING** Automatic bolting upon door closure



PANIC & EMERGENCY EXIT



KEY & LEVER HANDLE



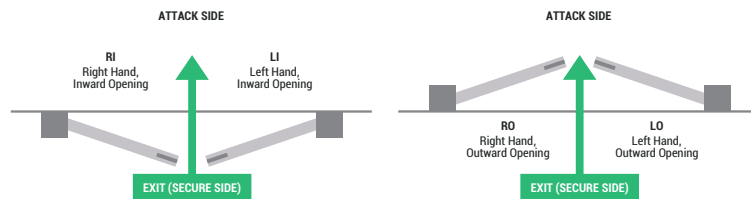
ACCESS CONTROL



## SELF CODING SYSTEM

The Modula (MA) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

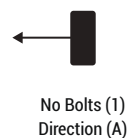
EXAMPLE ORDER CODE: MA1A-KMLS-AM-KMLS



| PRODUCT        |                 |       | ENTRY                     |                                 | SECURING          |                                   | EXIT            |                                   |
|----------------|-----------------|-------|---------------------------|---------------------------------|-------------------|-----------------------------------|-----------------|-----------------------------------|
| RANGE          |                 | BOLTS | UNLOCKING                 |                                 | UPON DOOR CLOSURE |                                   | UNLOCKING       |                                   |
| MA             | Modula          | 1     | X                         | None                            | AA                | Auto bolting / Auto deadlocking   | X               | None                              |
| BOLT DIRECTION |                 |       | K                         | Key                             | AM                | Auto bolting / Manual deadlocking | K               | Key                               |
| A              | Horizontal bolt |       | A                         | Access control                  | AB                | Auto bolting only                 | A               | Access control                    |
|                |                 |       | BOLT RETRACTION           |                                 |                   |                                   | T               | Thumbturn                         |
|                |                 |       | X                         | None                            |                   |                                   | L               | Single Handed / Panic - Emergency |
|                |                 |       | M                         | Manual                          |                   |                                   | BOLT RETRACTION |                                   |
|                |                 |       | OPERATOR                  |                                 |                   |                                   | X               | None                              |
|                |                 |       | XX                        | None                            |                   |                                   | M               | Manual                            |
|                |                 |       | LS                        | Lever handle (Tubular straight) |                   |                                   | OPERATOR        |                                   |
|                |                 |       | US                        | Profile lever handle (Straight) |                   |                                   | XX              | None                              |
|                |                 |       |                           |                                 |                   |                                   | LS              | Lever handle (Tubular straight)   |
|                |                 |       |                           |                                 |                   |                                   | US              | Profile lever handle (Straight)   |
|                |                 |       |                           |                                 |                   |                                   | PB              | Panic bar (Blade aluminium)       |
|                |                 | PP    | Push pad                  |                                 |                   |                                   |                 |                                   |
|                |                 | PE    | Panic bar (Tubular st/st) |                                 |                   |                                   |                 |                                   |

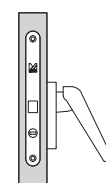
### EXAMPLE BOLT DIRECTIONS

See coding chart above for reference

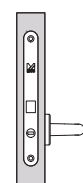


### EXAMPLE ENTRY/EXIT DIRECTIONS

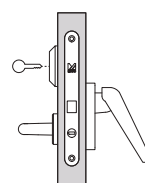
See coding chart above for reference



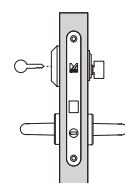
Entry (XXXX)  
Exit (LMPB)



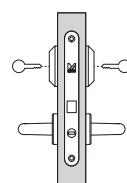
Entry (XXXX)  
Exit (LMLS)



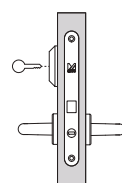
Entry (KMLS)  
Exit (LMPB)



Entry (KMLS)  
Exit (TMLS)



Entry (KMLS)  
Exit (KMLS)



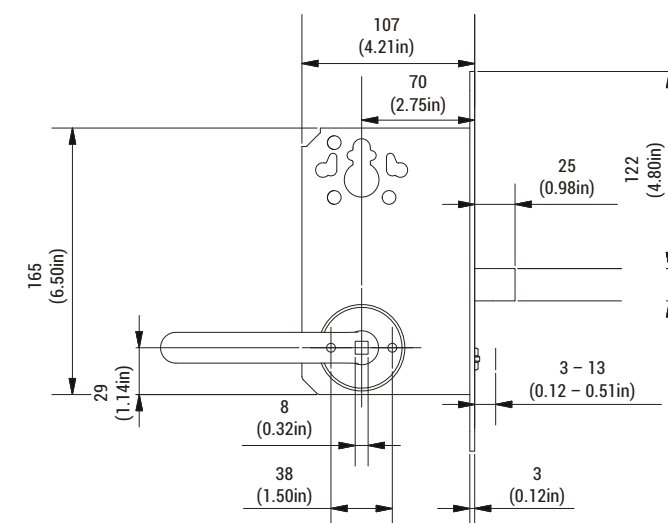
Entry (KMLS)  
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

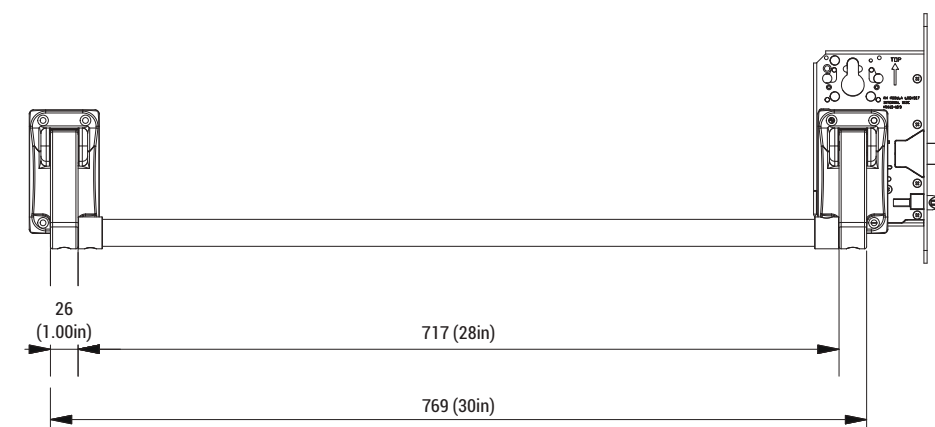
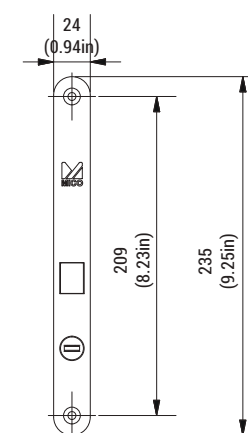
## MODULA ACCESS CONTROL POWER CONSUMPTION

| VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|---------|--------------------------------|---------------------------|--------------------------|
| 12V     | 10W                            | 0.8A                      | 12V 1.5A                 |

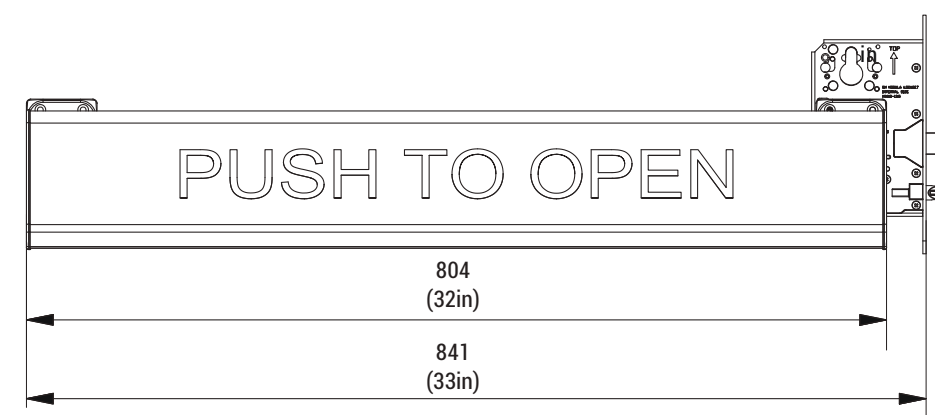
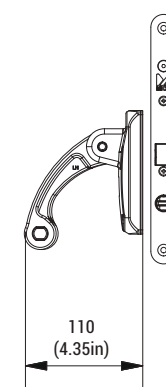
## MODULA TECHNICAL DRAWINGS



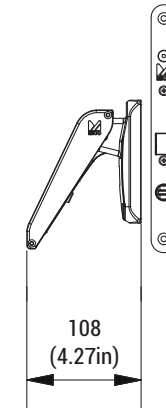
MODULA PANIC & EMERGENCY EXIT



MODULA PANIC BAR



MODULA PANIC BAR (BLADE)



The MSR is a cost-effective single-point bolting device, designed for commercial doors securing high-value sites.

Single motion release by lever handle or panic bar, making this device suitable to secure exit doors and provide life-safety egress. An optional external trim provides key entry for authorized personnel. The robust design and stainless steel construction of 'MSR' will assist in protecting your facility and provide durability.



## FEATURES

- Surface mounted for maximum strength
- 20mm (3/4") x 16.5mm (5/8") central bolt x 20mm (3/4") throw
- Stainless steel construction for corrosion resistance and durability
- Cycle tested to over 500,000 cycles

## BENEFITS

- Cost-effective
- Door automatically secured against physical attack
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service

## OPTIONAL ENHANCEMENTS

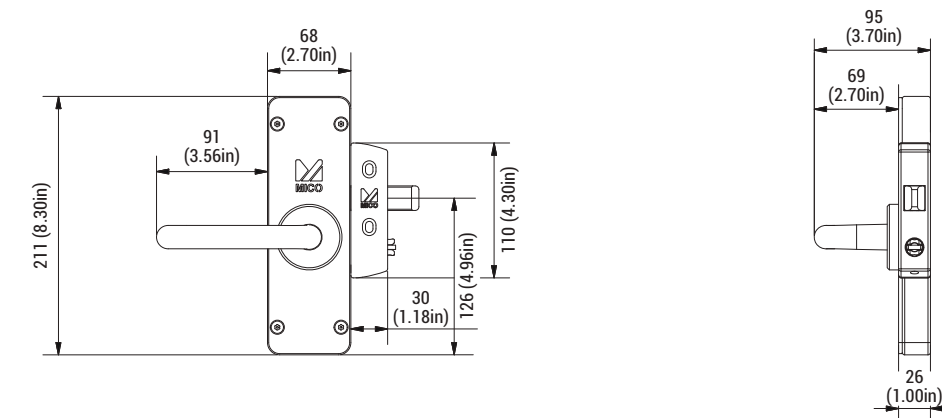
- Monitoring of bolt status
- External lockable trim to provide key entry for authorized personnel
- Further enhancements are available

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |    |   |   |   |   |   |   |         | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES |
|---------------|---------------|----|---|---|---|---|---|---|---------|------|---------|---------|--------|-----|--------|-------------------|-----------------|------|-----------|----------------|--------|
| TIME          | ISSUE 8 TOOLS |    |   |   |   |   |   |   | ISSUE 7 |      |         |         |        |     |        |                   |                 |      |           |                |        |
|               | A             | B  | C | D | E | F | G | H | SR 1-8  |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 20 MIN        |               |    |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 15 MIN        |               |    |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 10 MIN        |               |    |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 5 MIN         |               |    |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 3 MIN         | A3            | B3 |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 1 MIN         |               |    |   |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |

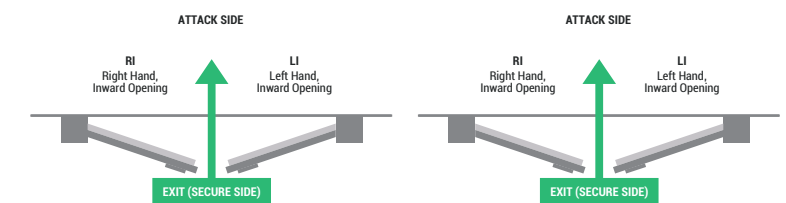
## MSR SINGLE-POINT TECHNICAL DRAWING



## SELF CODING SYSTEM

The MSR (MS) has simple ordering codes that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MS1A-XXXX-AB-LMPB



| PRODUCT        |                 |       | ENTRY           |                               |    | SECURING          |                   |  | EXIT                      |                                   |      |
|----------------|-----------------|-------|-----------------|-------------------------------|----|-------------------|-------------------|--|---------------------------|-----------------------------------|------|
| RANGE          |                 | BOLTS | UNLOCKING       |                               |    | UPON DOOR CLOSURE |                   |  | UNLOCKING                 |                                   |      |
| MS             | MSR             | 1     | X               | None                          |    | AB                | Auto bolting only |  |                           | X                                 | None |
| BOLT DIRECTION |                 |       | H               | Lockable handle (Key/Padlock) |    |                   |                   |  | L                         | Single Handed / Panic - Emergency |      |
| A              | Horizontal bolt |       | BOLT RETRACTION |                               |    |                   |                   |  | BOLT RETRACTION           |                                   |      |
|                |                 |       | X               | None                          |    |                   |                   |  | M                         | Manual                            |      |
|                |                 |       | M               | Manual                        |    |                   |                   |  | OPERATOR                  |                                   |      |
|                |                 |       | OPERATOR        |                               |    |                   |                   |  | LS                        | Lever handle (Tubular straight)   |      |
|                |                 |       | XX              | None                          |    |                   |                   |  | US                        | Profile lever handle (Straight)   |      |
|                |                 |       | LH              | Lockable handle               |    |                   |                   |  | PB                        | Panic bar (Blade aluminium)       |      |
|                |                 |       |                 |                               |    |                   |                   |  |                           |                                   | PP   |
|                |                 |       |                 |                               | PE |                   |                   |  | Panic bar (Tubular st/st) |                                   |      |

## EXAMPLE BOLT DIRECTIONS

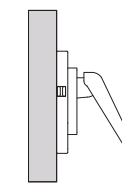
See coding chart above for reference



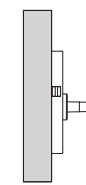
No Bolts (1)  
Direction (A)

## EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (XXXX)  
Exit (LMPB)



Entry (XXXX)  
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Loddon is a heavy duty rim deadlock with external key entry and single operation egress for inward opening doors. Through-bolt mounting of the lock body, passing through the door into the external cylinder housing, provides for maximum strength and security.

Compatible with key cylinders from all leading manufacturers. Ideal for new doors, or as a security upgrade to exiting doors and includes keeps. The robust design and stainless steel construction of Loddon will assist in protecting your facility and provide durability.



### FEATURES

- Surface mounted for maximum strength
- Automatic securement upon door closure
- 25mm (1") x 11mm (3/8") bolt x 25mm (1") throw
- Retrofit/Security upgrade of Ingersoll rim locks, includes stainless steel escutcheon plate to cover previous lock mountings
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- To suit rim cylinders (order cylinder separately)

### BENEFITS

- Door automatically secured in closed position
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Popular retrofit, to upgrade existing doors

### OPTIONAL ENHANCEMENTS

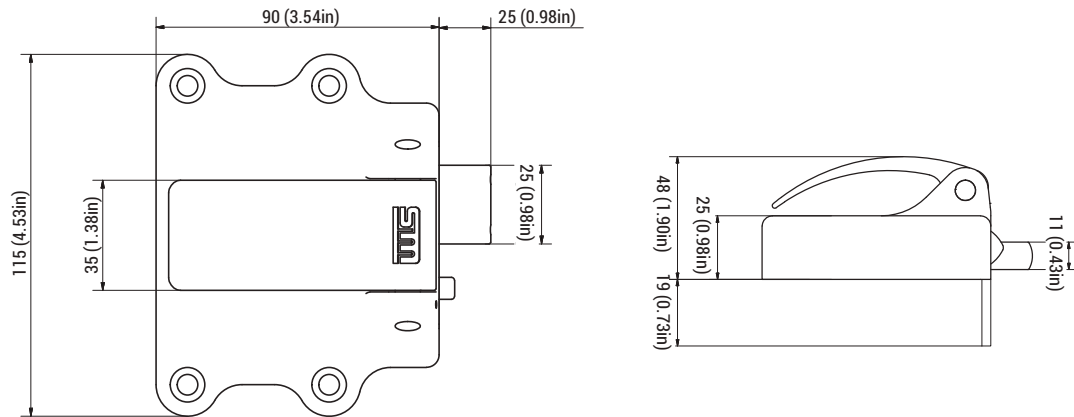
- Ingersoll cylinder profile housing & protector (accepts KIK type cylinder from leading manufacturers)
- Bolt dogging (manual hold-back facility)
- External lockdown facility
- Cylinder guard protection available from our tested and accredited range

### PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

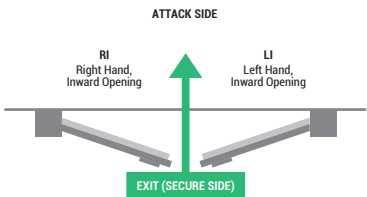
| LPCB LPS 1175 |       |    |   |   |   |   |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION | SEISMIC TESTED | CYCLES         |             |      |
|---------------|-------|----|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|------|
| ISSUE 8       |       |    |   |   |   |   |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |        |           |                |                |             |      |
| TIME          | TOOLS |    |   |   |   |   |   |         |           |         |         |        |        |        |                   |                 |        |           |                |                | SR 1-8      |      |
|               | A     | B  | C | D | E | F | G | H       | UP TO SR2 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25 | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |      |
| 20 MIN        |       |    |   |   |   |   |   |         |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             |        | EXV 15    | EN 1634-1      |                | EN 1670:GR4 | 500K |
| 15 MIN        |       |    |   |   |   |   |   |         |           | 30 MINS | RC3     |        |        |        | FB5               | EN 1670:GR3     |        |           |                |                |             |      |
| 10 MIN        |       |    |   |   |   |   |   |         |           | 15 MINS | RC2     | BR1    |        |        | UL 305            | FB4             |        | CERTIFIRE | EN 1670:GR2    |                | 200K        |      |
| 5 MIN         |       |    |   |   |   |   |   |         |           | 5 MINS  | RC1     |        |        |        | FB3               | EN 1670:GR1     |        |           |                |                |             |      |
| 3 MIN         | A3    | B3 |   |   |   |   |   |         |           |         |         |        |        |        |                   |                 |        |           |                |                |             |      |
| 1 MIN         |       |    |   |   |   |   |   |         |           |         |         |        |        |        |                   |                 |        |           |                |                |             |      |

### LODDON TECHNICAL DRAWING



### SELF CODING SYSTEM

The Loddon (LO) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

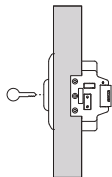


EXAMPLE ORDER CODE: LO1A-KMKK-AA-LMPL

| PRODUCT        |                 | ENTRY           |        | SECURING          |                                 | EXIT            |                                   |
|----------------|-----------------|-----------------|--------|-------------------|---------------------------------|-----------------|-----------------------------------|
| RANGE          | BOLTS           | UNLOCKING       |        | UPON DOOR CLOSURE |                                 | UNLOCKING       |                                   |
| LO Loddon      | 1               | K               | Key    | AA                | Auto bolting / Auto deadlocking | L               | Single Handed / Panic - Emergency |
| BOLT DIRECTION |                 | BOLT RETRACTION |        |                   |                                 | BOLT RETRACTION |                                   |
| A              | Horizontal bolt | M               | Manual |                   |                                 | M               | Manual                            |
|                |                 | OPERATOR        |        |                   |                                 | OPERATOR        |                                   |
|                |                 | KK              | Key    |                   |                                 | PL              | Pull lever                        |

### EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (KMKK)  
Exit (LMPL)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Rimlock is the most popular key entry device for medium security applications. The Rimlock is self-handed, bi-directional, compatible with rim cylinders from all leading manufacturers and providing latching and auto-deadlocking upon door closure.

Exit by thumbturn, or optional key control. The robust design and stainless steel construction of the Rimlock will assist in protecting your facility and provide durability.



FEATURES

- Surface mounted for maximum strength
- Self-handing and bi-directional
- Automatic securement upon door closure
- 25mm (1") x 16mm (5/8") bolt x 25mm (1") throw
- Stainless steel construction for corrosion resistance and durability
- Cycle tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Choice to manually or automatically secure upon door closure
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Supplied with mounting plate and outward opening strike plate as standard
- Popular retrofit, to upgrade existing doors

OPTIONAL ENHANCEMENTS

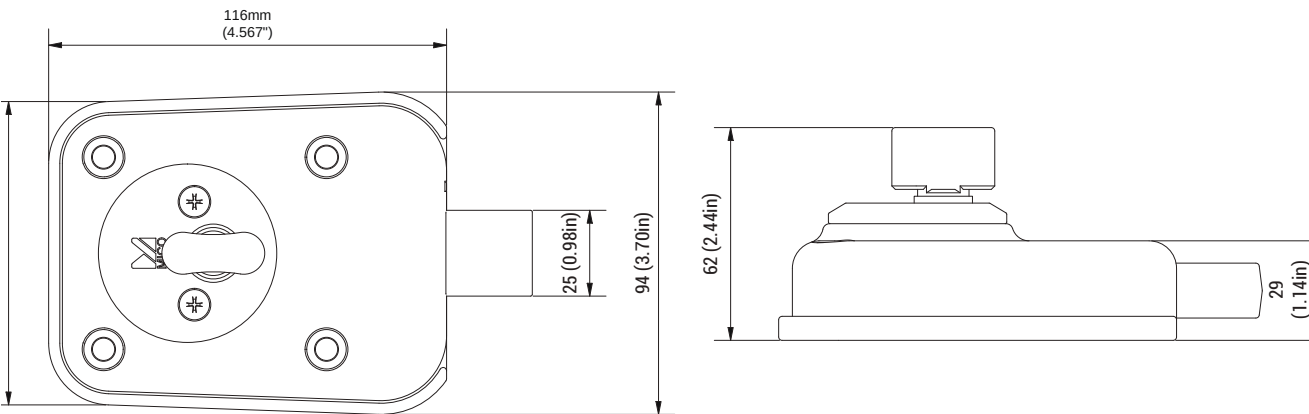
- Monitoring of lock status
- Breakdome over thumbturn
- Bolt dogging (manual hold-back facility)
- Cylinder guard protection available from our tested and accredited range

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |    |   |   |   |   |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION | SEISMIC TESTED | CYCLES         |           |
|---------------|-------|----|---|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-----------|
| ISSUE 8       |       |    |   |   |   |   |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |             |           |                |                |           |
| TIME          | TOOLS |    |   |   |   |   |   |         |           |         |         |        |        |        |                   |                 |             |           |                |                | SR 1-8    |
|               | A     | B  | C | D | E | F | G | H       |           |         |         |        |        |        |                   |                 |             |           |                |                |           |
| 20 MIN        |       |    |   |   |   |   |   |         | UP TO SR2 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25      | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |       |    |   |   |   |   |   |         |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             | EXV 15      | EN 1634-1 | EN 1670:GR4    |                | 200K      |
| 10 MIN        |       |    |   |   |   |   |   |         |           | 30 MINS | RC3     |        |        |        | FB5               | EN 1670:GR3     |             |           |                |                |           |
| 5 MIN         |       |    |   |   |   |   |   |         |           | 15 MINS | RC2     | BR1    |        |        | UL 305            | FB4             | EN 1670:GR2 | 200K      |                |                |           |
| 3 MIN         | A3    | B3 |   |   |   |   |   |         |           | 5 MINS  | RC1     |        |        |        | FB3               | EN 1670:GR1     |             |           |                |                |           |
| 1 MIN         |       |    |   |   |   |   |   |         |           |         |         |        |        |        |                   |                 |             |           |                |                |           |

RIMLOCK TECHNICAL DRAWING



SELF CODING SYSTEM

The Rimlock (RM) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: RM1A-KMKK-AA-TMTN

| PRODUCT        |                 |                 | ENTRY     |          | SECURING                            |                                 | EXIT      |     |
|----------------|-----------------|-----------------|-----------|----------|-------------------------------------|---------------------------------|-----------|-----|
| RANGE          |                 | BOLTS           | UNLOCKING |          | UPON DOOR CLOSURE                   |                                 | UNLOCKING |     |
| RM             | Rimlock         | 1               | K         | Key      | AA                                  | Auto bolting / Auto deadlocking | K         | Key |
| BOLT DIRECTION |                 | BOLT RETRACTION |           | MM       | Manual bolting / Manual deadlocking | T                               | Thumbturn |     |
| A              | Horizontal bolt |                 | M         | Manual   |                                     | BOLT RETRACTION                 |           |     |
|                |                 | OPERATOR        |           | M        |                                     | Manual                          |           |     |
|                |                 | KK              | Key       | OPERATOR |                                     |                                 |           |     |
|                |                 |                 |           | KK       |                                     | Key                             |           |     |
|                |                 |                 |           |          |                                     | TN                              | Thumbturn |     |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



The Ribble is an anti-tamper cabinet lock, providing a high level of protection against surreptitious breach. Dual mounting footprint provides for retrofit of UK and International combination locks.

Accommodates selected profile cylinders from a choice of major manufacturers. Cylinders are keyed to a unique differ and each with two keys. A choice of cylinder protection guards are available to suit cabinet dimensions and cylinder projection.



FEATURES

- Surface mounted for maximum strength
- Dual UK & International combination lock retrofit mounting
- 25mm (1") x 9mm (3/8") bolt x 10mm (3/8") throw
- Tested to over 1,000,000 cycles
- To suit profile cylinder (order cylinder separately)

BENEFITS

- Key retained in unlocked position
- Engineered for longevity and trouble-free service
- Popular retrofit, replacing existing combination locks

OPTIONAL ENHANCEMENTS

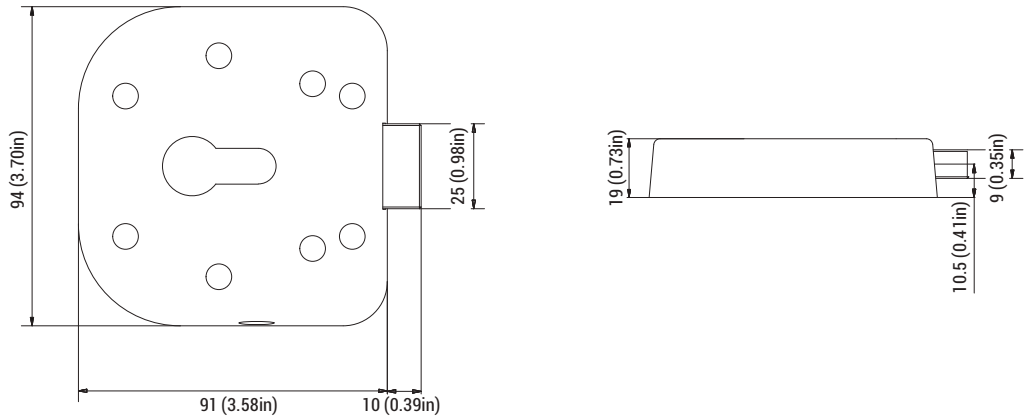
- Choice of cylinder projection guards
- Double sided key/key or key/thumbturn cylinders available (order separately)
- Deadlock status monitoring

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |   |   |   |   |   |   |         | ISSUE 7 | FEBR    | EN 1627     | STS 202     | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|-------|---|---|---|---|---|---|---------|---------|---------|-------------|-------------|--------|-----|---------|-------------------|-----------------|-------------|-------------|----------------|-----------|
| ISSUE 8       |       |   |   |   |   |   |   |         |         |         |             |             |        |     |         |                   |                 |             |             |                |           |
| TIME          | TOOLS |   |   |   |   |   |   |         |         |         |             |             |        |     |         |                   |                 |             |             |                |           |
|               | A     | B | C | D | E | F | G | H       | SR 1-8  |         |             |             |        |     |         |                   |                 |             |             |                |           |
| 20 MIN        |       |   |   |   |   |   |   |         | NONE    | 60 MINS | RC6         | BR3         | PAS 24 | SRB | EN 1125 | FB7               | EXV 25          | UL 10C      | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |       |   |   |   |   |   |   | 45 MINS |         | RC4     | BR2         |             |        |     |         |                   |                 |             |             |                |           |
| 10 MIN        |       |   |   |   |   |   |   | 30 MINS |         | RC3     |             | BR1         |        |     | UL 305  | FB5               | EXV 15          | EN 1670:GR3 |             |                |           |
| 5 MIN         |       |   |   |   |   |   |   | 15 MINS |         | RC2     | EN 1670:GR2 |             |        |     |         |                   |                 |             |             |                |           |
| 3 MIN         |       |   |   |   |   |   |   | 5 MINS  |         | RC1     |             | EN 1670:GR1 |        |     |         |                   |                 |             |             |                |           |
| 1 MIN         |       |   |   |   |   |   |   |         |         |         |             |             |        |     |         |                   |                 |             |             |                |           |

RIBBLE TECHNICAL DRAWING



SELF CODING SYSTEM

The Ribble (RL) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: RB1A-KMKK-MM-XXXX

| PRODUCT        |                 |       | ENTRY           |        | SECURING          |                                     | EXIT            |           |
|----------------|-----------------|-------|-----------------|--------|-------------------|-------------------------------------|-----------------|-----------|
| RANGE          |                 | BOLTS | UNLOCKING       |        | UPON DOOR CLOSURE |                                     | UNLOCKING       |           |
| RB             | Ribble          | 1     | K               | Key    | MM                | Manual bolting / Manual deadlocking | X               | None      |
| BOLT DIRECTION |                 |       | BOLT RETRACTION |        |                   |                                     | K               | Key       |
| A              | Horizontal bolt |       | M               | Manual |                   |                                     | T               | Thumbturn |
|                |                 |       | OPERATOR        |        |                   |                                     | BOLT RETRACTION |           |
|                |                 |       | KK              | Key    |                   |                                     | X               | None      |
|                |                 |       |                 |        |                   |                                     | M               | Manual    |
|                |                 |       |                 |        |                   |                                     | OPERATOR        |           |
|                |                 |       |                 |        |                   |                                     | XX              | None      |
|                |                 |       |                 |        |                   |                                     | KK              | Key       |
|                |                 |       |                 |        |                   |                                     | TN              | Thumbturn |

EXAMPLE BOLT DIRECTIONS

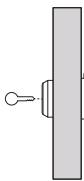
See coding chart above for reference



No Bolts (1)  
Direction (A)

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



Entry (KMKK)  
Exit (XXXX)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

MULTI-POINT  
LOCKING  
SYSTEMS







\* - When tested on selected doorsets

The Slimline range is a high performance multi-point locking system, tested and certified to multiple international standards against forced entry, blast, ballistic and fire protection. Slimline has been engineered to provide multiple entry and exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control, or combination lock with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or life-safety panic/emergency exit is available to meet a wide range of egress requirements. Manufactured in 316 stainless steel for hostile environments and durability.

