

BS EN 12209: 2003

Mechanically operated locks, latches and locking plates.

Products tested to British and European standards provide greater durability, longer warranty periods, peace of mind and evidence of professional specification.

Under the standard each product is tested and classified accordingly to show its compliance. The identification of an 11-digit code is visible on the individual product. Each digit represents a category and how it measured against the standard to which it was tested.

Digit 1: Category of use

1 = Light use. For use by people with a high incentive to exercise care and with a small chance of misuse.

2 = Normal use. For use by people with some incentive to exercise care but where there is some chance of misuse, e.g. office doors.

3 = Extreme use. For use by people where there is little incentive to exercise care and where there is a high chance of misuse.

Digit 2: Durability

A = 50,000 test cycles; no load on latch bolt.

B = 100,000 test cycles; no load on latch bolt.

C = 200,000 test cycles; no load on latch bolt.

F = 50,000 test cycles; 10 N load on latch bolt.

G = 100,000 test cycles; 10 N load on latch bolt.

H = 200,000 test cycles; 10 N load on latch bolt.

L = 100,000 test cycles; 25 N load on latch bolt.

M = 200,000 test cycles; 25 N load on latch bolt.

R = 100,000 test cycles; 50 N load on latch bolt.

S = 200,000 test cycles; 50 N load on latch bolt.

W = 100,000 test cycles; 120 N load on latch bolt.

X = 200,000 test cycles; 120 N load on latch bolt.

Digit 3: Door mass and closing force

1 = up to 100kg door mass; 50 N maximum closing force.

2 = up to 200kg door mass; 50 N maximum closing force.

3 = above 200kg door mass or specified by the manufacturer; 50 N maximum closing force.

4 = up to 100kg door mass; 25 N maximum closing force.

5 = up to 200kg door mass; 25 N maximum closing force.

6 = above 200kg door mass or specified by the manufacturer; 25 N maximum closing force.

7 = up to 100kg door mass; 15 N maximum closing force.

8 = up to 200kg door mass; 15 N maximum closing force.

9 = above 200kg door mass or specified by the manufacturer; 15 N maximum closing force.

Digit 4: Suitability for use on fire/smoke doors

0 = not approved for use on fire/smoke resisting door assemblies.

1 = suitable for use on fire/smoke resisting assemblies, subject to satisfactory assessment of the contribution of the lock or latch to the fire resistance of specified fire/smoke resisting door assemblies.

Digit 5: Safety

Only 1 grade of safety is identified.

0 = no safety requirement.

Digit 6: Corrosion resistance and temperature

0 = no defined corrosion resistance, no temperature requirement.

A = low corrosion resistance, no temperature requirement.

B = moderate corrosion resistance, no temperature requirement.

C = high corrosion resistance, no temperature requirement.

D = very high corrosion resistance, no temperature requirement.

E = moderate corrosion resistance, temperature requirement from -20°C to +18°C.

F = high corrosion resistance, temperature requirement from -20°C to +18°C.

G = very high corrosion resistance, temperature requirement from -20°C to +18°C.

Digit 7: Security and drill resistance

1 = minimum security and no drill resistance.

2 = low security and no drill resistance.

3 = medium security and no drill resistance.

4 = high security and no drill resistance.

5 = high security with drill resistance.

6 = very high security and no drill resistance.

7 = very high security with drill resistance.

Digit 8: Field of door application

15 grades of door application are identified and summarised in the table below:

Grade	Type	Application 1	Application 2	Application 3
A	Mortice	Unrestricted application		
B	Mortice	Hinged door		
C	Mortice	Sliding door		
D	Rim	Unrestricted application		
E	Rim	Hinged door		
F	Rim	Sliding door		
G	Bored lock	Unrestricted application		
H	Mortice	Hinged door	Supported	
J	Rim	Hinged door	Inwards	
K	Mortice	Hinged door		Locked from inside
L	Mortice	Sliding door		Locked from inside
M	Rim	Hinged door		Locked from inside
N	Rim	Sliding door		Locked from inside
P	Mortice	Hinged door	Supported	Locked from inside
R	Rim	Hinged door	Inwards	Locked from inside

Digit 9: Type of key operation and locking

0 = not applicable.

A = cylinder lock or latch, manually locking.

B = cylinder lock or latch, automatically locking.

C = cylinder lock or latch, manually locking with intermediate locking.

D = lever lock or latch, manually locking.

E = lever lock or latch, automatically locking.

F = lever lock or latch, manually locking with intermediate locking.

G = lock or latch without key operation, manually locking.

H = lock without key operation, automatically locking.

Digit 10: Type of spindle operation

0 = lock or latch without follower.

1 = lock or latch for knob or sprung lever handle operation.

2 = lock or latch for unsprung lever handle operation.

3 = lock or latch for heavy duty unsprung lever handle operation.

4 = lock or latch for heavy duty unsprung lever handle operation specified by the manufacturer.

Digit 11: Key identification requirement

0 = no requirements.

A = minimum three detaining elements.

B = minimum five detaining elements.

C = minimum five detaining elements, extended number of differs.

D = minimum six detaining elements.

E = minimum six detaining elements, extended number of effective differs.

F = minimum seven detaining elements.

G = minimum seven detaining elements extended number of effective differs.

H = minimum eight detaining elements, extended number of effective differs.



Marking:

The standard requires the following additional information to accompany the CE Marking required for locks and latches intended for use on fire resisting doors and smoke control doors.

- a) The identification number of the notified certification body.
- b) The name or identifying mark of the manufacturer.
- c) The registered address of the manufacturer.
- d) The last two digits of the year in which the marking was applied.
- e) The number of the EC certificate of conformity, reference to EN 12209:2003.
- f) The classification code of the product.