

# Window Balance System



# Window Balance System

## Spring Sash Balances

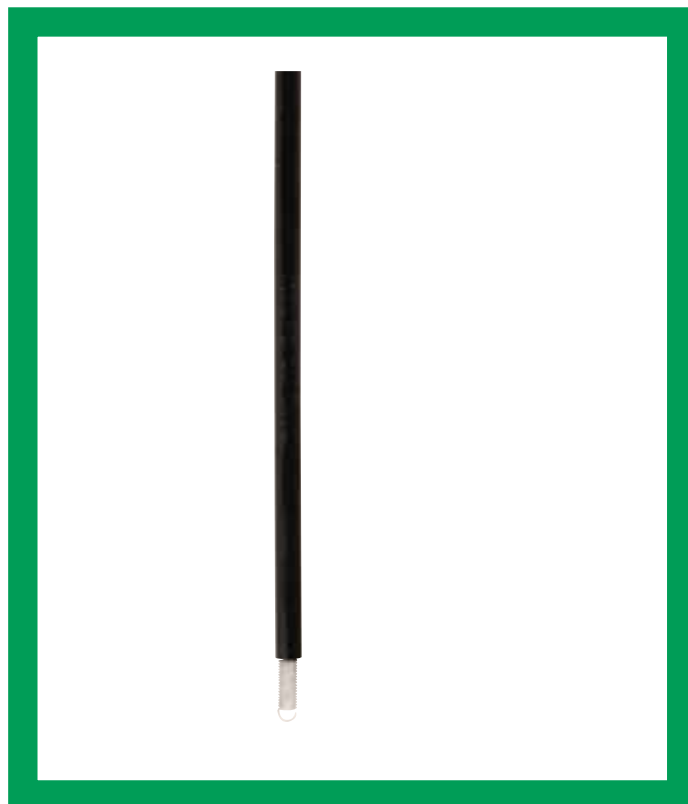
### Application / Description

Narrow, tension spring balance and friction foot system for aluminum double hung windows. Maximum sash weight of 22Kg.

### Features and Specifications

- Five weight ranges cater for sash weights of up to 22Kg
- Wide range of lengths suit sashes from 350mm to 1100mm high
- Oil tempered galvanised carbon steel tension spring
- High quality Tension foot with stainless steel bow spring and adjustable polymer friction pads.
- Tough ABS black polymer outer casing
- Wide range of lengths and weights available
- Range of adjustable tension feet to suit various sections
- Shock absorbing stops available
- Australian Made

Available in Trade Pack Only.



Aluminium



Double Hung

### Standard Packs, Finishes and Ratings

Range	End Cap Colour	Sash Weight Rating
51 Range	Green Cap	Up to 6.0 Kg
61 Range	Grey Cap	6.0 Kg to 9.25 Kg
71 Range	Brown Cap	9.25 Kg to 11.0 Kg
81 Range	Red Cap	11.0 Kg to 18.0 Kg
91 Range	Blue Cap	18.0 Kg to 22.0 Kg

Spring Sash Balances are supplied with black coloured tubes.

### Non Standard Finishes

Other finishes are not available

### Accessories

Standard foot – 2.5 mm pads	W635100
J foot assembly	W635500
Narrow foot assembly	W635200
W foot assembly	W635900
Whitco sash lifts	
Whitco Window Locks	

Front view



Side view



# Window Balance System

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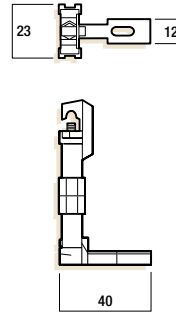
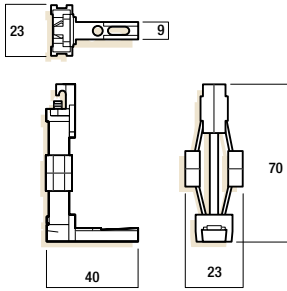
### Accessories

Standard foot assembly 2.5mm

**W635100**

W foot assembly

**W635900**



J foot assembly

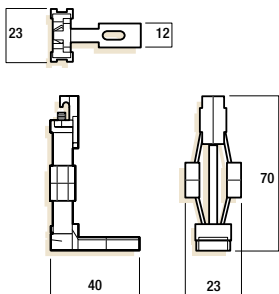
**W635500**

SBS 500mm accessory spring steel hook

**W492800**

SBS 325mm accessory spring steel hook

**W493100**



# Window Balance System

## Spring Sash Balances

### Ordering

Size Chart							
Min Sash Height	Max Sash Height	Tube Length	Green End Cap Up to 6.0 Kg	Grey End Cap 6.0 Kg to 9.25 Kg	Brown End Cap 9.25 Kg to 11.0 Kg	Red End Cap 11.0 Kg to 18.0 Kg	Blue End Cap 18.0 Kg to 22.0 Kg
350	400	245	W630251				
400	450	295	W630451	W630461			
450	500	345	W630651	W630661			
500	550	395	W630851	W630861		W630881	
550	600	445	W631051	W631061		W631081	
600	650	495	W631251	W631261	W631271	W631281	
650	700	545	W631451	W631461	W631471	W631481	W631491
700	750	595	W631651	W631661	W631671	W631681	W631691
750	800	645	W631851	W631861	W631871	W631881	W631891
800	850	695	W632051	W632061	W632071	W632081	W632091
850	900	745	W632251	W632261	W632271	W632281	W632291
900	950	795	W632451	W632461	W632471	W632481	W632491
950	1000	845	W632651	W632661	W632671	W632681	W632691
1000	1050	895		W632861	W632871	W632881	W632891
1050	1100	945		W633061	W633071	W633081	W633091
1100	1150	995		W633261	W633271	W633281	W633291

