Commercial Security

In a commercial environment there are many factors affecting the type of security and hardware that is used, which differ significantly from those faced in the home. These include controlling the access rights and times of a number of building users, whilst ensuring accessibility for all and a safe egress should an emergency arise

Our range of commercial security hardware products include Briton mortice cylinder lockcases with 72mm centres and CISA cylinders including bump and snap resistant models.

Security and Access Control

Control of access is vital if the security of buildings is not to be compromised.

Traditionally, master keyed systems have been the simple, cost effective way of managing controlled access to facilities where there are a variety of users with different areas of responsibility and different security priorities.

Whilst mechanical security still has an important part to play in the security of commercial buildings there is an increasing swing towards electronic access control. The complexity of such systems can encompass simple push button locks up to advanced biometric recognition to determine authorisation.

Electronic access control can also provide many advantages and benefits that can play a significant role in the provision of accessible solutions for less able users.

Accessibility Issues

Legislation concerning equality imposes certain requirements to maximise the ability of less able users to access public and commercial premises and this therefore has implications for the security and hardware needs of a building. Guidance and regulation in these matters is determined by Approved Document M of The Building Regulations and BS 8300. The main issues relating to lock and latch cases are:

- The minimum distance from the door edge to the centre of the keyway (backset) – BS 8300 states a minimum of 54mm
- The distance between the handle follower and the centre of the keyway (lock centres) – BS 8300 states a minimum of 72mm
- 'Lever handles should be used wherever possible in conjunction with an upright mortice lock/latch' (BS 8300)

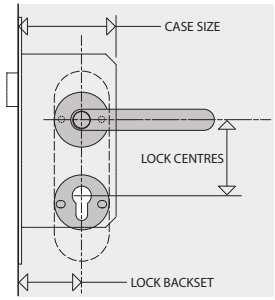
Our Recommendation

For commercial buildings we recommend the use of European style lockcases which have 72mm centres and a minimum of 60mm backset in line with the guidance of BS 8300. The Briton 5600, 5500 and 5400 Series euro profile cylinder mortice lockcases have been designed specifically to meet the requirements of the European standard EN 12209 and are CE marked where appropriate. Look out for locks with this symbol.

Replacing an Existing Lockcase

If you are replacing an existing mortice lockcase you can find out the size you require by:

1. Simply measuring from the centre of the keyhole to the forend of the lock. - this gives you the backset measurement..
2. Measure the distance from the cylinder aperture to the lever follower - this gives you the lock centres measurement.



EN 12209 is the European standard for lockcases

Wide ranging in its scope, it prescribes the test methodology, applications and product types for a wide range of physical properties including cycle testing, door size, suitability for use on fire door, security and corrosion resistance resulting in an 11 digit coding.

1. Category of Use
Defines the frequency of use.
Grade 3 - high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse

3. Door Size/Mass
The mass of the door that the product is suitable for:
Grade 8 - Up to 200kg; 15N max closing force required

5. Safety
Grade 0 - where there is no safety requirement

7. Security
Security and drill resistance levels are identified
Grade 4 - high security with no drill resistance

9. Type of Operation
Defines the type of key operation and locking type:
Grade 0 - Not applicable
Grade A - Cylinder lock or latch with manual locking
Grade C - Cylinder lock or latch with intermediate locking

11. Key Identification Requirement
Number of detaining elements and effective differs
Grade 0 - Indicates no requirement

3	X	8	1	0	G	4	B	A	0	0
1 - 3	A - X	1 - 9	1	0	0 - G	1 - 7	A - T	0 - H	0 - 4	0

2. Durability
Performance testing of the product through various cycle tests. Durability and Load On Latch (LOL) are identified
Grade H - 200,000 cycles; 10N (LOL)
Grade X - 200,000 cycles; 120N (LOL)

4. Fire Behaviour
Suitability for use on fire doors through testing to EN 1634
Grade 0 - Not approved for fire door use
Grade 1 - Approved for fire door use subject to assessment

6. Corrosion Resistance
Level of corrosion to EN 1670:
Grade F - High resistance at -20˚C to +80˚C - 96 hours
Grade G - Very high resistance at -20˚C to +80˚C - 240 hours

8. Field of Door Application
Defines the applications the product is suitable for:
Grade B - Suitable for hinged doors in a mortice application and without forend support

10. Type of Spindle Operation
Method of operation and compatible door furniture
Grade 0 - Lock or latch without follower
Grade 2 - Lock or latch for unsprung lever handle operation