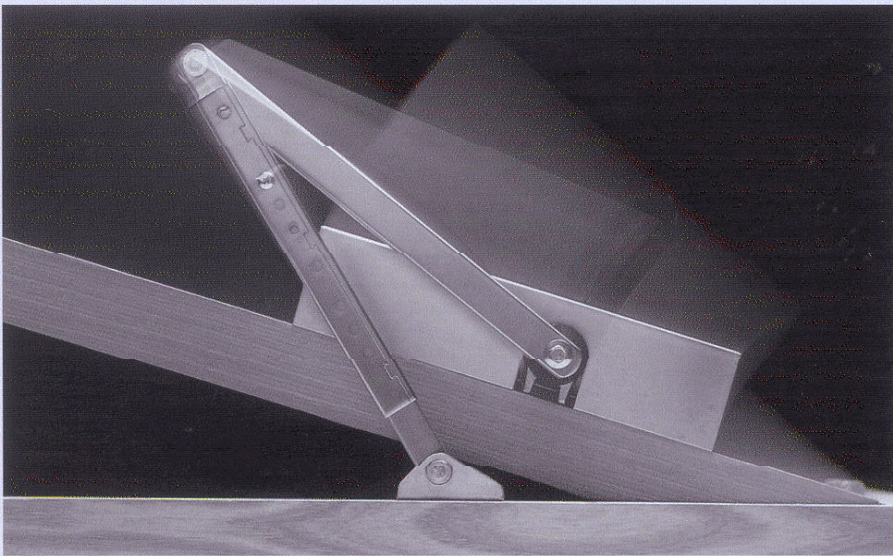




Briton EN 1154 Explained



EN 1154 is the European standard for "controlled door closing devices" and, as such, tests mechanical door closer performance. Adopted by EU member states, it becomes a mandatory requirement for CE marking in 2004. It prescribes the test methodology and subsequent classification of randomly selected production line products. The test data, together with supporting technical evaluation, results in a classification code. This coding allows comparison across a range of closers according to their compliance with the standard.

Door closers for fire doors are covered by a Construction Products Directive mandate. Compliance with EN 1154, supported by suitable evidence, therefore allows the application of the CE mark. All conforming door closers consequently will be marked with their EN 1154 coding and details of the notified certification body.

Door controls with electrical components, such as electromagnetic hold open devices, must satisfy the requirements of both EN 1154 and the supplementary standard, EN 1155.

Category of use

Defines the angle from which the closer will close the door in a controlled manner. Grade 3 will control the door from 105°. Most Briton 2000 closers will operate from 180° - Grade 4.

Door size/mass

The number identifies the power size of the closer as defined by the door size and mass. Adjustable power closers are defined by the upper and lower power sizes.

closer size	max. door size width - weight
1	750mm - 20kg
2	850mm - 40kg
3	950mm - 60kg
4	1100mm - 80kg
5	1250mm - 100kg
6	1400mm - 120kg
7	1600mm - 160kg

Safety

The part of the Standard which ensures the operation and suitability of the closer is hazard free. It provides peace of mind that the closer operates without risk to the user. Only Grade 1 is identified.

4

(3/4)

8

(8)

3

(1 - 7)

1

(0/1)

1

(1)

3

(0 - 4)

Test Cycles

Included in a 500,000 cycle test as defined by Grade 8 the only grade available. However, most Briton 2000 Series closers have been tested up to 2,000,000 cycles indicating superior durability and extended product life

Fire Behaviour

Based on the results of fire testing to EN 1634 ensuring the door remains closed under temperatures which can exceed 1000°C. Grade 1 is for closers which are deemed suitable for use on fire doors. Grade 0 are not suitable for use on fire doors.

Corrosion Resistance

A salt spray test to ascertain corrosion resistance thereby establishing suitability for use in varying environmental conditions. Five grades are identified from 0 (no identified resistance) to 4 (very high resistance). All Briton door closers achieve at least Grade 3 and are suitable for use in *wet, polluted environments and most exterior applications*

Briton certification matrix

● certified performance

* EN 1155 standard for electrically controlled door operators

** Not 2130BD

	2002	2003 2004	2002.T	2003.T	1110 1120B	121CE	121	2130B 2130BD 2130B.T	2130B.TE
EN 1154 (500,000 cycles)	●	●	●	●	●	●		●	●
EN 1155*									●
CE Marked		●		●	●	●		●	●
Certifire Approved		●		●	●	●		●	●
Extended testing (2,000,000 cycles)	●	●						●	●
EN 1634 fire test (up to 2 hours)		●		●	●	●		●	●