D4 & D6 Sash Balance Installation



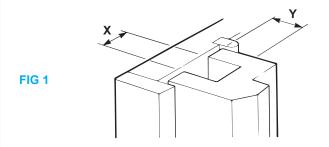


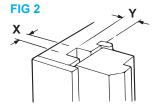
It is recommended that the sashes are glazed and painted to ensure both sashes slide freely in the frame.

Preparation of the window

1) Grooves to house balances can be in either frame jambs or in sash stiles, **rounded or square** and must be of minimum dimensions shown in (Figs 1 & 2).

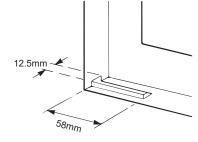
Bottom of sashes should be prepared to suit balance foot attachment. Cut-outs should be sufficient depth to receive attachments and screw heads.





Dimension	Dimensions (min)								
Х	Υ								
17mm	17mm								





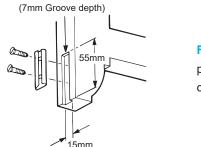
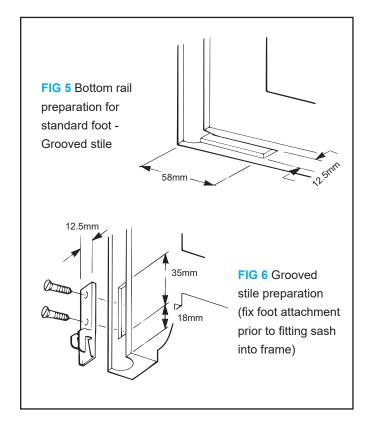


FIG 4 Stile preparation for channel fitting

BALANCES REQUIRE TENSIONING



Checking Balances

2) It is important that the balances used are suitable for the weight of the sash. The size of balance you have (D4 or D6) will be printed on the tube (Fig 7).

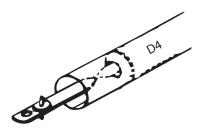


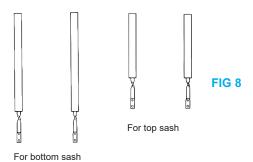
FIG 7

When balances are to be used with timber side and bottom fix brackets ensure black washers supplied are fitted either side as shown (A).

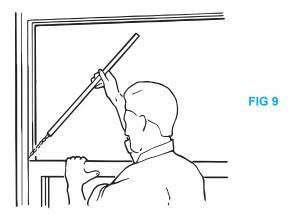
D4	Up to 13.6kg (29lbs)
D6	13.6kg (30lbs) - 18.1kg 39lbs)

Installing Balances

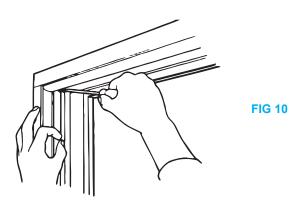
3) It is important to note that short balances are used for top sash and long balances for bottom sash, assuming sashes are of equal height.



When sashes are of equal size and in lowered position, the balances can easily be inserted into the grooves (Fig 9). In the case of unequal sized sashes, it is possible to slightly bow the balance for insertion into the groove of the larger sash. In some cases larger sashes may have been removed.



Fix top balances to the frame jamb at the centre of the groove and tighten up against the frame head, using drive screws supplied. (Fig 10).

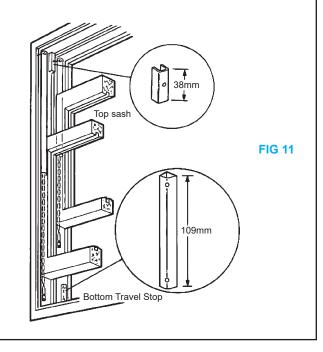


Fixing Travel Stops

4) Fix travel stops provided, the shorter one at the top of the bottom sash run. (Fig 11)
In the case of non-standard applications special stops may be required. In such cases suitable longer timber stops should be substituted for the standard metal type supplied. These should be long enough to prevent the balances from being extended by more than twice its tube length.

