Product Guarantee

Here at Granada we aim to supply a product that – with regular maintenance – will give many years of trouble-free operation.

We have invested heavily into our machinery, premises and people, to ensure that the quality of the finished product is consistently delivered to the best of our ability.

Through these commitments to quality, we are confident in surpassing other window manufacturers with the comprehensive warranty that we offer on our products and installation.

The warranty period begins from the date of supply, and guarantees that the goods supplied will be free from inherent defects for a period of:

Five years for Aluminium frames and glazing
Two years for moving parts (including, but not limited to springs, locks, handles, rollers, hinges etc.)
Granada Product Range

**Product Index** ~ Based on 4mm Glass

**Key:**
- 1 = Traditional range
- 2 = Heritage range

**Glass Range:**
- 1 = 4mm to 6.8mm
- 2 = 4mm to 8.8mm

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### Horizontal Sliding

**SS2 or HSS2**
- 2 panel
- Max width or max height
- 1 = 2,400mm or 3,200mm
- 2 = 1,800mm or 2,700mm

**CO3 or HCO3**
- 3 panel
- Max width or max height
- 1 = 3,600mm or 4,900mm
- 2 = 1,800mm or 2,700mm

**SS3 or HSS3**
- 3 panel (fixed centre panel)
- Max width or max height
- 1 = 3,600mm or 4,900mm
- 2 = 1,800mm or 2,700mm

**SS4 or HSS4**
- 4 panel
- Max width or max height
- 1 = 4,900mm or 4,900mm
- 2 = 1,800mm or 2,700mm

**SS5 or HSS5**
- 5 panel
- Max width or max height
- 1 = 4,900mm or 4,900mm
- 2 = 1,800mm or 2,700mm

### Vertical Sliding

**BVS or HBVS**
- Balanced vertical slider
- Max width or max height
- 1 = 1,500mm or 1,500mm
- 2 = 3,000mm or 3,000mm

**TBVS or HTBVS**
- Tilt-in balanced vertical slider
- Max width or max height
- 1 = 1,500mm or 1,500mm
- 2 = 3,000mm or 3,000mm

### Lift Out

**LO or HLO**
- Lift out unit
- Max width or max height
- 1 = 2,000mm or 2,000mm
- 2 = On Application

**SLLO**
- Slimline Lift out unit
- Max width or max height
- 1 = 2,000mm or 2,000mm

### Insert Panel

**INS**
- Max width or max height
- 1 = 1,200mm or 2,000mm

### Hinged Casement

**HU**
- Traditional hinged casement
- Max width or max height
- 1 = 950mm or 2,100mm

**HHU or HHU-TT**
- Heritage hinged casement
- Max width or max height
- 1 = 1,400mm or 2,400mm

**DHHU**
- Double heritage hinged casement
- Max width or max height
- 1 = 2,800mm or 2,800mm

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Optional extras:
- Curved head window
- Gothic head window
- Trickle vent
- Acoustic trickle vent
- Acoustic tile board
- Shaped corners
- Flyscreen

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All windows are supplied fully assembled and ready to install. Units comprise of an aluminium outer frame joined to a seasoned hardwood timber surround.

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www.granadaglazing.com
Traditional Product Range

Hinged Unit (HU)

Our most discreet secondary glazing product, with 72mm sight lines and no transoms or mullions. The unit features single handle operation and multi-point locking. Side and base opening is also available.

Features

- Slim, unobtrusive aluminium profile
- Easy opening due to internal gearing
- Multi-point locking for enhanced security
- Improved noise and thermal installation
- Suitable for shaped applications
- Suitable to have bevelled timber subframe to fix into bays /splayed reveals
- Can be coupled or stacked with other traditional units in the range to treat large areas of glazing or long runs of windows
- Can be supplied with restrictors

Variations of Basic Unit

- Various handle options (locking Espag as standard)
- Egress as standard
- Standard and acoustic trickle vents are available
- No subframe version available
- Can be coupled and stacked using a heavy duty frame coupling section or timber to timber
- LH, RH, top or bottom orientation
- Variety of stock colours available, including all RAL options
- Can accept flyscreen mesh

Specification

- Glazing options: 4mm - 6.8mm
- Choice of timber subframes
- Pre-drilled and countersunk to suit either face fix or reveal fix
- Q-Lon seal to front, Woolpile seal to back
- Gasket colour option of black or white
- PVCu trims supplied for the face of the units to create a neat, clean finish
- Standard colour white high gloss - RAL 9910

Optimum Noise Reduction: TBC

Using 6.4mm acoustic laminate glazing, with 200mm glass-to-glass

Optimum U Value: 1.868 W/m2K

Using 4mm toughened Low E glazing, with 80mm glass-to-glass

Traditional Configurations

HU

Based on 4mm Glass

Max width: 950mm
or Max height: 2,100mm

www.granadaglazing.com
Heritage Product Range

Hinged Unit (HHU)

Our most discreet secondary glazing product, featuring single handle operation and multi-point locking. Side and base opening is available, plus there's a tilt and turn facility for easy maintenance.

