

Prüfbericht-Nr.: <i>Test Report No.:</i>	15104478 001	Auftrags-Nr.: <i>Order No.:</i>	154249955	Seite 1 von 6 Page 1 of 6
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	n.a	Auftragsdatum: <i>Order date:</i>	May 09, 2017	
Auftraggeber: <i>Client:</i>	Sican Co. Ltd. No.12, Lane 9, Dayou St., Luzhu Dist., Taoyuan City 33842, Taiwan, R.O.C.			
Prüfgegenstand: <i>Test item:</i>	Glass with Safety Film			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	SRC-100 (5 mm tempered glass + 0.76 mm PVB + 5mm tempered glass + 0.1 mm safety film)			
Auftrags-Inhalt: <i>Order content:</i>	Performance Test: Resistance to Hard Body Impact			
Prüfgrundlage: <i>Test specification:</i>	EN 356:2000 Glass in building - Security glazing - Testing and classification of resistance against manual attack			
Wareneingangsdatum: <i>Date of receipt:</i>	May 09, 2017			
Prüfmuster-Nr.: <i>Test sample No.:</i>	20170626-03			
Prüfzeitraum: <i>Testing period:</i>	June 26, 2017 - June 28, 2017			
Ort der Prüfung: <i>Place of testing:</i>	Shanghai Institute of Quality Inspection and Technical Research			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland (Shanghai) Co.,Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Siehe Sonstiges / See Other			
geprüft von / tested by:		kontrolliert von / reviewed by:		
July 10, 2017	Alex Gu / Author		July 10, 2017	Lu JunJie / Reviewer
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				
Sonstiges / Other:				
Remark:				
1. Test results are listed in the following pages.				
2. Test was conducted in Shanghai Institute of Quality Inspection and Technical Research and witnessed by TÜV Rheinland (Shanghai) Co., Ltd. representative engineer – Alex Gu on June 28, 2017.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut 2 = good P(ass) = passed a.m. test specification(s)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n) F(ail) = failed a.m. test specification(s)	4 = ausreichend N/A = nicht anwendbar N/A = not applicable
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient N/T = nicht getestet N/T = not tested
				5 = mangelhaft 5 = poor
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Liste der verwendeten Prüfmittel
List of used test equipment

Prüfmittel <i>Test equipment</i>	Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>
Falling Ball Impact Equipment	QG-A-A2-0007	December 22, 2017
Tape Measure	QG-A-A1-0015	May 05, 2018
Balance	QG-A-A1-1027	September 07, 2017

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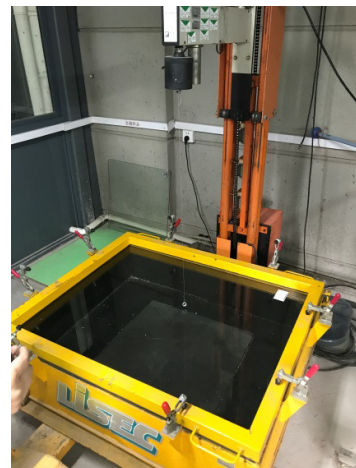
Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	Glass with safety film
2	Maße <i>Dimensions</i>	1100 mm (Length) × 900 mm (Width) Thickness: 5 mm tempered glass + 0.76 mm PVB + 5mm tempered glass + 0.1 mm safety film
3	Bedienelemente <i>Operating elements</i>	n.a
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	n.a
5	Verwendete Materialien <i>Used materials</i>	Glass and film
6	Sonstiges <i>Other</i>	n.a

Sample received



Sample in the test equipment



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Absatz	EN 356:2000	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	<i>Measuring results - Remarks</i>	<i>Evaluation</i>

Test Standard	EN 356:2000, clause 8
Requirement	EN 356:2000, clause 7.1
Test Environment	23.5 °C Note: Required temperature in the standard: (23±2) °C

Test requirement:

The security glazing products shall be classified in that particular category of resistance if all three test pieces prevent penetration by the impacting body when tested by the method described in clause 8 in EN 356:2000.

Test parameters:

Impactor (hard body): steel sphere with a diameter of (100±0.2) mm and a mass of (4.11±0.06) kg.
Drop height: (1500 ± 50) mm
Category of resistance: P1A

Test results:

Sample No.	Result after first impact	Result after second impact	Result after third impact
1	Glass broke, the impactor didn't pass through the sample in 5 seconds.	Glass broke, the impactor didn't pass through the sample in 5 seconds.	Glass broke, the impactor didn't pass through the sample in 5 seconds.
2	Glass didn't break.	Glass didn't break.	Glass broke, the impactor didn't pass through the sample in 5 seconds.
3	Glass didn't break.	Glass broke, the impactor didn't pass through the sample in 5 seconds.	Glass broke, the impactor didn't pass through the sample in 5 seconds.

