

# Laboratory Test report



713-TEST  
NBN EN ISO/IEC 17025 :2017

**Schröder**  
Experts in lightability™

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FORM L-54 V2

## Mechanical impact resistance test

### General information

Subject : IZYLUM LT 1 - 4mm glass protector

Asked by : CSIKÓS Balázs

Created on : 07/06/2023

Started on : 07/06/2023

Test number : D230673

Reference norm : IEC/EN 60598-1 Ed9 (2021) + A11 (2022) & 62696 Ed1 (2011)

Sample(s) : E220634

### Test conditions

Luminaire : IZYLUM LT 1

Quantity of sample under test : 1

Protector Material : Glass Extra Clear wide serigraphy

Protector Shape : Flat

Serigraphy : organic

Protector Thickness (mm) : 4

Protector supplier : External - Delasan Vidres

Remark :

This report cancels and replaces test report D221124

Modification from original: protector thickness


Testing facility : BER - SCHREDER

Operator : KOY Fiston



IMG\_9596

### Conclusion

 Success

Conclusion :

Statement of conformity according to TR 62696 Ed1 (2011) and section 4.13 of IEC/EN 60598-1 Ed9 (2021) +A11 (2022):

IK08 passed.

Validated by :

LERHO Xavier

Duplicate to : PELSÖCZI Zoltán, GÖRGÉNYI Emese,  
HORVÁTH Balázs, SZÜGYI János Péter, LÁMFALUSI  
Ferenc, CSIKÓS Balázs, CSENKI Máté

LAB : 07/06/2023

D230673

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## Test(s) details

### Test(s)

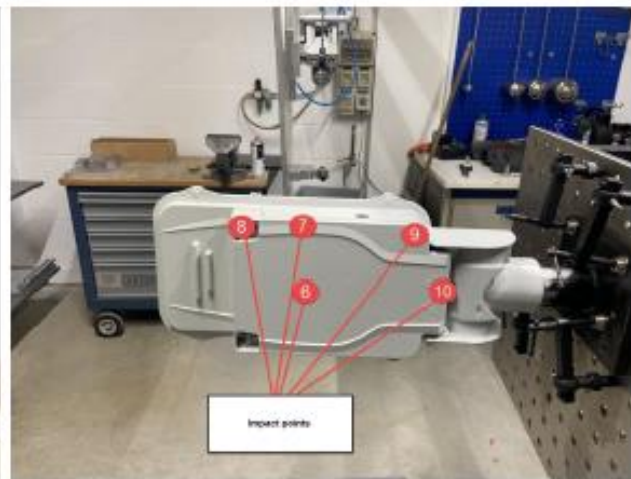
Name	Description	Verdict
Impact points	At pendulum hammer 5 impact points distributed on protector surface One impact on each point 2 supplementary impacts on the most fragile point	Informative
IK08	Impact energy : 5 joules Hammer weight : 1.7 Kg Height of fall : 30 Cm	Success

### Impact points

#### Detail(s)



IMG\_9598



IMG\_9600

## Verdict(s)

	Point 1			Point 2			Point 3			Point 4			Point 5		
	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3
Sample 1	PASS	-	-	PASS	-	-	PASS	PASS	PASS	PASS	-	-	PASS	-	-
Sample 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Point 6			Point 7			Point 8			Point 9			Point 10		
	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3	Impact 1	Impact 2	Impact 3
Sample 1	PASS	PASS	PASS	PASS	-	-	PASS	-	-	PASS	-	-	PASS	-	-
Sample 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Test room temperature (°C) :

22.2

Measurement equipment :

Pendulum hammer with chariot (M062)

Thermometer (A039/3)

Electronic scale 120kg (M057)

Dynamometric key (M015)

Quantities measured :

For IK 04/05/06: Verification of the mechanical strength of a luminaire according to PT-S-13

For IK07/08/09/10/10+: Verification of the mechanical strength of a luminaire according to PT-S-05

Uncertainties :

Temperature: 0,6 °K

Mass: 0,25 %

Dynamometric key :

From 0,5 to 2,5 Nm : 0,15 Nm

From 2,5 to 5 Nm : 0,22 Nm

From 5 to 25 Nm : 0,83 Nm

From 25 to 60 Nm : 2,73 Nm

From 60 to 100 Nm : 3,55 Nm

For IK 04/05/06, Impact energy:  $\pm 10\%$

For IK07/08/09/10/10+, Impact energy:  $\pm 1\%$

Decision rules :

Pass/fail criteria for individual test statement of conformity (Verdict) according to GDE-GUI-003:

By visual inspection (or other means if necessary):

Luminaire shows dangerous behavior: fail

Luminaire shows no dangerous behavior: success

When several luminaires are tested, 4 out of 5 samples need to show positive result for compliance of the batch

Pass/fail criteria for the test report statement of conformity (Conclusion):

At least one of the individual test statements of conformity (Verdict) is successful: success, the highest achieved IK is reported

Otherwise: fail

End of accredited report :

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