## FEATURES

- Available for mortice, or surface mounted
- 2 to 7 point bolting positions\*
- 15mm (5/8") bolts x 25mm (1") throw
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Cycle tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

## BENEFITS

- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

## OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Further enhancements are available

\*Single-Point available

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |     |     |     |     |    |    |   |                | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|-----|-----|-----|-----|----|----|---|----------------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |     |     |     |     |    |    |   | ISSUE 7 SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B   | C   | D   | E   | F  | G  | H |                |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |     |     |     |     |    |    |   |                | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |     |     |     |     |    |    |   |                | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 10 MIN        | A10           | B10 | C10 | D10 | E10 |    |    |   |                | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 5 MIN         |               |     |     |     |     | F5 | G5 |   |                | 15 MINS | RC2     |         |        |     | UL 305  | FB4               | EXV 15          | CERTIFIRE | EN 1670:GR2 |                | 200K      |
| 3 MIN         |               |     |     |     |     |    |    |   |                | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 |           | EN 1670:GR1 |                |           |
| 1 MIN         |               |     |     |     |     |    |    |   |                |         |         |         |        |     |         |                   |                 |           |             |                |           |



## ENTRY FUNCTION (OPTIONS)

- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- ACCESS CONTROL** Access control to unlock & lever handle to release
- MOTORISED** Single remote activation to unlock & release
- COMBINATION LOCK** Combination to unlock & lever handle to release
- LOCKABLE OPERATOR** External key lockable lever handle/hasp for panic exits

## EXIT FUNCTION (OPTIONS)

- PANIC BAR** Life-safety panic exit
- EMERGENCY – PUSH PAD** Single operation exit
- EMERGENCY – LEVER HANDLE** Single operation exit
- KEY & LEVER HANDLE** Key to unlock & lever handle to release
- THUMBTURN & LEVER HANDLE** Thumbturn to unlock & lever handle to release
- BREAK DOME & LEVER HANDLE** Break dome & thumbturn to unlock & lever handle to release
- ACCESS CONTROL & LEVER HANDLE** Access control to unlock & lever handle to release
- MOTORISED** Single remote activation to unlock & release

## LOCK FUNCTION (OPTIONS)

- AUTO DEADLOCKING** Automatic deadlocking upon door closure (Storeroom function)
- MANUAL DEADLOCKING** Manual deadlocking upon door closure (Classroom function)
- NO DEADLOCKING** Panic & emergency exit only

## BOLT FUNCTION (OPTIONS)

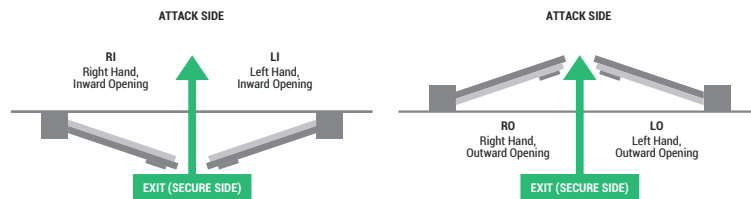
- AUTO BOLTING** Automatic bolting upon door closure
- MANUAL BOLTING** Manual bolting



## SELF CODING SYSTEM

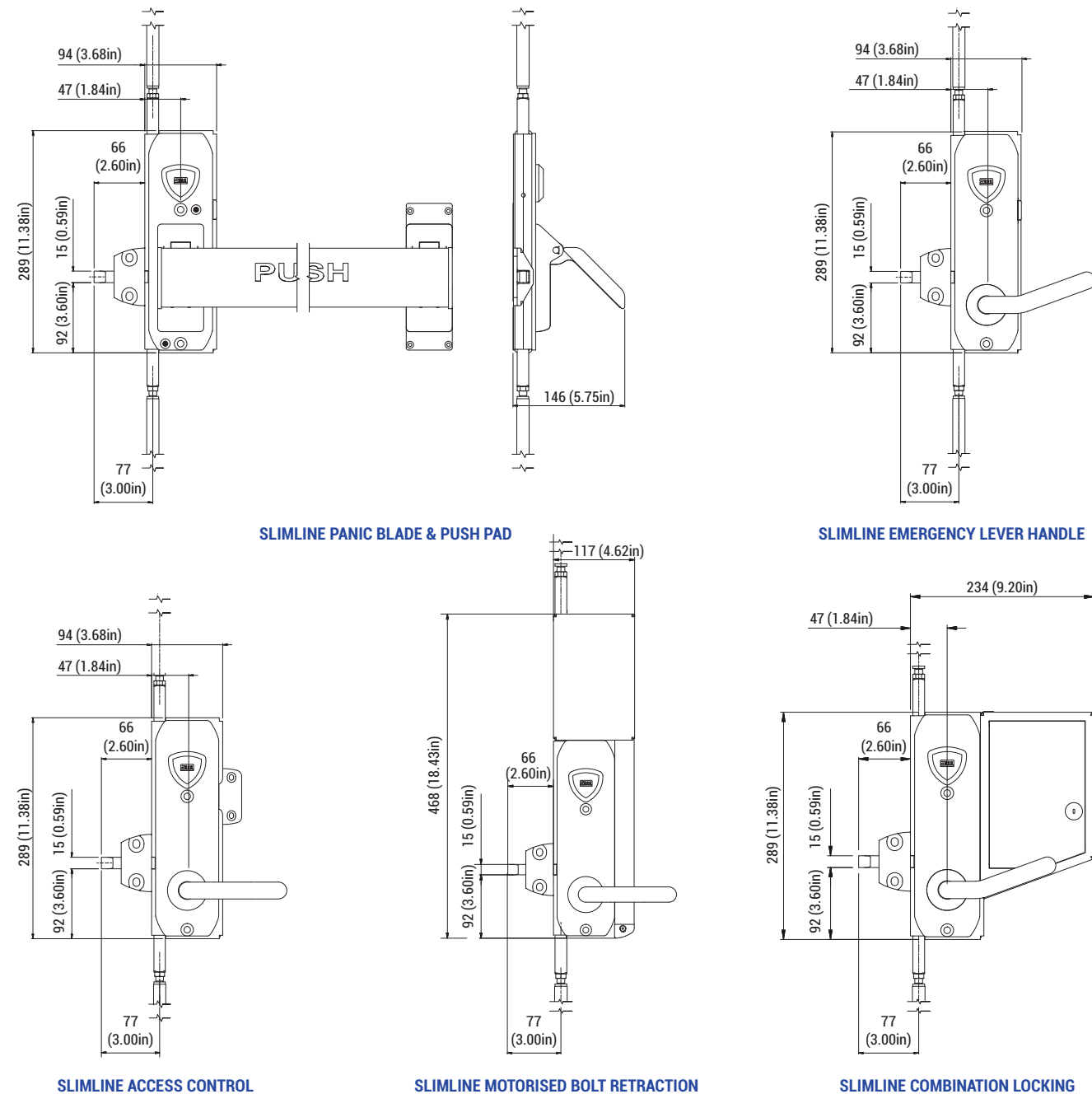
The Slimline (SL) and mortice version (SM) have simple ordering codes that cover the chosen methods of entry and exit, followed by the mounting and orientation codes. Additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: SL3A-AMLS-AA-LMLE



| PRODUCT               |                                 | ENTRY                  |                                    | SECURING          |                                     | EXIT                   |                                    |
|-----------------------|---------------------------------|------------------------|------------------------------------|-------------------|-------------------------------------|------------------------|------------------------------------|
| RANGE                 | BOLTS                           | UNLOCKING              |                                    | UPON DOOR CLOSURE |                                     | UNLOCKING              |                                    |
| SL                    | Surface                         | 2-7                    | X None                             | AA                | Auto bolting / Auto deadlocking     | X                      | None                               |
| SM                    | Mortice                         | 2-7                    | K Key                              | AM                | Auto bolting / Manual deadlocking   | K                      | Key                                |
| <b>BOLT DIRECTION</b> |                                 | H                      | Lockable handle (Key / Padlock)    | AB                | Auto bolting only                   | A                      | Access control                     |
| A                     | Vertical bolts, Horizontal bolt | A                      | Access control                     | MA                | Manual bolting / Auto deadlocking   | T                      | Thumbturn                          |
| B-E                   | Other variants                  | C                      | Combination                        | MM                | Manual bolting / Manual deadlocking | L                      | Single Handed / Panic - Emergency  |
|                       |                                 | L                      | Single Handed / Panic - Emergency  | MB                | Manual bolting only                 | <b>BOLT RETRACTION</b> |                                    |
|                       |                                 | <b>BOLT RETRACTION</b> |                                    |                   |                                     | X                      | None                               |
|                       |                                 | X                      | None                               |                   |                                     | M                      | Manual                             |
|                       |                                 | M                      | Manual                             |                   |                                     | P                      | Powered (Electric)                 |
|                       |                                 | P                      | Powered (Electric)                 |                   |                                     | <b>OPERATOR</b>        |                                    |
|                       |                                 | <b>OPERATOR</b>        |                                    |                   |                                     | XX                     | None                               |
|                       |                                 | XX                     | None                               |                   |                                     | LS                     | Lever handle (Tubular straight)    |
|                       |                                 | LS                     | Lever handle (Tubular straight)    |                   |                                     | LE                     | Lever handle (Tubular ergonomic)   |
|                       |                                 | US                     | Profile handle (Straight)          |                   |                                     | US                     | Profile handle (Straight)          |
|                       |                                 | UC                     | Profile handle (Straight clutched) |                   |                                     | UE                     | Profile handle (Ergonomic)         |
|                       |                                 | LH                     | Lockable handle                    |                   |                                     | UC                     | Profile handle (Straight clutched) |
|                       |                                 | PB                     | Panic bar (Blade aluminium)        |                   |                                     | PB                     | Panic bar (Blade aluminium)        |
|                       |                                 | PE                     | Panic bar (Tubular st/st)          |                   |                                     | PE                     | Panic bar (Tubular st/st)          |
|                       |                                 | PP                     | Push pad                           |                   |                                     | PP                     | Push pad                           |
|                       |                                 | PS                     | Push pad (Stainless steel)         |                   |                                     | PS                     | Push pad (Stainless steel)         |

## SLIMLINE TECHNICAL DRAWINGS



| EXAMPLE BOLT DIRECTIONS              |                               |                               |                               |                               |                               |
|--------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| See coding chart above for reference |                               |                               |                               |                               |                               |
|                                      |                               |                               |                               |                               |                               |
| No Bolts (2)<br>Direction (A)        | No Bolts (3)<br>Direction (A) | No Bolts (3)<br>Direction (B) | No Bolts (3)<br>Direction (C) | No Bolts (4)<br>Direction (A) | No Bolts (5)<br>Direction (A) |

| EXAMPLE ENTRY/EXIT DIRECTIONS        |                             |                             |                             |                             |
|--------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| See coding chart above for reference |                             |                             |                             |                             |
|                                      |                             |                             |                             |                             |
| Entry (XXXX)<br>Exit (KMLS)          | Entry (KMLS)<br>Exit (TMLS) | Entry (AMLS)<br>Exit (AMLS) | Entry (CMLS)<br>Exit (LMLE) | Entry (HMLH)<br>Exit (LMPB) |

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

## SLIMLINE ACCESS CONTROL & MOTORISED POWER CONSUMPTION

| SYSTEM                   | OPTION CODE    | VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |               |
|--------------------------|----------------|---------|--------------------------------|---------------------------|--------------------------|---------------|
|                          |                |         |                                |                           | SINGLE SOLENOID          | TWIN SOLENOID |
| 12V – Energise to unlock | R00 (Standard) | 12V     | 10W                            | 0.8A                      | 12V 1.5A                 | 12V 2.0A      |
| 24V – Energise to unlock | R01            | 24V     | 10W                            | 0.4                       | 24V 1.0A                 | 24V 1.5A      |
| 12V – Energise to lock   | R02            | 12V     | 10W                            | 0.8                       | 12V 1.5A                 | 12V 2.0A      |
| 24V – Energise to lock   | R03            | 24V     | 10W                            | 0.4A                      | 24V 1.0A                 | 24V 1.5A      |

| SYSTEM                  | POWER CONSUMPTION | CURRENT DRAW | POWER CONSUMPTION PER SOLENOID                           |
|-------------------------|-------------------|--------------|----------------------------------------------------------|
| Slimline delayed egress | 20W               | 1.67A        | 12V 3A (240V ac) power supply provided with lock         |
| Slimline motorised      | 48W               | 2A           | 24V 2A (110V to 240V ac) power supply provided with lock |



There are three basic tiers of blast protection offered by the Slimline range. Each level has been tested on selected doors to at least 100kg of TNT at selected distances in line with ISO 16933:2007 to provide the following calculated blast protection levels.

| SYSTEM              | MAXIMUM LOAD CAPACITY PER SHOOTBOLT (Including 20% safety factor) |          |                  |          |                  |          |
|---------------------|-------------------------------------------------------------------|----------|------------------|----------|------------------|----------|
|                     | Category 1 Limit                                                  |          | Category 2 Limit |          | Category 3 Limit |          |
| Slimline (Standard) | 12.4KN                                                            | 2788lbF  | 20.8KN           | 4676lbF  | 24.4KN           | 5485lbF  |
| Slimline D15        | 20.8KN                                                            | 4676lbF  | 24.9KN           | 5598lbF  | 35.3KN           | 7935lbF  |
| Slimline D25        | 97.9KN                                                            | 22008lbF | 122.6KN          | 27560lbF | 236KN            | 53053lbF |

## SLIMLINE STANDARD BLAST LEVEL

| LOCKING SYSTEM          | PEAK PRESSURE (CATEGORY 3 RESPONSE) |      |
|-------------------------|-------------------------------------|------|
|                         | kPa                                 | PSI  |
| 3-Point Outward Opening | 70                                  | 10.1 |
| 5-Point Outward Opening | 114                                 | 16.5 |
| 3-Point Inward Opening  | 42                                  | 6    |
| 5-Point Inward Opening  | 68                                  | 9.8  |

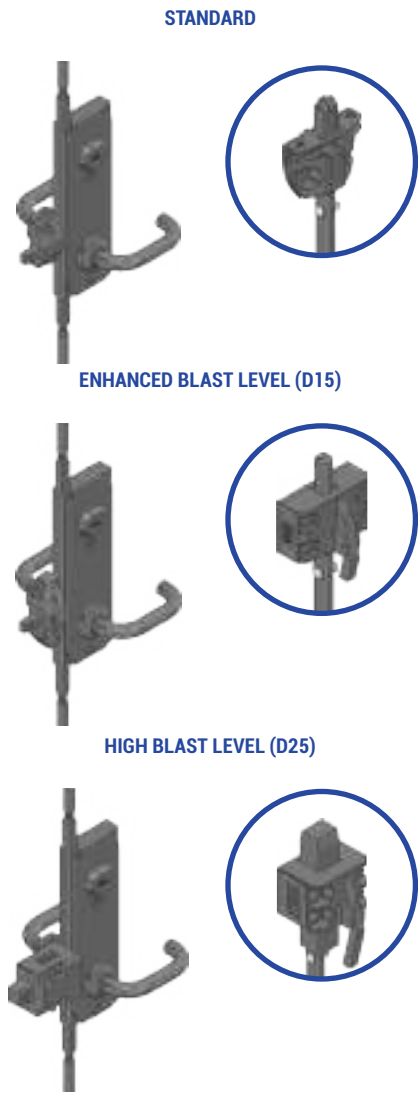
## SLIMLINE ENHANCED BLAST LEVEL (OPTION D15)

| LOCKING SYSTEM          | PEAK PRESSURE (CATEGORY 3 RESPONSE) |      |
|-------------------------|-------------------------------------|------|
|                         | kPa                                 | PSI  |
| 3-Point Outward Opening | 102                                 | 14.7 |
| 5-Point Outward Opening | 166                                 | 24   |
| 3-Point Inward Opening  | 61                                  | 8.8  |
| 5-Point Inward Opening  | 99                                  | 14.3 |

## SLIMLINE HIGH BLAST LEVEL (OPTION D25)

| LOCKING SYSTEM          | PEAK PRESSURE (CATEGORY 3 RESPONSE) |       |
|-------------------------|-------------------------------------|-------|
|                         | kPa                                 | PSI   |
| 3-Point Outward Opening | 681                                 | 98.7  |
| 5-Point Outward Opening | 1108                                | 160.7 |
| 3-Point Inward Opening  | 408                                 | 59.1  |
| 5-Point Inward Opening  | 664                                 | 96.3  |

\* Peak pressure values are a guide based on static load calculations on a specific door construction. Calculations should be done for individual door sizes and constructions.



## 3-POINT SLIMLINE SYSTEMS (CODE SL3A PLUS ENHANCEMENT CODE)

STANDARD BLAST SYSTEM  
CODE: SL3A



ENHANCED BLAST SYSTEM  
CODE: SL3A (WITH OPTION D15)



HIGH BLAST SYSTEM  
CODE: SL3A (WITH OPTION D25)



## 5-POINT SLIMLINE SYSTEMS (CODE SL5A PLUS ENHANCEMENT CODE)

STANDARD BLAST SYSTEM  
CODE: SL5A



ENHANCED BLAST SYSTEM  
CODE: SL5A (WITH OPTION D15)



HIGH BLAST SYSTEM  
CODE: SL5A (WITH OPTION D25)



The MSR is a cost-effective, multi-point bolting system, designed for commercial doors to secure high-value sites.

Single motion release by lever handle or panic bar makes this system suitable to secure exit doors and provide life-safety egress. An optional lockable external trim provides key entry for authorized personnel. The robust design and stainless steel construction of the MSR will assist in protecting your facility and provide durability.



### FEATURES

- Surface mounted for maximum strength
- 2 to 3 point bolting options available\*
- 20mm (3/4") x 16.5mm (5/8") central bolt plus 14mm (9/16") A/F hex. top & bottom bolts x 20mm (3/4") throw
- Stainless steel construction for corrosion resistance and durability
- Cycle tested to over 500,000 cycles

### BENEFITS

- Cost-effective
- Door automatically secured against physical attack
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service

### OPTIONAL ENHANCEMENTS

- Monitoring of bolt status
- External lockable trim to provide key entry for authorized personnel
- Further enhancements are available

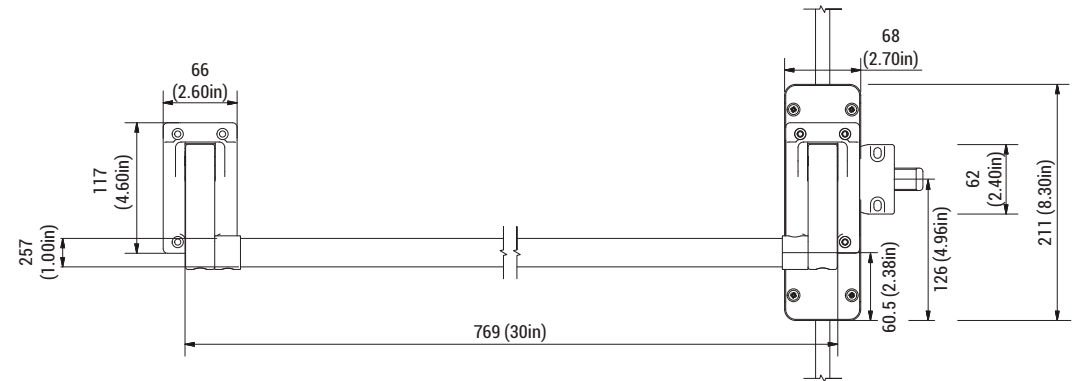
\*Single-Point available

### PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |    |   |   |   |   |   |   | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES         |           |
|---------------|-------|----|---|---|---|---|---|---|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-----------|
| ISSUE 8       |       |    |   |   |   |   |   |   |           |         |         |        |        |        |                   |                 |             |             |                |                | ISSUE 7   |
| TIME          | TOOLS |    |   |   |   |   |   |   |           |         |         |        |        |        |                   |                 |             |             |                |                | SR 1-8    |
|               | A     | B  | C | D | E | F | G | H |           |         |         |        |        |        |                   |                 |             |             |                |                |           |
| 20 MIN        |       |    |   |   |   |   |   |   | UP TO SR2 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25      | UL 10C      | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |       |    |   |   |   |   |   |   |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             |             | EN 1634-1   | EN 1670:GR4    |                | 500K      |
| 10 MIN        |       |    |   |   |   |   |   |   |           | 30 MINS | RC3     |        |        |        | FB5               | EN 1670:GR3     | 200K        |             |                |                |           |
| 5 MIN         |       |    |   |   |   |   |   |   |           | 15 MINS | RC2     | BR1    |        |        | UL 305            | FB4             |             | EN 1670:GR2 |                |                |           |
| 3 MIN         | A3    | B3 |   |   |   |   |   |   |           | 5 MINS  | RC1     |        |        |        | FB3               | CERTIFIRE       | EN 1670:GR1 |             |                |                |           |
| 1 MIN         |       |    |   |   |   |   |   |   |           |         |         |        |        |        |                   |                 |             |             |                |                |           |

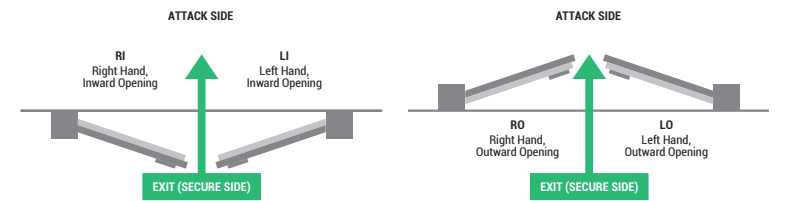
### MSR MULTI-POINT TECHNICAL DRAWING



### SELF CODING SYSTEM

The MSR (MS) has a simple ordering codes that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MS3A-XXXX-AB-LMPB



| PRODUCT        |                                 |       | ENTRY           |                               | SECURING          |                   | EXIT            |                                   |
|----------------|---------------------------------|-------|-----------------|-------------------------------|-------------------|-------------------|-----------------|-----------------------------------|
| RANGE          |                                 | BOLTS | UNLOCKING       |                               | UPON DOOR CLOSURE |                   | UNLOCKING       |                                   |
| MS             | MSR                             | 2-3   | X               | None                          | AB                | Auto bolting only | X               | None                              |
| BOLT DIRECTION |                                 |       | H               | Lockable handle (Key/Padlock) |                   |                   | L               | Single Handed / Panic – Emergency |
| A              | Vertical bolts, Horizontal bolt |       | BOLT RETRACTION |                               |                   |                   | BOLT RETRACTION |                                   |
|                |                                 |       | X               | None                          |                   |                   | M               | Manual                            |
|                |                                 |       | M               | Manual                        |                   |                   | OPERATOR        |                                   |
|                |                                 |       | OPERATOR        |                               |                   |                   | LS              | Lever handle (Tubular straight)   |
|                |                                 |       | XX              | None                          |                   |                   | PB              | Panic bar (Blade aluminium)       |
|                |                                 |       | LH              | Lockable handle               |                   |                   | PE              | Panic bar (Tubular st/st)         |
|                |                                 |       |                 |                               | PP                | Push pad          |                 |                                   |

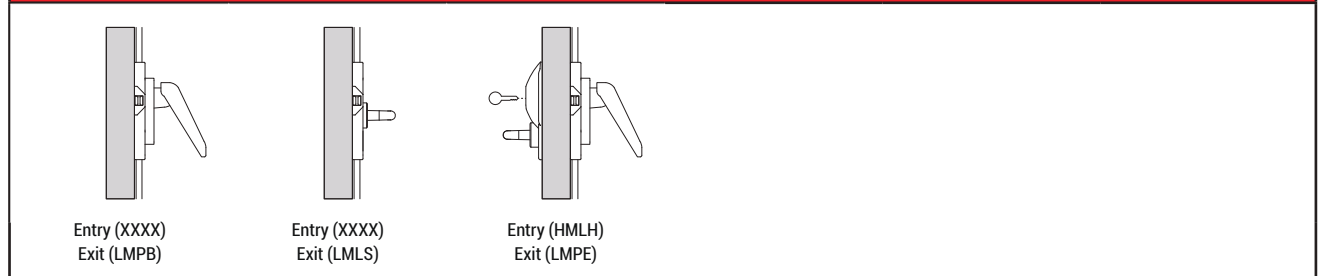
### EXAMPLE BOLT DIRECTIONS

See coding chart above for reference



### EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

A pre-assembled, multi-point panic and emergency exit device enabling a fast and secure installation. Surface mounted and providing a maximum of seven (7) points of engagement with two hinge bolts option selected. Single-handed panic, or emergency exit and meeting a range of international standards, CE marked.

Automatic bolting upon door closure together with an anti-thrust mechanism protecting against forced entry. Manufactured in stainless steel for longevity and hostile environments.

## FEATURES

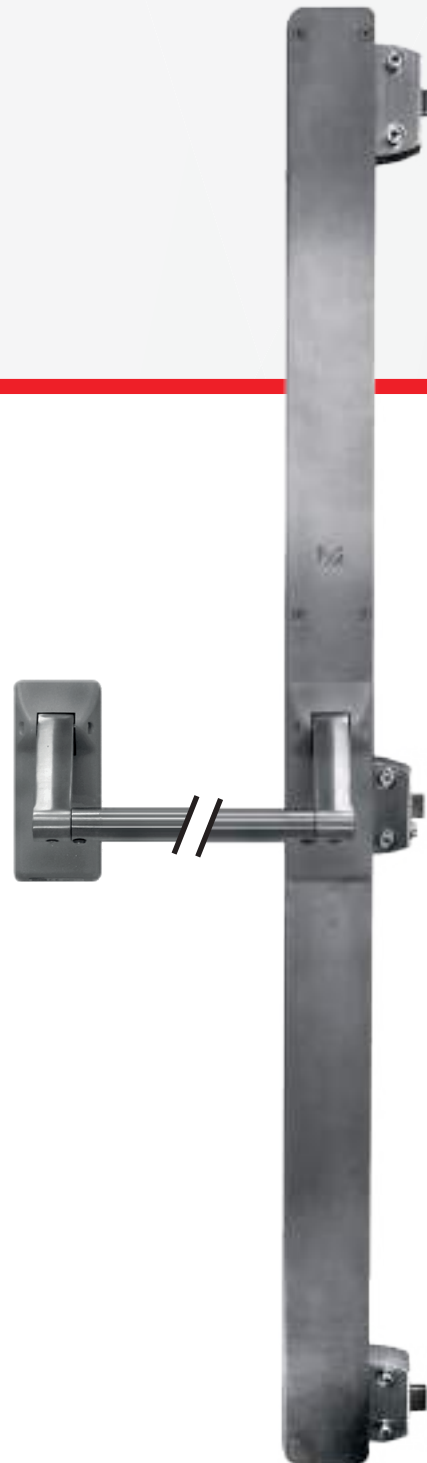
- Surface mounted for maximum strength
- Automatic bolting upon door closure
- 3 to 7 point bolting, including 2 fixed hinge bolts
- 20mm (3/4") x 16.5mm (5/8") center bolt, plus 14mm dia. (9/16") A/F hex top & bottom bolts, all with 20mm (3/4") throw
- Stainless steel construction for corrosion resistance and durability
- Unhanded lock with inswing and outswing strike configurations
- Cycle tested to over 500,000 cycles
- Heavy duty astragal as standard
- Strikes and robust bolt-through lock mounting hardware provided

## BENEFITS

- Simple and quick installation for retrofit upgrades
- Cost-effective
- Door automatically secured against physical attack
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service

## OPTIONAL ENHANCEMENTS

- External lockable trim to provide key entry for authorized personnel
- Optional vertical bolts for increased security

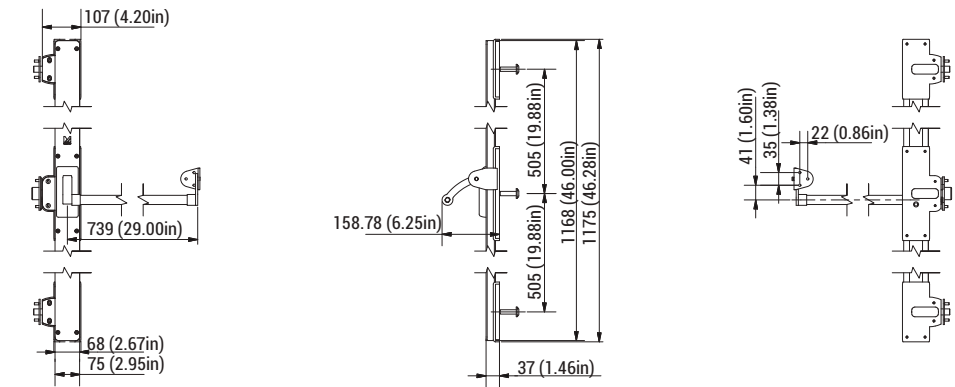


## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |   |   |   |   |   |   |  |        | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|---|---|---|---|---|---|--|--------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |   |   |   |   |   |   |  | SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
| A             | B             | C | D | E | F | G | H |  |        |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |   |   |   |   |   |   |  |        | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               |                 | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |   |   |   |   |   |   |  |        |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |   |   |   |   |   |   |  |        | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |   |   |   |   |   |   |  |        | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |   |   |   |   |   |   |  |        | 15 MINS | RC2     |         |        |     | UL 305  | FB4               |                 |           | EN 1670:GR2 |                |           |
| 1 MIN         |               |   |   |   |   |   |   |  |        | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 | CERTIFIRE | EN 1670:GR1 |                | 200K      |

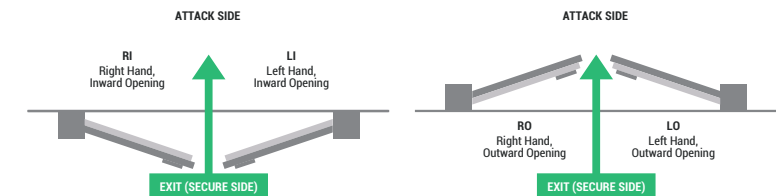
## ZEUS TECHNICAL DRAWING



## SELF CODING SYSTEM

The Zeus (ZE) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

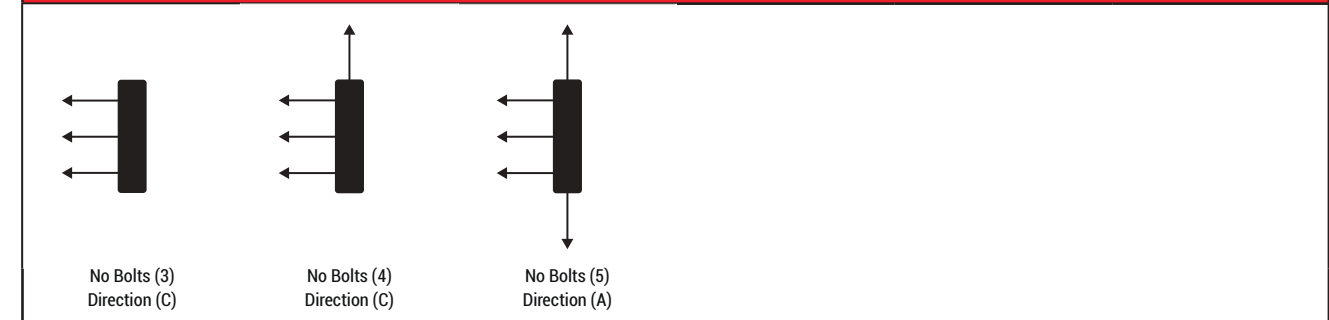
EXAMPLE ORDER CODE: ZE3C-XXXX-AB-LMPB



| PRODUCT        |                                  |       | ENTRY           |                               |  | SECURING          |                   | EXIT      |   |          |                                   |  |
|----------------|----------------------------------|-------|-----------------|-------------------------------|--|-------------------|-------------------|-----------|---|----------|-----------------------------------|--|
| RANGE          |                                  | BOLTS | UNLOCKING       |                               |  | UPON DOOR CLOSURE |                   | UNLOCKING |   |          |                                   |  |
| ZE             | Zeus                             | 3 – 7 | X               | None                          |  | AB                | Auto bolting only |           | X | None     |                                   |  |
| BOLT DIRECTION |                                  |       | H               | Lockable handle (Key/Padlock) |  |                   |                   |           |   |          |                                   |  |
| C              | Horizontal bolts                 |       | BOLT RETRACTION |                               |  |                   |                   |           |   | L        | Single Handed / Panic - Emergency |  |
| A              | Vertical bolts, Horizontal bolts |       | X               | None                          |  |                   |                   |           |   | M        | Manual                            |  |
|                |                                  |       | M               | Manual                        |  |                   |                   |           |   | OPERATOR |                                   |  |
|                |                                  |       | OPERATOR        |                               |  |                   |                   |           |   | XX       | None                              |  |
|                |                                  |       | XX              | None                          |  |                   |                   |           |   | PE       | Panic bar (Tubular st/st)         |  |
|                |                                  |       | LH              | Lockable handle               |  |                   |                   |           |   | PS       | Push pad (Stainless steel)        |  |
|                |                                  |       |                 |                               |  |                   |                   |           |   | LS       | Lever handle (Tubular straight)   |  |

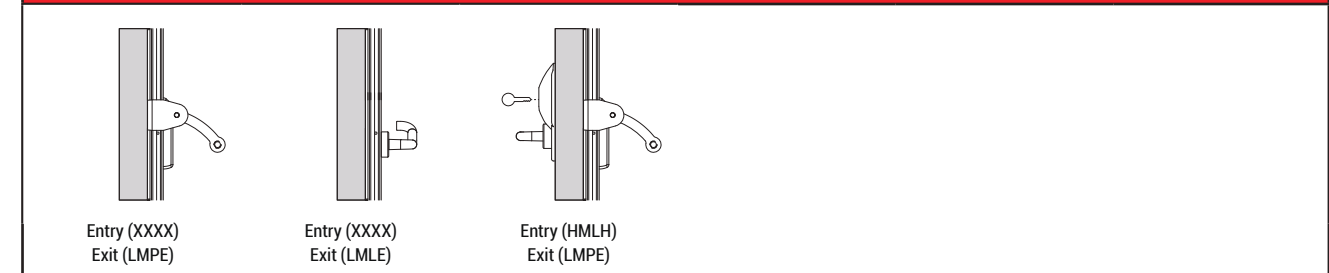
## EXAMPLE BOLT DIRECTIONS

See coding chart above for reference



## EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

GATE LOCKING



|                            | GATELOCKING | MOORGATE RANGE | PALISADE | PURBROOK-GT | SGL                             |             |
|----------------------------|-------------|----------------|----------|-------------|---------------------------------|-------------|
| PAGE                       | 46          | 50             | 52       | 54          | INSTALLATION                    |             |
|                            | •           | •              | •        | •           | SURFACE MOUNTED                 |             |
|                            | •           |                |          |             | MORTICE FITTED                  |             |
| ENTRY FUNCTION (OPTIONS)   |             |                |          |             |                                 |             |
|                            |             |                |          | •           | KEY                             |             |
| •                          | •           | •              |          |             | KEY & LEVER / KNOB              |             |
| •                          | •           | •              | •        |             | ACCESS CONTROL                  |             |
| •                          |             |                |          |             | HANDS FREE MOTORISED            |             |
| •                          |             |                |          |             | COMBINATION LOCK & / OR LEVER   |             |
| •                          |             |                | •        |             | PADLOCKABLE / LOCKABLE OPERATOR |             |
| EXIT FUNCTION (OPTIONS)    |             |                |          |             |                                 |             |
|                            |             |                |          | •           | KEY                             |             |
|                            |             |                |          | •           | ACCESS CONTROL                  |             |
| •                          |             |                | •        |             | EMERGENCY LEVER HANDLE          |             |
| •                          |             |                |          |             | KEY & LEVER HANDLE              |             |
|                            | •           |                |          |             | KEY, KNOB & SLIDE BAR           |             |
|                            | •           |                |          |             | ACCESS CONTROL & SLIDE BAR      |             |
| •                          |             |                | •        |             | THUMBTURN & LEVER HANDLE        |             |
| •                          |             |                |          |             | BREAKGLASS DOME & LEVER HANDLE  |             |
| •                          |             |                | •        |             | ACCESS CONTROL & LEVER HANDLE   |             |
| •                          |             |                |          |             | HANDS FREE MOTORISED            |             |
|                            | •           |                |          |             | THUMBTURN WITH SLIDE BAR        |             |
|                            | •           |                |          |             | BREAKGLASS DOME & SLIDE BAR     |             |
| LOCK FUNCTION (OPTIONS)    |             |                |          |             |                                 |             |
| •                          | •           | •              |          |             | AUTO DEADLOCKING                |             |
| •                          | •           | •              |          |             | MANUAL DEADLOCKING              |             |
| •                          |             |                |          |             | NO DEADLOCKING                  |             |
| BOLTING FUNCTION (OPTIONS) |             |                |          |             |                                 |             |
| •                          |             |                | •        | •           | AUTO BOLTING                    |             |
| •                          | •           |                |          |             | MANUAL BOLTING                  |             |
| PERFORMANCE                |             |                |          |             |                                 |             |
|                            |             |                |          |             | EN 1125                         | LIFE SAFETY |
| •                          |             |                | •        |             | EN 179                          |             |
|                            |             |                |          |             | UL 305                          |             |
|                            |             |                |          |             | EN 1634-1 *                     | FIRE        |
|                            |             |                |          |             | UL 10C *                        |             |
|                            |             |                |          |             | CERTIFIRE                       |             |
| •                          | •           | •              |          |             | LPS 1175 *                      | SECURITY    |
|                            |             |                |          |             | FEBR *                          |             |
|                            |             |                |          |             | EN 1627 *                       |             |
|                            |             |                |          |             | STS 202 *                       |             |
|                            |             |                |          |             | SRB *                           |             |
|                            |             |                |          |             | PAS 24                          |             |
|                            |             |                |          |             | EN 1522 *                       | BALLISTIC   |
|                            |             |                |          |             | ISO 16933 *                     | BLAST       |
| •                          |             |                | •        |             | EN 1670                         | CORROSION   |
|                            |             |                |          |             | TESTING                         | SEISMIC     |

\* - When tested on selected doorsets



The Moorgate is a high performance multi-point locking system with unique opposing hook bolts, for sliding/hinged gates and doors. Tested and certified to internationally recognised standards for protection against forced entry, and subjected to vigorous testing in relation to blast, ballistic and fire protection. Moorgate has been engineered to provide multiple entry and exit methods, making the range incredibly versatile and suitable for most applications.

