

**Briton**  
Specification Series

Specified in  
the real world,  
not just a  
perfect world

The facts regarding Briton door controls,  
DDA, BS 8300 and Approved Document M



## Important Information regarding Approved Document M and BS 8300

Recently published as Amendment No. 1 to BS8300, the revised document gives guidance on the 'acceptable alternatives' to the design guidance currently in use, and included in Approved Document M of the 2004 Building Regulations.

In order to help specifiers and service providers meet the new requirements, this Product Update gives you the facts regarding Briton Door Controls and how they are affected by these changes.

# It is now feasible for doors fitted with high performance mechanical door closers to meet the requirements set out in BS8300\*

The door closing device is one of the principal components that contributes to the door set either complying or not complying with the new requirements. A high performance mechanical door closer which meets the new criteria in its own right, is not in itself a guarantee that the fully installed door set will conform, as other factors, such as resistance from hinges, latches, door seals and air pressure, may render the doorset non-compliant.

In an ideal world all components would perform to a higher level than stated in the relevant European performance standards required for CE marking. Hinges would contribute a resistance of less than 1 Newton per hinge; latches would contribute less than 5N and door seals produce minimum resistance. Also in an ideal world, these components would be installed accurately, perform perfectly and be maintained regularly.

In an ideal world doors fitted with Briton high-performance specification door closers will meet the requirements of the revised BS8300\*\*.

### Non Fire Doors | Fire Doors



Indicates compliance when used on Non Fire doors.



Indicates compliance when used on Fire doors.

Chart below indicates full compliance for all door closers referred to in this document (1120B, 2003V, 2120B, 2130B, 2500 series, 996 series, 2130B.TE series, 553 & 503) when used on non-fire doors. For fire door application compliance please refer to individual listings.

**1120B**  
Adjustable 1 - 4  
(Set at size 3)

Compliance when used on fire doors.  
Door Width in mm

**2003V**  
Adjustable 1 - 4  
(Set at size 3)

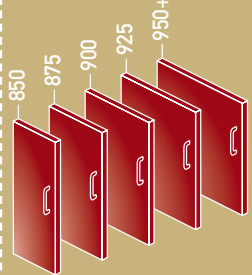
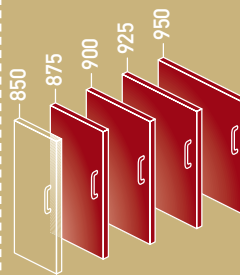
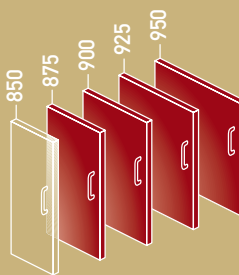
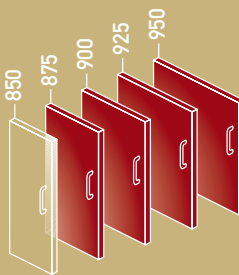
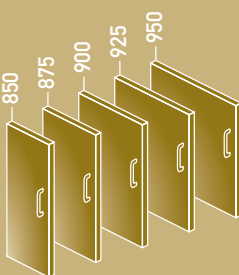
Compliance when used on fire doors.  
Door Width in mm

**2120B**  
Adjustable 1 - 4  
(Set at size 3)

Compliance when used on fire doors.  
Door Width in mm

**2130B**  
Adjustable 2 - 6  
(Set at size 3)

Compliance when used on fire doors.  
Door Width in mm



\* The amended BS8300, supported by a Technical Memorandum from the Office of the Deputy Prime Minister (ODPM), states that doors should have an opening force of less than 30 Newtons when closed and less than 22.5 Newtons at between 30 to 60 degrees.

\*\* Based on tests carried out by an independent test facility.



It is possible to meet the requirements of the revised BS8300 with mechanical door closers, but the only way to be 100% sure that the requirements are met is by the use of powered solutions such as low energy operators or electro-magnetic hold open and swing free devices.

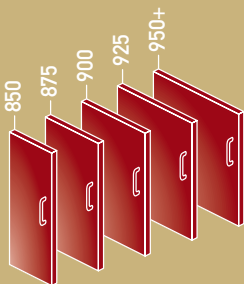
# However, in the real world, power operated door controls ensure 100% compliance

Don't risk non-compliance.  
Specify Briton powered door controls.

## 2500 series

'Quantum' - Low energy automatic operators.

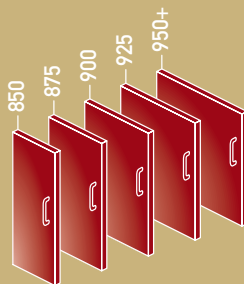
Compliance when used on fire doors.  
Door Width in mm



## 996 series

Electromagnetic hold open and swing free units.

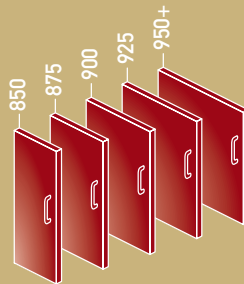
Compliance when used on fire doors.  
Door Width in mm



## 2130B.TE series

Electromagnetic hold open (track) units.

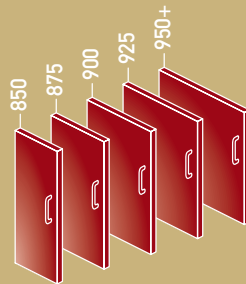
Compliance when used on fire doors.  
Door Width in mm



## 533 & 503

CE marked hold open wall and floor magnet range.

Compliance when used on fire doors.  
Door Width in mm



# What are the changes to BS 8300?

The term 'opening force' is used in place of 'closing force'. The maximum opening force must now be as follows.

0 - 30 degrees opening	30 Newtons
30 - 60 degrees opening	22.5 Newtons

A fire door requires a minimum closing force of 18 Nm (EN 1154).

The ODPM has published an FAQ (Frequently Asked Questions) document which details the design considerations which need to be made.

# Is it possible to meet the new requirements with mechanical product?

It is now a possibility (and only a possibility) to meet the new requirements by using low friction hinges and seals together with strength adjustable door closers that can demonstrate the necessary opening forces.

Note: BS8300 refers to compliance of the whole door set not the door closer alone.

An independent access audit details which doors are classed as 'accessible'. If an accessible door is subject to unusual circumstances (for example very high air pressures) which result in the door operating outside the forces recommended in BS 8300, it is possible for Ingersoll Rand Security Technologies to provide a statement detailing what efforts have been made to adhere to the recommendations from the original access audit.

**Briton**<sup>®</sup>



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For assistance with product selection, installation, troubleshooting, testing and certification

Calls to our customer contact centre may be recorded for training purposes. Whilst Ingersoll Rand Security Technologies have taken every care to ensure the accuracy of information, data or advice contained in this literature, no liability in respect of such information or advice, whether given negligently or not can be accepted by the company.

Ingersoll Rand Security Technologies retains the right to amend the technical specification of any range of equipment shown, without prior notice.