# Window Balance System

## Spiral Sash Balances

### Application / Description

Narrow, fully sealed variable pitch spiral and torsion spring balance and foot system for timber or aluminum double hung windows.

### Features and Specifications

- Fully sealed construction
- Oil tempered carbon steel torsion spring
- Zinc plated variable pitch spiral
- Metal zinc diecast fixing plug
- Tough ABS polymer outer casing available in Black
- Corrosion resistant stainless steel sash foot plate
- Comprehensive range of tube lengths and balance weight
- Adjustable spring tension to suit application
- Shock absorbing stops available
- Range of feet available
- Individual balances in Trade packs available
- Tension key required for adjustable foot version
- Australian Made



Aluminium  Timber



Double Hung

### Standard Packs / Finishes

Foot options - available with either:

- **Standard foot**  
Attached to spiral rod, includes accessory kit.
- **Ready to accept adjustable foot**  
Foot sold separately and accessory pack sold separately.

### Finishes

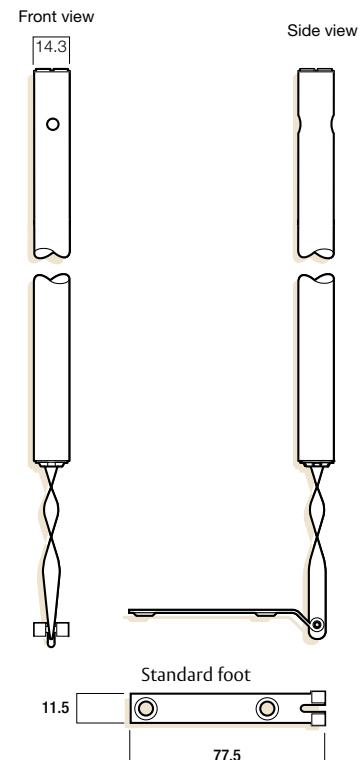
Available in Black tube colour.

### Non Standard Finishes

Other finishes are not available.

### Keying

It is recommended that spiral balances are supported in a 15mm x 15mm rebate.



# Window Balance System

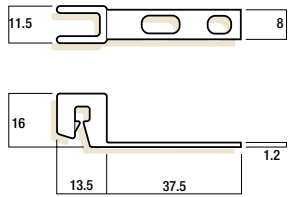
## Spiral Sash Balances

### Performance

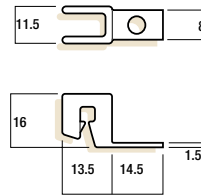
Weight Recommended sash weights	
Weight Range	Rating
Weight range 1	2.25 to 7.25 Kg
Weight range 2	7.25 to 10 Kg
Weight range 3	10 to 14 Kg

### Accessories

Standard adjustable foot for Weight Range 1-3 (2.25 to 14 kg):  
**W615100**



TFD foot:



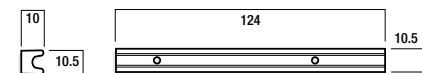
**W615200**

Spiral long stop – polymer

**W493000**

Spiral short stop – polymer. Order as part of kit

**W492900**

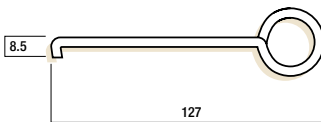


Tension key spring wire

**W492700**

Spiral accessory kit: includes top and bottom stop and fixing screws  
Black

**W492900**



# Window Balance System

## Spiral Sash Balances

### Spiral Balance Selection Guide

#### Step A - Whitco Product Model

Whitco Spiral Balance product model is W61

#### Step B - Select Balance Number

If replacing an existing balance, measure the body length and match to Body Length 'L' Dimension.

#### Step B1 - Top Sash Balances

1. Measure the overall height of the top sash (including horns, if used). This is the Closed 'C' Dimension.
2. Refer to appropriate Closed 'C' dimensions on size chart and select the Balance Number matching the Closed 'C' Dimension.
3. If there is not an exact match to Closed 'C' Dimension go to the next smaller Balance Number  
e.g. – For Closed 'C' dimension of 341mm select balance number 110.