Entry includes key, access control, or combination lock with lever handle, or complete hands-free motorised remote operation. A choice of controlled, or single motion egress for emergency exit is available to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Available for mortice, or surface mounted
- 3 to 7 point bolting positions
- Two 44mm (1 3/4" ) x 10mm (3/8") hook bolts, plus a 15mm (5/8") square center bolt x 25mm (1") throw
- Unique opposing hook design
- 316 grade stainless steel construction for hostile environments and durability
- Proven rack & pinion driven
- Cycle tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

BENEFITS

- Prevents lift-off attack
- Choice of securing upon door closure (automatic or manual)
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

OPTIONAL ENHANCEMENTS

- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit
- Pre-installed in a structural steel rectangular tube section, for fast on-site retro-fitting

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |    |    |   |   |   |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES         |             |      |
|---------------|-------|----|----|---|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-------------|----------------|----------------|-------------|------|
| ISSUE 8       |       |    |    |   |   |   |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |             |             |                |                |             |      |
| TIME          | TOOLS |    |    |   |   |   |   |         |           |         |         |        |        |        |                   |                 |             |             |                |                | SR 1-8      |      |
|               | A     | B  | C  | D | E | F | G | H       |           |         |         |        |        |        |                   |                 |             |             |                |                |             |      |
| 20 MIN        |       |    |    |   |   |   |   |         | UP TO SR3 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25      | UL 10C      | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |      |
| 15 MIN        |       |    |    |   |   |   |   |         |           | 45 MINS | RC4     |        |        |        | BR2               | EN 179          |             | FB6         | EN 1634-1      |                | EN 1670:GR4 | 500K |
| 10 MIN        |       |    |    |   |   |   |   |         |           | 30 MINS | RC3     | BR1    |        |        |                   | UL 305          | FB5         | EN 1670:GR3 |                |                |             |      |
| 5 MIN         | A5    | B5 | C5 |   |   |   |   |         |           | 15 MINS | RC2     |        |        |        |                   |                 | FB4         | EN 1670:GR2 | CERTIFIRE      |                | EN 1670:GR1 |      |
| 3 MIN         |       |    |    |   |   |   |   |         |           | 5 MINS  | RC1     |        |        |        | FB3               |                 | EN 1670:GR1 |             |                |                |             |      |
| 1 MIN         |       |    |    |   |   |   |   |         |           |         |         |        |        |        |                   |                 |             |             |                |                |             |      |

ENTRY FUNCTION (OPTIONS)

- KEY & LEVER HANDLE**
- Key to unlock & lever handle to release
- ACCESS CONTROL**
- Access control to unlock & lever handle to release
- MOTORISED**
- Single remote activation to unlock & release
- COMBINATION LOCK**
- Combination lock & lever handle to release
- LOCKABLE OPERATOR**
- External key lockable lever handle/hasp for panic exits

EXIT FUNCTION (OPTIONS)

- EMERGENCY – LEVER HANDLE**
- Single operation exit
- KEY & LEVER HANDLE**
- Key to unlock & lever handle to release
- THUMBTURN & LEVER HANDLE**
- Thumbturn to unlock & lever handle to release
- BREAK DOME & LEVER HANDLE**
- Break dome & thumbturn to unlock & lever handle to release
- ACCESS CONTROL & LEVER HANDLE**
- Access control to unlock & lever handle to release
- MOTORISED**
- Single remote activation to unlock & release

LOCK FUNCTION (OPTIONS)

- AUTO DEADLOCKING**
- Automatic deadlocking upon door closure (Storeroom function)
- MANUAL DEADLOCKING**
- Manual deadlocking upon door closure (Classroom function)
- NO DEADLOCKING**
- Panic & emergency exit only

BOLT FUNCTION (OPTIONS)

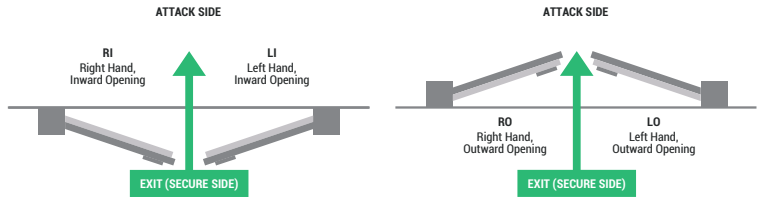
- AUTO BOLTING**
- Automatic bolting upon door closure
- MANUAL BOLTING**
- Manual bolting



## SELF CODING SYSTEM

The Moorgate multi-point (MO) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

EXAMPLE ORDER CODE: MO3A-KMLS-AA-LMLS



| PRODUCT        |                             |       | ENTRY           |                                 |  | SECURING          |    | EXIT                              |    |                                   |
|----------------|-----------------------------|-------|-----------------|---------------------------------|--|-------------------|----|-----------------------------------|----|-----------------------------------|
| RANGE          |                             | BOLTS | UNLOCKING       |                                 |  | UPON DOOR CLOSURE |    | UNLOCKING                         |    |                                   |
| MO             | Moorgate                    | 3 – 8 | X               | None                            |  |                   | AA | Auto bolting / Auto deadlocking   |    |                                   |
| BOLT DIRECTION |                             |       | K               | Key                             |  |                   | AM | Auto bolting / Manual deadlocking |    |                                   |
| C              | Horizontal bolts (Standard) |       | H               | Lockable handle (Key / Padlock) |  |                   | AB | Auto bolting only                 |    |                                   |
| A-F            | Other variants              |       | A               | Access control                  |  |                   | MB | Manual bolting only               |    |                                   |
|                |                             |       | C               | Combination lock                |  |                   |    |                                   | L  | Single Handed / Panic - Emergency |
|                |                             |       | BOLT RETRACTION |                                 |  | BOLT RETRACTION   |    |                                   |    |                                   |
|                |                             |       | X               | None                            |  |                   |    |                                   | X  | None                              |
|                |                             |       | M               | Manual                          |  |                   |    |                                   | M  | Manual                            |
|                |                             |       | P               | Powered (Electric)              |  |                   |    |                                   | P  | Powered (Electric)                |
|                |                             |       | OPERATOR        |                                 |  | OPERATOR          |    |                                   |    |                                   |
|                |                             |       | XX              | None                            |  |                   |    |                                   | XX | None                              |
|                |                             |       | LS              | Lever handle (Tubular straight) |  |                   |    |                                   | LS | Lever handle (Tubular straight)   |
|                |                             |       | US              | Profile handle (Straight)       |  |                   |    |                                   | LE | Lever handle (Tubular ergonomic)  |
|                |                             |       | LH              | Lockable handle                 |  |                   |    |                                   | US | Profile handle (Straight)         |

| EXAMPLE BOLT DIRECTIONS       |                               |                               |                               |                               |                               | See coding chart above for reference |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
|                               |                               |                               |                               |                               |                               |                                      |
| No Bolts (3)<br>Direction (C) | No Bolts (4)<br>Direction (C) | No Bolts (5)<br>Direction (A) | No Bolts (6)<br>Direction (A) | No Bolts (6)<br>Direction (B) | No Bolts (6)<br>Direction (C) |                                      |

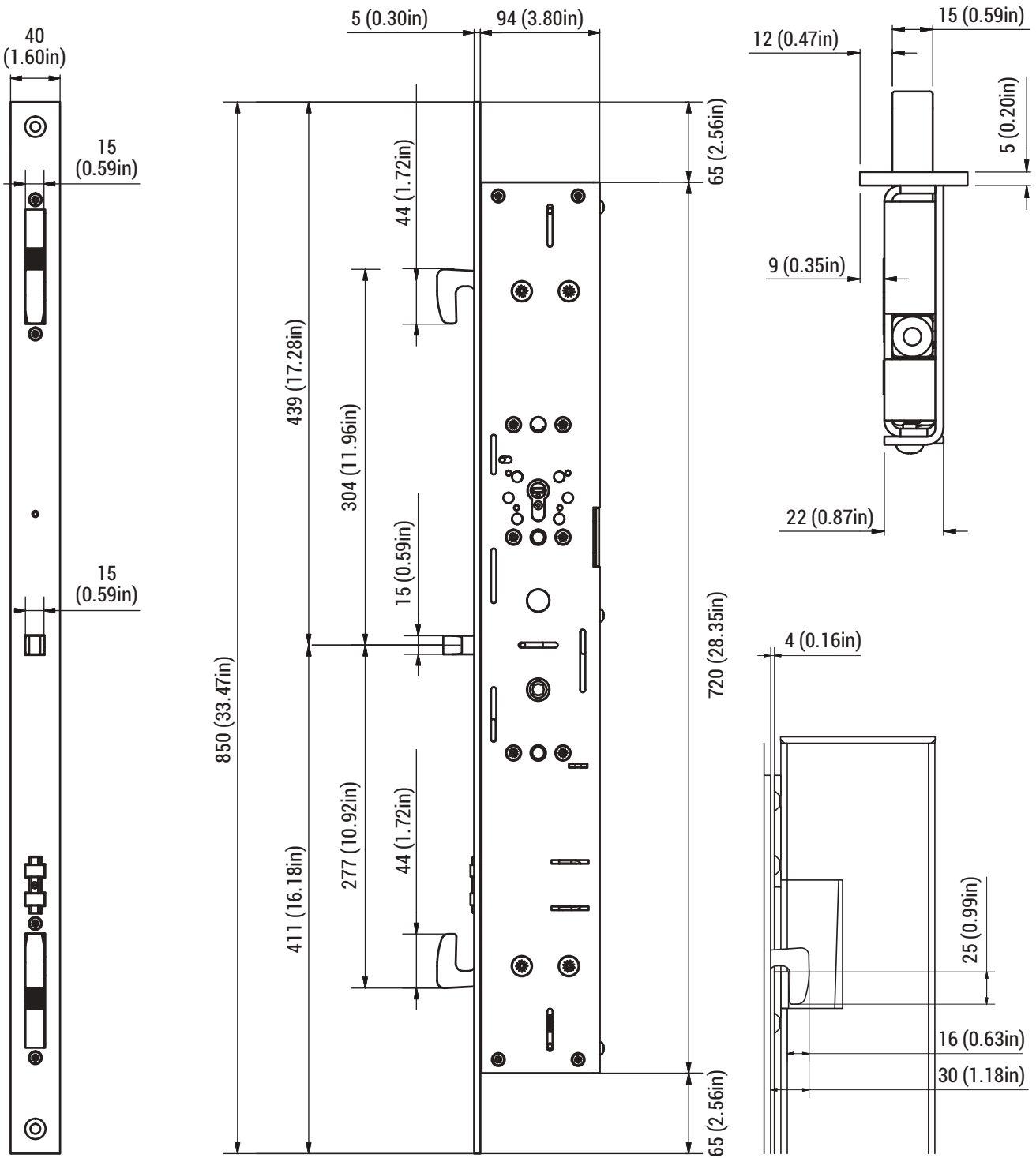
| EXAMPLE ENTRY/EXIT DIRECTIONS |                             |                             | See coding chart above for reference |
|-------------------------------|-----------------------------|-----------------------------|--------------------------------------|
|                               |                             |                             |                                      |
| Entry (XXXX)<br>Exit (KMLS)   | Entry (KMLS)<br>Exit (TMLS) | Entry (AMLS)<br>Exit (LMLE) |                                      |

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

## MOORGATE ACCESS CONTROL & MOTORISED POWER CONSUMPTION

| SYSTEM                   | OPTION CODE  | VOLTAGE | POWER CONSUMPTION PER SOLENOID | CURRENT DRAW PER SOLENOID | RECOMMENDED POWER SUPPLY |
|--------------------------|--------------|---------|--------------------------------|---------------------------|--------------------------|
|                          |              |         |                                |                           | SINGLE SOLENOID          |
| 12V - Energise to unlock | R (Standard) | 12V     | 10W                            | 0.8A                      | 12V 1.5A                 |
| 24V - Energise to unlock | R1           | 24V     | 10W                            | 0.4                       | 24V 1.0A                 |
| 12V - Energise to lock   | R2           | 12V     | 10W                            | 0.8                       | 12V 1.5A                 |
| 24V - Energise to lock   | R3           | 24V     | 10W                            | 0.4A                      | 24V 1.0A                 |

## MOORGATE TECHNICAL DRAWING



The Palisade is an extreme heavy duty manual sliding bar locking system for hinged gates, with 125mm (5") engagement. Tested and certified to multiple international standards against forced entry. The Palisade has been engineered to provide a choice of entry & exit methods, making the range versatile and suitable for most applications

Entry includes key or access control with manual slide bar release. A choice of controlled, or single motion egress for emergency exit is available to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.



## FEATURES

- Surface mounted for maximum strength
- 100mm (4") x 15mm (5/8") x 125mm (5") throw sliding bar
- Choice of automatic or manual deadlocking
- 316 grade stainless steel construction for hostile environments and durability
- Independent padlocking
- Anti-climb knob
- Cycle tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

## BENEFITS

- Secondary padlocking feature
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Retrofittable solution to upgrade existing gates

## OPTIONAL ENHANCEMENTS

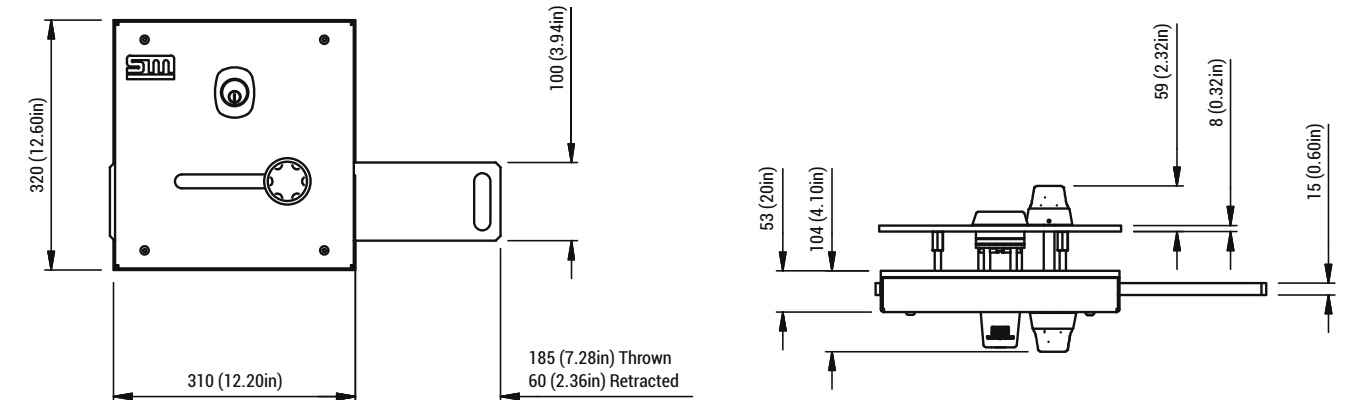
- Monitoring of bolt & lock status
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

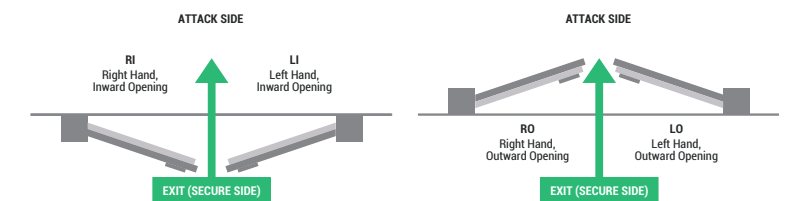
| LPCB LPS 1175 |               |    |    |    |    |    |    |   |        | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|----|----|----|----|----|----|---|--------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |    |    |    |    |    |    |   | SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B  | C  | D  | E  | F  | G  | H |        |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |    |    |    |    |    |    |   |        | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |    |    |    |    |    |    |   |        |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |    |    |    |    |    |    |   |        | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |    |    |    |    |    |    |   |        | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |    |    |    |    |    |    |   |        | 15 MINS | RC2     |         |        |     | UL 305  | FB4               | EXV 15          |           | EN 1670:GR2 |                |           |
| 1 MIN         | A1            | B1 | C1 | D1 | E1 | F1 | G1 |   |        | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 | CERTIFIRE | EN 1670:GR1 |                | 200K      |

## PALISADE TECHNICAL DRAWING



## SELF CODING SYSTEM

The Palisade (PG) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.

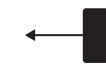


EXAMPLE ORDER CODE: PG1A-KMSK-MA-LMSK

| PRODUCT        |                 |                 | ENTRY                   |                 | SECURING          |                                     | EXIT      |                         |
|----------------|-----------------|-----------------|-------------------------|-----------------|-------------------|-------------------------------------|-----------|-------------------------|
| RANGE          |                 | BOLTS           | UNLOCKING               |                 | UPON DOOR CLOSURE |                                     | UNLOCKING |                         |
| PG             | Palisade        | 1               | X                       | None            | MA                | Manual bolting / Auto deadlocking   | X         | None                    |
| BOLT DIRECTION |                 |                 | K                       | Key             | MM                | Manual bolting / Manual deadlocking | K         | Key                     |
| A              | Horizontal bolt |                 | A                       | Access control  |                   |                                     | A         | Access control          |
|                |                 | BOLT RETRACTION |                         | T               | Thumbturn         |                                     |           |                         |
|                |                 | X               | None                    | L               | Single Operation  |                                     |           |                         |
|                |                 | M               | Manual                  | BOLT RETRACTION |                   |                                     |           |                         |
|                |                 | OPERATOR        |                         | X               | None              |                                     |           |                         |
|                |                 | XX              | None                    | M               | Manual            |                                     |           |                         |
|                |                 | SK              | Anti-climb sliding knob | OPERATOR        |                   |                                     |           |                         |
|                |                 |                 |                         |                 |                   |                                     | XX        | None                    |
|                |                 |                 |                         |                 |                   |                                     | SK        | Anti-climb sliding knob |

## EXAMPLE BOLT DIRECTIONS

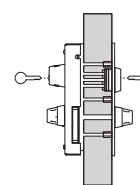
See coding chart above for reference



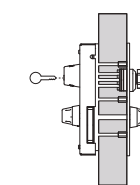
No Bolts (1)  
Direction (A)

## EXAMPLE ENTRY/EXIT DIRECTIONS

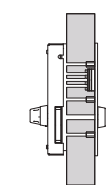
See coding chart above for reference



Entry (KMSK)  
Exit (KMSK)



Entry (KMSK)  
Exit (TMSK)



Entry (AMSK)  
Exit (AMSK)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The 'Purbrook GT' is a strong, high performance single-point, surface mounted locking system, with 40mm (1 1/2") bolt engagement, adjustable to suit typical gate tolerances. Tested and certified to internationally recognised standards for protection against forced entry, and subjected to vigorous testing in relation to blast, ballistic and fire protection. 'Purbrook GT' is incredibly versatile with multiple entry & exit methods, making it suitable for almost all applications.



Entry includes key or access control with lever handle. A choice of controlled, or single motion egress for emergency exit to meet a wide range of requirements. Manufactured in 316 stainless steel for hostile environments and durability.

## FEATURES

- Surface mounted for maximum strength
- 25mm (1") x 19.5mm (3/4") bolt x 40mm (1 1/2") throw
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- To suit rim and profile cylinders (order cylinder separately)

## BENEFITS

- Choice of securing upon door closure (automatic or manual)
- 10mm (3/8") adjustable trip mechanism, enables greater tolerances on gate install
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Provides the greatest selection of operational functionality

## OPTIONAL ENHANCEMENTS

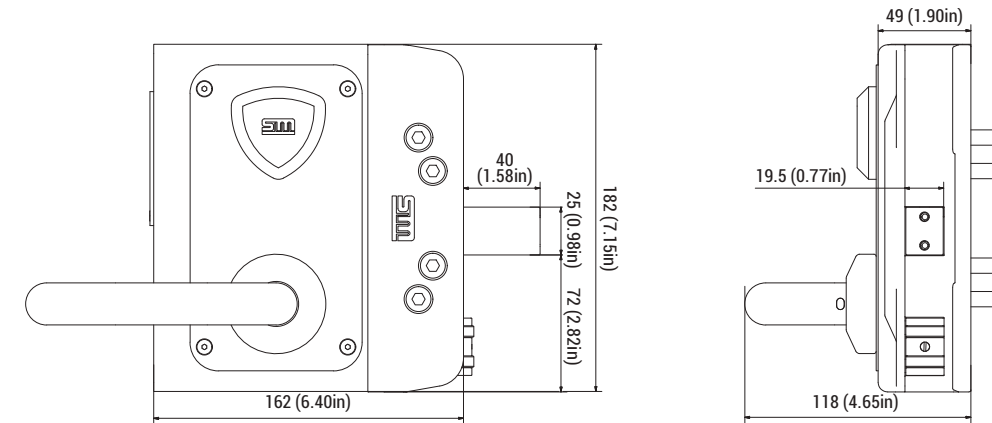
- Monitoring of bolt & lock status
- Request to Exit (REX)
- External key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

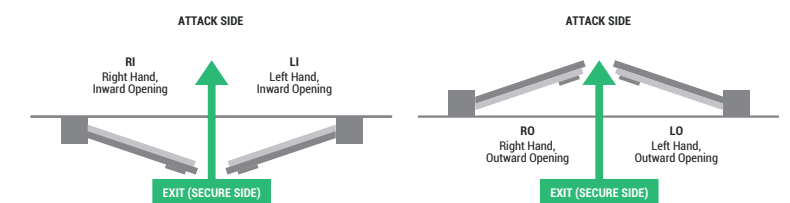
| LPCB LPS 1175 |               |     |     |     |     |   |   |   |         | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES |
|---------------|---------------|-----|-----|-----|-----|---|---|---|---------|------|---------|---------|--------|-----|--------|-------------------|-----------------|------|-----------|----------------|--------|
| TIME          | ISSUE 8 TOOLS |     |     |     |     |   |   |   | ISSUE 7 |      |         |         |        |     |        |                   |                 |      |           |                |        |
|               | A             | B   | C   | D   | E   | F | G | H | SR 1-8  |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 20 MIN        |               |     |     |     |     |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 15 MIN        |               |     |     |     |     |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 10 MIN        | A10           | B10 | C10 | D10 | E10 |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 5 MIN         |               |     |     |     |     |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 3 MIN         |               |     |     |     |     |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 1 MIN         |               |     |     |     |     |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |

## PURBROOK GT TECHNICAL DRAWING



## SELF CODING SYSTEM

The Purbrook-GT (GT) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.



EXAMPLE ORDER CODE: GT1A-AMLS-AA-LMLE

| PRODUCT        |                 |       | ENTRY           |                                  | SECURING          |                                   | EXIT            |                                 |
|----------------|-----------------|-------|-----------------|----------------------------------|-------------------|-----------------------------------|-----------------|---------------------------------|
| RANGE          |                 | BOLTS | UNLOCKING       |                                  | UPON DOOR CLOSURE |                                   | UNLOCKING       |                                 |
| GT             | Purbrook-GT     | 1     | X               | None                             | AA                | Auto bolting / Auto deadlocking   | X               | None                            |
| BOLT DIRECTION |                 |       | K               | Key                              | AM                | Auto bolting / Manual deadlocking | K               | Key                             |
| A              | Horizontal bolt |       | A               | Access control                   | AB                | Auto bolting only                 | A               | Access control                  |
|                |                 |       | BOLT RETRACTION |                                  |                   |                                   | T               | Thumbturn                       |
|                |                 |       | X               | None                             |                   |                                   | L               | Emergency – Single operation    |
|                |                 |       | M               | Manual                           |                   |                                   | BOLT RETRACTION |                                 |
|                |                 |       | OPERATOR        |                                  |                   |                                   | X               | None                            |
|                |                 |       | XX              | None                             |                   |                                   | M               | Manual                          |
|                |                 |       | LS              | Lever handle (Tubular straight)  |                   |                                   | OPERATOR        |                                 |
|                |                 |       | LE              | Lever handle (Tubular ergonomic) |                   |                                   | XX              | None                            |
|                |                 |       | US              | Profile lever handle (Straight)  |                   |                                   | LS              | Lever handle (Tubular straight) |

## EXAMPLE BOLT DIRECTIONS

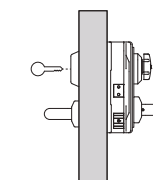
See coding chart above for reference



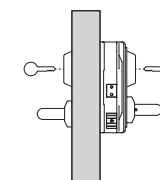
No Bolts (1)  
Direction (A)

## EXAMPLE ENTRY/EXIT DIRECTIONS

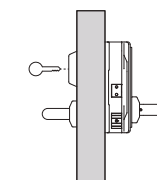
See coding chart above for reference



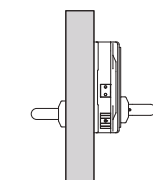
Entry (KMLS)  
Exit (TMLS)



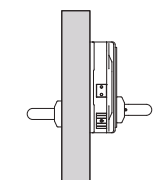
Entry (KMLS)  
Exit (KMLS)



Entry (KMLS)  
Exit (LMLS)



Entry (AMLS)  
Exit (AMLS)



Entry (KMLS)  
Exit (LMLS)

For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



The 'SGL' is a heavy duty, surface mounted electro-mechanical bolt lock. Designed for high security perimeter gate installations. 'SGL' features a 24volt powered solenoid bolt retraction, with automatic latching upon gate closure. An ideal choice where controlled access is required to a secure facility.



Controlled exit, with optional mechanical override in case of power failure, is available. Manufactured in 316 stainless steel for hostile environments and durability.

FEATURES

- Surface mounted for maximum strength
- 22mm (7/8") diameter bolt x 20mm (3/4") throw
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- Key override entry facility built in as standard
- To suit rim and profile cylinders (order cylinder separately)

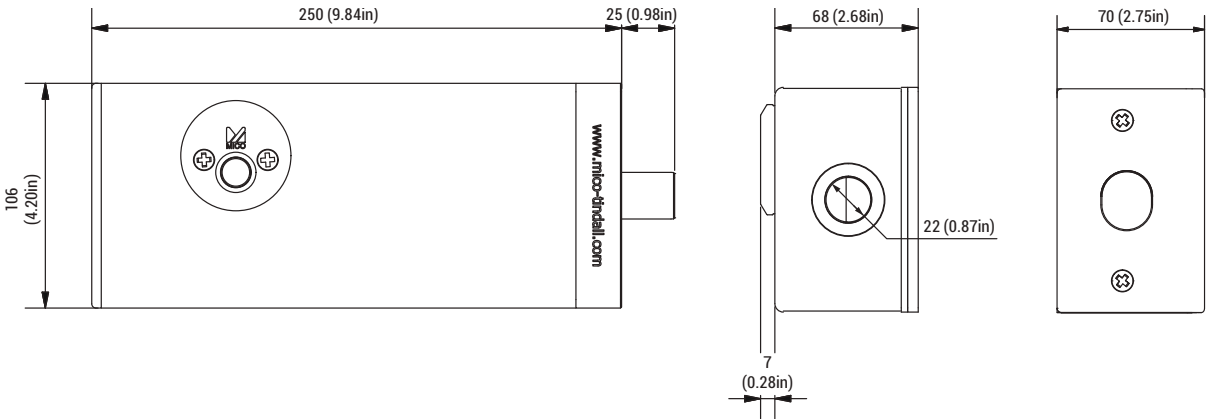
BENEFITS

- Automatically secured upon gate closure
- Easily integrated with any proprietary access control system
- Engineered for longevity and trouble-free service
- Easy retrofit, to upgrade existing gates

OPTIONAL ENHANCEMENTS

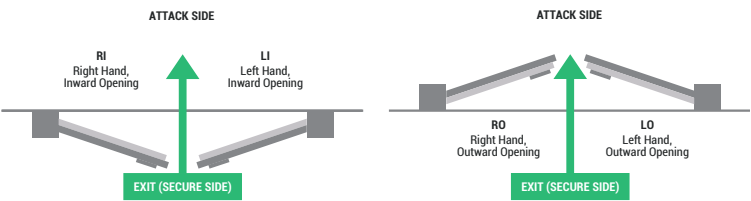
- Internal key override in case of power failure (order cylinder separately to activate)
- Cylinder guard protection available from our tested and accredited range
- Breakdome over thumbturn and lever handle to control exit

SGL TECHNICAL DRAWING



SELF CODING SYSTEM

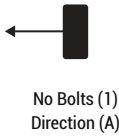
The 'SGL' (SG) has a simple ordering code that covers the chosen methods of entry and exit, followed by the mounting and orientation codes, additional enhancements can be added to further customise the device.



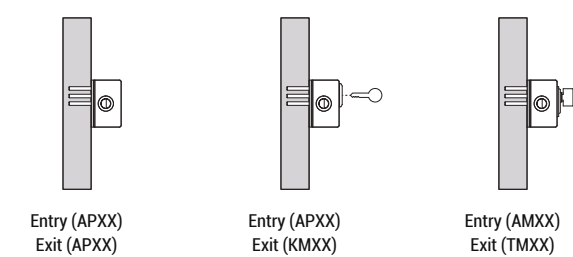
EXAMPLE ORDER CODE: SG1A-APXX-AB-APXX

| PRODUCT        |                    |       | ENTRY           |                    |  | SECURING          |                   |  | EXIT            |                    |  |
|----------------|--------------------|-------|-----------------|--------------------|--|-------------------|-------------------|--|-----------------|--------------------|--|
| RANGE          |                    | BOLTS | UNLOCKING       |                    |  | UPON DOOR CLOSURE |                   |  | UNLOCKING       |                    |  |
| SG             | Solenoid gate lock | 1     | X               | None               |  | AB                | Auto bolting only |  | X               | None               |  |
| BOLT DIRECTION |                    |       | A               | Access control     |  |                   |                   |  | A               | Access control     |  |
| A              | Horizontal bolt    |       | K               | Key                |  |                   |                   |  | K               | Key                |  |
|                |                    |       | BOLT RETRACTION |                    |  |                   |                   |  | T               | Thumbturn          |  |
|                |                    |       | X               | None               |  |                   |                   |  | BOLT RETRACTION |                    |  |
|                |                    |       | P               | Powered (Electric) |  |                   |                   |  | X               | None               |  |
|                |                    |       | M               | Manual             |  |                   |                   |  | P               | Powered (Electric) |  |
|                |                    |       | OPERATOR        |                    |  |                   |                   |  | M               | Manual             |  |
|                |                    |       | XX              | None               |  |                   |                   |  | OPERATOR        |                    |  |
|                |                    |       | KK              | Key                |  |                   |                   |  | XX              | None               |  |
|                |                    |       |                 |                    |  |                   |                   |  | KK              | Key                |  |
|                |                    |       |                 |                    |  |                   |                   |  | TN              | Thumbturn          |  |

EXAMPLE BOLT DIRECTIONS See coding chart above for reference



EXAMPLE ENTRY/EXIT DIRECTIONS See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |   |   |   |   |   |   |         | ISSUE 7 | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY      | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|-------|---|---|---|---|---|---|---------|---------|---------|---------|---------|--------|-----|-------------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| ISSUE 8       |       |   |   |   |   |   |   |         |         |         |         |         |        |     |             |                   |                 |           |             |                |           |
| TIME          | TOOLS |   |   |   |   |   |   |         |         |         |         |         |        |     |             |                   |                 |           |             |                |           |
|               | A     | B | C | D | E | F | G | H       |         |         |         |         |        |     |             |                   |                 |           |             |                |           |
| 20 MIN        |       |   |   |   |   |   |   |         | NONE    | 60 MINS | RC6     | BR3     | PAS 24 | SRB | EN 1125     | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |       |   |   |   |   |   |   | 45 MINS |         | RC5     | BR2     |         |        |     |             |                   |                 |           |             |                |           |
| 10 MIN        |       |   |   |   |   |   |   | 30 MINS |         | RC4     |         | BR1     |        |     | EN 179      | FB5               | EXV 15          | EN 1634-1 | EN 1670:GR3 |                |           |
| 5 MIN         |       |   |   |   |   |   |   | 15 MINS |         | RC3     | UL 305  |         |        |     |             |                   |                 |           |             |                | FB4       |
| 3 MIN         |       |   |   |   |   |   |   | 5 MINS  |         | RC2     |         | FB3     |        |     | EN 1670:GR1 |                   |                 |           |             |                |           |
| 1 MIN         |       |   |   |   |   |   |   | RC1     |         |         |         |         |        |     |             |                   |                 |           |             |                |           |



EXTERNAL  
DEVICES

|                          | EXTERNAL DEVICES | CYLINDER GUARDS | LEO | MLK | ELK | HASP & STAPLE |                                 |
|--------------------------|------------------|-----------------|-----|-----|-----|---------------|---------------------------------|
| PAGE                     | 58               | 60              | 62  | 64  | 66  |               | INSTALLATION                    |
|                          | •                | •               | •   | •   | •   |               | SURFACE MOUNTED                 |
|                          | •                | •               |     |     |     |               | RECESS FITTED                   |
| ENTRY FUNCTION (OPTIONS) |                  |                 |     |     |     |               |                                 |
|                          | •                |                 |     |     |     |               | KEY                             |
|                          | •                | •               | •   | •   |     |               | KEY & LEVER HANDLE OR KNOB      |
|                          | •                |                 |     |     |     |               | KEY OVERRIDE PROTECTION         |
|                          | •                |                 |     |     |     |               | HANDS FREE MOTORISED            |
|                          |                  |                 |     |     |     |               | COMBINATION LOCK & / OR LEVER   |
|                          |                  | •               | •   | •   | •   |               | PADLOCKABLE / LOCKABLE OPERATOR |
| PERFORMANCE              |                  |                 |     |     |     |               |                                 |
|                          |                  |                 |     |     |     |               | EN 1125                         |
|                          |                  |                 |     |     |     |               | EN 179                          |
|                          |                  |                 |     |     |     |               | UL 305                          |
|                          | •                | •               |     |     | •   |               | EN 1634-1 *                     |
|                          | •                |                 |     |     |     |               | UL 10C *                        |
|                          | •                | •               |     |     |     |               | CERTIFIRE                       |
|                          | •                |                 | •   | •   | •   |               | LPS 1175 *                      |
|                          | •                |                 |     |     |     |               | FEBR *                          |
|                          | •                |                 |     |     |     |               | EN 1627 *                       |
|                          | •                |                 |     |     |     |               | STS 202 *                       |
|                          | •                |                 | •   | •   | •   |               | SRB *                           |
|                          | •                |                 |     |     |     |               | PAS 24                          |
|                          | •                |                 |     |     |     |               | EN 1522 *                       |
|                          | •                | •               |     |     |     |               | ISO 16933 *                     |
|                          | •                | •               | •   | •   | •   |               | EN 1670                         |
|                          | •                |                 |     |     |     |               | TESTING                         |
|                          |                  |                 |     |     |     |               | LIFE SAFETY                     |
|                          |                  |                 |     |     |     |               | FIRE                            |
|                          |                  |                 |     |     |     |               | SECURITY                        |
|                          |                  |                 |     |     |     |               | BALLISTIC                       |
|                          |                  |                 |     |     |     |               | BLAST                           |
|                          |                  |                 |     |     |     |               | CORROSION                       |
|                          |                  |                 |     |     |     |               | SEISMIC                         |

\* - When tested on selected doorsets



The Surelock McGill Cylinder Guard range have been developed and continuously improved to meet the evolving threats of the terrorist world. Providing protection against multiple threat, including manipulation, bumping, physical attack, ballistic, blast and fire. Successfully tested and certified to many international standards.

The cylinder guard range can accommodate round rim and profile cylinders commercially available from almost all manufacturers. A well proven modular mounting footprint, together with a balance of unique materials enables the correct level of security protection to be selected.

## FEATURES

- Modular mounting
- Cycle tested to over 1,000,000 cycles, on selected cylinders
- To suit rim and profile cylinders (order cylinder separately)
- Available for mortice, or surface mounted locks

## BENEFITS

- Combined risk protection
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible fixings



GSL2 / GSL3  
SR2 / 3



GSL4  
SR4



GSL5  
SR5



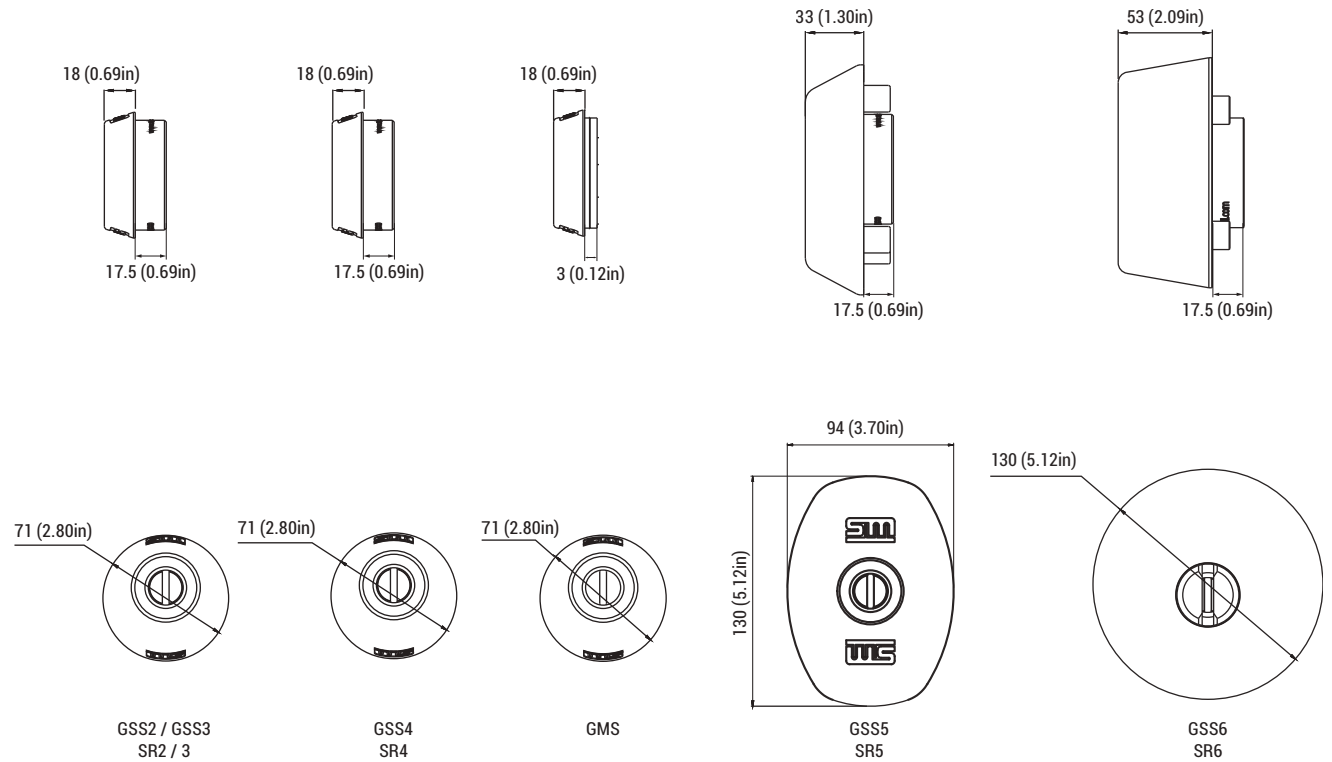
GSL6  
ULTIMATE

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |     |     |    |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION | SEISMIC TESTED | CYCLES         |             |             |             |      |  |  |  |  |  |  |
|---------------|-------|-----|-----|-----|-----|-----|----|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|-------------|-------------|------|--|--|--|--|--|--|
| ISSUE 8       |       |     |     |     |     |     |    | ISSUE 7 |           |         |         |        |        |        |                   |                 |        |           |                |                |             |             |             |      |  |  |  |  |  |  |
| TIME          | TOOLS |     |     |     |     |     |    |         |           |         |         |        |        |        |                   |                 |        |           |                |                | SR 1-8      |             |             |      |  |  |  |  |  |  |
|               | A     | B   | C   | D   | E   | F   | G  | H       |           |         |         |        |        |        |                   |                 |        |           |                |                |             |             |             |      |  |  |  |  |  |  |
| 20 MIN        |       |     |     |     |     |     |    |         | UP TO SR6 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25 | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |             |             |      |  |  |  |  |  |  |
| 15 MIN        |       |     |     |     |     |     |    |         |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             | EXV 15 | EN 1634-1 | EN 1670:GR4    |                | EN 1670:GR3 | EN 1670:GR2 | EN 1670:GR1 | 500K |  |  |  |  |  |  |
| 10 MIN        | A10   | B10 | C10 | D10 | E10 | F10 |    |         |           | 30 MINS | RC3     |        |        |        | FB5               | UL 305          |        |           | FB3            | 200K           |             |             |             |      |  |  |  |  |  |  |
| 5 MIN         |       |     |     |     |     |     | G5 |         |           | 15 MINS | RC2     |        |        |        | BR1               |                 |        |           |                |                |             |             |             |      |  |  |  |  |  |  |
| 3 MIN         |       |     |     |     |     |     |    |         |           | 5 MINS  | RC1     |        |        |        |                   |                 |        |           |                |                |             |             |             |      |  |  |  |  |  |  |
| 1 MIN         |       |     |     |     |     |     |    |         |           |         |         |        |        |        |                   |                 |        |           |                |                |             |             |             |      |  |  |  |  |  |  |

## CYLINDER GUARDS TECHNICAL DRAWINGS



## SELF CODING SYSTEM

Cylinder Guards have a simple ordering code that covers the chosen level of security protection, cylinder profile, lock mounting and fixings.

