Research Engineering Development Façade Consultants Limited-
Fire and Facade Testing Laboratory
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HOKLAS 091 TEST

Test Report

Test Sponsor:	**Dongguan Qunan Plastic Industrial Co., Ltd.**
Address of Test Sponsor:	HengXi Road, Dongshan Kapok Industrial Zone, Qishi Town, Dongguan, China
RED Identification No.:	HZQ17H12
Type of Material:	8mm Annealed Glass + 1.52mm Ionic Interlayer (SuperSafeGlas)*+ 8mm Annealed Glass
Glass Supplier:	Dongguan Peng Bo special glass Co., Ltd.
Test Method:	BS 6206: 1981 "Specification for Impact performance requirements for flat safety glass and safety plastics for use in buildings".
Test Location:	Route YE60, Shan Pi Village, Lilin Town, Zhong Kai Gao Xin District, Huizhou City, Guang Dong Province, China.
Date of Test:	18 October 2017

Purpose of Test

This test is used to determine the classification of safety glass and safety plastic for use in building, complying with BS 6206: 1981 "Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings".

Description of Specimens

As stated by the test sponsor to be:

Panel Type:	Laminated Glass unit consist of 8mm thick Annealed Glass + 1.52mm Ionic Interlayer (SuperSafeGlas)* + 8mm thick Annealed Glass
Glass Origin:	Xinyi Glass Holdings Limited
Glass Fabricator:	Laminated processes by Dongguan Peng Bo special glass Co., Ltd. Address: Community East New Road No. 31 Continents, Qiaotou Town, Dongguan City, Guang Dong, China.

Note:- Information provided by test sponsor.*

Summary of Testing Procedures

The specimens (865±3 mm wide x 1930 ±3 mm high) were positioned in the test frame and clamped. The tests followed the procedures specified by BS6206: 1981. The specimens were hit by a test impactor at drop heights of 305 mm, 457 mm and 1,219 mm. The procedures were repeated for the other specimens. For details of the testing procedures, please refer to BS 6206, Appendix A, Clause A.4.

The test results are valid only for the conditions under which the test was conducted.
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Results

Observation of impact at drop height of 305 mm

Test Pieces number	Overall Dimension (mm)	Thickness (mm)	Behaviour on impact at drop height of 305 mm	Classification
1	865×1930	17.55	No Breakage	C
2	865×1930	17.54	No Breakage	C
3	865×1930	17.53	No Breakage	C
4	865×1930	17.55	No Breakage	C

Observation of impact at drop height of 457 mm

Test Pieces number	Overall Dimension (mm)	Thickness (mm)	Behaviour on impact at drop height of 457 mm	Classification
1	865×1930	17.55	No Breakage	B
2	865×1930	17.54	No Breakage	B
3	865×1930	17.53	No Breakage	B
4	865×1930	17.55	No Breakage	B

Observation of impact at drop height of 1219 mm

Test Pieces number	Overall Dimension (mm)	Thickness (mm)	Behaviour on impact at drop height of 1219 mm	Classification
1	865×1930	17.55	No Breakage	A
2	865×1930	17.54	Break Safely*	A
3	865×1930	17.53	Break Safely*	A
4	865×1930	17.55	Break Safely*	A

Note: Both layers of 8mm annealed glass were broken. Numerous cracks appear in the test piece. No shear or opening was developed within the body of the test piece. Moreover, the particles detached from the test piece up to 3 min after impact weigh no more than the mass equivalent 10000 mm^2 of the original test piece. The largest single particle weighed less than the mass equivalent to 4400 mm^2 of the original test piece. Therefore, according to requirement of BS 6206 clause 5.3.b), the test piece breaks safely.*

Conclusion

An impact performance test for materials in accordance with BS 6206: 1981 has been performed on the material, as described in this report and the classification of the sample is **Class A**.

Approved Signatory: _____ Date: 2017/11/3

(Dr. Zhang Zhuoran)

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