

Briton 121 Series



Briton 121 Series

The Briton 121 Series provides the traditional strengths of the Briton range, its quality of performance, durability and reliability in a compact economy range of fixed strength closers.



The Briton 121 Series comprises 2 compact overhead door closers suitable for the most popular door sizes. It has all the characteristics of performance, durability, functionality and quality that specifiers have come to expect from a Briton door control.



- The Briton 121CE is a fixed strength door closer, power size 3, which is CE Marked, Certifire Approved CF390 and is suitable for fire door applications
- The Briton 121 is template adjustable during installation to suit closer sizes 2 to 4. It is NOT CE Marked and is suitable for use in non-fire door applications only



Both products are covered by a full 10 year guarantee

Strip steel armset is pressed for increased rigidity. Armset and bracket supplied is suitable for fixing in Fig.1 and Fig.61.

An optional bracket is available for fixing in Fig.66 applications



Optional hold open armset has a cam action knuckle which is suitable for either hand of door. It is adjustable and will hold the door open up to 130°. Fig.66 applications require a special fixing bracket to achieve 130°

Note: Not to be used on fire door applications

Separate latch action and closing speed adjustment provides total control of the full closing cycle

Pressure die cast aluminium body has a spray paint finish with matching arms

Hardened and ground steel rack and pinion mechanism for smooth and efficient operation

High quality hydraulic fluid with in-built temperature compensation ensures reliable operation in temperatures from -15°C to +40°C

Non handed design provides 180° opening/controlled closing cycle

Fixings

Each unit is supplied with detailed installation instructions and fixing packs for timber doorsets.

Finishes

Briton 121CE and Briton 121 door closers are available in 4 spray painted finishes. All Briton 121 Series door closers are supplied with matching arms and brackets. See page 15 for further information on finishes.



Briton 121.GES in gold finish with matching arms

Briton 121CE & 121



Briton 121.SES in silver finish can be used on non-fire door applications. For all fire door applications please specify Briton 121CE models.

Product selector



The Briton 121CE door closer is successfully type tested and independently certified for conformity to all the requirements of EN 1154. It is marked with the CE mark and coded as shown below (Figures in brackets indicate the range of codings where the higher numbers indicate a higher rating).

For further information on EN 1154 and CE please see page 16.

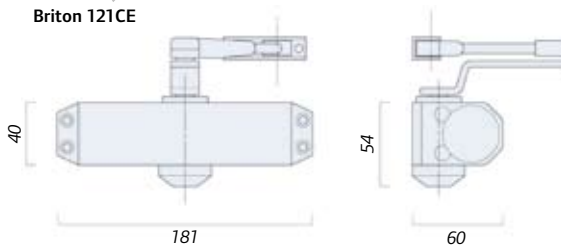
EN classifications range shown in brackets
(3/4) (8) (1-7) (0/1) (1) (0/4)

121CE **4 8 3 1 1 3**

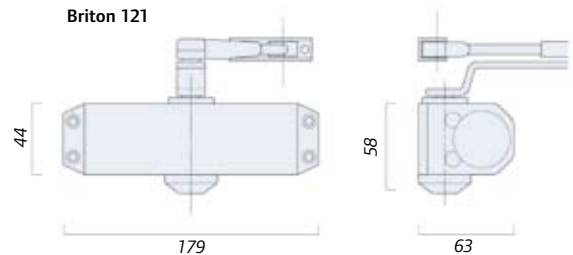
**PLEASE NOTE, The following items are NOT CE marked:
Closers fitted in Fig.66 applications
Hold-Open armsets**

product features		product ref:	
closer size	max. door size width - weight	121CE	121
1	750mm - 20kg		
2	850mm - 40kg		•
3	950mm - 60kg	•	•
4	1100mm - 80kg		•
5	1250mm - 100kg		
6	1400mm - 120kg		
main features		121CE	121
CE Marked		•	
Suitable for fire doors		•	
Fixed strength or adjustable		fixed	adj.
Method of adjustment		fixed	template
Angle of opening		180°	180°
Separate latch action/closing speed		•	•
Manual hold open option		•	•
Matching arm finish		•	•