\*Contact our technical department for more information.

EXAMPLE ORDER CODE: GS-LD05-RR61

| PRODUCT NAME | ACCREDITATION | SECURITY RATING (SR/SC) | ATTACK DURATION             | CYLINDER PROFILE        | FIXINGS               | FIXING PLATE |
|--------------|---------------|-------------------------|-----------------------------|-------------------------|-----------------------|--------------|
| GS Surface   | L LPS 1175    | SR1 – SR8 (Issue 7)     |                             | RR Round Rim (Standard) | X No fixings supplied | X None       |
| GM Mortice   | L LPS 1175    | A – H (Issue 8)         | 01, 03, 05, 10, 15, 20 Mins | AR Abloy Rim            | 4 40mm (1 1/2")       | 1 Included   |
|              | S LPS 2081    | A01 or B03              |                             | SI Mortice (Screw-in)   | 5 50mm (2")           |              |
|              | E EN 1627     | RC1 – RC6               |                             | SO Scan Oval            | 6 60mm (2 3/8")       |              |
|              | F FEBR        | X                       | 05, 15, 30, 60 Mins         | EU Euro-profile         | 7 70mm (2 3/4")       |              |
|              | P PAS 24      | XXX                     |                             |                         | 8 80mm (3 1/4")       |              |
|              | M MFES*       | 500 or ULT              |                             |                         | 9 90mm (3 1/2")       |              |

The LEO range is an aesthetic and rugged exit device trim with key and lever handle for panic/emergency exit doors. LEO's are well proven in extremely challenging environments and available as surface mounted or recessed for higher level resistance against forced entry. The range also protects against increasing levels of physical attack.

The LEO modular design enables them to operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



SURFACE LEO

## FEATURES

- Surface, or recessed into the door for higher security
- 8mm (5/16") or 9.5mm (3/8") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- To suit morticed (screw-in) or profile cylinder (order cylinder separately)
- Bolt-through mounting from inside the door

## BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals



RECESSED LEO

SURFACE LEO

## OPTIONAL ENHANCEMENTS

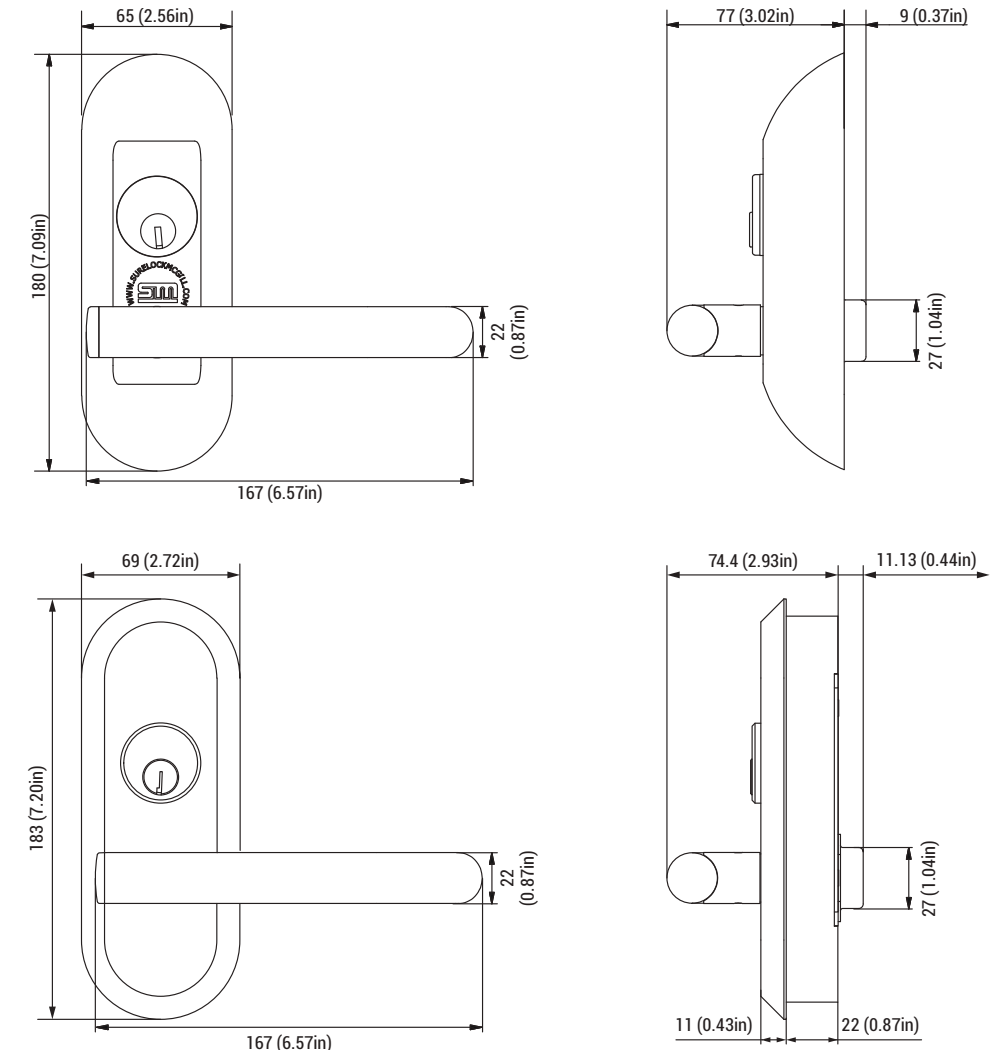
- Key retained in unlocked position (provides automatic re-locking)
- Monitoring of lock status
- Cylinder protection guard with anti-drilling plate

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |   |   |   |   |   |   |   |        | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|---|---|---|---|---|---|---|--------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |   |   |   |   |   |   |   | SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B | C | D | E | F | G | H |        |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |   |   |   |   |   |   |   |        | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |   |   |   |   |   |   |   |        |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |   |   |   |   |   |   |   |        | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |   |   |   |   |   |   |   |        | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |   |   |   |   |   |   |   |        | 15 MINS | RC2     |         |        |     | UL 305  | FB4               | EXV 15          | CERTIFIRE | EN 1670:GR2 |                | 200K      |
| 1 MIN         |               |   |   |   |   |   |   |   |        | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 |           | EN 1670:GR1 |                |           |

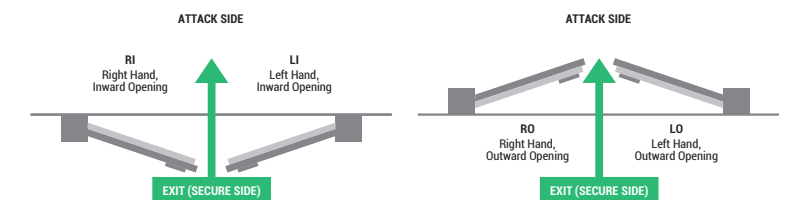
## LEO TECHNICAL DRAWINGS



## ORDERING CODES

LEO lockable handles have a simple ordering code that covers the chosen mounting method, cylinder profile, cylinder protection and handing configuration.

EXAMPLE ORDER CODE: LEO-R-SIMLSA-RH



| Product Name |          | Cylinder Profile |                    | Re-Locking |                        | Lever Handle |                                     | Drive Spindle |              | Handing |            | Optional Enhancements |                                  |
|--------------|----------|------------------|--------------------|------------|------------------------|--------------|-------------------------------------|---------------|--------------|---------|------------|-----------------------|----------------------------------|
| LEO-S        | Surface  | SI               | Mortice (Screw-in) | M          | Manual                 | LS           | Lever handle<br>(Tubular straight)  | A             | 8mm (5/16")  | RH      | Right hand | M01                   | Lock Monitoring<br>(Microswitch) |
| LEO-R        | Recessed | EU               | Euro-profile       | A          | Auto<br>(Key retained) | LE           | Lever handle<br>(Tubular ergonomic) | B             | 9.5mm (3/8") | LH      | Left hand  |                       |                                  |

## EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.



The MLK is a basic cost-effective exit device trim with key and lever handle for panic/emergency exit doors. MLK's are surface mounted and provide a higher level of physical protection than commercially available exit device trims.

The MLK modular design enables them to operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



### FEATURES

- 8mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)
- Bolt-through mounting from inside the door

### BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals

### OPTIONAL ENHANCEMENTS

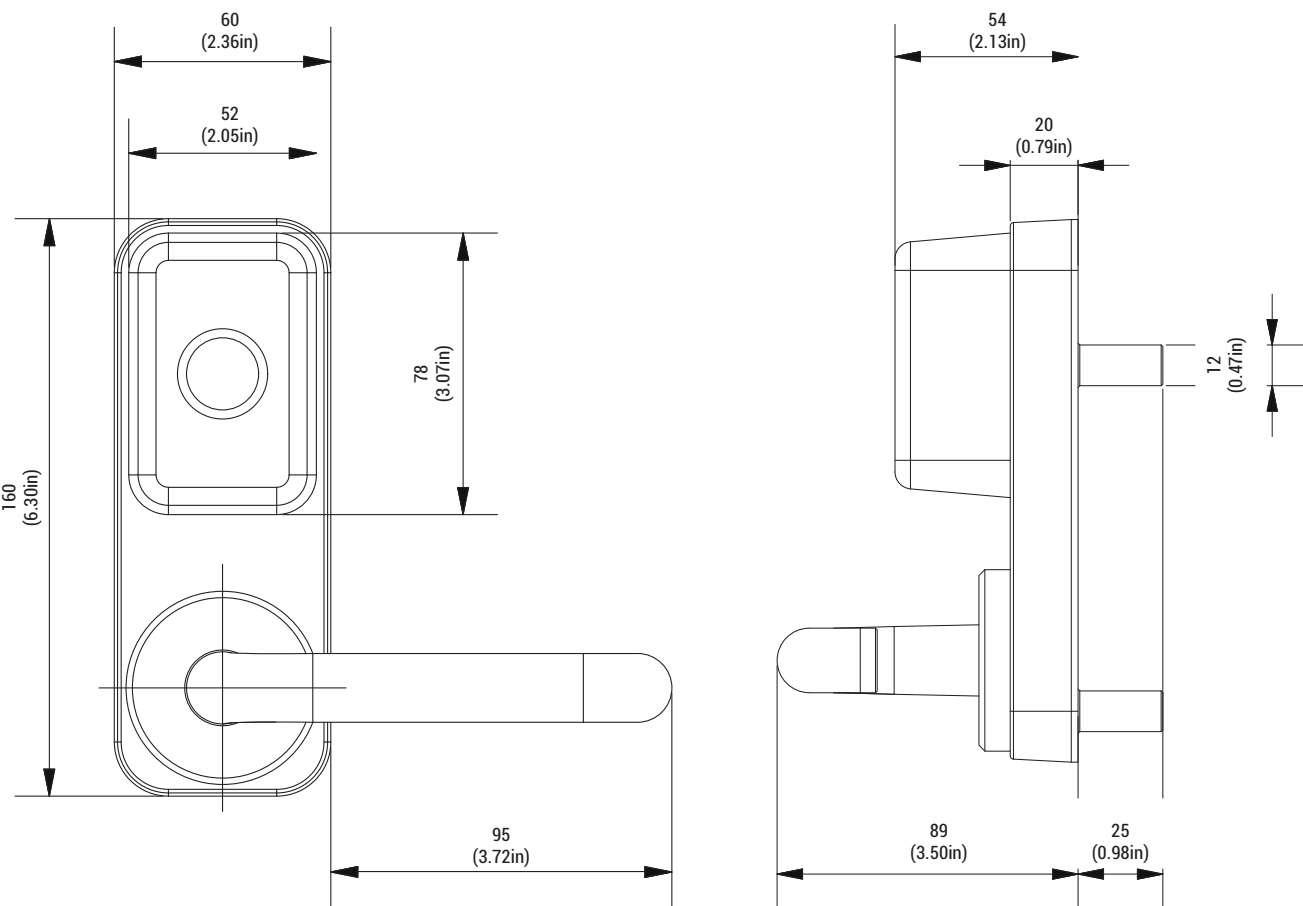
- Key retained in unlocked position (provides automatic re-locking)
- Monitoring of lock status
- Choice of lever handle type

### PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |    |   |   |   |   |   |   |         | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|----|---|---|---|---|---|---|---------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |    |   |   |   |   |   |   | ISSUE 7 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B  | C | D | E | F | G | H | SR 1-8  |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |    |   |   |   |   |   |   |         | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               |                 | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |    |   |   |   |   |   |   |         |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |    |   |   |   |   |   |   |         | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |    |   |   |   |   |   |   |         | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         | A3            | B3 |   |   |   |   |   |   |         | 15 MINS | RC2     | BR1     |        |     | UL 305  | FB4               |                 | CERTIFIRE | EN 1670:GR2 |                | 200K      |
| 1 MIN         |               |    |   |   |   |   |   |   |         | 5 MINS  | RC1     |         |        |     |         | FB3               |                 |           | EN 1670:GR1 |                |           |

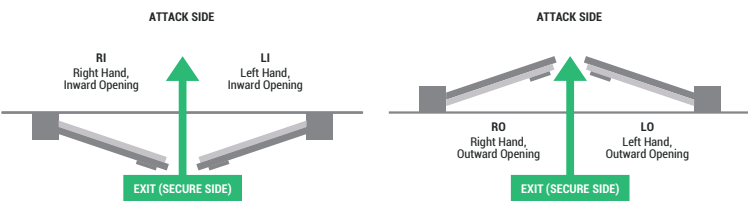
### MLK TECHNICAL DRAWING



### ORDERING CODES

MLK has a simple ordering code that covers the security level, cylinder profile and handing configuration.

EXAMPV ORDER CODE: MLK-RRMLS-RH



| PRODUCT NAME | CYLINDER PROFILE | RE-LOCKING   |   | CYLINDER TYPE       |    | HANDING                         |    | OPTIONAL ENHANCEMENTS |                               |
|--------------|------------------|--------------|---|---------------------|----|---------------------------------|----|-----------------------|-------------------------------|
| MLK          | RR               | Round Rim    | M | Manual              | LS | Lever handle (Tubular straight) | XX | Non-handed            | M01                           |
|              | SO               | Scan Oval    | A | Auto (Key retained) | US | Profile handle (Straight)       | RH | Right hand            |                               |
|              | EU               | Euro-profile |   |                     | TR | Turnknob handle                 | LH | Left hand             |                               |
|              |                  |              |   |                     |    |                                 |    |                       | Lock monitoring (Microswitch) |

### EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The ELK is a range of robust exit device trim with key and lever handle for panic/emergency exit doors. ELK's are recessed into the door for higher level resistance against forced entry. The range protects against increasing levels of physical attack, meeting various international standards.

The ELK modular design enables them to operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability.



### FEATURES

- Recessed into the door for higher level resistance against physical attack
- 8mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability (ELK-3)
- Engineered using selected composite materials, providing higher levels of attack resistance (ELK-4)
- Cycle tested to over 500,000 cycles
- To suit rim and profile cylinders (order cylinder separately)
- Bolt-through mounting from inside the door

### BENEFITS

- Provides external key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals

### OPTIONAL ENHANCEMENTS

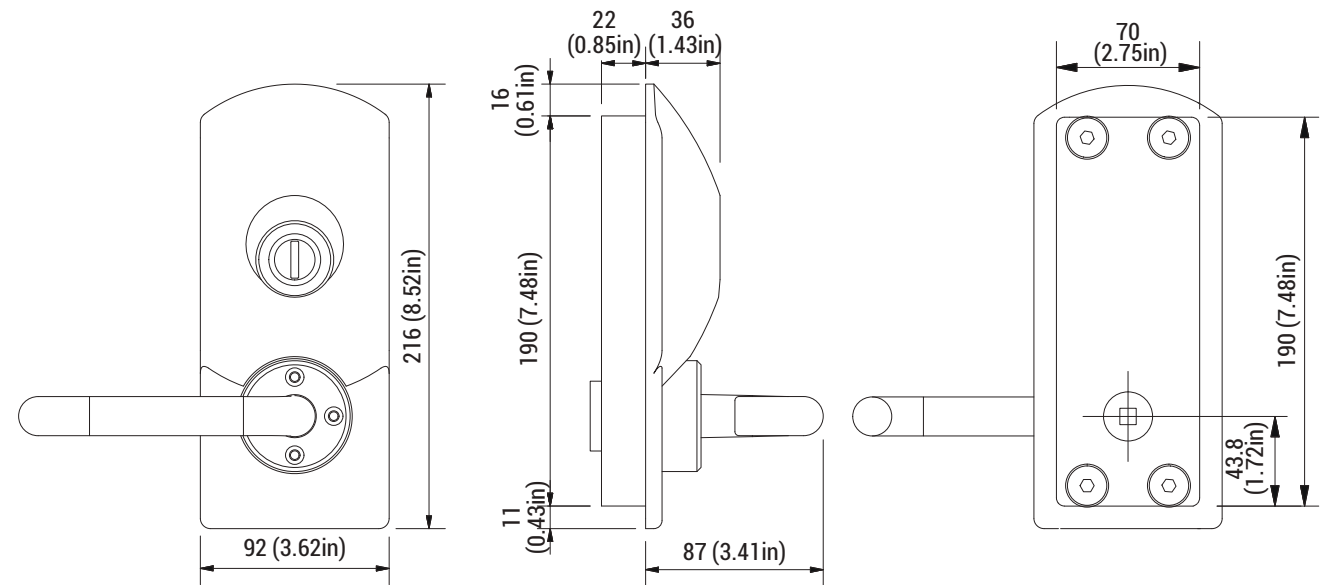
- Key retained in unlocked position (provides automatic re-locking)
- Monitoring of lock status
- Choice of lever handle type

### PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |   |   |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION | SEISMIC TESTED | CYCLES         |             |           |             |
|---------------|-------|-----|-----|-----|---|---|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|-------------|-----------|----------------|----------------|-------------|-----------|-------------|
| ISSUE 8       |       |     |     |     |   |   |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |             |           |                |                |             |           |             |
| TIME          | TOOLS |     |     |     |   |   |   |         |           |         |         |        |        |        |                   |                 |             |           |                |                | SR 1-8      |           |             |
|               | A     | B   | C   | D   | E | F | G | H       |           |         |         |        |        |        |                   |                 |             |           |                |                |             |           |             |
| 20 MIN        |       |     |     |     |   |   |   |         | UP TO SR3 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25      | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |           |             |
| 15 MIN        |       |     |     |     |   |   |   |         |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             |             | EXV 15    | EN 1634-1      |                | EN 1670:GR4 | CERTIFIRE | EN 1670:GR3 |
| 10 MIN        | A10   | B10 | C10 | D10 |   |   |   |         |           | 30 MINS | RC3     | BR1    |        |        | UL 305            | FB5             | EN 1670:GR2 |           | 200K           |                |             |           |             |
| 5 MIN         |       |     |     |     |   |   |   |         |           | 15 MINS | RC2     |        |        |        |                   | FB4             | EN 1670:GR1 |           |                |                |             |           |             |
| 3 MIN         |       |     |     |     |   |   |   |         |           | 5 MINS  | RC1     |        |        |        |                   | FB3             |             |           |                |                |             |           |             |
| 1 MIN         |       |     |     |     |   |   |   |         |           |         |         |        |        |        |                   |                 |             |           |                |                |             |           |             |

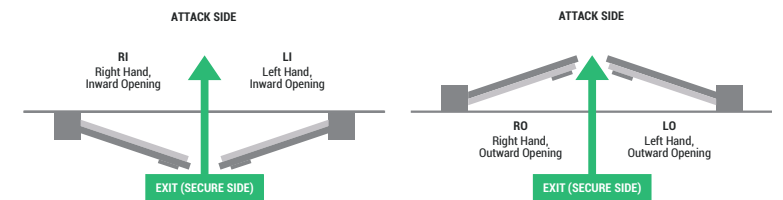
### ELK TECHNICAL DRAWINGS



### ORDERING CODES

ELK has a simple ordering code that covers the security level, cylinder profile and handing configuration.

EXAMPLE ORDER CODE: ELK3-RRALS-RH



| PRODUCT NAME | CYLINDER PROFILE | RE-LOCKING            | CYLINDER TYPE                       | HANDING       | OPTIONAL ENHANCEMENTS             |
|--------------|------------------|-----------------------|-------------------------------------|---------------|-----------------------------------|
| ELK-3        | RR Round Rim     | M Manual              | LS Lever handle (Tubular straight)  | RH Right hand | M01 Lock monitoring (Microswitch) |
| ELK-4        | SO Scan Oval     | A Auto (Key retained) | LE Lever handle (Tubular ergonomic) | LH Left hand  |                                   |
|              | EU Euro-profile  |                       | US Profile handle (Straight)        |               |                                   |
|              |                  |                       | TR Turnknob handle                  |               |                                   |

### EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.

The Panic Hasp & Staple is a range of high security exit device trim, providing padlock and handle entry for panic/emergency doors. When secured, the hasp shields the padlock and provides weather protection. With the padlock removed the hasp becomes the entry handle. The range protects against increasing levels of physical attack, meeting various international standards.

The Hasp and Staple modular design operate Surelock McGill panic/emergency systems, as well as devices from other manufacturers subject to testing. Please contact our sales team for suitability



HS1



HS2



HS3

FEATURES

- Surface mounted
- Non handed
- 8mm (5/16") square drive shaft
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 500,000 cycles
- Compatible with open shackle padlocks from leading manufacturers (order padlocks separately)
- Bolt-through mounting from inside the door

BENEFITS

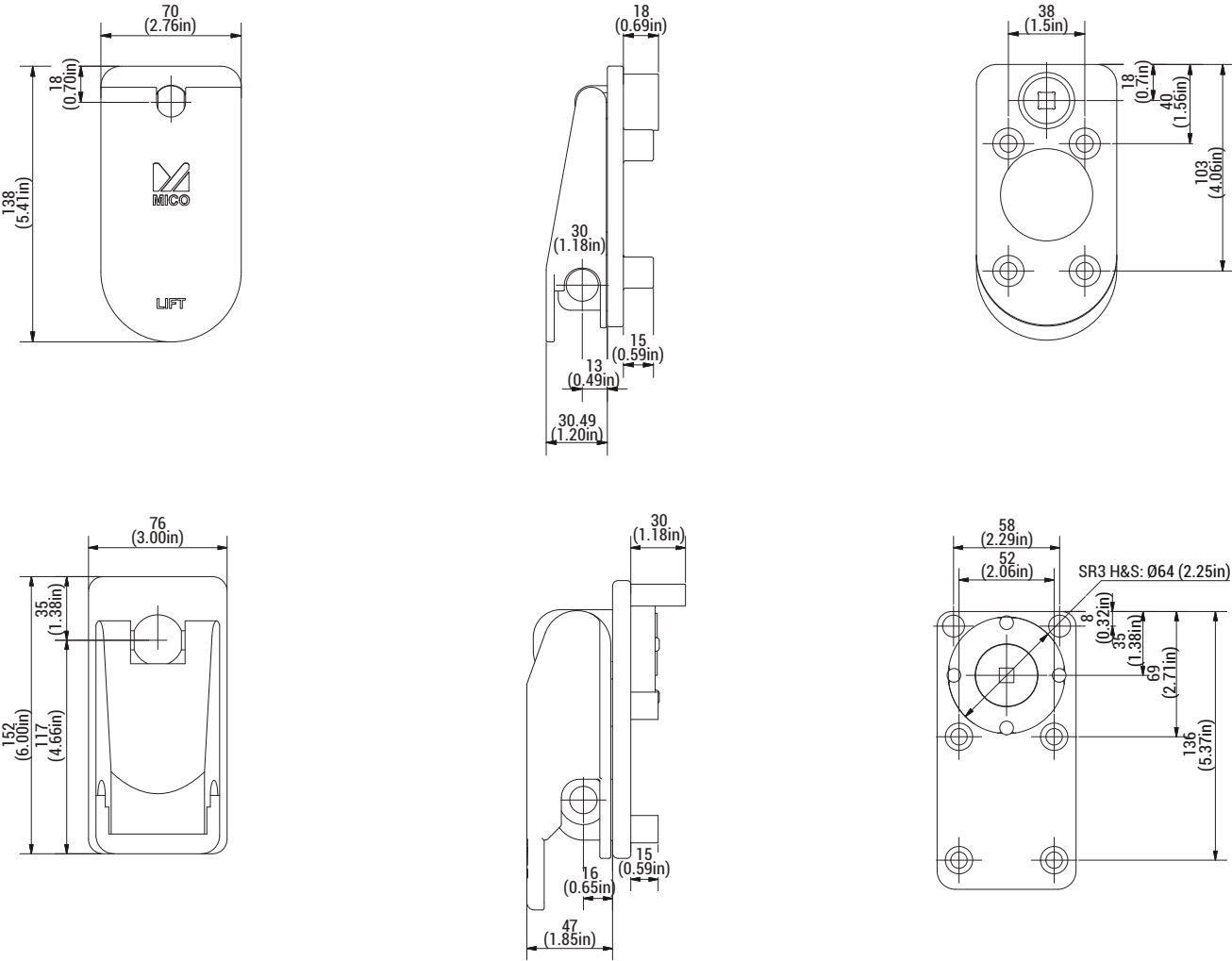
- Provides external padlock/key entry to a panic or emergency exit door
- Certified to a range of international standards (see Product Performance Chart)
- Engineered for longevity and trouble-free service
- Heavy duty design with no visible mounting screws
- Modular design enables use on other manufacturers devices, subject to testing approvals
- Maximum 14mm (9/16") diameter shackle

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |    |    |   |   |   |   |   | ISSUE 7   | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|-------|----|----|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-------------|-------------|----------------|-----------|
| ISSUE 8       |       |    |    |   |   |   |   |   |           |         |         |         |        |     |         |                   |                 |             |             |                |           |
| TIME          | TOOLS |    |    |   |   |   |   |   |           |         |         |         |        |     |         |                   |                 |             |             |                |           |
|               | A     | B  | C  | D | E | F | G | H |           |         |         |         |        |     |         |                   |                 |             |             |                |           |
| 20 MIN        |       |    |    |   |   |   |   |   | UP TO SR3 | 60 MINS | RC6     | BR3     | PAS 24 | SRB | EN 1125 | FB7               | EXV 25          | UL 10C      | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |       |    |    |   |   |   |   |   |           | RC5     |         |         |        |     |         |                   |                 |             |             |                |           |
| 10 MIN        |       |    |    |   |   |   |   |   |           | 45 MINS | RC4     | BR2     |        |     | EN 179  | FB6               | EN 1634-1       | EN 1670:GR4 |             |                |           |
| 5 MIN         | A5    | B5 | C5 |   |   |   |   |   |           | 30 MINS | RC3     |         |        |     |         | FB5               |                 | EN 1670:GR3 | 500K        |                |           |
| 3 MIN         |       |    |    |   |   |   |   |   |           | 15 MINS | RC2     | BR1     |        |     | UL 305  | FB4               | EXV 15          | EN 1670:GR2 |             |                |           |
| 1 MIN         |       |    |    |   |   |   |   |   |           | 5 MINS  | RC1     |         |        |     |         | FB3               |                 | EN 1670:GR1 | 200K        |                |           |

HASP & STAPLE TECHNICAL DRAWING



SELF CODING SYSTEM

The Hasp & Staple range has a simple ordering code that covers the security level tested to on selected doorsets.

EXAMPLE ORDER CODE: HS2

| HASP & STAPLE | SECURITY RATING |          |      |
|---------------|-----------------|----------|------|
| MODEL         | BASE            | ENHANCED | HIGH |
| HS1           | •               |          |      |
| HS2           |                 | •        |      |
| HS3           |                 |          | •    |

EXAMPLE ENTRY/EXIT DIRECTIONS

See coding chart above for reference



For further ENTRY and EXIT methods & a full range of enhancements please contact our sales office.





ANCILLARIES

|             | ANCILLARIES | SECURITY HINGES | BARREL BOLTS | VISION PANELS | LOUVERS | DOOR STAY | ADO DOOR OPERATORS | KEY RINGS | ANTI-LIGATURE HANDLES | HYDUTY LEVER HANDLES | THROUGH-BOLT KIT |                               |
|-------------|-------------|-----------------|--------------|---------------|---------|-----------|--------------------|-----------|-----------------------|----------------------|------------------|-------------------------------|
| PAGE        | 70          | 74              | 76           | 78            | 80      | 82        | 86                 | 88        | 90                    | 92                   |                  | INSTALLATION                  |
|             | •           | •               |              |               | •       | •         |                    | •         | •                     | •                    |                  | SURFACE MOUNTED               |
|             | •           |                 |              |               |         |           |                    | •         |                       |                      |                  | MORTICE FITTED                |
|             |             |                 | •            | •             |         |           |                    |           |                       |                      |                  | FITTED INTO DOOR CORE         |
|             |             |                 |              | •             |         |           |                    |           |                       |                      |                  | FITTED INTO WALL CONSTRUCTION |
| PERFORMANCE |             |                 |              |               |         |           |                    |           |                       |                      |                  |                               |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | EN 1125                       |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | EN 179                        |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | UL 305                        |
|             | •           | •               | •            |               |         |           |                    |           |                       |                      |                  | EN 1634-1 *                   |
|             | •           |                 |              |               |         |           |                    |           |                       |                      |                  | UL 10C *                      |
|             |             |                 | •            |               |         |           |                    |           |                       |                      |                  | CERTIFIRE                     |
|             | •           | •               | •            | •             |         |           |                    |           |                       |                      |                  | LPS 1175 *                    |
|             | •           |                 | •            |               |         |           |                    |           |                       |                      |                  | FEBR *                        |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | EN 1627 *                     |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | STS 202 *                     |
|             | •           | •               | •            | •             |         |           |                    |           |                       |                      |                  | SRB *                         |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | PAS 24                        |
|             | •           |                 | •            |               |         |           |                    |           |                       |                      |                  | EN 1522 *                     |
|             | •           |                 | •            | •             |         |           |                    |           |                       |                      |                  | ISO 16933 *                   |
|             | •           | •               |              | •             | •       |           | •                  | •         | •                     |                      |                  | EN 1670                       |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | TESTING                       |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | LIFE SAFETY                   |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | FIRE                          |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | SECURITY                      |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | BALLISTIC                     |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | BLAST                         |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | CORROSION                     |
|             |             |                 |              |               |         |           |                    |           |                       |                      |                  | SEISMIC                       |

(\*) - When tested on selected doorsets



A range of heavy duty 5-knuckle security hinges specially designed for high performance doors. Each hinge provides unrivalled levels of load carrying capability for its size and able to withstand blast, ballistic, forced entry attacks and fire resistance.

Self-lubricating bearings within and between each knuckle ensure continued smooth operation and longevity. Optional unique dog bolts (security pins) offer further levels of protection. Tested and accredited to meet various international standards. Manufactured in 316 stainless steel for hostile environments and durability.



