WINTECH

Test Report/Certificate No: **R1421/06/1119**

Date of Testing: **30th November 2006**

UKAS TESTING

2223

Glass Designs Ltd, Units 3-4 City Cross, Salutation Road, Greenwich, London, SE10 0AT

Clear (4mm Toughened Glass), has Passed the test requirements of BSEN 12600 'Glass in Building – Pendulum Test – Impact Test Method and Classification for Flat Glass, and is therefore classified as 1C3'.

SAMPLE REFERENCE No.	IMPACTED FACE OF SAMPLE	ALLOWABLE BREAKAGE MODE	PERFORMANCE CLASSIFICATION	DIMENSIONS OF TEST PIECES	RESULT
1	Glass	C	----	876 x 1938	Pass (did not break)
2	Glass	C	----	876 x 1938	Pass (did not break)
3	Glass	C	----	876 x 1938	Pass (did not break)
4	Glass	C	3	876 x 1938	Pass (did not break)
1	Glass	C	----	876 x 1938	Pass (did not break)
2	Glass	C	----	876 x 1938	Pass (broke in accordance with Clause 4)
3	Glass	C	----	876 x 1938	Pass (did not break)
4	Glass	C	2	876 x 1938	Pass (did not break)
1	Glass	C	----	876 x 1938	Pass (broke in accordance with Clause 4)
3	Glass	C	----	876 x 1938	Pass (broke in accordance with Clause 4)
4	Glass	C	----	876 x 1938	Pass (broke in accordance with Clause 4)
5	Glass	C	1	876 x 1938	Pass (broke in accordance with Clause 4)

These results are valid only for the conditions under which the tests were conducted.

Product Definition: Symmetrical Product.

All Test Pieces were clamped in the test frame, as required by the test standard.

When tested by the method given in clause 4 in BSEN 12600 each test piece shall either not break or break as defined in the following way:
Disintegration occurs and the 10 largest crack-free particles are collected within 3 minutes after impact and weighed, all together, within 5 minutes of impact and shall weigh no more than the mass equivalent to 6,500 mm² of the original test piece. The particles shall be selected only from the original test piece exposed in the test frame. Only the exposed area of any particle retained in the test frame shall be taken into account in determining the mass equivalent.

Tested By: M Cox and D Cox of Wintech Engineering Ltd.

Testing Witnessed By:

Report Compiled By: T A Speak Signed: TASpeak

Technically Approved By: M Wass, Deputy Quality Manager Signed:

Date of Issue: 5th December 2006

This report and the results shown are based upon information, samples supplied and tests referred to above. The results obtained do not necessarily relate to samples from the production line of the above named company and in no way constitute any form of representation or warranty as to the performance or quality of any products supplied or to be supplied by them. Wintech Engineering Ltd or its employees accept no liability for any damages, charges, cost or expenses in respect of or in relation to any damage to any property or other loss whatsoever arising either directly or indirectly from the use of this report.

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