#### Step B2 - Bottom Sash Balances

1. Measure the overall window opening height from sill to head. This is the Extended Dimension 'E'
2. Refer to appropriate Extended Dimensions 'E' on size chart and select the Balance Number matching the Extended 'E' Dimension.
3. If there is not an exact match to Extended 'E' Dimension go to the next larger Balance Number size.  
e.g. – For Extended 'E' dimension of 546mm select balance number 110.

#### Step C - Select Weight Range

The next step is to establish the weight of each sash. It is best to weight the sash to ensure an accurate sash weight. If an estimated sash weight is required, this can be calculated using the glass weight per square meter of glass shown below, together with the sash area. For double glazed glass, double the glass thickness used for the calculation. An allowance may also need to be made for the weight of the sash frame material.

3 mm glass thickness weights – 7.5 Kg Per square metre

4 mm glass thickness weights – 10.0 Kg Per square metre

5 mm glass thickness weights – 12.5 Kg Per square metre

6 mm glass thickness weights – 15.0 Kg Per square metre

Double glazed 6mm+6mm glass thickness weights – 30.0 Kg Per square metre

Select the correct weight range to match the sash weight, by using the weight ranges shown below.

e.g. – For a sash weight of 5.25kg select weight range 1

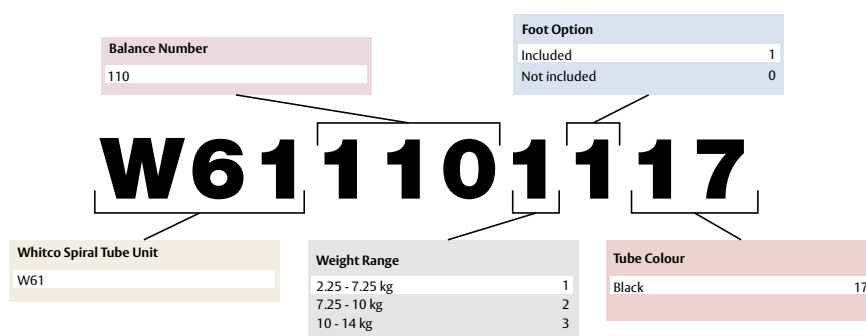
#### Step D - Select Foot Option

Foot options: Standard foot attached 1 or no foot (to accept adjustable foot) 0

e.g. – For Standard foot attached select foot option 1.

#### Step E - Tube Colour

Tube finish is Black only – 17



# Window Balance System

## Spiral Sash Balances

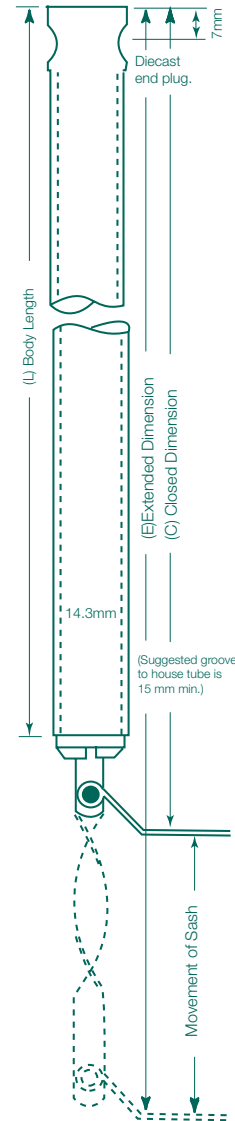
### Size Chart

This size chart and the spiral balance selection guide on the previous page have been colour coordinated for added convenience.

Balance Number	Step B1	Step B2	'L' Body Length	Step C		
	'C' Closed Dimension (For top balance use exact balance or go smaller)	'E' Extended Dimension (For bottom balance use exact balance or go larger)		Weight Range 1 2.25-7.25 Kg	Weight Range 2 7.25-10 Kg	Weight Range 3 10-14 Kg
110	318	559	292	3		
200	343	610	318	3		
220	368	660	343	3		
240	394	711	368	3		
260	419	762	394	3		
280	445	813	419	3		
210	470	864	445	3		
300	495	914	470	3		
320	521	965	495	4		
340	546	1,016	521	4		
360	572	1,067	546	4		
380	597	1,118	572	4		
310	622	1,168	597	4		
400	648	1,219	622	4	5	6
420	673	1,270	648	4	5	6
440	699	1,321	673	4	5	6
460	724	1,372	699	5	5	6
480	749	1,422	724	5	5	6
410	775	1,473	749	5	5	6
500	800	1,524	775	5	5	6
520	826	1,575	800		5	6
540	851	1,626	826		6	6
560	876	1,676	851		6	7
580	902	1,727	876		6	7
510	927	1,778	902		6	7
600	953	1,829	927		6	7
620	978	1,880	953		6	7
640	1,003	1,930	978		7	7
660	1,029	1,981	1,003		7	8
680	1,054	2,031	1,029		7	8
610	1,080	2,083	1,054		7	8
700	1,105	2,134	1,080		7	8
720	1,130	2,183	1,105		7	8

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**Pre-tension turns number**  
Numbers shown in the main table are the initial number of pre-tension turns to use during installation for that balance





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