## FEATURES

- Unrivalled levels of load carrying capability
- Robust five-knuckle design
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles
- Sealed top and bottom knuckles

## BENEFITS

- Self-lubricating bearings
- Engineered for longevity and trouble-free service
- Certified to a range of international standards (see Product Performance Chart)

## OPTIONS

- Knock-in & Screw-in dog bolts (security pins) on HA6 & HA7 hinges
- Extended leaves for thicker doors on HA6 & HA7 hinges
- Special leaf width cutting, and mounting screw positions accommodated on 80mm leaves

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |    |    |   |   |   |   |   |         | FEBR | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE | CORROSION | SEISMIC TESTED | CYCLES |
|---------------|---------------|----|----|---|---|---|---|---|---------|------|---------|---------|--------|-----|--------|-------------------|-----------------|------|-----------|----------------|--------|
| TIME          | ISSUE 8 TOOLS |    |    |   |   |   |   |   | ISSUE 7 |      |         |         |        |     |        |                   |                 |      |           |                |        |
|               | A             | B  | C  | D | E | F | G | H | SR 1-8  |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 20 MIN        |               |    |    |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 15 MIN        |               |    |    |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 10 MIN        |               |    |    |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 5 MIN         | A5            | B5 | C5 |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 3 MIN         |               |    |    |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |
| 1 MIN         |               |    |    |   |   |   |   |   |         |      |         |         |        |     |        |                   |                 |      |           |                |        |

## HA6 – 100MM (3.94IN) 5-KNUCKLE SECURITY HINGE

### Technical information

- 100mm (3.94in) height x 19mm (0.75in) closed thickness
- Stainless steel 316 for maximum longevity and hostile environments
- Oilite bearings within and between each knuckle
- Sealed top and bottom knuckles
- Additional through-to-wall fixing provision for enhanced security
- Longevity, tested to over 1,000,000 cycles
- CE marked BS EN 1935:2002



HA6

## HA7 – 146MM (5.75IN) 5-KNUCKLE SECURITY HINGE

### Technical information

- 146mm (5.75in) height x 22.2mm (0.87in) closed thickness
- Stainless steel 316 for maximum longevity and hostile environments
- Oilite bearings within and between each knuckle
- Sealed top and bottom knuckles
- Additional through-to-wall fixing provision for enhanced security
- Longevity, tested to over 1,000,000 cycles
- CE marked BS EN 1935:2002



HA7

## HA8 – 210MM (8.27IN) 5-KNUCKLE SECURITY HINGE

### Technical information

- 210mm (8.27in) height x 32mm (1.26in) closed thickness
- Stainless steel 316 for maximum longevity and hostile environments
- Oilite bearings within and between each knuckle
- Sealed top and bottom knuckles
- Additional through-to-wall fixing provision for enhanced security
- Longevity, tested to over 1,000,000 cycles
- CE marked BS EN 1935:2002



HA8

## SELF CODING SYSTEM

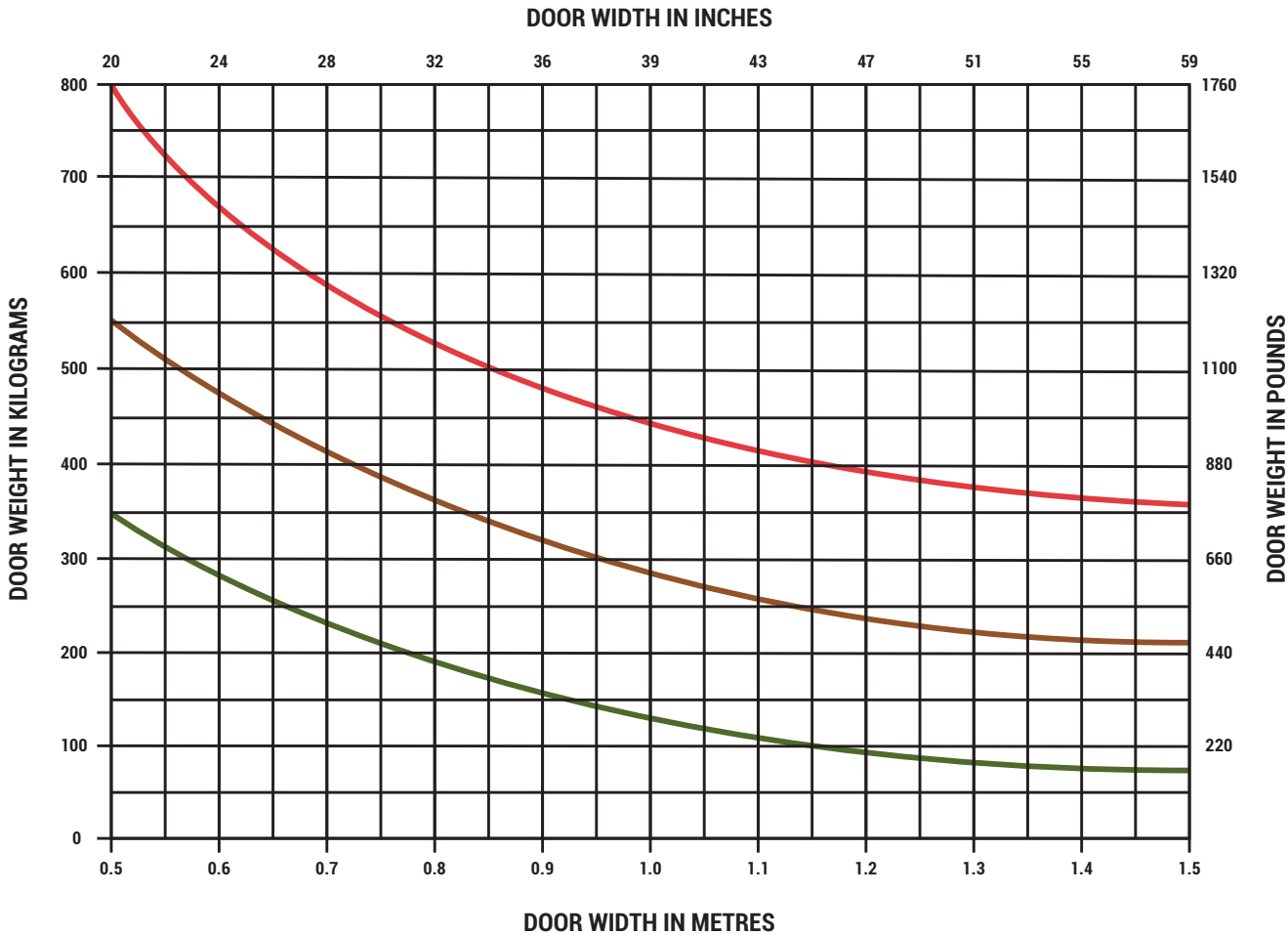
5-Knuckle Security Hinges have a simple ordering code that covers the size and security level tested to on selected doorsets.

EXAMPLE ORDER CODE: HA6-40-K00

| MODEL | NOMINAL SIZES | INDIVIDUAL LEAF WIDTH     | HINGE PINS | FINISH                             |
|-------|---------------|---------------------------|------------|------------------------------------|
|       | HEIGHT        | KNUCKLE & LEAF THICKNESS  |            |                                    |
| HA6   | 100mm (4in)   | 19mm (3/4") x 8mm (5/16") | 40         | 40mm (1 1/2") HA6 & HA7 (Standard) |
| HA7   | 146mm (6in)   | 22mm (7/8") x 10mm (3/8") | 50         | 50mm (2") HA8 (Standard)           |
| HA8   | 210mm (8in)   | 19mm (3/4") x 8mm (5/16") | 60         | 60mm (2 1/4") HA6 & HA7 (Extended) |
|       |               |                           | 80         | 80mm (3 1/8") HA6 & HA7 (Extended) |
|       |               |                           |            | 16 Lacquered bronze                |
|       |               |                           |            | 99 Other special                   |

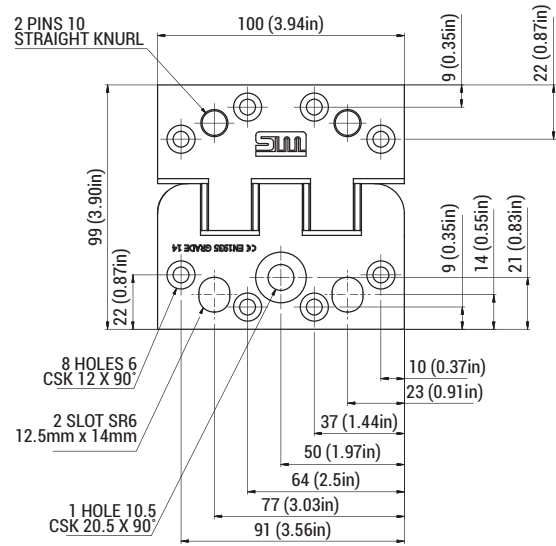
## TECHNICAL INFORMATION

The following chart is a guide for maximum door sizes and weights, based on a door height of 2.2 metres (7ft) using three hinges equally spaced.

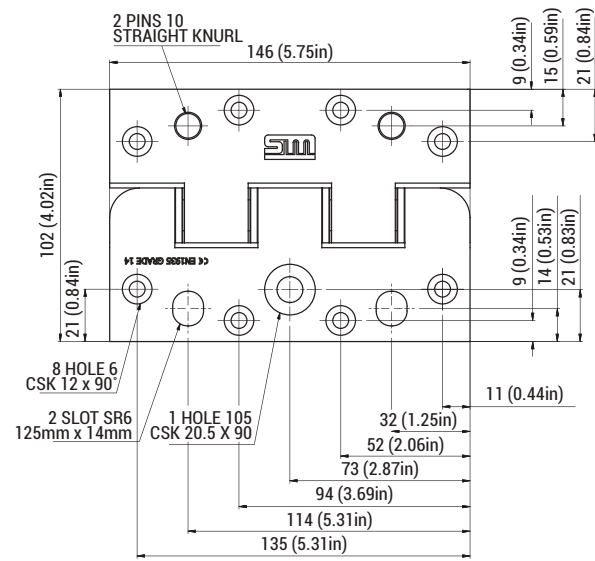


## 5-KNUCKLE SECURITY HINGES TECHNICAL DRAWINGS

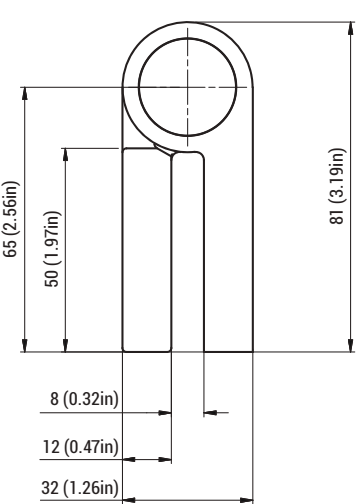
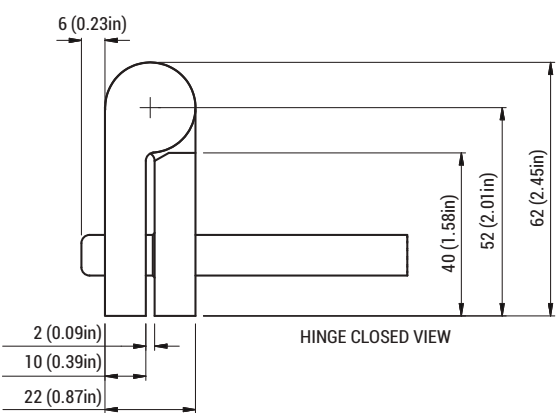
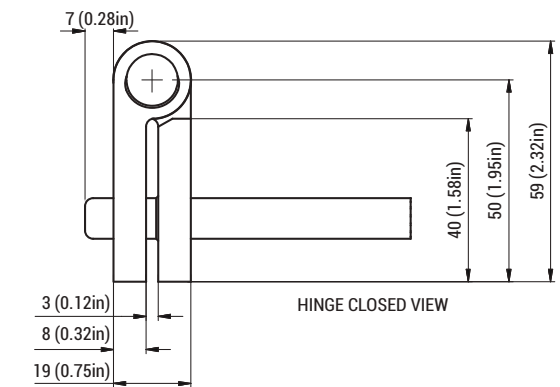
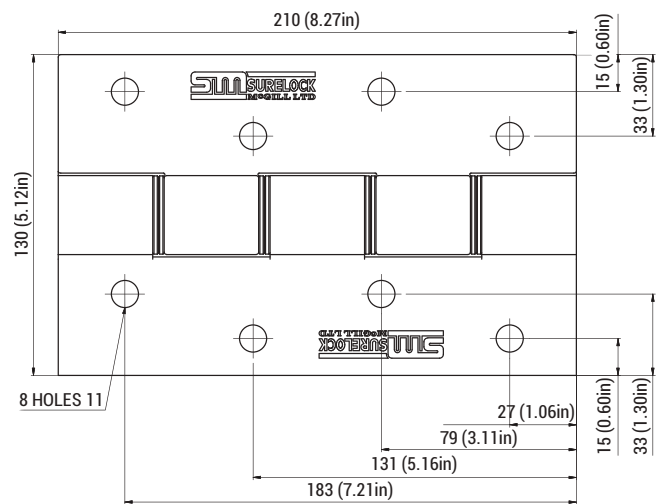
HA6



HA7



HA8



A heavy duty range of surface fitting Barrel Bolts designed to complement our wide range of high security locking systems. Ideal for securing the passive leaf of a double doorset and removeable upper or side panels.

The range incorporates a selection of bolt sizes and bolt engagement, with extended lengths available for taller doors. Successfully tested to a wide range of international standards. Manufactured in 316 stainless steel for hostile environments and durability.

### FEATURES

- Surface fitting for maximum strength
- Size selection to meet security, including extended reach
- 316 grade stainless steel construction for hostile environments and durability
- Padlock facility in thrown position (order padlock separately)

### BENEFITS

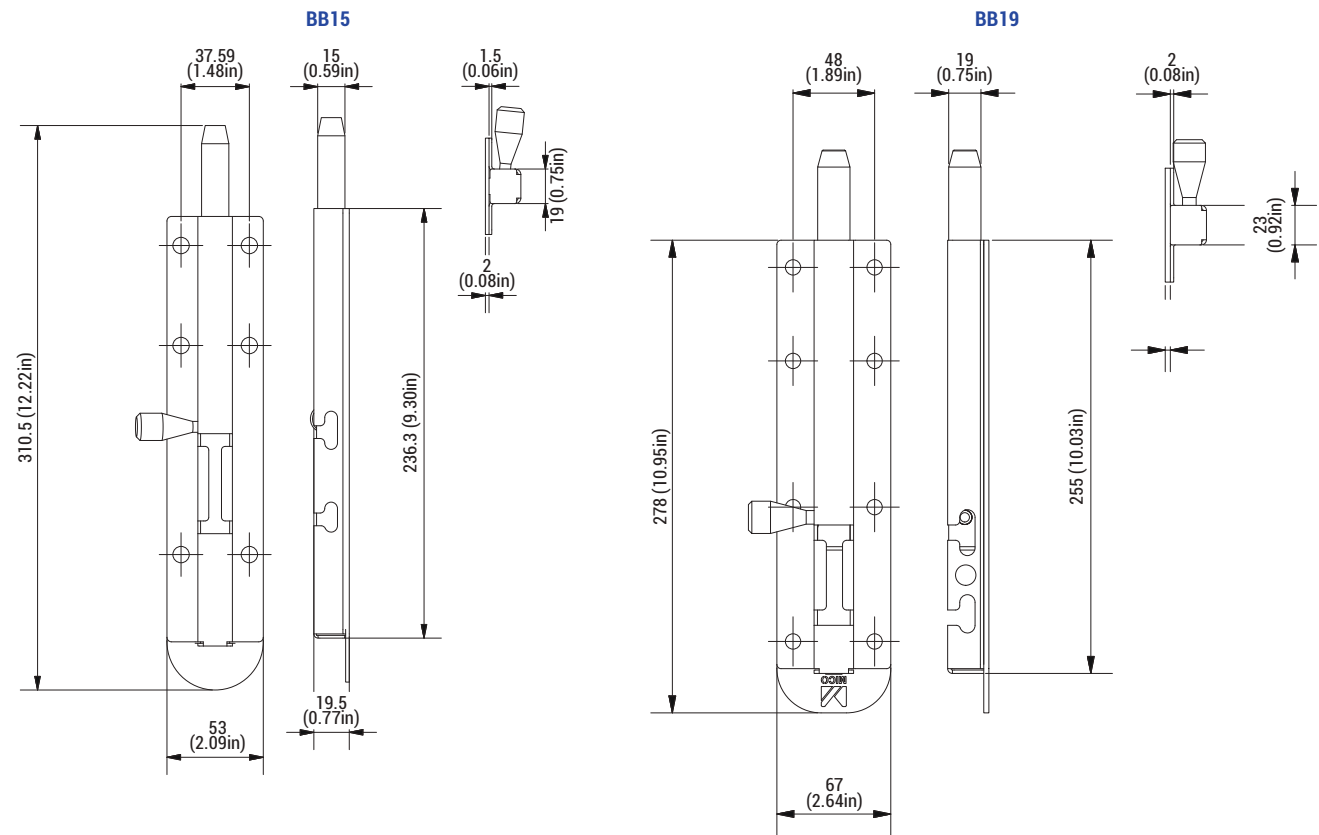
- Certified to a range of international standards (see Product Performance Chart)
- Easy retrofit, to upgrade existing doors
- Successfully tested on tested on security, blast, ballistic and fire doors

### OPTIONAL ENHANCEMENTS

- Extensions for taller doors 600mm (24") or 1,000mm (40")
- Mounting screws and strikes to be ordered separately



### BARREL BOLT TECHNICAL DRAWING



### SELF CODING SYSTEM

High Security Barrel Bolts have a simple ordering code that covers the size and security level tested to on selected doorsets.

EXAMPLE ORDER CODE: BB15

| MODEL   | SECURITY RATING | DIMENSION CODES |               |                 |               | EXTENSION CODES   |                     |
|---------|-----------------|-----------------|---------------|-----------------|---------------|-------------------|---------------------|
| VARIANT | LPS 1175        | BOLT DIA (A)    | THROW (B)     | LENGTH (C)      | WIDTH (D)     | 600mm (24") (600) | 1000mm (40") (1000) |
| BB12    | -               | 12mm (1/2")     | 25mm (1")     | 150mm (6")      | 40mm (1 5/8") | N/A               | N/A                 |
| BB15    | SR6             | 15mm (5/8")     | 50mm (2")     | 260mm (10 3/4") | 53mm (2 1/4") | 600               | 1000                |
| BB19    |                 | 19mm (3/4")     | 35mm (1 3/8") | 280mm (11")     | 66mm (2 5/8") |                   |                     |

### PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |     |     |     |     |     |   |   |           | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|-----|-----|-----|-----|-----|---|---|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |     |     |     |     |     |   |   | ISSUE 7   |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B   | C   | D   | E   | F   | G | H | SR 1-8    |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |     |     |     |     |     |   |   | UP TO SR6 | 60 MINS | RC6     | BR3     | PAS 24 | SRB | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |               |     |     |     |     |     |   |   |           |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        | A10           | B10 | C10 | D10 | E10 | F10 |   |   |           | 45 MINS | RC4     | BR2     |        |     |         |                   |                 |           |             |                |           |
| 5 MIN         |               |     |     |     |     |     |   |   |           | 30 MINS | RC3     |         |        |     |         |                   |                 |           |             |                |           |
| 3 MIN         |               |     |     |     |     |     |   |   |           | 15 MINS | RC2     | BR1     |        |     |         |                   |                 |           |             |                |           |
| 1 MIN         |               |     |     |     |     |     |   |   |           | 5 MINS  | RC1     |         |        |     | UL 305  | FB3               | EXV 15          | CERTIFIRE | EN 1670:GR2 |                | 200K      |
|               |               |     |     |     |     |     |   |   |           |         |         |         |        |     |         |                   |                 |           | EN 1670:GR1 |                |           |

A range of Vision Panel Lites and Windows to provide awareness of pedestrians, or potential threats on the other side of the door, or wall. Each designed to provide resistance to a combination of forced entry, blast, ballistic and fire protection. Successfully tested and certified to many international standards.

Vision Panel Lites are supplied as a pre-assembled package for fast-easy installation, suitable for varying door and wall thicknesses, a perfect additional feature for high performance doors.

## FEAUTES

- Pre-assembled and bolt-through mounting makes for a fast-easy Installation
- Choice of multiple threat protection
- Standard sizes for fast delivery (clear vision)
- 170mm (6 5/8") x 170mm (6 5/8")
- 170mm (6 5/8") x 370mm (14 1/2")
- 170mm (6 5/8") x 670mm (26 3/8")

## BENEFITS

- Easy retrofit, to upgrade existing doors and walls
- Certified to a range of international standards (see Product Performance Chart)

## OPTIONAL ENHANCEMENTS

- 316 grade stainless steel construction for hostile environments and durability
- Additional security mesh (included as standard on SR4 and above)
- Powered glass for clear or diffused view at the touch of a button
- Maximum measurements for non-standard sizes (clear vision)
- Non-fire rated – 1100mm (43") wide x 2300mm (90") high
- E30 fire rated – 1125mm (44") wide x 1250mm (49") high, max area 1.25m<sup>2</sup> (10sqft)
- SR5 & SR6 – 170mm (6 1/2") x 370mm (14 1/2")

Non-standard sizes will have additional cost and lead times applicable

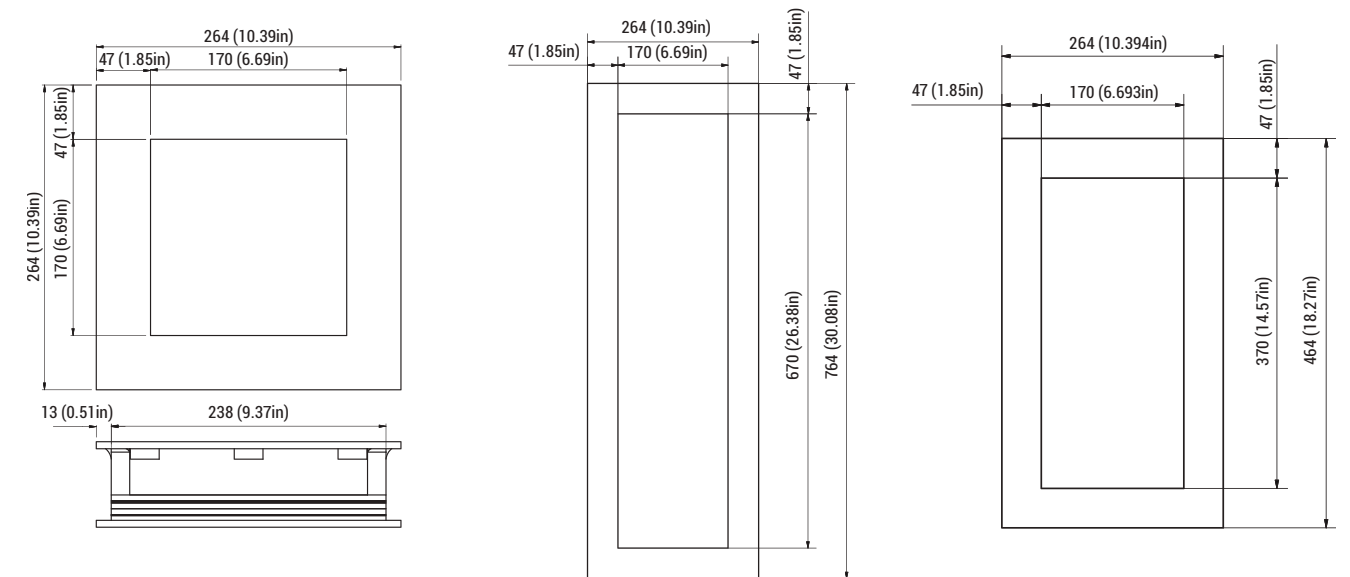


EXTERNAL VIEW



INTERNAL VIEW

## VISION PANEL LITE TECHNICAL DRAWING

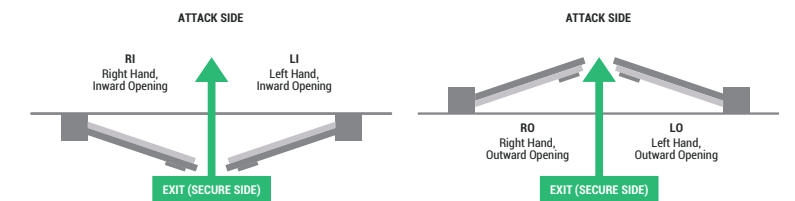


## SELF CODING SYSTEM

Vision Panel Lites have a simple ordering code that covers the size and threat protection tested on selected doorsets.

EXAMPLE ORDER CODE:

VP3-256-60BI-0170X0170-57ST



| MODEL | SECURITY RATING |                   | BLAST ISO 16933 |        | BALLISTIC PROTECTION |             | FIRE EN 1634 |         |                |                | CLEAR VISION AREA WIDTH X HEIGHT (MM) | DOOR / WALL THICKNESS (MM) |                        | FINISH |                                |
|-------|-----------------|-------------------|-----------------|--------|----------------------|-------------|--------------|---------|----------------|----------------|---------------------------------------|----------------------------|------------------------|--------|--------------------------------|
|       |                 |                   |                 |        |                      |             | INTEGRITY    |         | FIRE DIRECTION |                |                                       |                            |                        |        |                                |
| VP    | 0               | None              | 00              | None   | 0                    | None        | 00           | None    | 00             | Unidirectional | 0170mm x 0170mm<br>(6 3/4" x 6 3/4")  | 00                         | No packers<br>Required | PR     | Primed<br>(ready for printing) |
|       | 2               | Security rating 2 | 25              | EXV 25 | 2                    | EN 1522 FB2 | 30           | 30 Mins | FA             | Attack side    | 0170mm x 0370mm<br>(6 3/4" x 14 3/3") | 46                         | 46mm (1 7/8")          | ST     | 316 Stainless steel            |
|       | 3               | Security rating 3 | 15              | EXV 15 | 4                    | EN 1522 FB4 | 60           | 60 Mins | FS             | Secure side    | 0170mm x 0670mm<br>(6 3/4" x 26 3/8") | 57                         | 57mm (2 1/4")          | 9006   | Painted<br>(Ral number)        |
|       | 4               | Security rating 4 |                 |        | 6                    | EN 1522 FB6 |              |         | BI             | Bidirectional  |                                       |                            |                        |        |                                |
|       | 5               | Security rating 5 |                 |        | 7                    | EN 1522 FB7 |              |         |                |                |                                       |                            |                        |        |                                |
|       | 6               | Security rating 6 |                 |        | 8                    | FEBR        |              |         |                |                |                                       |                            |                        |        |                                |

## PRODUCT PERFORMANCE CHART

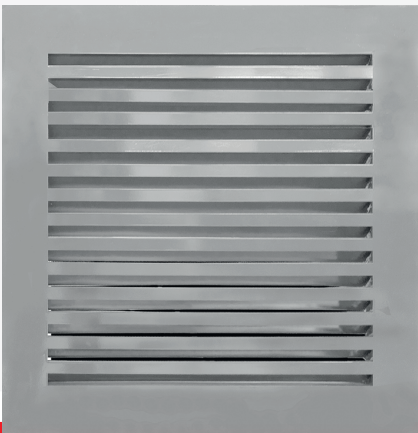
■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |     |     |  |  |           | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION   | SEISMIC TESTED | CYCLES    |             |           |             |
|---------------|-------|-----|-----|-----|-----|-----|--|--|-----------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|--------|-------------|----------------|-----------|-------------|-----------|-------------|
| ISSUE 8       |       |     |     |     |     |     |  |  | ISSUE 7   |         |         |         |        |     |         |                   |                 |        |             |                |           |             |           |             |
| TIME          | TOOLS |     |     |     |     |     |  |  | SR 1-8    |         |         |         |        |     |         |                   |                 |        |             |                |           |             |           |             |
| 20 MIN        |       |     |     |     |     |     |  |  | UP TO SR6 | 60 MINS | RC6     | BR3     | PAS 24 | SRB | EN 1125 | FB7               | EXV 25          | UL 10C | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |             |           |             |
| 15 MIN        |       |     |     |     |     |     |  |  |           | 45 MINS | RC4     | BR2     |        |     | EN 179  | FB6               |                 |        |             |                |           | EXV 15      | EN 1634-1 | EN 1670:GR4 |
| 10 MIN        | A10   | B10 | C10 | D10 | E10 | F10 |  |  |           | 30 MINS | RC3     | BR1     |        |     | UL 305  | FB5               | EN 1670:GR3     |        |             |                |           |             |           |             |
| 5 MIN         |       |     |     |     |     |     |  |  |           | 15 MINS | RC2     |         |        |     |         | FB4               |                 |        |             |                |           |             |           |             |
| 3 MIN         |       |     |     |     |     |     |  |  |           | 5 MINS  | RC1     |         |        |     |         | FB3               |                 |        |             |                |           | EN 1670:GR1 |           |             |
| 1 MIN         |       |     |     |     |     |     |  |  |           |         |         |         |        |     |         |                   |                 |        |             |                | 200K      |             |           |             |



High Performance Louvers provide the necessary ventilation for a wide range of critical infrastructure applications. Designed to meet the combined threats of high level forced entry and blast protection. Ideal for use in high performance structural walls, as well as multi-threat doors. Successfully tested and certified to many international standards.

Louvers are supplied in modular sizes and in pre-assembled packages for fast-easy installation. Suitable for varying wall and door thicknesses and available for specific ventilation requirements.



MAX-AIR-XA0

FEATURES

- Multiple threat protection
- 316 grade stainless steel construction for hostile environments and durability
- Fast Installation made easy through the simple through-bolt mounting
- Suitable for server rooms, generator housings, air conditioning systems, sub stations, chemical storage, etc.
- Standard sizes for fast delivery
  - 170mm (7") x 170mm (7")
  - 170mm (7") x 370mm (14")
  - 170mm (7") x 670mm (26")

BENEFITS

- Easy retrofit, to upgrade existing walls and doors
- Certified to a range of international standards (see Product Performance Chart)

OPTIONS

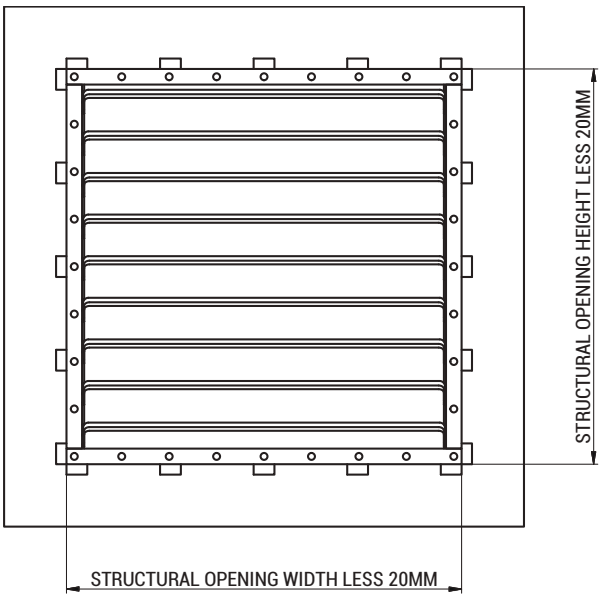
- Button or Countersunk head mounting screws available
- Accelerant protection
- Insect mesh (bug screens)
- Vibration alarm
- Special finishes available
- Anti-ligature louver for use in seclusion rooms and secure hospitals

PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |     |     |     |     |     |   |         | FEBR      | EN 1627 | STS 202 | PAS 24 | SRB    | SAFETY | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE   | CORROSION | SEISMIC TESTED | CYCLES         |             |             |
|---------------|-------|-----|-----|-----|-----|-----|---|---------|-----------|---------|---------|--------|--------|--------|-------------------|-----------------|--------|-----------|----------------|----------------|-------------|-------------|
| ISSUE 8       |       |     |     |     |     |     |   | ISSUE 7 |           |         |         |        |        |        |                   |                 |        |           |                |                |             |             |
| TIME          | TOOLS |     |     |     |     |     |   |         |           |         |         |        |        |        |                   |                 |        |           |                |                | SR 1-8      |             |
|               | A     | B   | C   | D   | E   | F   | G | H       |           |         |         |        |        |        |                   |                 |        |           |                |                |             |             |
| 20 MIN        |       |     |     |     |     |     |   |         | UP TO SR3 | 60 MINS | RC6     | BR3    | PAS 24 | SRB    | EN 1125           | FB7             | EXV 25 | UL 10C    | EN 1670:GR5    | SEISMIC TESTED | 1 MILLION   |             |
| 15 MIN        |       |     |     |     |     |     |   |         |           | RC5     |         |        |        |        |                   |                 |        |           |                |                |             |             |
| 10 MIN        | A10   | B10 | C10 | D10 | E10 | F10 |   |         |           | 45 MINS | RC4     | BR2    |        |        | EN 179            | FB6             | FB5    | EN 1634-1 | EN 1670:GR4    |                | EN 1670:GR3 | 500K        |
| 5 MIN         |       |     |     |     |     |     |   |         |           | 30 MINS | RC3     |        |        |        |                   |                 |        |           |                |                |             |             |
| 3 MIN         |       |     |     |     |     |     |   |         |           |         | 15 MINS | RC2    |        |        | BR1               | UL 305          | FB4    | EXV 15    | CERTIFIRE      |                | EN 1670:GR2 | EN 1670:GR1 |
| 1 MIN         |       |     |     |     |     |     |   |         |           | 5 MINS  | RC1     |        |        |        |                   |                 |        |           |                |                |             |             |

LOUVER TECHNICAL DRAWING



SELF CODING SYSTEM

High Performance Louver's have a simple ordering code that covers the size and threat protection, together with airflow and finish.

EXAMPLE ORDER CODE: XA-LD05B-25-400X400-S4

| LOUVER MODEL |                      | ACCREDITATION |          | SECURITY RATING |                 | ATTACK DURATION     |      | QUALIFIER |      | BLAST ISO 16933 |        | WALL CLEAR OPENING (MAXIMUM 1M X 1M (40" X 40")) |               | STAINLESS STEEL 304 OR 316 |                       |
|--------------|----------------------|---------------|----------|-----------------|-----------------|---------------------|------|-----------|------|-----------------|--------|--------------------------------------------------|---------------|----------------------------|-----------------------|
|              |                      |               |          |                 |                 |                     |      |           |      |                 |        | WIDTH                                            | HEIGHT        |                            |                       |
| XA           | Max-Air louver       | L             | LPS 1175 | A-F             | Tools (Issue 8) | 01, 03, 05, 10 Mins |      | H         | Hand | XX              | None   | 400mm (16")                                      | 400mm (16")   | S4                         | S304                  |
|              |                      |               |          |                 |                 |                     |      |           |      | 15              | EXV 15 | 500mm (20")                                      | 500mm (20")   |                            |                       |
|              |                      |               |          |                 |                 |                     |      | B         | Body | 25              | EXV 25 | 700mm (28")                                      | 700mm (28")   | S6                         | S316                  |
|              |                      |               |          |                 |                 |                     |      |           |      |                 |        | 1,000mm (39")                                    | 1,000mm (39") |                            |                       |
| AL           | Anti-ligature louver | X             | None     | X               | None            | XX                  | None | X         | None | XX              | None   | 500mm (20")                                      | 500mm (20")   | MS                         | Steel (Powder coated) |

Surelock McGill Overhead Holders and Stops are heavy duty devices designed to control the degree of door opening. An inbuilt spring cushion absorbs the shock when the door is forced beyond its intended opening.

Recommended for use on doors which are subject to high usage, or where external doors may open out to hostile weather conditions, such as strong winds. The robust design and stainless steel construction assists in protecting facilities and provides a high level of durability.

Overhead Door Stops – provide reliable control of door opening with a cushioned end-stop, preventing damage and/or injury.

Overhead Door Holders – provide the same door opening control and cushioned stop, with the addition of an automatic hold open mechanism, until manually released.



## FEATURES

- Surface mounted for quick easy installation
- Spring cushion to absorb excessive load
- Stainless steel construction for corrosion resistance and durability
- Position to stop at 90° - 110° door opening
- Hold open mechanism release tension, easily adjusted on site.

## BENEFITS

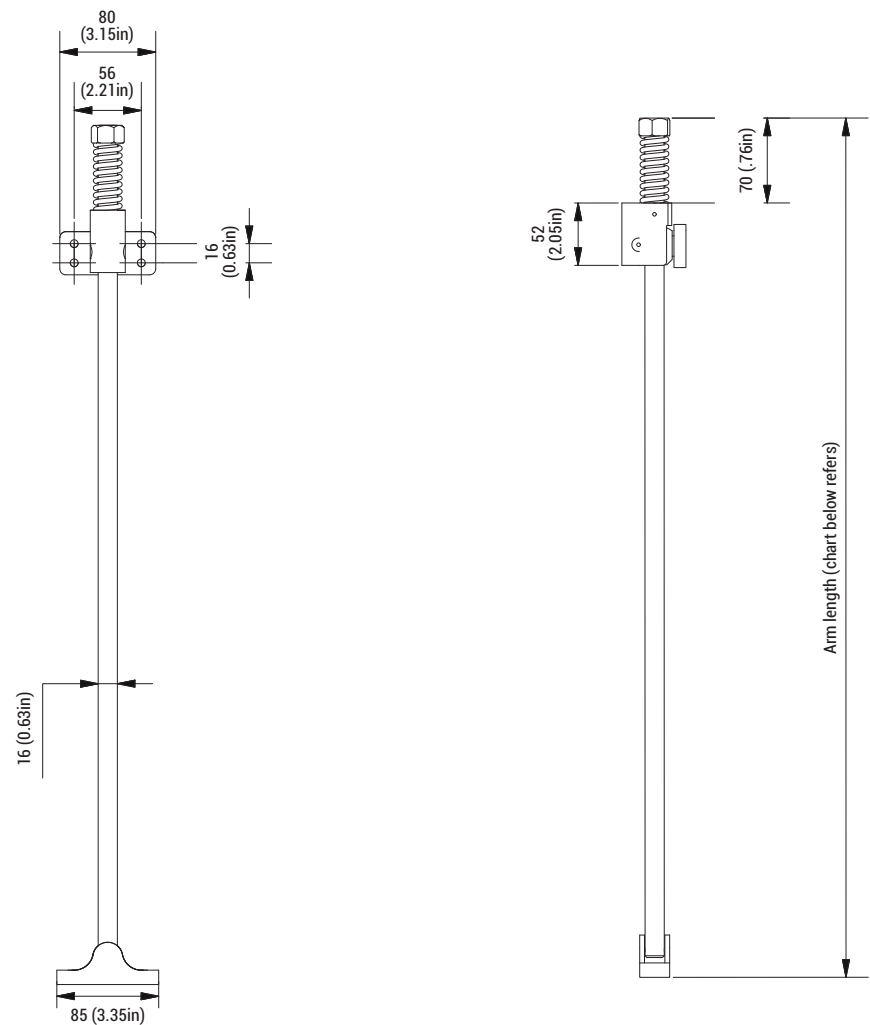
- Available for a wide range of door leaf widths
- Cycle tested to over 1,000,000 cycles
- Designed to stop heavy weight high performance doors

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |   |   |   |   |   |   |   |         | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|---|---|---|---|---|---|---|---------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |   |   |   |   |   |   |   | ISSUE 7 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B | C | D | E | F | G | H | SR 1-8  |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |   |   |   |   |   |   |   |         | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               |                 | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |   |   |   |   |   |   |   |         |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |   |   |   |   |   |   |   |         | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |   |   |   |   |   |   |   |         | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |   |   |   |   |   |   |   |         | 15 MINS | RC2     |         |        |     | UL 305  | FB4               |                 |           | EN 1670:GR2 |                |           |
| 1 MIN         |               |   |   |   |   |   |   |   |         | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 | CERTIFIRE | EN 1670:GR1 |                | 200K      |

## DOOR HOLDER & STOP TECHNICAL DRAWING



## SELF CODING SYSTEM

Door Holders & Stops have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: DH16-500

| DOOR STAYS |             | ARM DIA.    | RANGE       | ARM LENGTH |             | DOOR WIDTHS                  |
|------------|-------------|-------------|-------------|------------|-------------|------------------------------|
| DH         | Door holder | 12mm (1/2") | Medium duty | 400        | 400mm (16") | 550mm (22") to 700mm (28")   |
| DS         | Door stop   | 16mm (5/8") | Heavy duty  | 500        | 500mm (20") | 700mm (28") to 900mm (36")   |
|            |             |             |             | 600        | 600mm (24") | 900mm (36") to 1050mm (42")  |
|            |             |             |             | 700        | 700mm (28") | 1050mm (42") to 1200mm (48") |

The Surelock McGill ADO 300 is a heavy duty automatic swing door operator, designed to electronically control the power opening and closing of single- and double-leaf doors. The robust, belt driven design can operate doors up to 315kg (700 lbs), a perfect fit for high performance blast, ballistic, forced entry resistant, and fire doors.

