

Appendix B – Summary of glazing units measured and comparison of U-values [W/(m²·K)]

Address	Glazing system	Glazing details				Window details	U-values provided by manufacturer	Measured U-value with uncertainties		Change in U-value* ⁶	
		Glazing configuration* ¹	Inner pane* ²	Cavity fill * ³	Outer pane* ⁴			Sashes * ⁵	Winter 2009/10	Winter 2010/11	U-value
1/1 Archibald Pl.	Sashworks	4 - 8 - 4	Low-E	Ar		New	1.8	2.0 ±0.2	2.1 ±0.2	+0.1	+5%
1/2 Archibald Pl.	Histoglass D11	3 - 4 - 4	Low-E	Kr		New	1.9	2.7 ±0.2	2.7 ±0.2	±0.0	±0%
1/3 Archibald Pl.	Histoglass D10	3 - 4 - 5	Low-E	Kr	Crown effect	Existing	1.9	2.3 ±0.2	2.5 ±0.2	+0.3	+12%
1/4 Archibald Pl.	Spacia	4 - 0.2 - 3	Low-E	vacuum		Existing	1.3	1.0 ±0.1	0.9 ±0.1	-0.1	-6% †
1/5 Archibald Pl.	Slimlite	3 - 3 - 3	Low-E	air		Existing	2.6	2.8 ±0.2	2.9 ±0.2	+0.1	4%
1/6 Archibald Pl.	Slimlite	3 - 3 - 4	Low-E	Xe & Kr	Crown effect	Existing	2.1	2.3 ±0.1	2.6 ±0.3	+0.3	15%
1/7 Archibald Pl.	Slenderglaze	4 - 3.9 - 4	Low-E	Xe & Kr		Existing	2.1	1.7 ±0.1	2.0 ±0.1	+0.3	19%
1/8 Archibald Pl.	Slimlite	3 - 3 - 3	Low-E	Xe & Kr		Existing	2.1	2.3 ±0.2	2.5 ±0.2	+0.2	9%
37 Lauriston Pl.	Slimlite	4 - 4.8 - 3	Low-E	Xe & Kr		New	2.5	2.3 ±0.2	Not re-measured		
5 Charlotte Sq.	Slimlite	3 - 3 - 3	Low-E	Xe & Kr		New	2.1	2.3 ±0.2	Not re-measured		
Notes	<p>*¹ Glazing configuration: inner pane – cavity – outer pane [mm] *² Inner pane: all inner glass panes have a low-emissivity coating / film. *³ Cavity fills: colour coding: air inert gas vacuum *⁴ Outer pane: Crown-effect glass was used as outer glass pane. *⁵ Sashes: glazing units installed into existing or new windows sashes</p>					<p>*⁶ Figures showing the <i>Change in U-value</i> between 2009/10 and 2011/12 do not take account of the uncertainty margins. Colour coding: red colour shows an increase in U-value, i.e. a deterioration of the thermal performance; green colour shows a decrease in U-value, i.e. an improvement of the thermal performance. † In flat 1/4, the re-measurement was carried out in a location different from that in January 2012.</p>					