Features

• Slim, unobtrusive aluminium profile
• Easy opening due to internal gearing
• Multi-point locking for enhanced security
• Improved noise and thermal installation
• Suitable for arched and shaped applications
• Suitable to have bevelled timber subframe to fix into bays / splayed reveals
• Can be coupled or stacked with other units in the range to treat large areas of glazing or long runs of windows
• Can be supplied with restrictors

Specification

• Glazing options: 4mm - 8.8mm or double glazed
• Choice of timber subframes
• Pre-drilled and countersunk to suit either face fix or reveal fix
• Woolpile inserted in to panel section groove to create outer frame seal
• Gasket colour option of black or white
• PVCu trims supplied for the face of the units to create a neat, clean finish
• Standard colour white high gloss - RAL 9010
• Lift out section has one rib running along the section

Variations of Basic Unit

• Various handle and hinge options
• Tilt & Turn, Anti Ligature and Double Hinged (DHHU) options
• Standard and acoustic trickle vents are available
• No subframe version available
• Can be coupled and stacked using a heavy duty frame coupling section or timber to timber
• Variety of stock colours available, including all RAL options
• LH, RH, top or bottom orientation
• Can accept flyscreen mesh
• Can accept flyscreen mesh

Optimum Noise Reduction: 54dB (Rw)
Using 6.4mm acoustic laminate glazing, with 200mm glass-to-glass

Optimum U Value: 0.97 W/m2K
Using 28mm double glazed sealed unit, with 80mm glass-to-glass

www.granadaglazing.com
Minimum & Maximum Size Guide

On Application
Windows in this area are beyond our maximum size limit. However, we may be able to make the windows but we will not offer any guarantee of performance and will accept your order solely on this basis. Alternatively, please redesign the window to comply with the recommended sizes to benefit from the full product warranty.

1. Maximum Glass Size 2050 x 3250
2. Maximum Window size for delivery: 1800mm x 4000mm - Over sized windows will be packaged as kit form
3. MAXIMUM AREA FOR 4mm Annealed / Float GLASS IS 1.6m² - Allow for 4mm TOUGHENED GLASS IF PANEL SIZE EXCEEDS THIS
4. MAXIMUM AREA FOR 4mm Toughened GLASS IS 2.5m²
5. MAXIMUM AREA FOR 6mm Annealed / Float GLASS IS 3.0m² - Allow for 6mm TOUGHENED GLASS IF PANEL SIZE EXCEEDS THIS
6. Flyscreen Maximum size 1200mm in one direction (comes on a roll 1200 wide!)
7. HORIZONTAL SLIDERS OVER 1800mm HIGH WILL HAVE 21243 MEDIUM STRENGTHENING INTERLOCK ADDED AT NO EXTRA COST
8. HORIZONTAL SLIDERS OVER 2000mm HIGH WILL BE HERITAGE
10. Stacked units Standard or Heritage Reveal Fix - If the bottom unit is a Horizontal Slider Support Bars must be used which means deeper timbers. Standard 62mm becomes 70mm. Heritage 70mm becomes 80mm.
11. + / - frame tolerance = 3mm
12. To estimate the weight of a panel or window use the glass weight for the overall panel or window size.

Multiply width x height x glass weight
4mm glass = 10kg/m²
6mm glass = 15kg/m²
6.4mm glass = 16kg/m²
8mm glass = 20kg/m²
8.4mm glass = 21kg/m²
For double glazed units add the two panes together
13. Points to note for any Large Frame
   • Can you get it in the building, up the stairs etc.?
   • Can it be operated safely i.e. is there room to open a large Hinged Unit?
   • Should it be fixed and only operable by maintenance?
14. Insert on plastic hinges must not exceed 10kg
15. Minimum Width for Arched Head windows
   Insert 400mm (200mm radius)
   Lift Out 400mm (200mm radius)
   BVS 500mm (250mm radius)
   TBVS 500mm (250mm radius)
   HTBVS 800mm (400mm radius)
   HHU 800mm (400mm radius)
17. Vertical Sliders Panel - Maximum Aspect Ratio Width to Height 5:1
18. Heritage Hinged Casement Panel - Maximum Aspect Ratio Width to Height 1.5:1

Minimum & Maximum Size Guide

<table>
<thead>
<tr>
<th>Secondary Glazing</th>
<th>Max Panel Weight KG'S</th>
<th>Minimum overall size (equal split) (mm)</th>
<th>Minimum panel size (mm)</th>
<th>Maximum size (mm) 4mm Glass</th>
<th>Maximum size (mm) 6mm Glass or 6.4mm Laminate</th>
<th>Maximum size (mm) 6mm Glass or 6.4mm Laminate</th>
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Important Note! Maximum sizes are for width OR height, not combined i.e. Do not exceed the maximum panel weight.