The digital programming module enables each door to be customised to meet their specific operational requirements, including compensation for wind and internal building pressure differences. The ADO's DC power supply seamlessly integrates with access control, alarm and locking systems.



## RANGE FEATURES

- Operates doors up to 315 kg (700lbs) and width of 1,400mm (55")
- Motor driven opening and closing
- Power supply field-selectable 115/230 VAC 50-60Hz, 5amp circuit (120W)
- Working temperature range of 5°F (-15°C) to 120°F (50°C)
- 24 VDC/1A power supply for external locking accessories (electric strikes, maglocks, motorized bolt retraction locks, electric latch retraction)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

## BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Battery back-up available, in case of power failure

## OPTIONS

- Arm Pivot extensions 'B' & 'C' to suit various applications
- Entry/Exit sensors and switches
- Finger protection guards
- Operating mode key switches
- Battery back-up

## REFERENCE STANDARDS

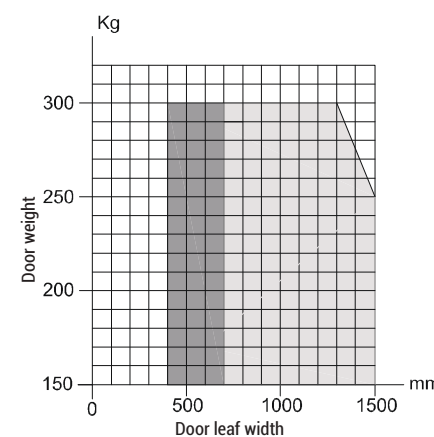
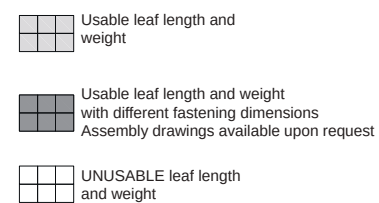
- EN 13849-1 Safety of machinery
- EN 13849-2 Safety of machinery
- EN 61000-6-2 Electromagnetic compatibility
- EN 61000-6-3 Electromagnetic compatibility
- EN 60335-1 Low Voltage Directive (LVD)
- EN 16005 Power operated pedestrian doorsets

Options to be ordered separately - for more information please contact our sales office

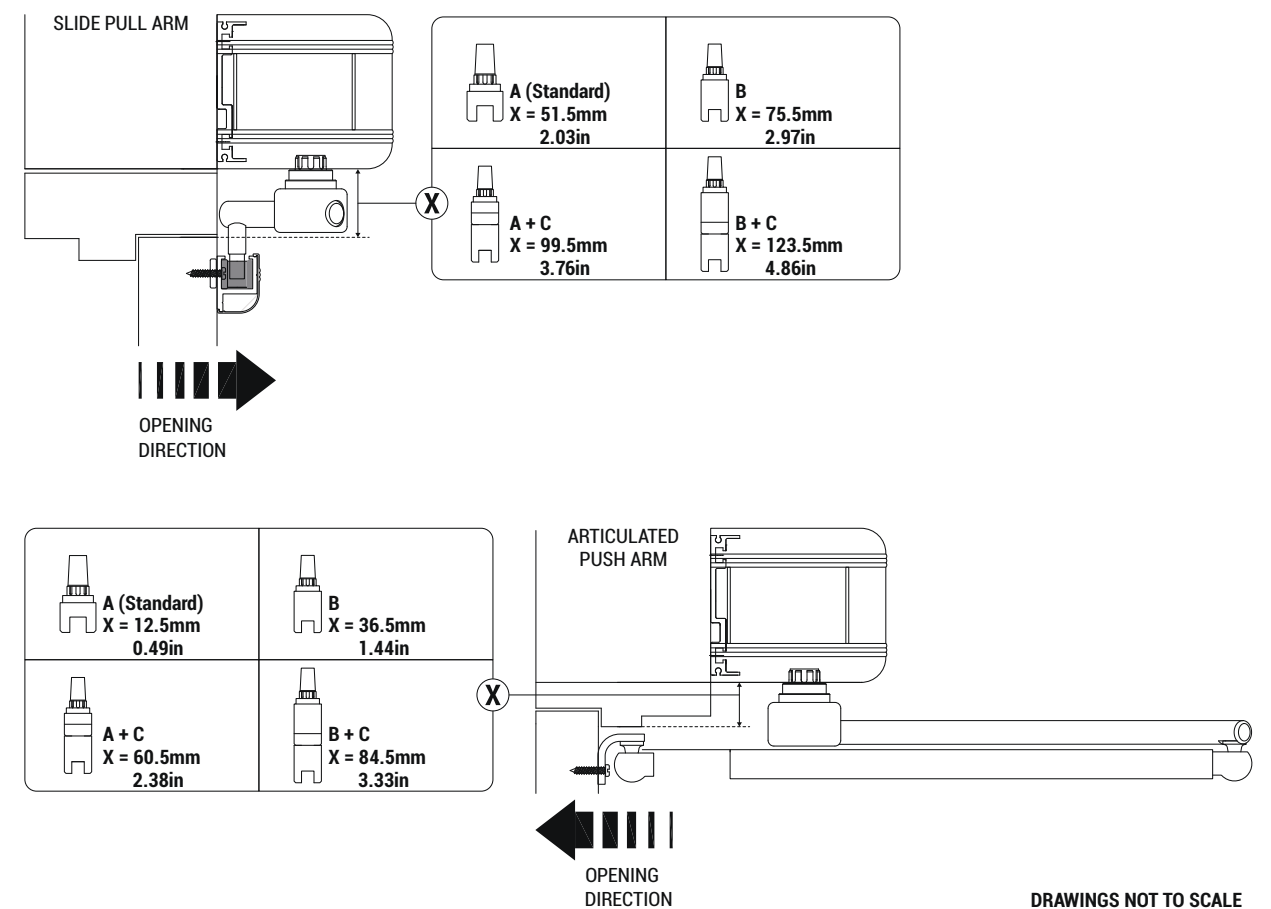
## ADO CHART

Weight vs width for articulated arms

The relation between height and width of a door leaf must be less than 5:1



## SURELOCK ADO 300 TECHNICAL DRAWING



| ARM   |       | EXTENSION     | X (DIMENSION)<br>SLIDE PULL ARM | X (DIMENSION)<br>ARTICULATED<br>PUSH ARM |
|-------|-------|---------------|---------------------------------|------------------------------------------|
| CODE  | REF   |               |                                 |                                          |
| Std   | A     | Zero (Datum)  | 51.5mm (2.03in)                 | 12.5mm (0.49in)                          |
| Ext-B | B     | 24mm (0.95in) | 75.5mm (2.97in)                 | 36.5mm (1.42in)                          |
| Ext-C | A + C | 48mm (1.89in) | 99.5mm (3.76in)                 | 60.5mm (2.38in)                          |
| Ext-D | B + C | 72mm (2.84in) | 123.5mm (4.86in)                | 84.5mm (3.33in)                          |

## SELF CODING SYSTEM

ADO's have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: ADO-300-1AOS-1

| ADO (CODE & MAX WEIGHT)      | DOOR (LEAVES) |        | ADO (QTY/STYLE) | OPENING (DIRECTION) |          | BATTERY (BACKUP) |     |
|------------------------------|---------------|--------|-----------------|---------------------|----------|------------------|-----|
| ADO-300 (315kg / 700lbs Max) | 1             | Single | A 1 x Single    | OS                  | Outswing | 0                | No  |
|                              | 2             | Double | A 2 x Singles   | IS                  | Inswing  | 1                | Yes |
|                              | 2             | Double | B Dual Package  |                     |          |                  |     |

The Surelock McGill ADO 200 is a medium duty automatic swing door operator, designed to electronically control the power opening and spring closing of single- and double-leaf doors. The robust, belt driven design can operate doors up to 250kg (550 lbs), a perfect fit for high performance blast, ballistic, forced entry resistant, and fire doors.

The digital programming module enables each door to be customised to meet their specific operational requirements, including compensation for wind and internal building pressure differences. The ADO's DC power supply seamlessly integrates with access control, alarm and locking systems.



## RANGE FEATURES

- Operates doors up to 250 kg (550lbs) and width of 1,400mm (55")
- Motor driven opening with spring closing
- Power supply field-selectable 115/230 VAC 50-60Hz, 5amp circuit (120W)
- Working temperature range of 5°F (-15°C) to 120°F (50°C)
- 24 VDC/1A power supply for external locking accessories (electric strikes, maglocks, motorized bolt retraction locks, electric latch retraction)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

## BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Suitable for use on escape routes (when wired appropriately into the fire alarm) on selected fire doors for up to 120 minutes
- Battery back-up available, in case of power failure

## OPTIONS

- Arm Pivot extensions 'B' & 'C' to suit various applications
- Entry/Exit sensors and switches
- Finger protection guards
- Operating mode key switches
- Battery back-up

## REFERENCE STANDARDS

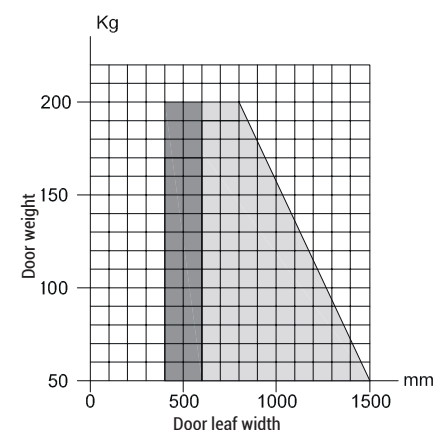
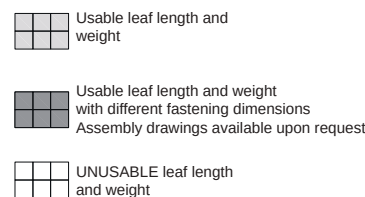
- EN 13849-1 Safety of machinery
- EN 13849-2 Safety of machinery
- EN 61000-6-2 Electromagnetic compatibility
- EN 61000-6-3 Electromagnetic compatibility
- EN 60335-1 Low Voltage Directive (LVD)
- EN 16005 Power operated pedestrian doorsets
- EN 1634-1 Fire resisting doorsets

Options to be ordered separately - for more information please contact our sales office

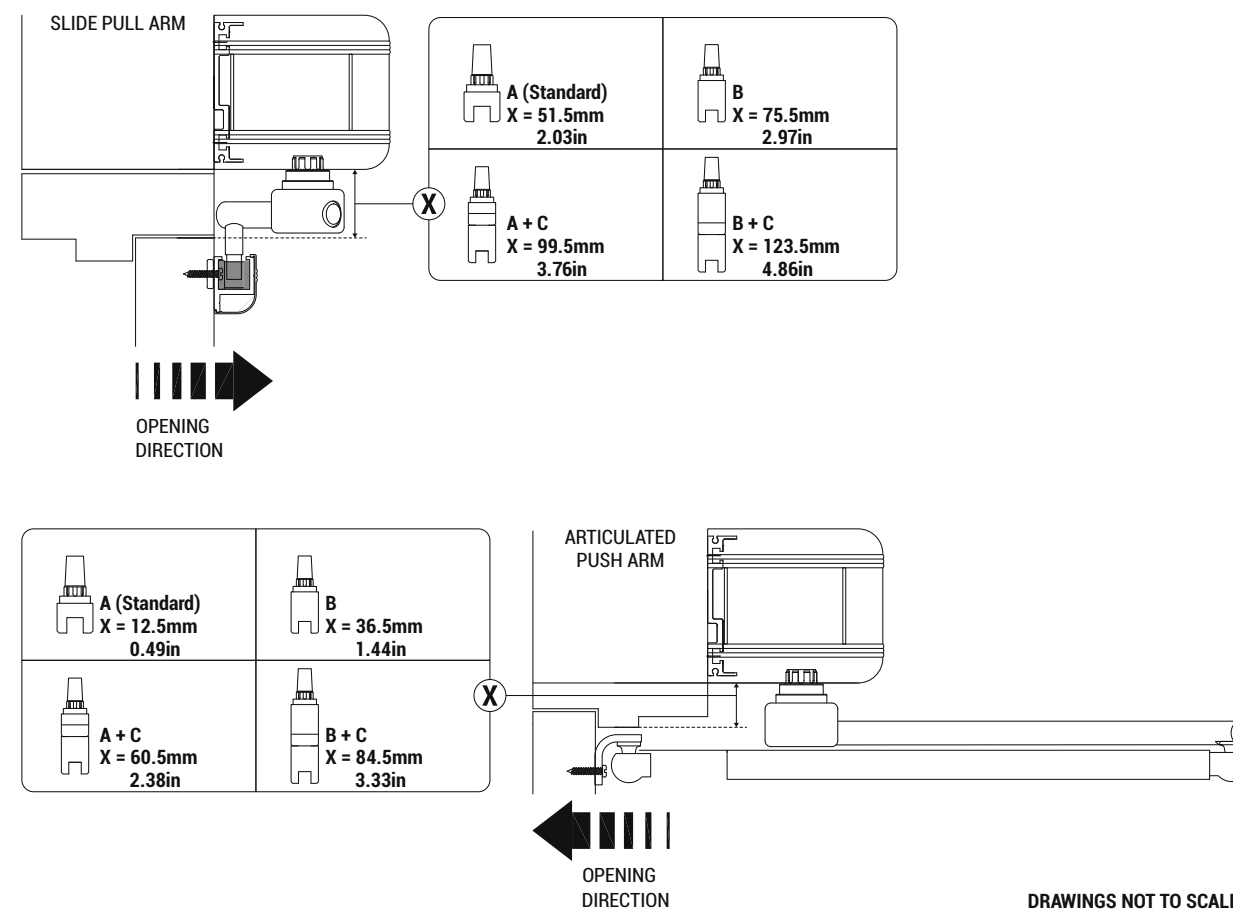
## ADO CHART

Weight vs width for articulated arms

The relation between height and width of a door leaf must be less than 5:1



## SURELOCK ADO 200 TECHNICAL DRAWING



DRAWINGS NOT TO SCALE

| ARM   |       | EXTENSION     | X (DIMENSION) SLIDE PULL ARM | X (DIMENSION) ARTICULATED PUSH ARM |
|-------|-------|---------------|------------------------------|------------------------------------|
| CODE  | REF   |               |                              |                                    |
| Std   | A     | Zero (Datum)  | 51.5mm (2.03in)              | 12.5mm (0.49in)                    |
| Ext-B | B     | 24mm (0.95in) | 75.5mm (2.97in)              | 36.5mm (1.42in)                    |
| Ext-C | A + C | 48mm (1.89in) | 99.5mm (3.76in)              | 60.5mm (2.38in)                    |
| Ext-D | B + C | 72mm (2.84in) | 123.5mm (4.86in)             | 84.5mm (3.33in)                    |

## SELF CODING SYSTEM

ADO's have a simple ordering code that covers the performance requirement and suitable for door size.

EXAMPLE ORDER CODE: ADO-200-1AOS-1

| ADO (CODE & MAX WEIGHT)      | DOOR (LEAVES) |        | ADO (QTY/STYLE) | OPENING (DIRECTION) |             | BATTERY (BACKUP) |     |
|------------------------------|---------------|--------|-----------------|---------------------|-------------|------------------|-----|
| ADO-200 (250kg / 550lbs Max) | 1             | Single | A               | 1 x Single          | OS Outswing | 0                | No  |
|                              | 2             | Double | A               | 2 x Singles         | IS Inswing  | 1                | Yes |
|                              | 2             | Double | B               | Dual Package*       |             |                  |     |

Note: Options to be ordered separately to suit each individual application – for more information please contact our sales office



The Surelock McGill Sealed Keyring is designed for the higher security needs of prison type environments, including secure hospitals and detention centres, where unauthorised transfer of keys is a serious risk. Sealed keyrings ensure best possible control of specific keys issued to individuals.

Special hydraulic tooling creates a permanent key ring seal preventing unauthorised key removal. This unique seal can be applied to a range of keyring sizes. Removal of the seal requires the special tooling to cut and destroy the seal and enable the authorised change of keys, a new seal can be applied to the same keyring.



FEATURES

- Tamperproof
- High resistance to abuse/misuse
- Negates welding/brazing problems and metal embrittlement
- 316 grade stainless steel construction for hostile environments and durability

BENEFITS

- Reusable key rings saving cost when changes are required
- Choice of ring sizes to suit content
- Resists unauthorised key removal
- Sealed by special tooling

OPTIONS

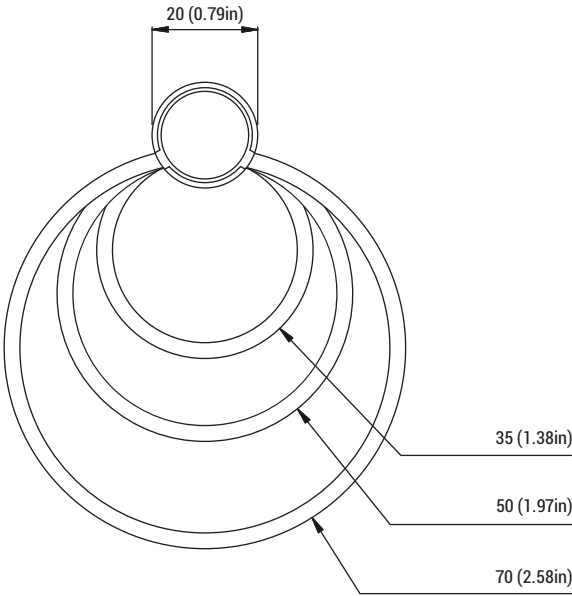
- Customised branding of the seal by special order
- Seal & Open tooling (3,000kg - 3 tonne capacity)

PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |         |   |   |   |   |   |   |         | ISSUE 7   | FEBR    | EN 1627     | STS 202     | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------|---|---|---|---|---|---|---------|-----------|---------|-------------|-------------|--------|-----|---------|-------------------|-----------------|-------------|-------------|----------------|-----------|
| TIME          | ISSUE 8 |   |   |   |   |   |   |         |           |         |             |             |        |     |         |                   |                 |             |             |                |           |
|               | TOOLS   |   |   |   |   |   |   |         |           |         |             |             |        |     |         |                   |                 |             |             |                |           |
|               | A       | B | C | D | E | F | G | H       | SR 1-8    |         |             |             |        |     |         |                   |                 |             |             |                |           |
| 20 MIN        |         |   |   |   |   |   |   |         | UP TO SR3 | 60 MINS | RC6         | BR3         | PAS 24 | SRB | EN 1125 | FB7               | EXV 25          | UL 10C      | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION |
| 15 MIN        |         |   |   |   |   |   |   | 45 MINS |           | RC4     | BR2         |             |        |     |         |                   |                 |             |             |                |           |
| 10 MIN        |         |   |   |   |   |   |   | 30 MINS |           | RC3     |             | BR1         |        |     | UL 305  | FB5               | EXV 15          | EN 1670:GR3 |             |                |           |
| 5 MIN         |         |   |   |   |   |   |   | 15 MINS |           | RC2     | EN 1670:GR2 |             |        |     |         |                   |                 |             |             |                |           |
| 3 MIN         |         |   |   |   |   |   |   | 5 MINS  |           | RC1     |             | EN 1670:GR1 |        |     |         |                   |                 |             |             |                |           |
| 1 MIN         |         |   |   |   |   |   |   |         |           |         |             |             |        |     |         |                   |                 |             |             |                |           |

SEALED KEYRING TECHNICAL DRAWING



SELF CODING SYSTEM

Sealed Keyrings have a simple ordering code that covers the size of the keyring to suit the planned content.

EXAMPLE ORDER CODE: AN400-50

| PRODUCT CODE | RING SIZE     | RING SECTION    | SEAL DIAMETER |
|--------------|---------------|-----------------|---------------|
| AN400-35     | 35mm (1 3/8") | 3mm (1/8") dia. | 20mm (3/4")   |
| AN400-50     | 50mm (2")     |                 |               |
| AN400-70     | 70mm (3/4")   |                 |               |

A range of Anti-Ligature products specifically designed for use in mental, and secure health facilities. These products help to provide an appropriate level of controlled access, with protection for both patient and staff.

## ROOM PRIVACY LATCH

- Contemporary anti-ligature fingertip internal operator
- Patient key-controlled access, provides room privacy
- Automatic latching
- Staff key entry overrides internal handle blockage
- Anodised aluminium body with stainless steel handle
- Latching function can be disabled by staff



ROOM PRIVACY LATCH



WC PRIVACY BOLT



GUARDED PULL HANDLE



SUNKED PULL HANDLE

## RESTROOM (WC) PRIVACY BOLT

- Contemporary anti-ligature fingertip internal operator
- Manual bolting
- Staff entry override by special removable T-Key
- Anodised aluminium body with stainless steel handle
- Indication of restroom status (occupied/vacant)

## GUARDED PULL HANDLE

- Pull handle on staff side of door provides force advantage when used in conjunction with 'Sunken Pull Handle' on patient side
- Through-bolt mounting
- Anodised aluminium

## SUNKEN PULL HANDLE FEATURES

- Sunken pull handle on patient side of door provides force disadvantage when used in conjunction with 'Guarded Pull Handle' on staff side
- Through-bolt mounting
- Anodised aluminium

## OPTIONAL ENHANCEMENTS

- Anti-Viral & Anti-Bacterial Handle Coatings - designed to reduce the chance of transmission and maintain safe environments

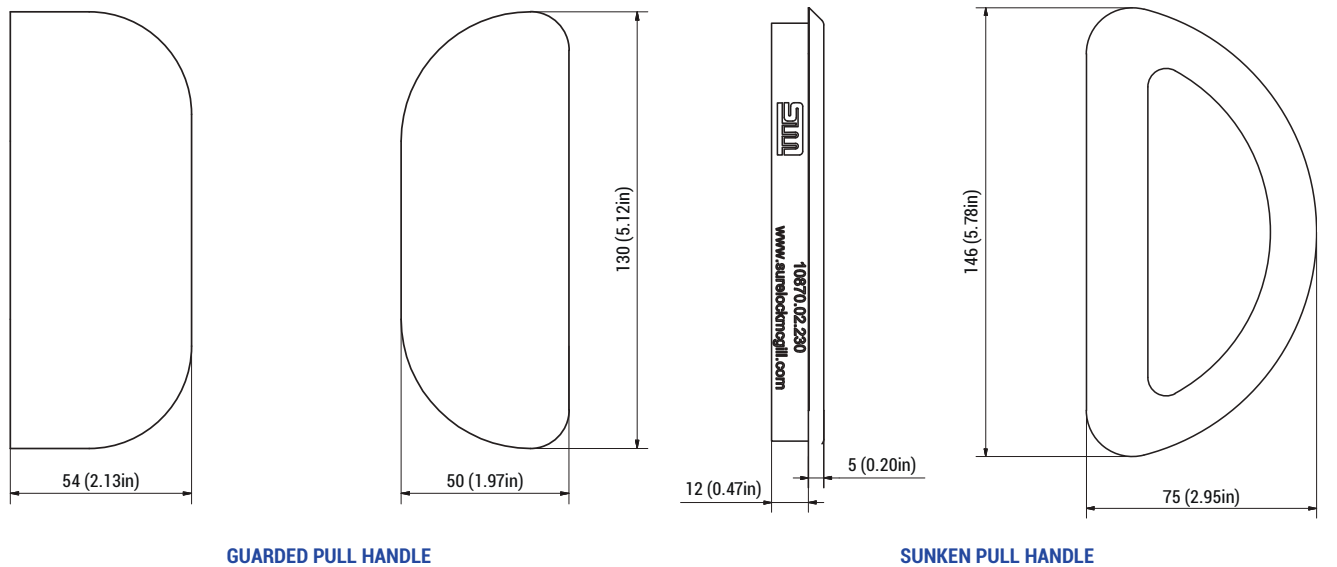
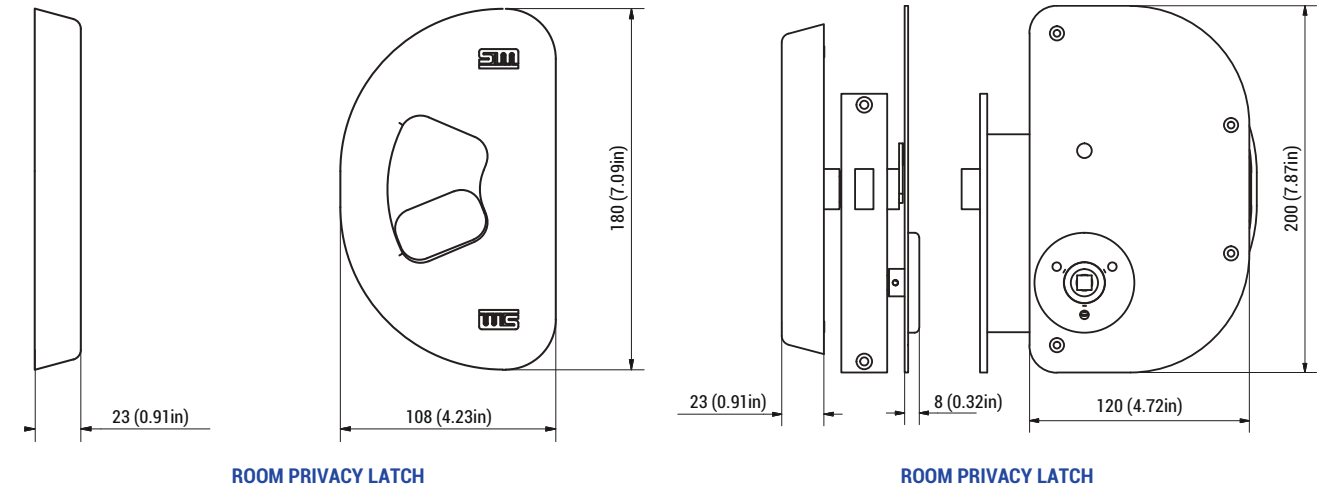
These are available for all common door touchpoints, such as handles, panic bars, thumbturns etc. Tests show over 99% of bacteria killed over 24 hours, 66% of coronavirus killed in just 2 hours in accordance with ISO 21702:2019.

## PRODUCT PERFORMANCE CHART

☐ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |               |   |   |   |   |   |   |   |        | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY  | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE      | CORROSION   | SEISMIC TESTED | CYCLES    |
|---------------|---------------|---|---|---|---|---|---|---|--------|---------|---------|---------|--------|-----|---------|-------------------|-----------------|-----------|-------------|----------------|-----------|
| TIME          | ISSUE 8 TOOLS |   |   |   |   |   |   |   | SR 1-8 |         |         |         |        |     |         |                   |                 |           |             |                |           |
|               | A             | B | C | D | E | F | G | H |        |         |         |         |        |     |         |                   |                 |           |             |                |           |
| 20 MIN        |               |   |   |   |   |   |   |   |        | 60 MINS | RC6     | BR3     |        |     | EN 1125 | FB7               | EXV 25          | UL 10C    | EN 1670:GR5 |                | 1 MILLION |
| 15 MIN        |               |   |   |   |   |   |   |   |        |         | RC5     |         |        |     |         |                   |                 |           |             |                |           |
| 10 MIN        |               |   |   |   |   |   |   |   |        | 45 MINS | RC4     | BR2     | PAS 24 | SRB | EN 179  | FB6               |                 | EN 1634-1 | EN 1670:GR4 | SEISMIC TESTED | 500K      |
| 5 MIN         |               |   |   |   |   |   |   |   |        | 30 MINS | RC3     |         |        |     |         | FB5               |                 |           | EN 1670:GR3 |                |           |
| 3 MIN         |               |   |   |   |   |   |   |   |        | 15 MINS | RC2     |         |        |     | UL 305  | FB4               | EXV 15          |           | EN 1670:GR2 |                |           |
| 1 MIN         |               |   |   |   |   |   |   |   |        | 5 MINS  | RC1     | BR1     |        |     |         | FB3               |                 | CERTIFIRE | EN 1670:GR1 |                | 200K      |

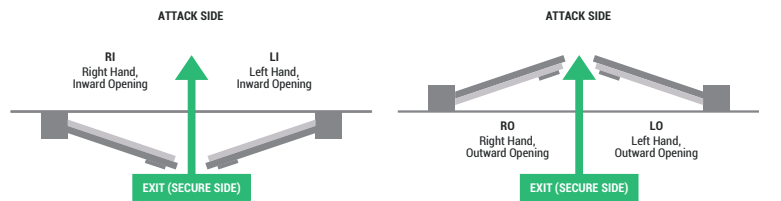
## ANTI-LIGATURE HANDLES TECHNICAL DRAWINGS



## SELF CODING SYSTEM

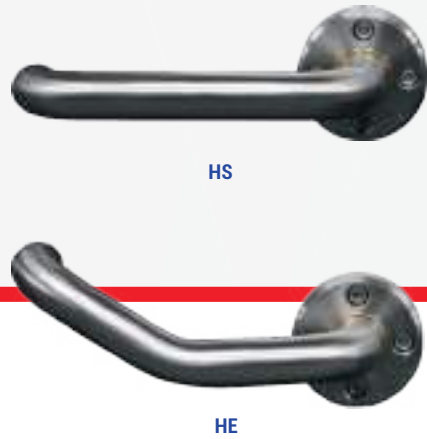
Anti-Ligature products have a simple ordering coding for each individual product.

EXAMPLE ORDER CODE: RPL-R-AV



| PRODUCT CODE | DESCRIPTION                | HANDING |            | ENHANCEMENTS |                                |
|--------------|----------------------------|---------|------------|--------------|--------------------------------|
| RPL          | Room privacy latch         | X       | None       | AV           | Anti-Viral / Bacterial coating |
| RPB          | Restroom (WC) privacy bolt | R       | Right hand |              |                                |
| GPH          | Guarded pull handle        | L       | Left hand  |              |                                |
| SPH          | Sunken pull handle         |         |            |              |                                |

A range of Heavy-Duty Lever Handles developed for use on over-sized, heavy, high-performance doors. The unique and simple design provides for a strong, rugged, abuse resistant range of handles. Tested with many locking systems with high-performance door manufacturers to meet various international standards. Manufactured in 316 stainless steel for hostile environments and durability.



## FEATURES

- Robust design to withstand heavy use
- 316 grade stainless steel construction for hostile environments and durability
- Cycle tested to over 1,000,000 cycles

## BENEFITS

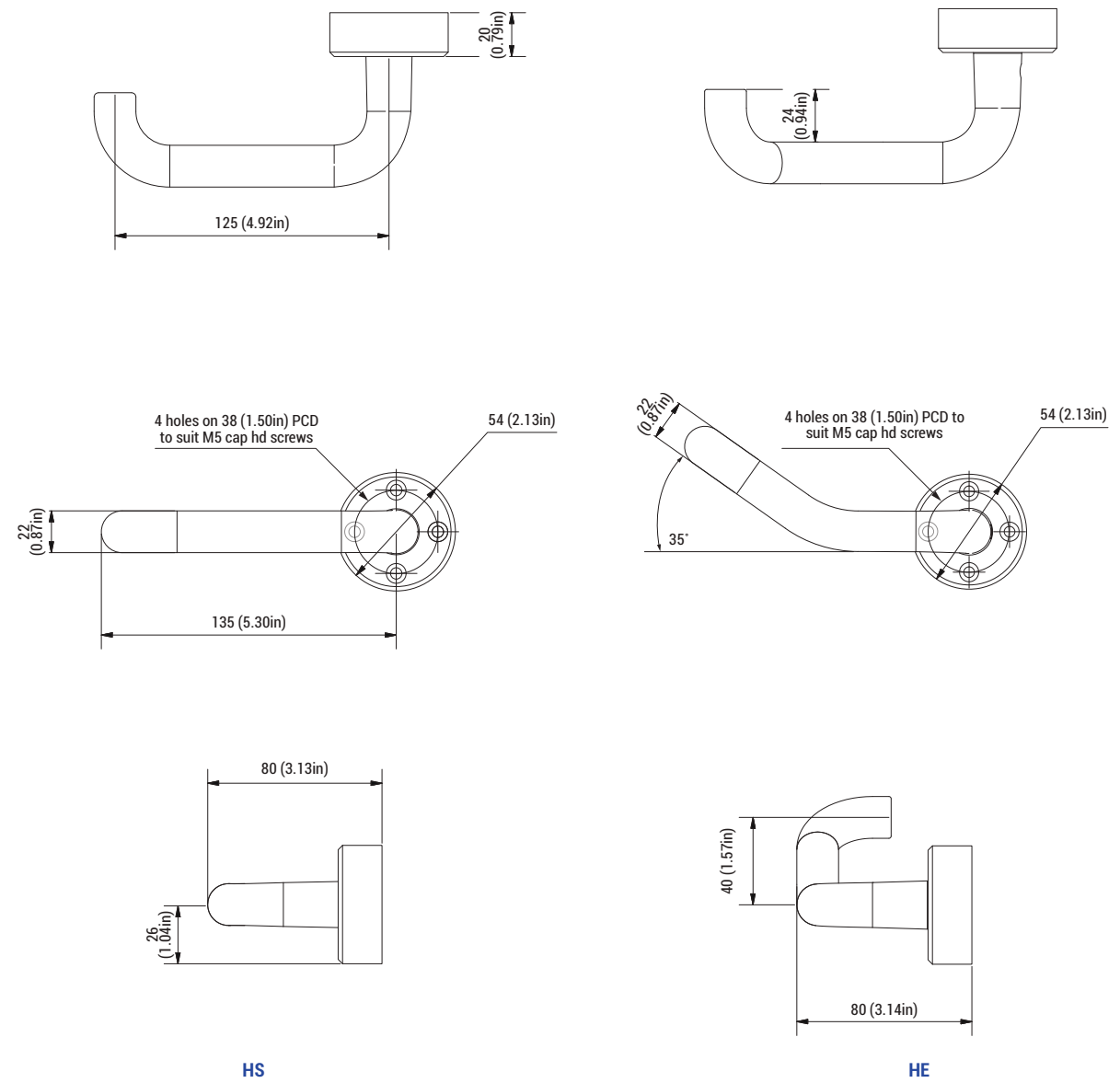
- Withstands high leverage forces without damage
- Resists abuse
- Provides trouble-free service
- Strength tested with locks to a range of international standards

## PRODUCT PERFORMANCE CHART

■ – Indicates product has been certified, or tested & approved as part of a complete doorset assembly

| LPCB LPS 1175 |       |   |   |   |   |   |   |   | ISSUE 7   | FEBR    | EN 1627 | STS 202 | PAS 24 | SRB | SAFETY      | BALLISTIC EN 1522 | BLAST ISO 16933 | FIRE        | CORROSION   | SEISMIC TESTED | CYCLES      |
|---------------|-------|---|---|---|---|---|---|---|-----------|---------|---------|---------|--------|-----|-------------|-------------------|-----------------|-------------|-------------|----------------|-------------|
| TIME          | TOOLS |   |   |   |   |   |   |   |           |         |         |         |        |     |             |                   |                 |             |             |                |             |
|               | A     | B | C | D | E | F | G | H | SR 1-8    |         |         |         |        |     |             |                   |                 |             |             |                |             |
| 20 MIN        |       |   |   |   |   |   |   |   | UP TO SR6 | 60 MINS | RC6     | BR3     | PAS 24 | SRB | EN 1125     | FB7               | EXV 25          | UL 10C      | EN 1670:GR5 | SEISMIC TESTED | 1 MILLION   |
| 15 MIN        |       |   |   |   |   |   |   |   |           | 45 MINS | RC4     | BR2     |        |     | EN 179      | FB6               |                 | EXV 15      | EN 1634-1   |                | EN 1670:GR4 |
| 10 MIN        |       |   |   |   |   |   |   |   |           | 30 MINS | RC3     |         |        |     | EN 1670:GR3 | UL 305            | FB5             |             |             |                | EN 1670:GR2 |
| 5 MIN         |       |   |   |   |   |   |   |   |           | 15 MINS | RC2     | BR1     |        |     | FB4         |                   | CERTIFIRE       | EN 1670:GR1 |             |                |             |
| 3 MIN         |       |   |   |   |   |   |   |   |           | 5 MINS  | RC1     |         |        |     | FB3         |                   |                 |             |             |                |             |
| 1 MIN         |       |   |   |   |   |   |   |   |           |         |         |         |        |     |             |                   |                 |             |             |                |             |

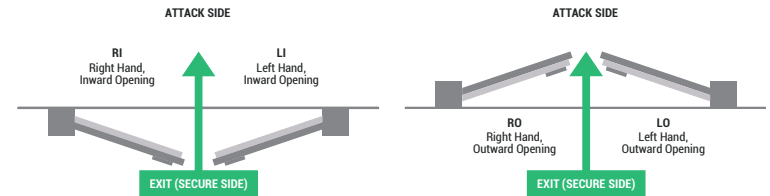
## HEAVY DUTY LEVER HANDLE TECHNICAL DRAWING



## SELF CODING SYSTEM

Heavy Duty Lever Handles have a simple ordering coding for each individual product, handing, fixing and options.