Briton 121CE



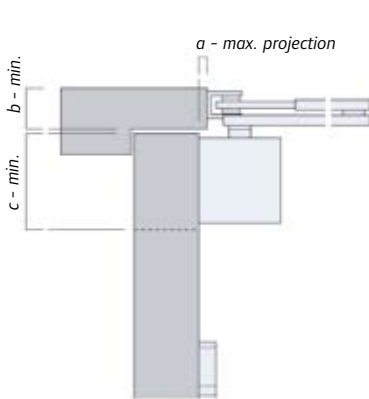
Briton 121



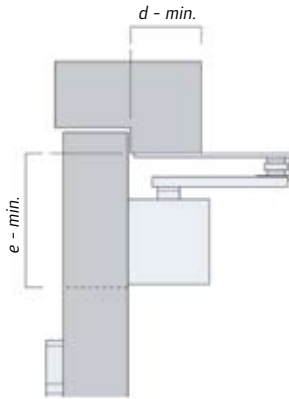
The following illustrations show the dimensional requirements for each individual door closer in the standard applications and track arm applications.

All dimensions are in mm.

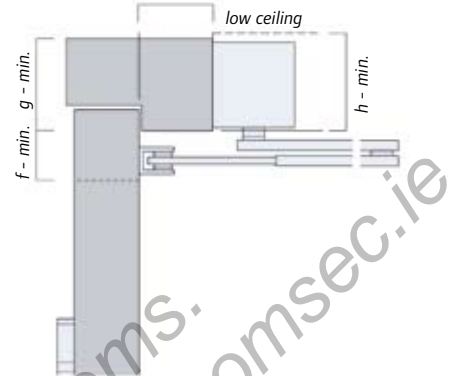
Projecting Arm Applications



Application 1
closer fixed to 'pull' side of door



Application 66
closer fixed to 'push' side of door

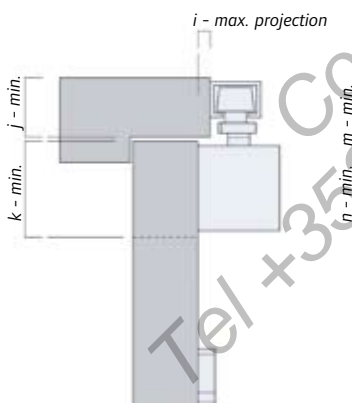


Application 61
closer fixed to transom on 'push side'

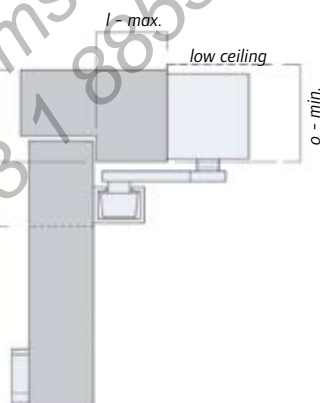
closer reference	cover style	application 1			application 66		application 61		
		a	b	c	d	e	f	g	h
Briton 2003, 2003V, 2004	classic	10	25(38)	50	44	88(100)	28(42)	50	68
Briton 1110, 1120B	all	10	30(30)	80	44	110(123)	30(43)	68	78
Briton 1130B	all	10	35(35)	80	44	110(123)	30(43)	75	75
Briton 121CE	n/a	10	40(40)	50	44	90(110)	40(40)	50	65
Briton 121	n/a	10	35(35)	55	44	90(110)	35(35)	55	70
Briton 2130B, 2130BD	classic	7	28(41)	78	44	94(107)	28(42)	50	68

note: figures in brackets are dimensional variations when used with hold open armsets

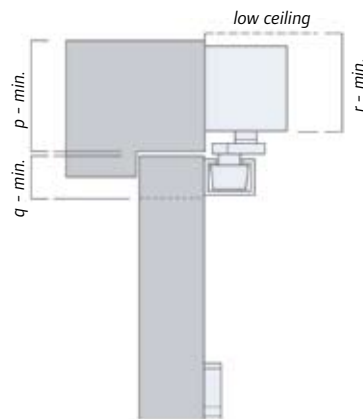
Track Arm Applications



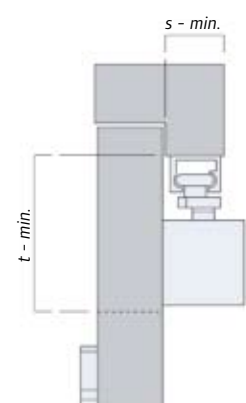
Application 30 (A)
closer fixed to 'pull' side of door



