

SUMMARY OF KEYLITE WINDOW GUARD (KWG) TESTING TO BS 6180:2011 BARRIERS IN AND ABOUT BUILDINGS – CODE OF PRACTICE

Certificate No. 2024/1

Test Reference: UK24249

Issue Date: 25/01/2024

Product

Keylite Window Guard (KWG)

Client

Keylite Roof Windows Limited
Unit 2 Ballyreagh Business Park
Cookstown
County Tyrone
B80 9DG

Test Results

Load and Deflection Results for Line Load Testing of Keylite Window Guard

Substrate Type	Test Span (mm)	Line Load (kN/m)	Required Load (kN)	Load Withstood	Deflection at Required Load (mm)
Plasterboard onto Timber Frame	1850	0.74	1.37	Y	22.45
Plasterboard onto Aggregate				Y	15.47
Plasterboard onto AAC				Y	15.03
Plasterboard onto Clay Brick				Y	21.05

Load and Deflection Results for Point Load Testing of Keylite Window Guard

Substrate Type	Test Span (mm)	Point Load (kN)	Load Withstood	Deflection at Required Load (mm)
Plasterboard onto Timber Frame	1850	0.5	Y	13.82
Plasterboard onto Aggregate			Y	15.71
Plasterboard onto AAC			Y	15.20
Plasterboard onto Clay Brick			Y	19.08

Guidance

BS 6180: 2011 Section 6.4.1 calls for a maximum horizontal displacement of 25 mm when the loads in Table 2 for domestic and residential purposes are applied. As can be seen from the results above the sample tested meets this requirement. The Keylite Window Guard is therefore deemed to have passed the relevant requirements of BS 6180: 2011. Full product description, test method and results can be found In Lucideon report UK234464/Ref. 2.

Authorised by:



Chris Hallam
Technical Project Manager
Construction Team