EXAMPLE ORDER CODE: HEPX-W10



| PRODUCT CODE | DESCRIPTION                       | SINGLE / PAIR |        | HANDING |                        | MOUNTING SCREWS |                           |
|--------------|-----------------------------------|---------------|--------|---------|------------------------|-----------------|---------------------------|
| HS           | Heavy duty straight lever handle  | S             | Single | X       | None                   | W03             | Machine screws (Metric)   |
| HE           | Heavy duty ergonomic lever handle | P             | Pair   | R       | Right (HE Single only) | W10             | Machine screws (Imperial) |
|              |                                   |               |        | L       | Left (HE Single only)  | W02             | Wood screws               |

Through-Bolt Mounting Kits provide a robust solution to enhance the combined strength and security of the door after on-site lock installation. Providing a fast and extremely effective solution for both new and aftermarket up-grades, including steel, timber, composite, and hollow metal doors.

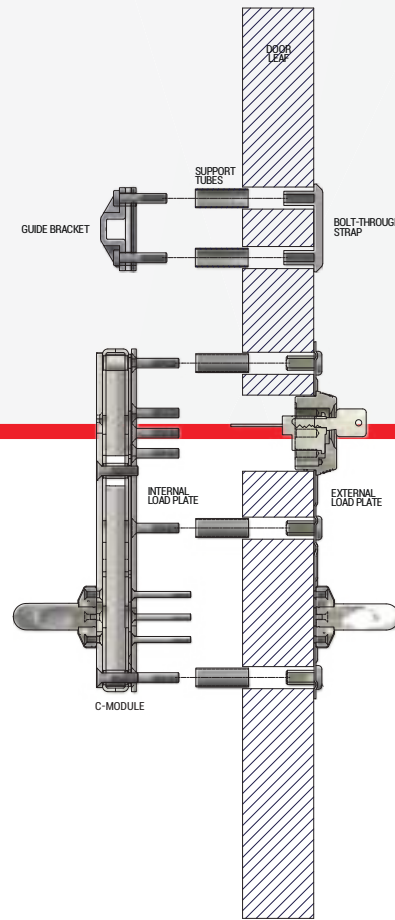
Through-Bolt Mounting Kits enable a new lock to be installed to upgrade security, safety, accessibility, and access control capability. Tested to meet various international standards and manufactured in 316 stainless steel for hostile environments and durability.

## FEATURES

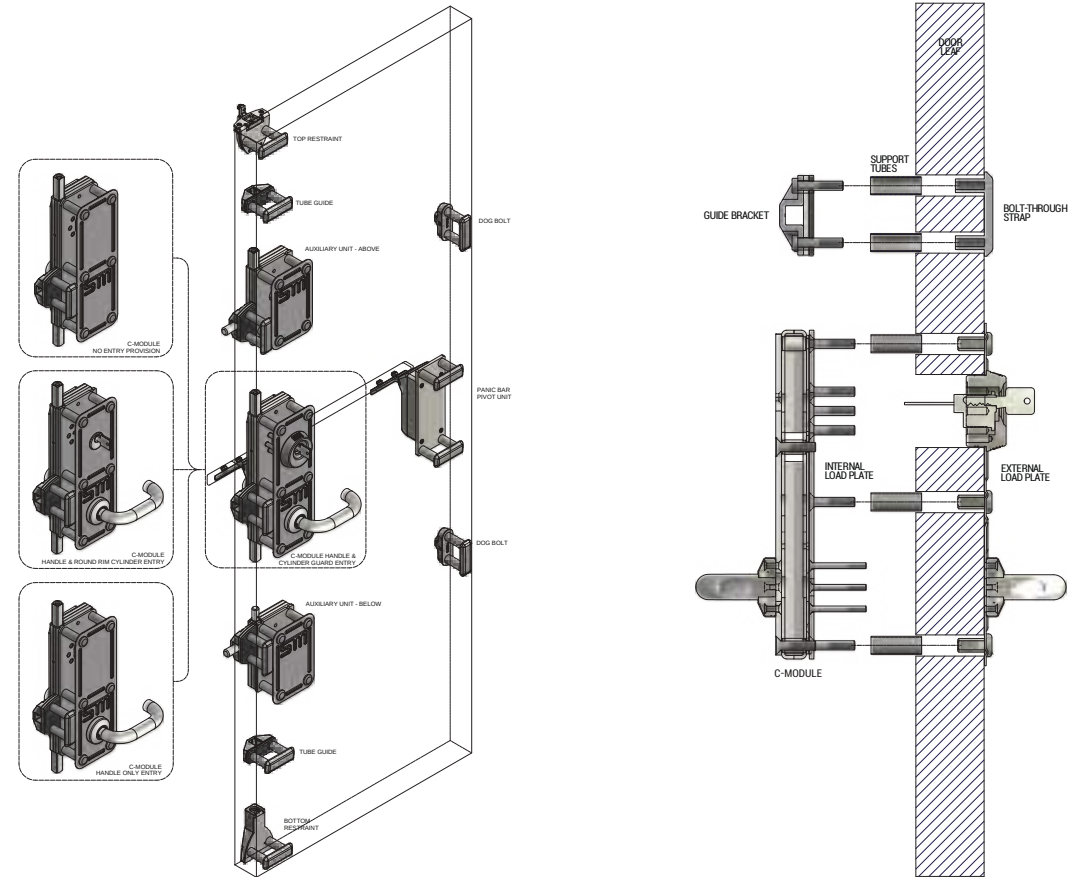
- Fast and effective security, safety and operational upgrade
- Combined strength of door and lock as one
- 316 grade stainless steel construction for hostile environments and durability

## BENEFITS

- Simple design allows for fast installation.
- Stainless steel cast straps and plates ensure secure installation
- Tested to meet various international standards
- Through-bolt kits to cover most locks and operational features
- Ideal aftermarket and up-grade requirements for security, safety, accessibility and access control capability
- Covers most previous lock mounting holes



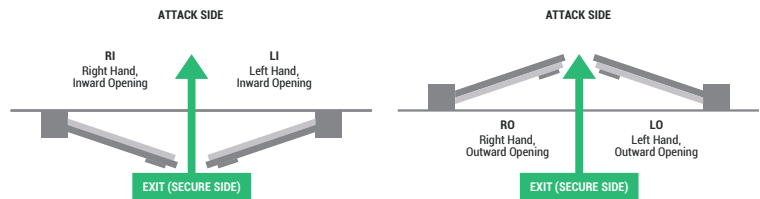
## THROUGH-BOLT MOUNTING KIT TECHNICAL DRAWING



## SELF CODING SYSTEM

Through-bolt Mounting Kits have a simple ordering coding for each individual product, please refer to the above drawings and the chart below to reference your ordering code to your chosen system.

EXAMPLE ORDER CODE: TB-SL3C-4R57-W10

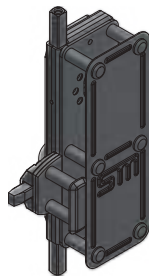


| MODEL | SYSTEM |          | BOLTING CONFIGURATION |           | EXTERNAL TRIM FEATURES |                                 | HANDING |            | DOOR THICKNESS |               | MOUNTING SCREWS |                           |
|-------|--------|----------|-----------------------|-----------|------------------------|---------------------------------|---------|------------|----------------|---------------|-----------------|---------------------------|
|       |        |          | QTY                   | DIRECTION |                        |                                 |         |            |                |               |                 |                           |
| TB    | SL     | Slimline | 1                     | A         | 0                      | None                            | X       | None       | 44             | 44mm (1 3/4") | W03             | Machine screws (Metric)   |
|       | ST     | Stirling | 2                     | B         | 1                      | Cylinder only                   | R       | Right hand | 57             | 57mm (2 1.4") | W10             | Machine screws (Imperial) |
|       |        |          | 3                     | C         | 2                      | Lever handle only               | L       | Left hand  | 99             | 100mm (4")    |                 |                           |
|       |        |          | 4                     | D         | 3                      | Lever handle & Rim cylinder     |         |            |                |               |                 |                           |
|       |        |          | 5                     | E         | 4                      | Lever handle & Cylinder guard   |         |            |                |               |                 |                           |
|       |        |          | 6                     | F         | 5                      | Lever handle & Combination lock |         |            |                |               |                 |                           |
|       |        |          | 7                     | G         |                        |                                 |         |            |                |               |                 |                           |

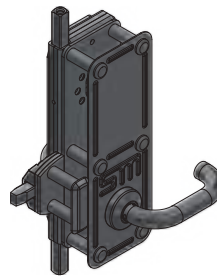
## EXAMPLE KITS FOR SLIMLINE AND STIRLING SYSTEMS

SLIMLINE

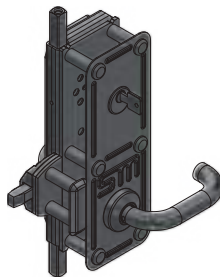
NO ENTRY PROVISION



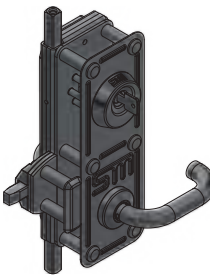
LEVER HANDLE ONLY ENTRY



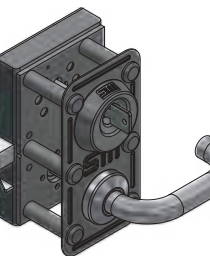
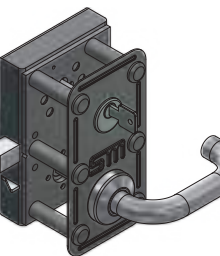
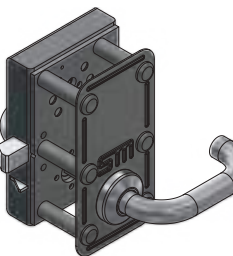
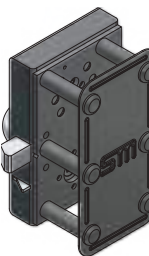
LEVER HANDLE AND RIM / EURO CYLINDER ENTRY



LEVER HANDLE AND CYLINDER GUARD ENTRY



STIRLING





# TECHNICAL INFORMATION

As a leader in the field of physical security and as a manufacturer that prides itself on quality, our Surelock and MICO brands adhere to a wide host of International testing standards. Testing is performed via third-party test houses and in many cases requires a complete doorset or gate to ensure combined accreditation, these are marked with an asterisk (\*). Independent auditing of continual design and manufacture ensures a continual genuine stamp of product performance.

Continual testing and approval of our products provides the confidence of their ability to perform and meet these standards, enabling individual door and gate manufacturers to select suitable products and submit their designs for testing and accreditation.



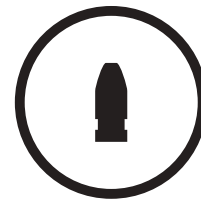
Assessed to ISO 9001:2015  
LPCB Cert. No. 516-1

## PHYSICAL SECURITY

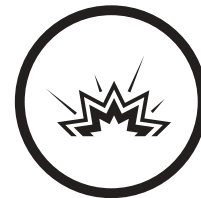
- LPS 1175 Issue 8 SR2 to SR6 & B3 to E10 & G5- LPCB/BRE physical security standard\*
- US DoS SD-STD-01-01G (FEBR) up to 60 minutes - US combined ballistic and forced entry test standard\*
- ASTM F3038 - Standard Test Method for Timed Evaluation of Forced-Entry-Resistant Systems
- CPNI - UK Government security tests\*
- EN 1627 - European security test standard\*
- PAS 24 - UK domestic security test standard\*
- Exova STS202 - security test standard\*



PHYSICAL SECURITY



BALLISTIC



BLAST



FIRE

## BALLISTIC

- EN 1522 / EN 1523 FB4 to FB7 + FSG - European ballistic test standard\*
- UL 752 – Standard for Bullet-Resisting Equipment
- NIJ Standard 0108.01 – Ballistic Resistant Protective Materials
- US DoS SD-STD-01-01G (FEBR) up to 60 minutes – US combined ballistic and forced entry test standard\*

## BLAST

- ISO 16933 – Test Method (100kg TNT at 15m on standard systems) – Arena blast test\*
- EN 13123-2/EN 13124-2 – Arena blast test\*
- CPNI Protected Spaces C15 & C25 – UK Government arena blast test\*
- ASTM F2927 – Standard Test Method for Door Systems Subject to Airblast Loadings
- Static load tests\*

## FIRE

- EN 1634-1 – European Fire Protection, up to 4 hours\*
- BS 476-22 – UK Fire Protection, up to 4 hours\*
- DNV-OS-D301 – Marine Fire Protection, A60, H60, H120\*
- IMO MSC.307 FTP – International Maritime Organisation Fire Test Procedure, A15, A30, A60\*
- ISO 22899-1 – Jet fire resistance test, J60, J120\*
- UL10C – US Fire Protection
- NS 3919 – Norwegian Fire Protection
- Certifire approved – Certification scheme for fire door hardware

## PANIC & EMERGENCY ESCAPE:

- EN 1125 – European test for panic escape hardware (panic bars)
- UL305 – US Standard for Panic Hardware
- EN 179 – European test for emergency escape hardware (lever handle and push pads)
- CE marked – European requirement
- Certifire approved – Certification scheme for panic & emergency escape hardware



PANIC & EMERGENCY ESCAPE

## WINDSTORM

- FEMA 361 – Safe Rooms for Tornadoes and Hurricanes



WINDSTORM

## CORROSION

- EN 1670:2007 – Corrosion resistance for building hardware, grade 5



CORROSION

## SEISMIC

- 0.5g to 6.0g, 5Hz to 100Hz



SEISMIC

As modern requirements surrounding security and accessibility change — there has developed a worldwide need for locking systems that can allow for automated door access.

This requires locks and other hardware to interact with door sensors, timers, remote control from a security room, personnel 'swipe-in swipe-out', or disabled access buttons. For external entrances the challenge does not just focus on designing doors around access but also protecting against physical attack, ballistics, blast and other threats.

The Surelock McGill Group manufactures a full range of products to enable businesses and governments around the world to design their secure environments with suitable automated locking systems, automatic door operators, and other appropriate architectural ironmongery and door furniture.

## FEATURES

- High performance single- or multi-point locking system, to meet building risk and operational needs
- Automatic door operator (ADO), to suit door weight and operational performance
- Sensors and protection guards, for personnel safety
- Directly wired to access control system, to ensure desired operation
- Power supply and back-up
- Choice of 'fail-secure' (as standard), or 'fail-safe' available
- Out-of-hours lock-down, optional
- BSEN 1125 & BSEN 179 life-safety compliance, optional
- Multiple risk protection against forced entry, blast, ballistic and fire protection
- Durable in design, construction, testing and operation

## BENEFITS

- Ease of hands-free operation on high-performance, heavy doors
- Safe for all users
- Retrofittable upgrade for equality
- Can be used on life-safety panic & emergency exit single & double doors, fire doors and more
- High-performance and longevity assured



MOTORISED SLIMLINE  
PAGE 30

## AUTOMATIC DOOR OPERATORS (ADO)

### FEATURES

- Doors up to 315 kg (700lbs) and width of 1,400mm (55")
- Working temperature range of 5°F (-15°C) to 120°F (50°C)
- Digital programmer sets field operating parameters and displays system diagnostics
- Opening time to 95° is 4-12 seconds, closing time from 95° is 5-15 seconds (field programmable)
- Enclosure environmental rating: IP31

### BENEFITS

- High degree of site-specific programming options
- Works seamlessly with all Surelock McGill motorised bolt retraction devices
- Capable for use on escape routes
- Provides hands free access solutions when used with motorised locking
- Battery back-up available, in case of power failure



AUTOMATIC DOOR OPERATORS  
PAGE 82

## STIRLING MOTORISED

### FEATURES

- Surface mounted for maximum strength
- Stainless steel '316' construction
- Proven rack & pinion driven
- 1 No x 19mm (0.75in) square bolt x 25mm (0.98in) throw
- Tested to over 1,000,000 cycles
- Monitoring of bolt & lock status
- Control box & power supply

### BENEFITS

- Automatically secured in door closed position
- Tested on specific doorsets up to LPS 1175:SR4
- Life safety device BSEN 1125 & 179 compliant
- Engineered for longevity and trouble-free service



STIRLING MOTORISED  
PAGE 12

## SLIMLINE MOTORISED

### FEATURES

- Surface mounted fitted solutions
- Stainless steel '316' construction
- Proven rack & pinion mechanism
- 3 No x 15mm (0.59in) x 25mm (0.98in) throw stainless steel bolts
- Tested to over 1,000,000 cycles
- Monitoring of bolt & lock status
- Control box & power supply

### BENEFITS

- Automatically secured in door closed position
- Tested on specific doorsets up to LPS 1175:SR6
- Life safety device BSEN 1125 & 179 compliant
- Engineered for longevity and trouble-free service

## SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: ST1A-KMLS-AA-LMPB-RO

### STEP 1. SELECT PRODUCT

#### RANGE



AB - ABRYLLE



TY - TYNE



ST - STIRLING



MA - MODULA



MS -  
MSR SINGLE-POINT



LO - LODDON



RM - RIMLOCK



RB - RIBBLE

#### NUMBER OF BOLTS & BOLT DIRECTION



1A

### STEP 2. ENTRY

#### UNLOCKING



X - NONE



K - KEY



H - LOCKABLE  
LEVER HANDLE



A - ACCESS  
CONTROL



C - COMBINATION  
LOCK



L - PANIC /  
EMERGENCY /  
SINGLE OPERATION

#### BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED  
(ELECTRIC)

#### OPERATOR



XX - NONE



LS - LEVER HANDLE  
(STRAIGHT)



LE - LEVER HANDLE  
(ERGONOMIC)



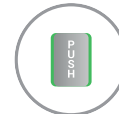
PB - PANIC BAR  
(BLADE ALUMINIUM)



PE - PANIC BAR  
(STAINLESS STEEL)



PP - PUSH PAD  
(ALUMINIUM)



PS - PUSH PAD  
(STAINLESS STEEL)

### STEP 3. SECURING

#### UPON DOOR CLOSURE



AA - AUTO  
BOLTING / AUTO  
DEADLOCKING



AM - AUTO  
BOLTING / MANUAL  
DEADLOCKING



AB - AUTO  
BOLTING ONLY



MA - MANUAL  
BOLTING / AUTO  
DEADLOCKING



MM - MANUAL  
BOLTING / MANUAL  
DEADLOCKING



MB - MANUAL  
BOLTING ONLY

### STEP 4. EXIT

#### UNLOCKING



X - NONE



K - KEY



A - ACCESS  
CONTROL

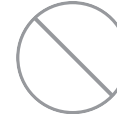


L - PANIC /  
EMERGENCY /  
SINGLE OPERATION



T - THUMBTURN

#### BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED  
(ELECTRIC)

#### OPERATOR



XX - NONE



LS - LEVER HANDLE  
(STRAIGHT)



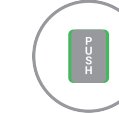
LE - LEVER HANDLE  
(ERGONOMIC)



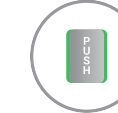
PB - PANIC BAR  
(BLADE ALUMINIUM)



PE - PANIC BAR  
(STAINLESS STEEL)



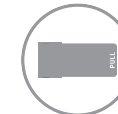
PP - PUSH PAD  
(ALUMINIUM)



PS - PUSH PAD  
(STAINLESS STEEL)



TN - THUMBTURN



PL - PULL LEVER



KK - KEY

### STEP 5. FITTING & ORIENTATION

#### HANDING & OPENING METHOD



XX - UNHANDED



RI - RIGHT  
HAND, OPEN IN



RO - RIGHT HAND  
(REVERSED),  
OPEN OUT



LI - LEFT HAND,  
OPEN IN



LO - LEFT HAND  
(REVERSED),  
OPEN OUT



UN - UNKNOWN

### STEP 6. OPTIONAL ENHANCEMENTS

#### POTENTIAL OPTIONAL ENHANCEMENTS



M01 - MONITORING



K04 - BREAKDOME  
OVER THUMBTURN



M03 - REQUEST  
TO EXIT FACILITY



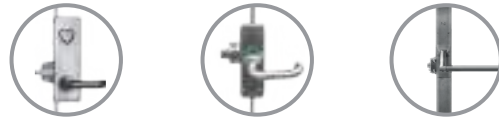
## SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: SL3A-AMLS-AA-LMLE-RO-M03

### STEP 1. SELECT PRODUCT

#### RANGE

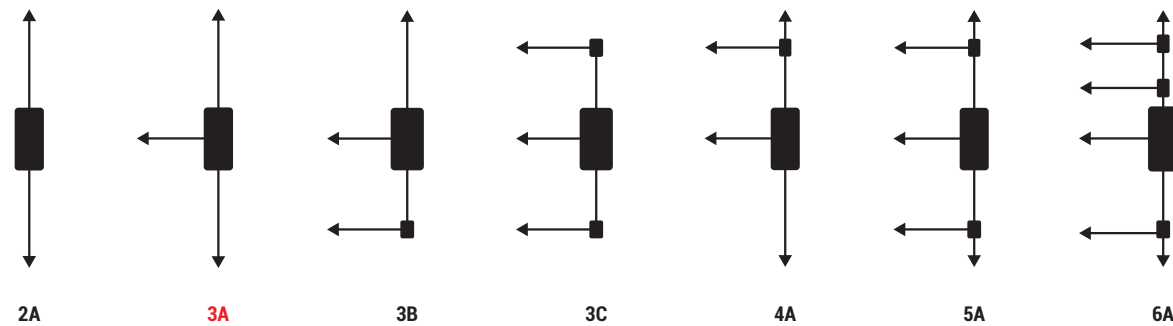


SL / SM - SLIMLINE

MS - MSR  
MULTI-POINT

ZE - ZEUS

#### NUMBER OF BOLTS & BOLT DIRECTION



### STEP 2. ENTRY

#### UNLOCKING



#### BOLT RETRACTION

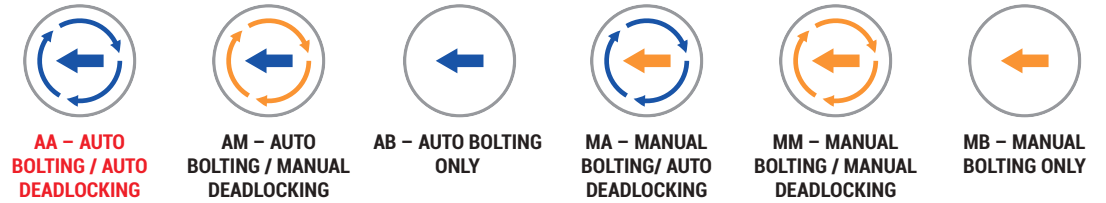


#### OPERATOR



### STEP 3. SECURING

#### UPON DOOR CLOSURE

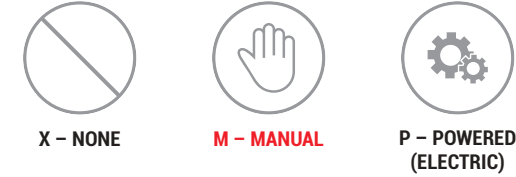


### STEP 4. EXIT

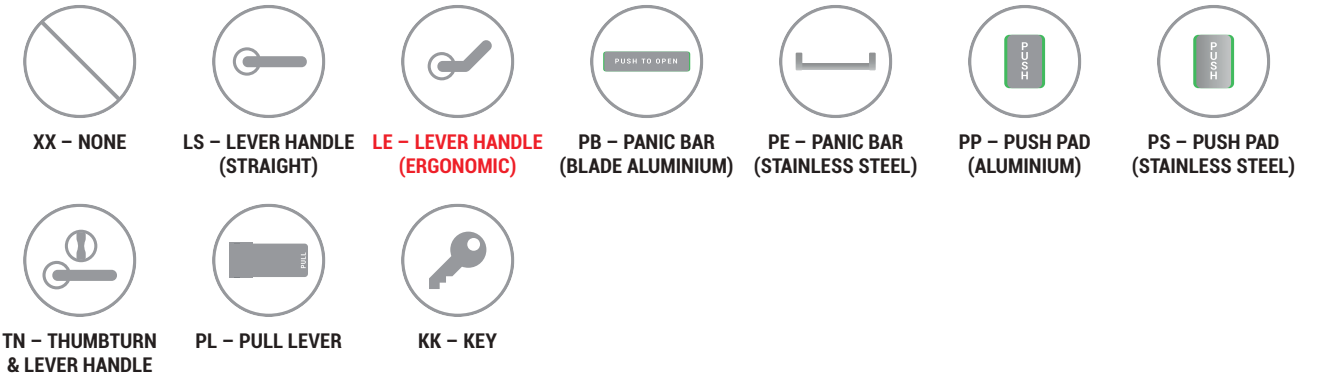
#### UNLOCKING



#### BOLT RETRACTION

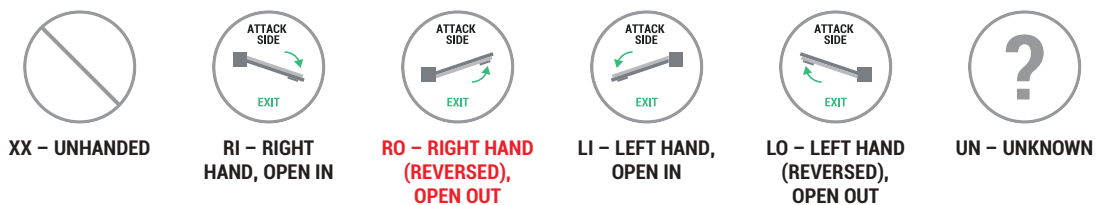


#### OPERATOR



### STEP 5. FITTING & ORIENTATION

#### HANDING & OPENING METHOD



### STEP 6. OPTIONAL ENHANCEMENTS

#### POPULAR OPTIONAL ENHANCEMENTS



## SELF-CODING PRODUCT GUIDE (POPULAR EXAMPLES)

This is a guide to the simple ordering code that covers the chosen methods of entry, securing, and exit, followed by additional enhancements to further customise the device. Please refer to your chosen product pages for individual availability.

EXAMPLE ORDERING CODE: M03C-KMLS-AA-LMLE-RO

### STEP 1. SELECT PRODUCT

#### RANGE



MO - MOORGATE



PG - PALISADE



GT - GT



SGL - SG

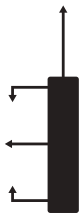
#### NUMBER OF BOLTS & BOLT DIRECTION



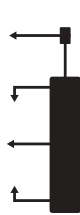
1A



3C



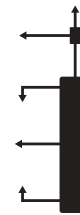
4C



4D



5A



5C



6A

### STEP 2. ENTRY

#### UNLOCKING



X - NONE



K - KEY



H - LOCKABLE  
LEVER HANDLE



A - ACCESS  
CONTROL



C - COMBINATION  
LOCK

#### BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED  
(ELECTRIC)

#### OPERATOR



XX - NONE



LS - LEVER HANDLE  
(STRAIGHT)



LE - LEVER HANDLE  
(ERGONOMIC)



US - PROFILE  
HANDLE (STRAIGHT)



UC - PROFILE  
HANDLE (STRAIGHT  
CLUTCHED)

### STEP 3. SECURING

#### UPON DOOR CLOSURE



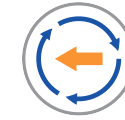
AA - AUTO  
BOLTING / AUTO  
DEADLOCKING



AM - AUTO  
BOLTING / MANUAL  
DEADLOCKING



AB - AUTO  
BOLTING ONLY



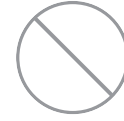
MA - MANUAL  
BOLTING / AUTO  
DEADLOCKING



MM - MANUAL  
BOLTING / MANUAL  
DEADLOCKING

### STEP 4. EXIT

#### UNLOCKING



X - NONE



K - KEY



A - ACCESS  
CONTROL

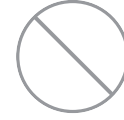


L - PANIC /  
EMERGENCY /  
SINGLE OPERATION



T - THUMBTURN

#### BOLT RETRACTION



X - NONE



M - MANUAL



P - POWERED  
(ELECTRIC)

#### OPERATOR



XX - NONE



LS - LEVER HANDLE  
(STRAIGHT)



LE - LEVER HANDLE  
(ERGONOMIC)



US - PROFILE  
HANDLE (STRAIGHT)



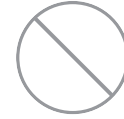
UC - PROFILE  
HANDLE (STRAIGHT  
CLUTCHED)



SK - ANTI-CLIMB  
SLIDING KNOB

### STEP 5. FITTING & ORIENTATION

#### HANDING & OPENING METHOD



XX - UNHANDED



RI - RIGHT  
HAND, OPEN IN



RO - RIGHT HAND  
(REVERSED),  
OPEN OUT



LI - LEFT HAND,  
OPEN IN



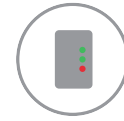
LO - LEFT HAND  
(REVERSED),  
OPEN OUT



UN - UNKNOWN

### STEP 6. OPTIONAL ENHANCEMENTS

#### POPULAR OPTIONAL ENHANCEMENTS



M01 - MONITORING



K04 - BREAKDOME  
OVER THUMBTURN

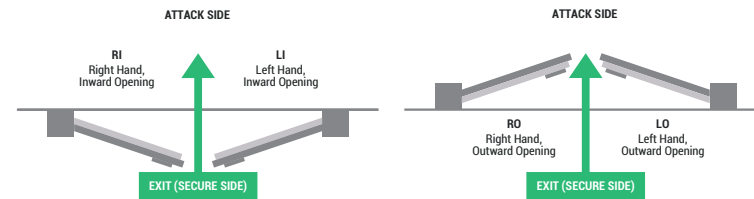


M03 - REQUEST  
TO EXIT FACILITY

## SELF CODING SYSTEM

Surelock and Mico keeps have a simple ordering code, covering the opening method and door material type.

EXAMPLE ORDER CODE: KAB-OS-00

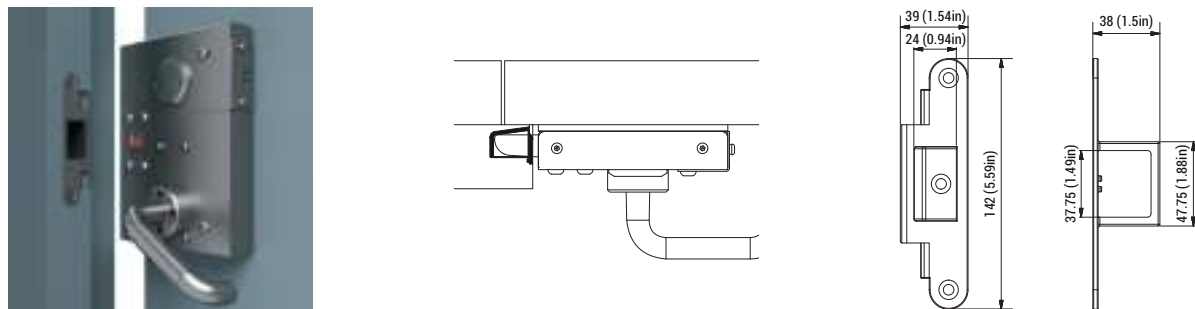


| MODEL          | OPENING DIRECTION | FRAME MATERIALS | VARIANTS | PACKING (OPTION B)                                  |
|----------------|-------------------|-----------------|----------|-----------------------------------------------------|
| AB Abryll      | O Outward         | S Steel         | 00-99    | 08 Load plate & packing; door to bolt 8mm (0.32in)  |
| TY Tyne        | I Inward          | T Timber        |          | 12 Load plate & packing; door to bolt 12mm (0.47in) |
| ST Stirling    | B Bi-directional  | B Both          |          | 15 Load plate & packing; door to bolt 15mm (0.59in) |
| MA Modula      | S Sliding         | X N/A           |          | 20 Load plate & packing; door to bolt 20mm (0.79in) |
| RM Rimlock     | F Floor           |                 |          | 25 Load plate & packing; door to bolt 25mm (0.98in) |
| SL Slimline    |                   |                 |          |                                                     |
| MS MSR         |                   |                 |          |                                                     |
| ZE Zeus        |                   |                 |          |                                                     |
| MO Moorgate    |                   |                 |          |                                                     |
| PG Palisade    |                   |                 |          |                                                     |
| GT Purbrook-GT |                   |                 |          |                                                     |
| SG SGL         |                   |                 |          |                                                     |

## ABRYLL KEEPS

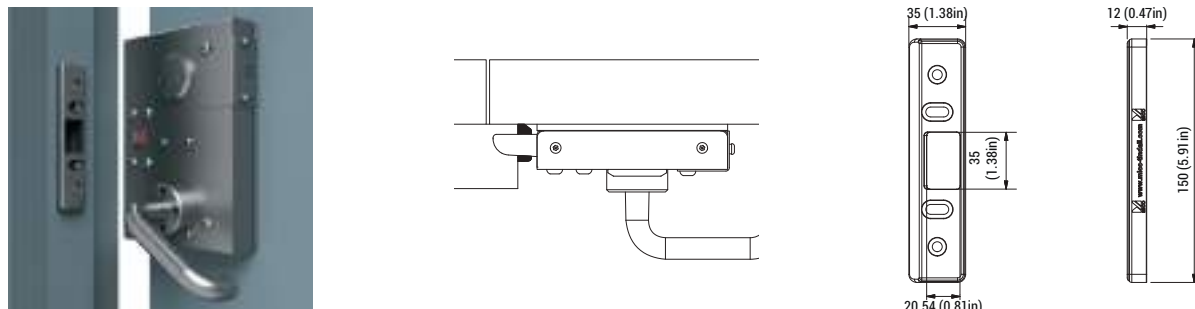
EXAMPLE CODE: KAB-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



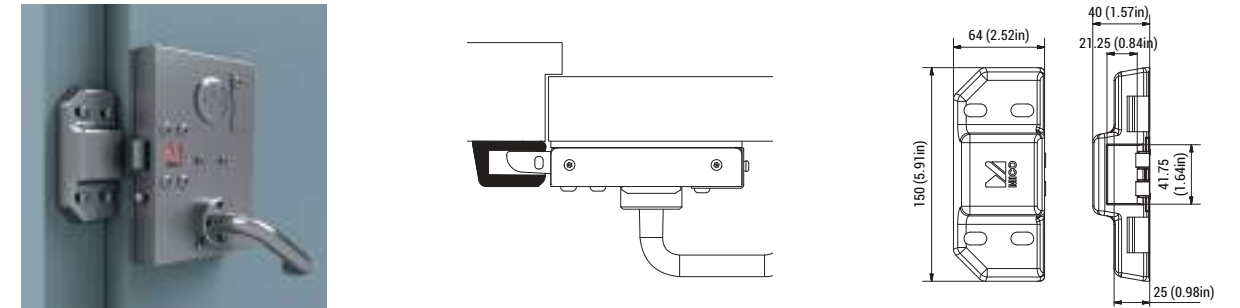
EXAMPLE CODE: KAB-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



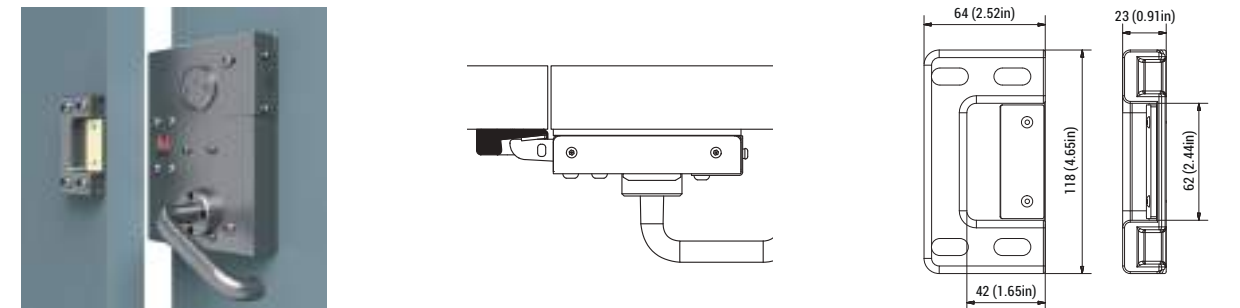
EXAMPLE CODE: KAB-IB-00

Stainless steel keep to suit inward opening doors in a steel or timber frame.