Application 30 (B)
transom mounted on 'push' side of door



Application 30 (C)
transom mounted on 'pull' side of door



Application 30 (D)
closer mounted on 'push' side of door

closer reference	cover style	application 30 (A)			application 30 (B)				application 30 (C)			app'n 30 (D)	
		i	j	k	l	m	n	o	p	q	r	s	t
Briton 2003T	classic	7	41	50	76	50	45	68	68	22	93	-	-
Briton 2130B.T	classic	12	41	55	76	55	45	75	75	22	100	-	-
Briton 2130B.TE	classic	3	51	57	-	-	-	-	-	-	-	32	127
Briton 1110.T	all	3	40	77	50	75	50	75	95	25	95	35	120
Briton 1130B.T	all	3	40	77	50	75	50	75	95	25	95	35	120

Comsec Protection Systems

Briton Finishes

The Briton 2000, 1100 and 121 Series of door closers are available in a wide selection of metallic and coloured finishes which fall into 3 categories

- Metallic finishes
- Solid metal polished finishes
- Powder coated coloured finishes

The powder coated colours are specially formulated to provide a close match to the coloured solid nylon finishes of our Normbau range of door hardware.

Please note:

All projecting arm closers are supplied as standard with arms and closer body in a matching finish. All track arm closers are supplied with matching arm and track with the exception of PAS finish which is supplied with Silver (SES) track.

The Briton 1100 Series and Briton 121 Series have a sprayed body with powder coated armsets.

'S' after the finish code denotes matching arms.

e.g. SES - Silver with matching arms

SE - Silver with black arms

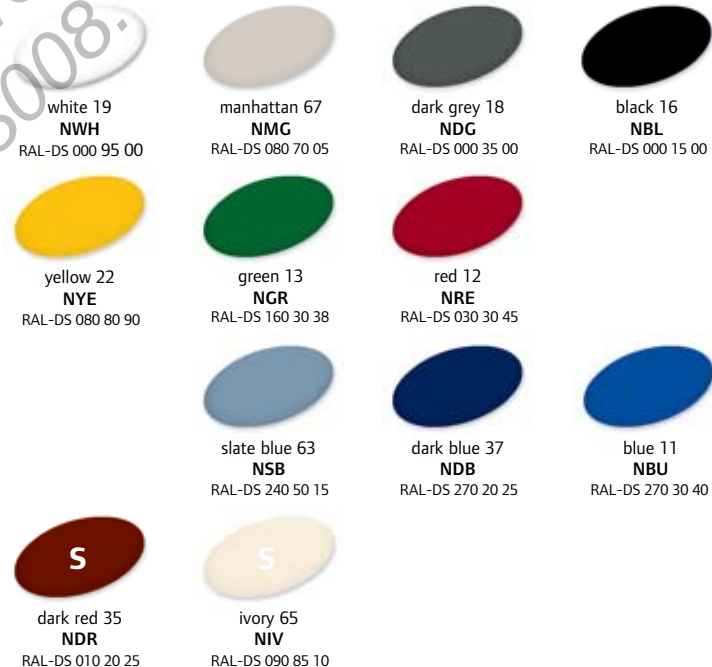
metallic finishes



sprayed finishes



coloured finishes to match Normbau colours



S - Special Colours, may be subject to a longer delivery time

Note: Due to the limitations of the printing process please check your choice of finish against actual product.

closer series:	metallic finishes	metallic plated finishes	sprayed finishes	Normbau coloured finishes
2000 Series	PSS SSS PBS SBS	PCP	SES GES BES	all colours to order
1100 Series	PA*	PSS* SSS* PBS*	SES GES	n/a
121 Series	n/a	n/a	SES GES BES WHS	n/a

* in covered variants only



CE Marking: Note

CE marking applies to closers used in Fig.1 and Fig.61 applications (see page 14). For all other applications, including Fig.66, please call our Technical Services Department on 0800 834 102

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)

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 became 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.

The 'flip-side' to EN1154's performance focus on minimum closing forces is the maximum opening forces guidance in BS8300. Full information on this, and meeting the accessibility aims of the Disability Discrimination Act, is available in our separate 'DDA Design Guide'.

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

	2003 2003V 2004	2003.T	1110 1110.T 1120B 1130B 1130B.T	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)	●	●	●	●		●	●