A LOW-RISK LIFT for a person of average strength and build is considered to be a maximum of 25kg. If you are in any doubt, look to reduce the risk by asking someone to share the lift with you or your client, particularly if you or the client are in a higher risk group e.g. Elderly, Disabled, Pregnant or Young. Refer to http://www.hse.gov.uk/msd/mad/index.htm for further help.

www.granadaglazing.com
Granada Secondary Glazed windows have been tested at Chiltern Dynamics in accordance with BS EN ISO 10140-2: ‘Laboratory measurement of airborne sound insulation of building elements’. The table shows results for secondary windows set at a 200mm and 150mm cavity with 4mm or 6mm float glass in the primary window. Chiltern’s Dynamics lab is UKAS Accredited No.1762

* Sound reduction figures predicted by Chiltern Dynamics using the basis of actual laboratory test results. Sound Reduction (Rw) measured in dB.

<table>
<thead>
<tr>
<th>Secondary Glazing</th>
<th>SS2</th>
<th>HHU</th>
<th>BVS</th>
<th>HTBVS</th>
<th>SS2</th>
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<td>10.8mm Acoustic Laminate</td>
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Key:
- SS2
- BVS
- THVS
- HHU

Granada Glazing
**Standard Product Specification:**

Aluminium 6063T6 alloy to BS EN 755 standard, powder coated to BS 6496 to 60 micron finish.

Stock finish: White - Interpon SA 098E high gloss. The sub-frame is manufactured from primed high quality, environmentally certified (MTCS) engineered timber. Standard sizes: Face Fix: 45mm x 21mm & Reveal Fix: 62mm x 21mm.

All frames are factory glazed.
Standard gasket colour is black.
All frames include pvc-u trim as standard - Painted MDF or PEFC timber available upon request.

In line with our company policy of continuous product development and improvement, Granada reserves the right to make minor alterations to specification without notice.

**Optional Extras**

- Glazing: 4 to 6.8
- Minimum size 347w x 385h
- Maximum size 950w x 2100h
- Locking Handle
- Espagnolette Gearing
- Friction Hinges - Egress (size permitting)
- Foam seals front and back
- Hinge Fixing: Left, Top & Bottom
- Timber sizes other than standard available on request

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**Type:** Hinged Unit Face Fix (Right Hung)

**Reference:** HU

**Rev.** 1
Standard Product Specification:

Aluminium 6063T6 alloy to BS EN 755 standard, powder coated to BS 6496 to 60 micron finish.

Stock finish: White - Interpon SA 098E high gloss. The sub-frame is manufactured from primed high quality, environmentally certified (MTCS) engineered timber. Standard sizes: Reveal Fix: 62mm x 30mm & Face Fix: 45mm x 30mm**.

All frames are factory glazed.
Standard gasket colour is black.
All frames include pvc-u trim as standard - Painted MDF or PEFC timber available upon request.

In line with our company policy of continuous product development and improvement, Granada reserves the right to make minor alterations to specification without notice. * Where bottom hung a restrictor is required.

*When coupling or stacking other heritage units timber size required: Reveal Fix: 70mm x 30mm & Face Fix: 62mm x 30mm.

Type: Heritage Hinged Unit Reveal Fix (Left Hung)

Reference: HHU  Rev. 1

Optional Extras

• Heritage locking handle
• Spag Locking handle
• Actuator handle
• Concealed hinges
• Restrictor catch
• Tilt & turn gearing
• Full anti-ligature spec
• Trickle vent / acoustic trickle vents (in sash)
• RAL colours
• Double glazed
• Right, top or bottom* hung
• Timber sizes other than standard available on request
Standard Product Specification:
Aluminium 6063T6 alloy to BS EN 755 standard, powder coated to BS 6496 to 60 micron finish.

Stock finish: White - Interpon SA 098E high gloss. The sub-frame is manufactured from primed high quality, environmentally certified (MTCS) engineered timber. Standard sizes: Reveal Fix: 62mm x 30mm & Face Fix: 45mm x 30mm.

All frames are factory glazed.
Standard gasket colour is black.
All frames include pvc-u trim as standard - Painted MDF or PEFC timber available upon request.

In line with our company policy of continuous product development and improvement, Granada reserves the right to make minor alterations to specification without notice. * *When coupling or stacking other heritage units timber size required: Reveal Fix: 70mm x 30mm & Face Fix: 62mm x 30mm.

Optional Extras
- Heritage locking handle
- Spag Locking handle
- Actuator handle
- Concealed hinges
- Full anti-ligature spec
- Trickle vent / acoustic trickle vents (in sash)
- Double glazed
- RAL colours
- Timber sizes other than standard available on request