

WINTECH

Test Report/Certificate No: R1322/06/1091/Rev 1

Date of Testing: 22nd August 2006

3M United Kingdom Plc, 3M Centre, Cain Road, Bracknell, Berkshire, RG128HT

Lillian CAOO (Formorily CCLADA)

Ultra S400 (Formerly SCLAR400) 100 micron Film (on 6mm Georgian Wired Glass), has achieved Class 2B2 of BSEN 12600 'Glass in Building – Pendulum Test – Impact Test Method and Classification for Flat Glass'.

SAMPLE REFERENCE No.	IMPACTED SIDE OF SAMPLE	ALLOWABLE BREAKAGE MODE	PERFORMANCE CLASSIFICATION	DIMENSIONS OF TEST PIECES	RESULT
5	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
6	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
7	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
8	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
1	Glass	В		876 x 1937	Pass (broke in accordance with Clause 4)
2	Glass	В		876 x 1937	Pass (broke in accordance with Clause 4)
3	Glass	В		876 x 1937	Pass (broke in accordance with Clause 4)
4	Glass	В	3	876 x 1937	Pass (broke in accordance with Clause 4)
13	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
14	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
15	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
16	Film	В		876 x 1937	Pass (broke in accordance with Clause 4)
9	Glass	В	342	876 x 1937	Pass (broke in accordance with Clause 4)
10	Glass	В		876 x 1937	Pass (broke in accordance with Clause 4)
11	Glass	В		876 x 1937	Pass (broke in accordance with Clause 4)
12	Glass	В	2	876 x 1937	Pass (broke in accordance with Clause 4)

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

Product Definition: Asymmetrical Product.

All Test Pieces and Safety Film 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

Numerous cracks appear but no shear or opening is allowed within the test piece through which a 76mm diameter sphere can pass when a maximum force of 25 N is applied. Additionally if particles are detached from the test piece up to 3 minutes after impact, they shall, in total, weigh no more than a mass equivalent to 10,000 mm² of the original test piece. The largest single particle shall weigh less than the mass equivalent to 400 mm² of the original test piece.

Tested By: M Cox and S Rice of Wintech Engineering Ltd.

Testing Witnessed By: Brian Wong of 3M United Kingdom Plc

Report Compiled By: T.A. Speak Signed: T.A. Speak

Technical and Quality Manager

R W Withers

Date of Issue: 13th October 2006

Technically Approved By:

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.

Signed: