

# BS EN1154:1997

## BS EN 1154: 1997 Controlled Door Closing Devices

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 a 6-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.

The standard covers all controlled surface mounted, concealed or transom mounted closers as well as both single and double action floor springs.

### Digit 1: Category of use

For all internal and external doors for use by the public (and others), with little incentive to care i.e. where there is some chance of misuse of the door.

- 3 = for closing doors from at least 105° open.
- 4 = for closing doors from 180° open.

N.B. Grade 4 classification assumes standard installation according to the manufacturers' instructions.

For applications subject to extremes of abuse, or particular limitations of opening angle, door closers incorporating a backcheck function or provision of a separate door stop should be considered.

### Digit 2: Number of test cycles

- 8 = 500,000 test cycles.

### Digit 3: Test door mass

Seven test door mass grades and related door closer power sizes are identified. Where a door closer provides a range of power sizes both the minimum and maximum sizes shall be identified.

Test Door Mass & Recommended Door Widths		
Power size of closer	Maximum mass of hinged leaf	Width of test door leaf
1	20kg	<750mm
2	40kg	850mm
3	60kg	950mm
4	80kg	1100mm
5	100kg	1250mm
6	120kg	1400mm
7	160kg	1600mm

### Digit 4: Fire resistance

- 0 = not approved for use on fire/smoke door assemblies.
- 1 = suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the door closer to the fire resistance of specified fire/smoke door assemblies.

### Digit 5: Safety

- 1 = safe.

### Digit 6: Corrosion resistance

- 0 = no defined corrosion resistance.
- 1 = mild resistance.
- 2 = moderate resistance.
- 3 = high resistance.
- 4 = very high resistance.

### Example:

3 8 2-5 0 1 0

The above code signifies a door closer capable of opening to at least 105°, and with a range of power size from 2 to 5. The closer would not be suitable for use on a fire door.

### Marking:

This standard requires that each door closer and separately supplied accessory manufactured to the standard be marked with the following:

- a: manufacturer's name or trademark, or other means of identification.
- b: product model identification.
- c: the 6 digit classification listed above.
- d: number of this European standard.
- e: the year and week of manufacture (may be coded).

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