EXAMPLE CODE: KAB-OB-01

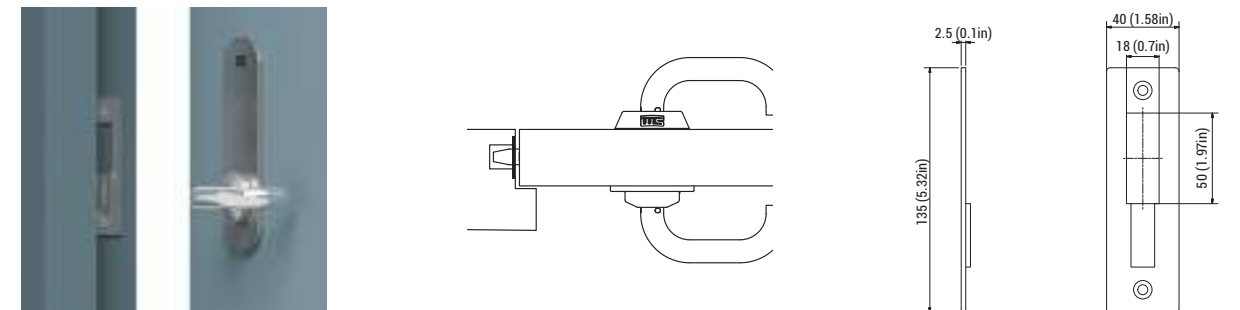
Stainless steel keep to suit outward (dual-opening) steel or timber double doors.



## TYNE KEEPS

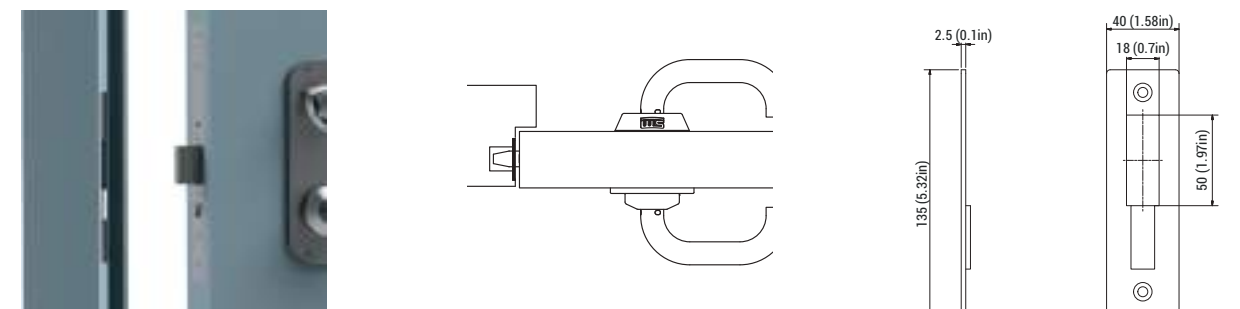
EXAMPLE CODE: KTY-BB-00

Stainless steel keep to suit inward & outward opening doors in a steel or timber frame.



EXAMPLE CODE: KTY-BB-00

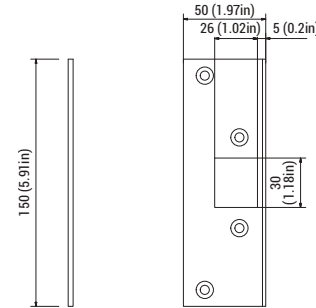
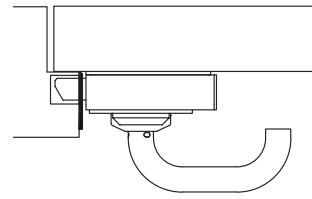
Stainless steel keep to suit inward & outward opening doors in a steel or timber frame



## STIRLING KEEPS

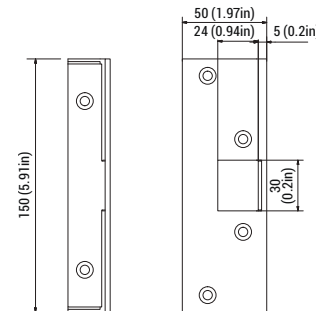
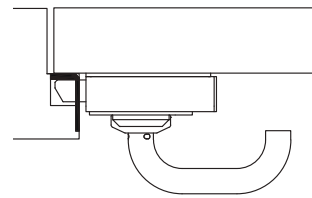
### EXAMPLE CODE: KST-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



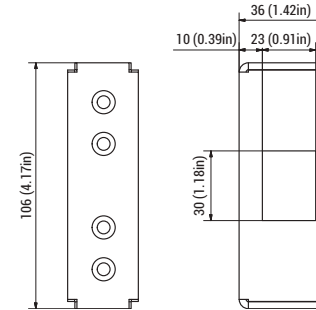
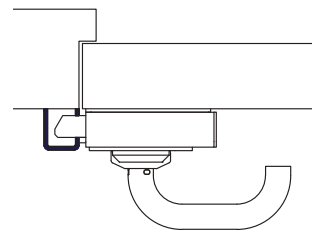
### EXAMPLE CODE: KST-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



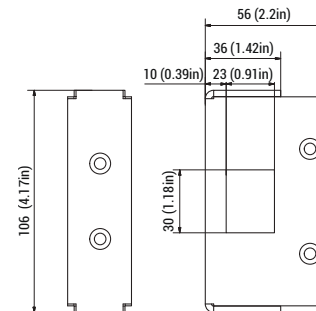
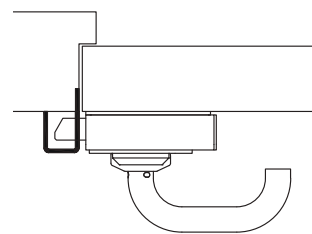
### EXAMPLE CODE: KST-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



### EXAMPLE CODE: KST-IT-00

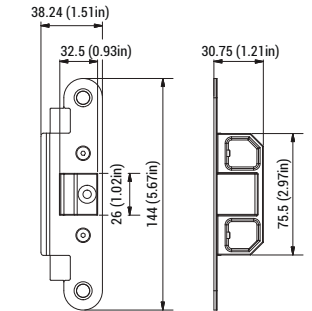
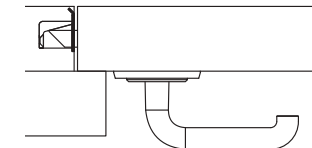
Stainless steel keep to suit inward opening doors in a timber frame.



## MODULA KEEPS

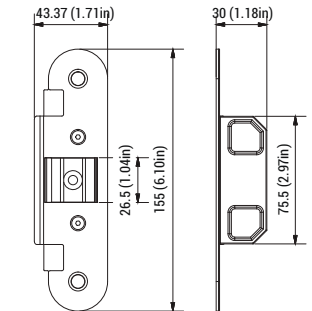
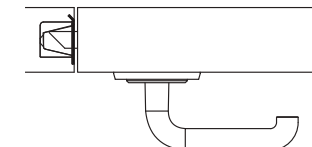
### EXAMPLE CODE: KMA-BB-00

Stainless steel keep to suit inward & outward opening in a steel or timber door.



### EXAMPLE CODE: KMA-OB-00

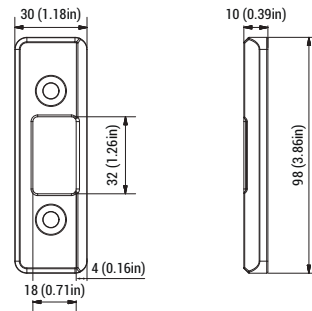
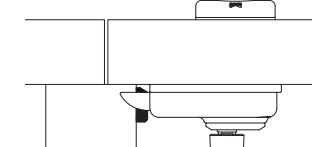
Stainless steel keep to suit outward opening in steel or timber double doors.



## RIMLOCK KEEPS

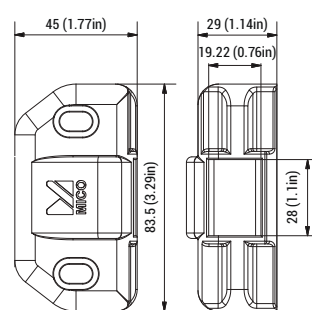
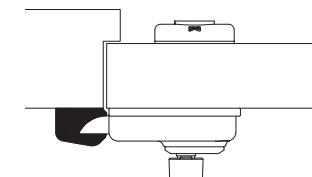
### EXAMPLE CODE: KRM-OB-00

Stainless steel keep to suit outward opening doors in a steel or timber frame.



### EXAMPLE CODE: KRM-IB-00

Stainless steel keep to suit inward opening doors in a steel or timber frame.

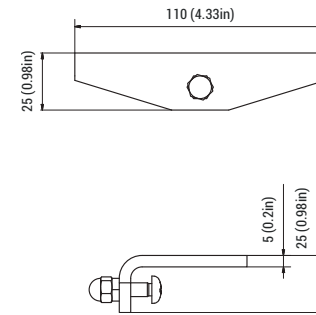
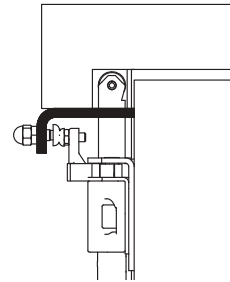




## SLIMLINE TOP KEEPS

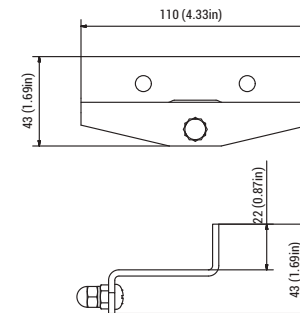
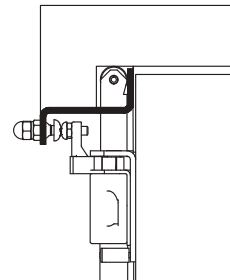
### EXAMPLE CODE: KSL-OS-01

Stainless steel keep & restraint strike to suit outward opening doors in a steel or timber frame.



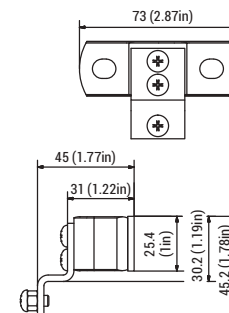
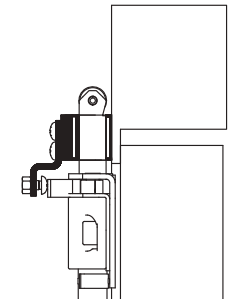
### EXAMPLE CODE: KSL-OT-01

Stainless steel keep & restraint strike to suit outward opening doors in a timber frame.



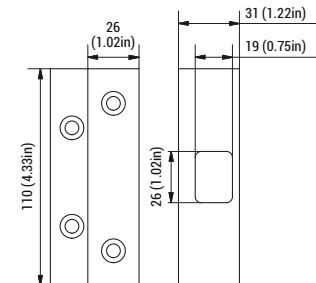
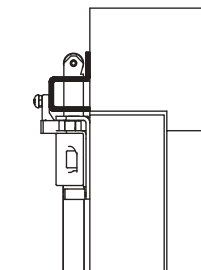
### EXAMPLE CODE: KSL-OS-02

Stainless steel keep & restraint strike to suit outward opening doors in a narrow section steel frame.



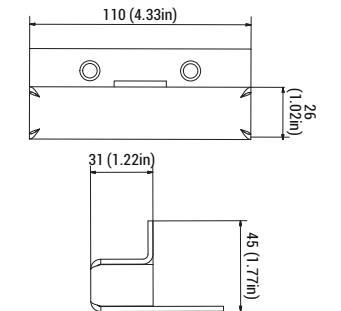
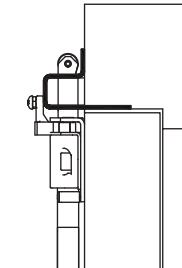
### EXAMPLE CODE: KSL-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



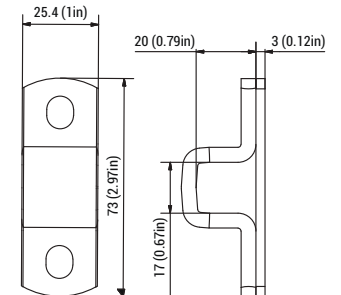
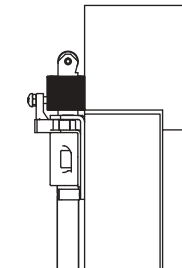
### EXAMPLE CODE: KSL-IT-00

Stainless steel keep to suit inward opening doors in a timber frame.



### EXAMPLE CODE: KSL-IS-02

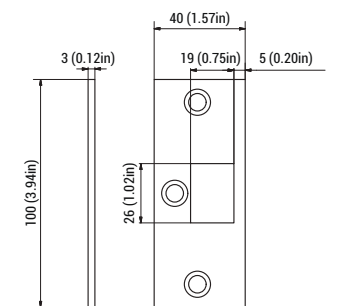
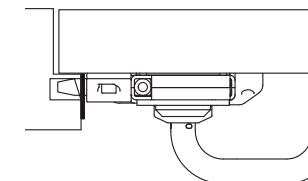
Stainless steel keep to suit inward opening doors in a narrow section steel frame.



## SLIMLINE CENTER KEEPS

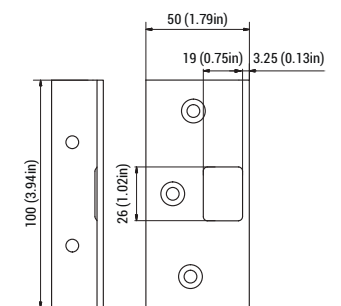
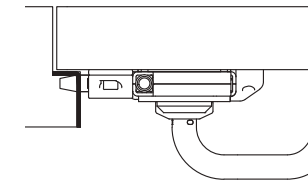
### EXAMPLE CODE: KSL-OS-01

Stainless steel keep to suit outward opening doors in a steel frame.



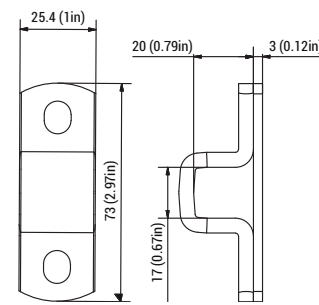
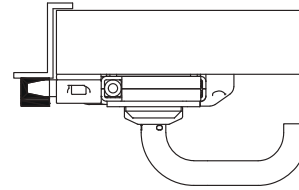
### EXAMPLE CODE: KSL-OT-00

Stainless steel keep to suit outward opening doors in a timber frame.



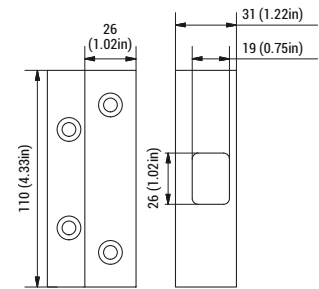
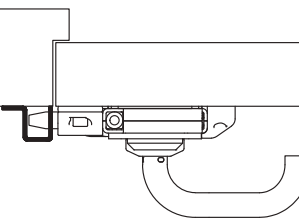
## EXAMPLE CODE: KSL-IS-00

Stainless steel keep to suit inward opening doors in a steel frame.



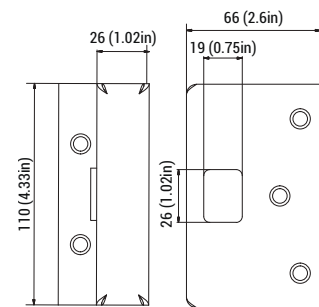
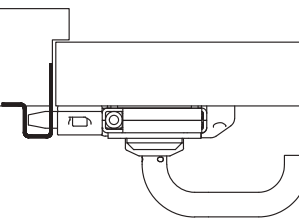
## EXAMPLE CODE: KSL-IS-01

Stainless steel keep to suit inward opening doors in a steel frame.



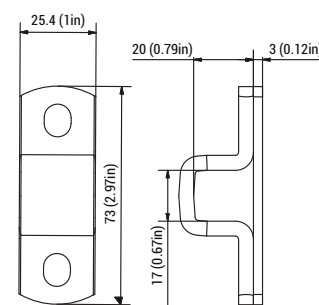
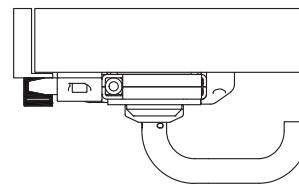
## EXAMPLE CODE: KSL-IT-00

Stainless steel keep to suit inward opening doors in a timber frame.



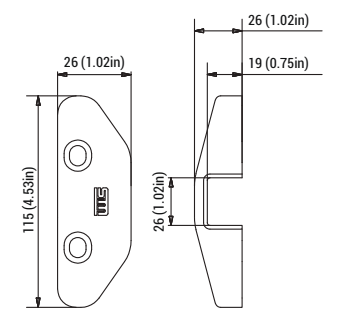
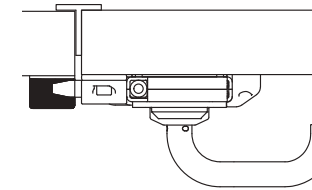
## EXAMPLE CODE: KSL-OS-00

Stainless steel keep to suit outward opening doors in a steel frame.



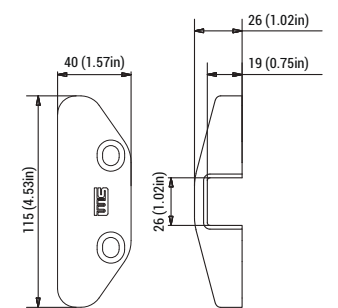
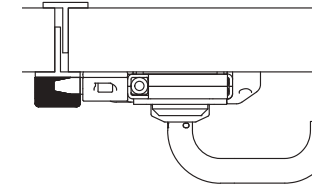
## EXAMPLE CODE: KSL-BB-00

Stainless steel keep to suit inward & outward opening double doors.



## EXAMPLE CODE: KSL-BB-01

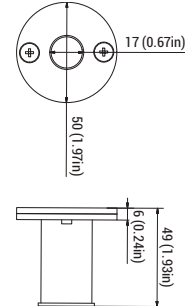
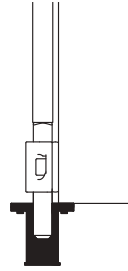
Stainless steel keep to suit inward & outward opening double doors with internal 'T' Astragal.



## SLIMLINE FLOOR KEEPS

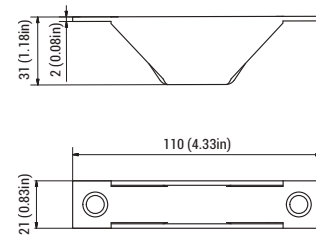
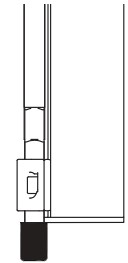
### EXAMPLE CODE: KSL-FX-00

Stainless steel 'Dust-free' floor keep.



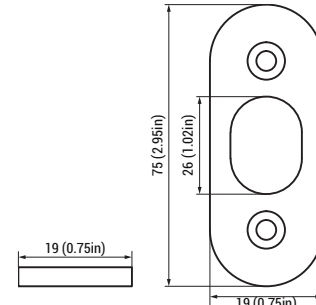
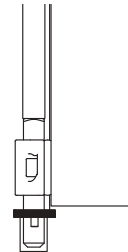
### EXAMPLE CODE: KSL-FX-01

Stainless steel 'Easy-clean' floor keep.



### EXAMPLE CODE: KSL-FX-02

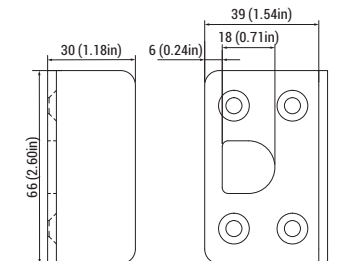
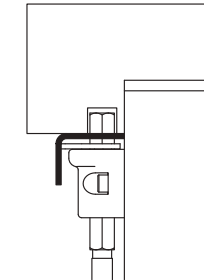
Stainless steel 'Plate' floor keep.



## MSR TOP KEEPS

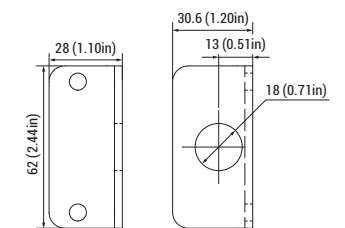
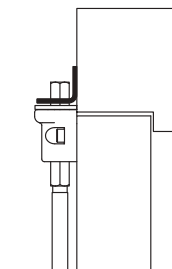
### EXAMPLE CODE: KMS-OB-01

Stainless steel keep & restraint strike to suit outward opening doors in a steel or timber frame.



### EXAMPLE CODE: KMS-IB-01

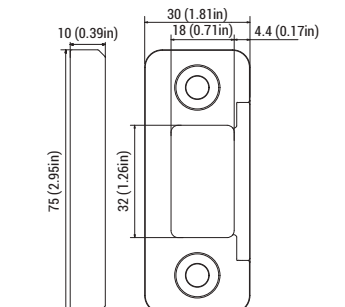
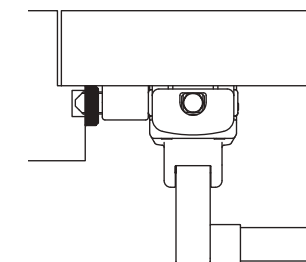
Stainless steel keep & restraint strike to suit inward opening doors in a steel or timber frame.



## MSR CENTER KEEP

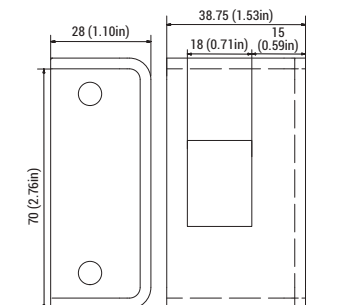
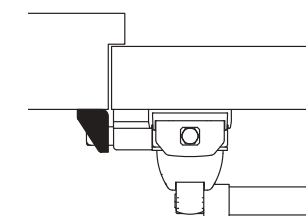
### EXAMPLE CODE: KMS-OB-00

Stainless steel keep to suit outward opening doors in a steel or timber frame.



### EXAMPLE CODE: KMS-IB-00

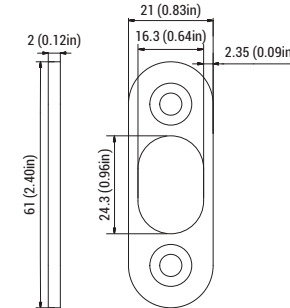
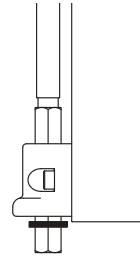
Stainless steel keep to suit inward opening doors in a steel or timber frame.



## MSR BOTTOM KEEPS

**EXAMPLE CODE: KMS-FX-04**

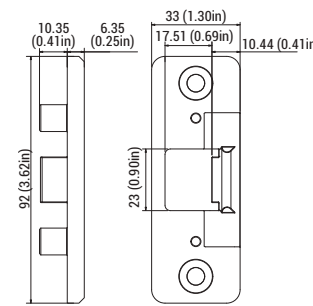
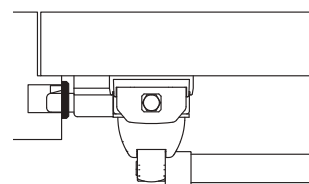
Stainless steel floor keep.



## ZEUS HORIZONTAL KEEPS

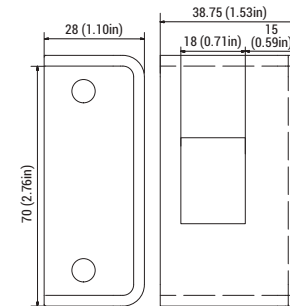
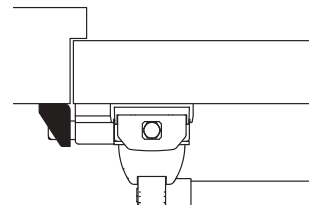
**EXAMPLE CODE: KZE-OB-00**

Stainless steel keep & restraint strike to suit center bolt on outward opening doors in a steel or timber frame.



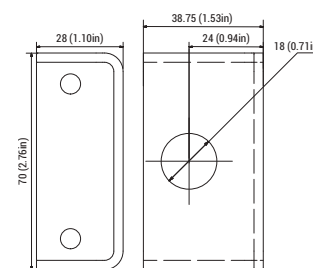
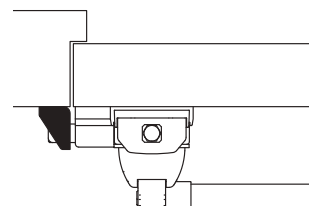
**EXAMPLE CODE: KZE-IB-00**

Stainless steel keep & restraint strike to suit center bolt on inward opening doors in a steel or timber frame.



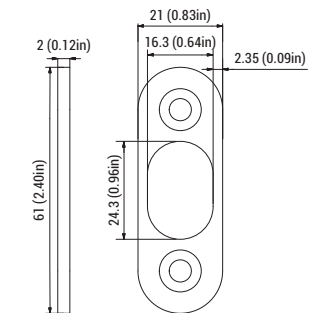
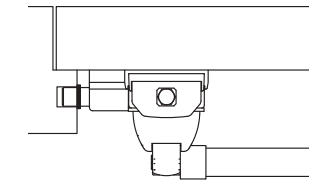
**EXAMPLE CODE: KZE-OB-01**

Stainless steel keep to suit upper & lower horizontal bolts on outward opening doors in a steel or timber frame.



**EXAMPLE CODE: KZE-IB-01**

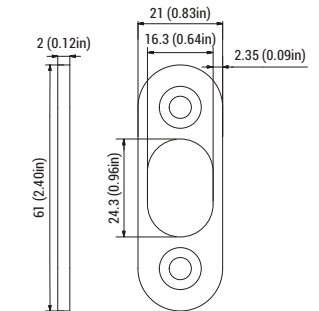
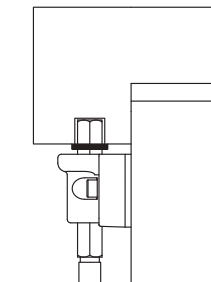
Stainless steel keep to suit upper & lower horizontal bolts on inward opening doors in a steel or timber frame.



## ZEUS VERTICAL KEEPS

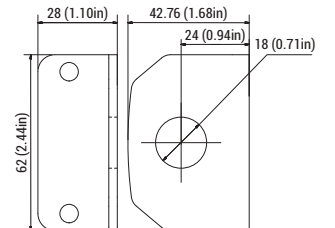
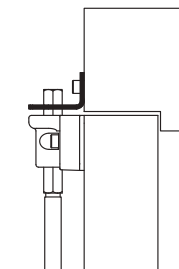
**EXAMPLE CODE: KZE-OB-02**

Stainless steel keep to suit top bolt on outward opening doors in a steel or timber frame.



**EXAMPLE CODE: KZE-IB-02**

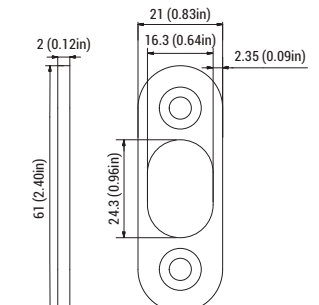
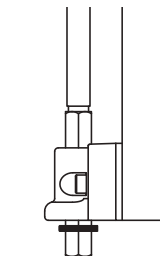
Stainless steel keep to suit top bolt on inward opening doors in a steel or timber frame.



## ZEUS VERTICAL & HORIZONTAL BOTTOM KEEPS

**EXAMPLE CODE: KZE-FX-04**

Stainless steel floor keep.

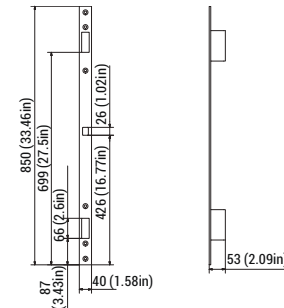
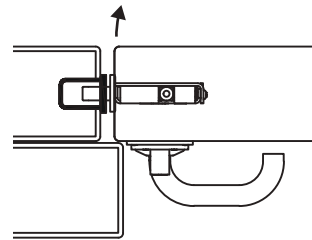




## MOORGATE KEEPS

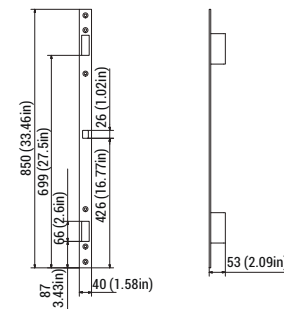
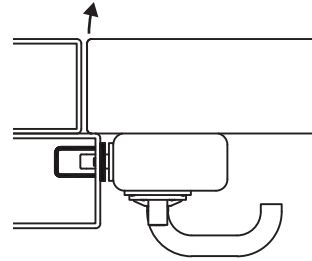
### EXAMPLE CODE: KMO-BS-00

Stainless steel mortice fitted keep to suit inward & outward opening gates.



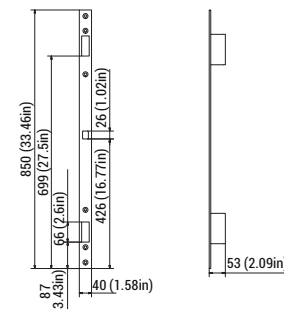
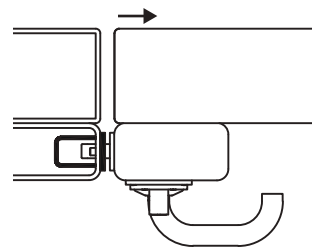
### EXAMPLE CODE: KMO-BS-01

Stainless steel surface mounted keep to suit inward & outward opening gates.



### EXAMPLE CODE: KMO-SS-00

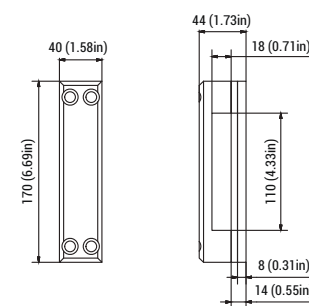
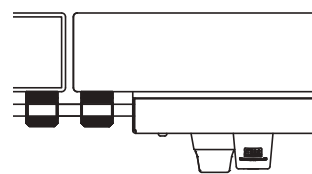
Stainless steel surface mounted keep to suit sliding gates.



## PALISADE KEEPS

### EXAMPLE CODE: KPG-BB-00

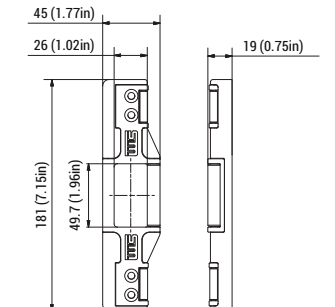
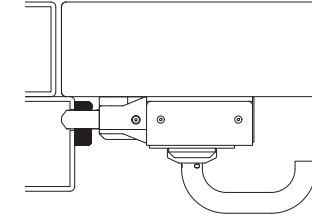
Stainless steel keep to suit inward & outward opening gates.



## PURBROOK-GT KEEPS

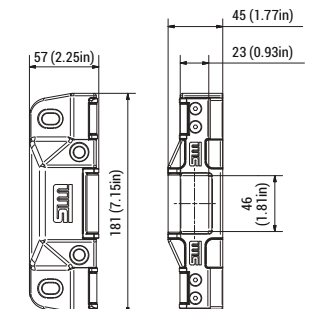
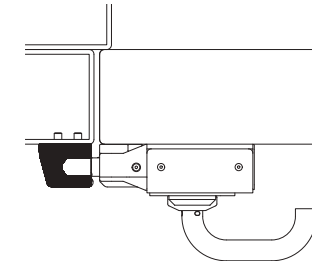
### EXAMPLE CODE: KGT-OB-00

Stainless steel keep to suit outward opening gates.



### EXAMPLE CODE: KGT-IB-00

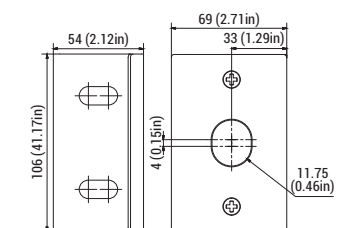
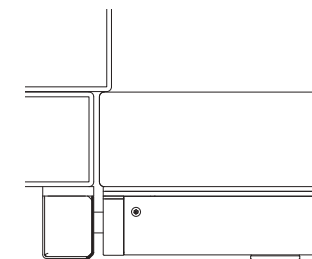
Stainless steel keep to suit inward opening gates.



## SGL KEEPS

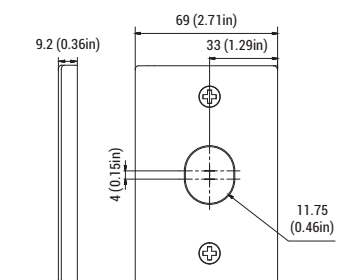
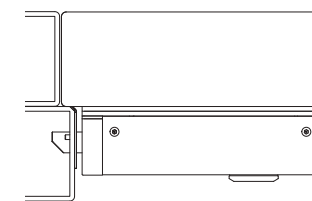
### EXAMPLE CODE: KSG-IB-00

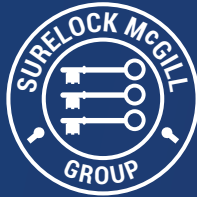
Stainless steel keep to suit inward opening gates.



### EXAMPLE CODE: KSG-OB-00

Stainless steel keep to suit outward opening gates.





[ Securing the people  
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