BS EN1155:1997

BS EN 1155:1997 Electrically Powered Hold Open Devices for Swing Doors

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 specifies requirements for separate electrically powered hold-open devices and also for hold-open mechanisms incorporated in a door closer. Whilst these devices may incorporate smoke or fire detection elements, the performance of these elements is outside the scope of BS EN1155.

Digit 1: Category of use

Only one category is identified.

3 = 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.

Digit 2: Number of test cycles

5 = 50,000 test cycles. For stand alone electrically powered hold open devices.
8 = 500,000 test cycles. For all electrically powered hold-open and free-swing door closers and devices that contain operating arms.

Digit 3: Test door mass

Five test door mass grades and related door closer power sizes are identified. Where an electrically powered hold-open device 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
3	60kg	950mm
4	80kg	1100mm
5	100kg	1250mm
6	120kg	1400mm
7	160kg	1600mm

Digit 4: Fire resistance

Only one grade is identified.

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

Only one grade is identified.

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	5	3-6	1	1	0

The above code signifies an electrically powered hold-open device suitable for a range from power size 3 to 6.

Marking:

This standard requires that each electrically powered hold-open device 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).