

### D Balances

#### Features

- UK manufactured at our dedicated facility in the Midlands
- Suitable for Timber and Aluminium windows
- Stainless Steel Spiral Rods
- Three weight carrying ranges
- 10 Year Guarantee
- Complete range of hardware and accessories to complement the D balance range
- Screwdriver special tension adjustment foot attachment (available by request)



#### Maintain the equilibrium

The combination of stainless steel spiral rod torsion and tension springs produces a self-contained balancing device capable of maintaining the equilibrium of a sash window at any point in the travel of the sash.

D Type balances are light duty, economical, general purpose balances for domestic or commercial applications.

Manufactured in 3 weight groups suitable for sashes having glazed weights of up to 18.1kgs (39.9lbs) and sash hatches up to 6.8 kgs (15lbs).

All 'D' type balances are adjustable within their weight range to suit actual glazed sash weights. A special adjustment tool is available. Where maximum assisted lift is required it is advisable to use 'F' type balances when sash weights exceed 17kgs (37.5lbs).

Outer tubes are supplied white as standard, brown, grey, black, cream and tan are available on request.

#### Hardware and Accessories

ERA also offer a range of hardware and accessories to complement the D balance range including Cam Locks, High Security Cam Locks, Sash Eyes, Guide Catches, Bow Handles, Sash Knobs and Tilt Restrictors.

PAS 24 and Secured by Design compliant hardware offers enhanced security option.

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#### Technical Specification

Tube Diameter	16mm
Groove Dimension	17mm

#### Part Numbers

<b>D2</b>	-	<b>14</b>	<b>White</b>
↑		↑	↑
Denotes type of balance (e.g. D2)		Tube length in inches (e.g. 15 inches)	Tube Colour (e.g. White)

D balances are supplied un-tensioned, please refer to the fitting instructions for details on adjustment turns. Please ensure all balances are fitted in accordance with the manufacturers installations instructions. For Tube Colour - W=White, B=Black, R=Brown, G=Grey, C=Cream, T=Tan

#### Sash Weight Range

Weight Group	Sash Weight Range
D2	2.2kgs (4.9lbs) - 4.5kgs (9.9lbs)
D4	4.5kgs (9.9lbs) - 14kgs (30.9lbs)
D6	14kgs (30.9lbs) - 18.1kgs (39.9lbs)

#### Applications

A pair of balances is required for each sash. The balance is housed in a groove in either the outer frame jamb, or alternatively in the sliding sash stile.

These grooves should be true and completely smooth. The top of the balance is screwed to the jamb and the sash attachment at the 'lower end' is screwed to the bottom rail of the sash. Where the upper sashes have horns, a channel type fitting is screwed to the side of the horn and subsequently the balance attachment is slotted into the channel.

All balances have semi flexible tubes which enable the balance to be slightly bowed during installation. This can be vital in a replacement situation.

#### Notes:

All standard Timber AS windows with/without horns have standard feet attachments, notification must be given when side fixing horn channels are required for both sides.

D - Balances

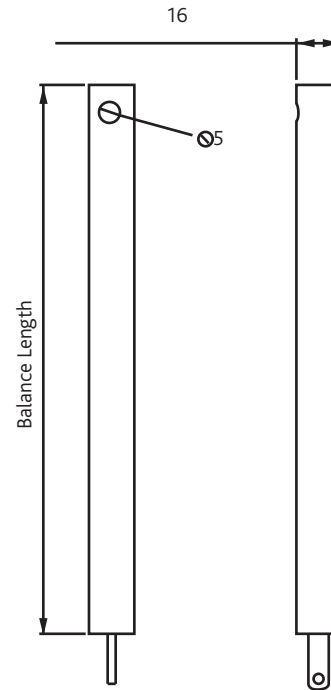


Diagram not to scale.

All dimensions are in mm and are nominal.

ERA reserves the right to change specification without notice. It is the responsibility of the window manufacturer to ensure that the finished product meets any required safety and performance specification.

#### Maintenance

Depending upon location, cleaning and lubrication of the spiral rod may be desirable after a length of time, the periods of which will vary according to site circumstances. A few drops of light oil applied to the spiral rod will always improve the operating action of a balance after long service.