Final conclusion:

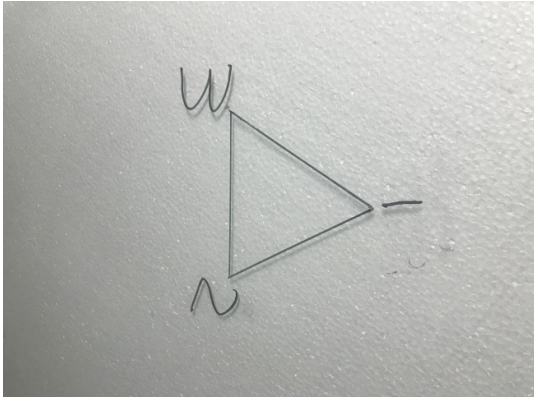
The product tested met the requirement of resistance to hard body impact under category P1A according to EN 356:2000.

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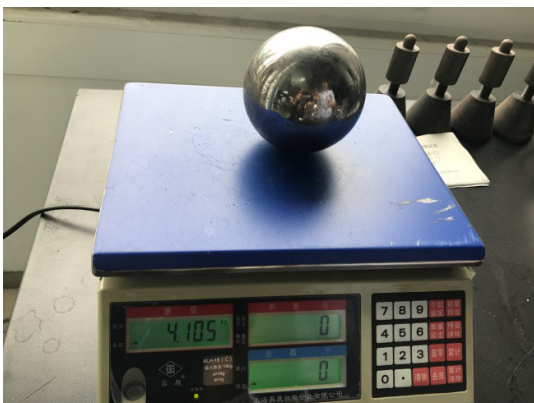
Appendix A: Test Photographs



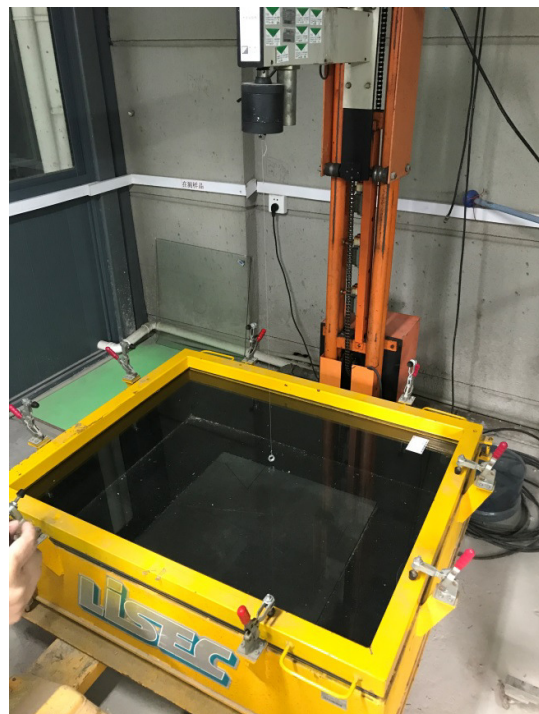
Impact positions on each sample



Measure the drop height



Mass of the impactor: 4.10 kg

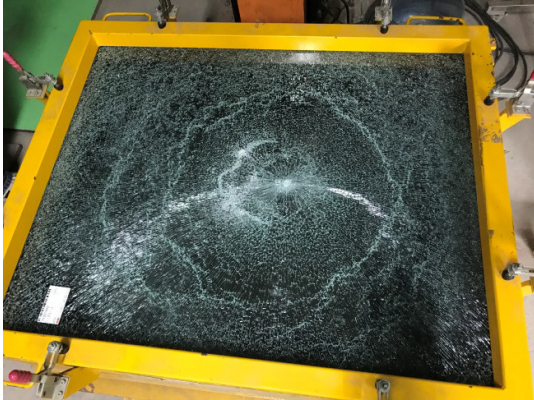


Test equipment with sample

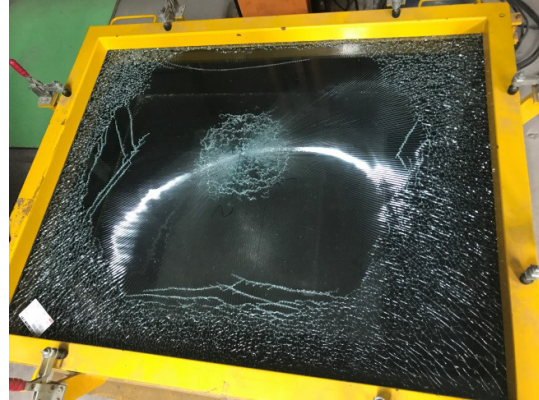
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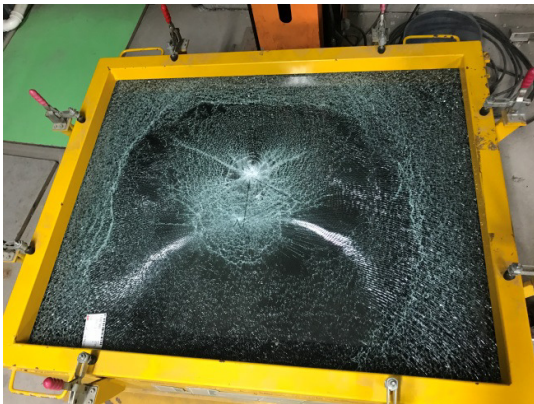
Absatz	EN 356:2000	Messergebnisse - Bemerkungen	Bewertung
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After impact of No.1 sample



After impact of No.2 sample



After impact of No.3 sample



Test temperature: 23.5 °C

-----The End of Report-----