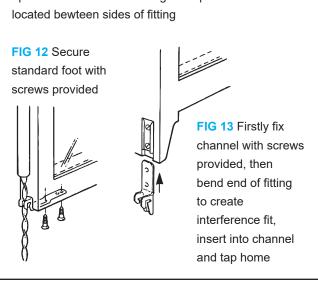
IMPORTANT: Failure to fit travel stops may result

IMPORTANT: Failure to fit travel stops may result in balance failure.



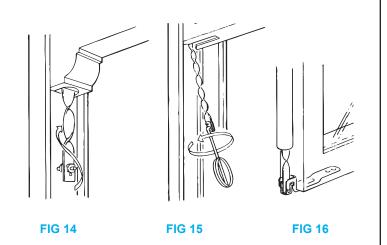
Fixing Foot Attachments

5) Raise the sashes as high as possible and prop up. Fix attachement ensuring that spiral rod is located bewteen sides of fitting



Balancing Sashes - Adjusting Balance

6) Thread the spiral rod upwards into the tube by revolving anti-clockwise, left hand turn as viewed from underside (Fig 14). Using the hook tool provided, pull the spiral rod downward about 200mm (8inches) without rotating. Now apply adjustment turns in anticlockwise direction (Fig 15). Repeat adjustment for other balance, remove prop and the try sash action. Correct balancing is achieved when sash is just held in its highest position. If necessary make adjustment turns in either direction on both balances obtain this condition. Do not over tension.



Adjustment charts

D4													
Sash weight													
Tube length	Kgs	4.5	5.4	6.4	7.3	8.2	9.1	9.9	10.9	11.8	12.7	13.6	
Inches	Lbs	10	12	14	16	18	20	22	24	26	28	30	
10		1	1	1	1	2	2	2	3	3	3	3	
12		1	1	1	1	2	2	2	3	3	4	4	
14		1	1	2	2	2	3	3	3	4	4	4	
16		1	1	2	2	3	3	4	4	4	5	5	
18		1	1	2	3	3	4	4	4	5	5	6	
20		1	1	2	3	3	4	4	4	5	5	6	
22		1	1	2	3	3	4	4	4	5	5	6	
24		1	1	2	3	3	4	4	4	5	5	6	
26		1	1	2	3	3	4	4	5	5	6	6	
28		1	2	2	3	3	4	4	5	5	6	7	
30		1	2	2	3	4	4	4	5	5	6	7	
32		1	2	2	3	4	4	4	5	5	6	7	
34		1	2	2	3	4	4	5	5	6	7	8	
36		1	2	3	3	4	4	5	6	7	7	8	
38		1	2	3	3	4	4	5	6	7	8	9	
40		2	2	3	3	4	5	5	6	7	8	9	
42		2	2	3	4	4	5	6	7	8	8	9	
44		2	2	3	4	4	5	6	7	8	9	9	
46		2	2	3	4	4	5	6	7	8	9	10	
48		2	2	3	4	4	5	6	7	8	9	10	

D6												
Sash weight												
Tube length Inches	Tube length Kgs		15.4	16.3	17.2	18.1						
	Lbs	32	34	36	38	40						
14		2	2	2	3	3						
16		2	2	3	3	4						
18		2	3	3	4	4						
20		2	3	3	4	4						
22		2	3	3	4	4						
24		3	3	3	4	5						
26		3	3	4	4	5						
28		3	3	4	4	5						
30		3	4	4	5	5						
32	32			4	5	5						
34		4	4	5	5	6						
36		4	4	5	5	6						
38		4	5	5	6	6						
40		4	4 5		6	6						
42	42		5 5		6	7						
44		5	5	6	6	7						
45	45			6	7	7						
46	46			6	7	8						
47		6	6	7	7	8						
48		6	6	7	8	8						

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