

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A		27/10/2025	
B	ADDITIONAL DATA ADDED FROM INTERNAL CALCULATIONS	17/04/2026	ND

U Values W/(m²K) for Granada Secondary Glazing

Primary Window. 4mm Float. 60mm. Hardwood Frame. 50mm Air Gap								
Secondary Glazing	4mm Toughened	6mm Toughened	6.4mm Laminate	6.8mm Laminate	4mm K Glass	6mm K Glass	4-16-4 Pilkington Energy Care	6.8mm Lam-16-6mm Planitherm One
BVS	1.64*	1.64*	1.64*	1.64*	1.49*	1.5	-	-
HS	1.64*	1.63*	1.64*	1.63*	1.5	1.5	-	-
HU-HD	1.62*	1.61*	1.62*	1.61*	1.46*	1.5	1.1	1.1
HU-HD-DH	1.64*	1.63*	1.64*	1.63*	1.51*	1.5	1.21*	1.23*
HU-SL	1.62*	1.61*	1.62*	1.61*	1.45*	1.4	-	-
HU-SL-DH	1.62*	1.62*	1.62*	1.62*	1.47*	1.4	-	-
LO	-	-	-	-	-	-	-	-
TBVS	1.64*	1.64*	1.64*	1.64*	1.5*	1.5	-	-

U Values W/(m²K) for Granada Secondary Glazing

Primary Window. 3mm Float. Steel Crittall Frame. 50mm Air Gap								
Secondary Glazing	4mm Toughened	6mm Toughened	6.4mm Laminate	6.8mm Laminate	4mm K Glass	6mm K Glass	4-16-4 Pilkington Energy Care	6.8mm Lam-16-6mm Planitherm One
BVS	1.78*	1.77*	1.78*	1.77*	1.6*	1.59*	-	-
HS	1.77*	1.76*	1.77*	1.76*	1.59*	1.58*	-	-
HU-HD	1.75*	1.74*	1.75*	1.74*	1.57*	1.56*	1.14*	1.1
HU-HD-DH	1.77*	1.76*	1.77*	1.76*	1.62*	1.61*	1.29*	1.3*
HU-SL	1.75*	1.74*	1.75*	1.74*	1.55*	1.54*	-	-
HU-SL-DH	1.76*	1.75*	1.76*	1.75*	1.57*	1.56*	-	-
LO	-	-	-	-	-	-	-	-
TBVS	1.78*	1.77*	1.78*	1.77*	1.61*	1.6*	-	-

All values not marked * are taken from calculations performed by Windata Ltd. in accordance with BS EN ISO 10077-1:2017 and BS EN ISO 10077/2:2017.

All data marked * are indicative values calculated internally by Granada Glazing Ltd. These values have not been externally verified and do not have reports available so should be used for information only.

Timber window calculations use a primary window U value of 4.7W/(m²K) as per BS EN ISO 10077-1 Annex F and Annex H
Steel window calculations use a primary window U value of 6.0W/(m²K) as per BS EN ISO 10077-1 Annex H

HU-HD data covers the following variants
HU-HD (Side Hung Casement)
HU-HD-F (Fixed Panel)
HU-HD-TH (Top Hung)
HU-HD-TT (Tilt & Turn)
HU-HD-PAS24
HU-HD-SR1

Drg. Title:

Secondary Glazing System Thermal Data

Drg. No. GSG-DS003

Scale: (at A3)

Date: 27/10/2025

Drawn by: Neal Desorgher

Checked :

Material :

Finish :

IF IN DOUBT ASK
DO NOT SCALE

ALL DIMENSIONS ARE IN mm

GENERAL TOLERANCES UNLESS OTHERWISE STATED
±0.25 ON ALL MACHINED DIMENSIONS
±0.10 ON ALL CAST AND INJECTION MOULDED DIMENSIONS
+0.10 -0.0 ON ALL HOLE SIZES
±1° ON ALL ANGULAR DIMENSIONS

ALL EXTRUSIONS TO EN 755-9 UNLESS OTHERWISE STATED

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