

Mechanical impact resistance test

General information

Subject : IZYLUM LT 3 - GLASS 4mm - Side-Entry60

Asked by : NAGY Ádám

Created on : 29/08/2023

Started on : 11/09/2023

Test number : D230996

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

Sample(s) : E230624, E230625

Test conditions

Luminaire : IZYLUM LT 3

Quantity of sample under test : 5

Protector Material : Glass Extra Clear wide serigraphy

Protector Shape : Flat

Serigraphy : Organic

Protector Thickness (mm) : 4

Protector supplier : External - Delasan Vidres


Testing facility : BER - SCHREDER

Operator : Philippe Léonard



IMG_6435

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 : NAGY Ádám
LAB : 28/09/2023

D230996
1/4



Test(s) details

Test(s)

Name	Description	Verdict
Impact points		Informative
IK08	Impact energy : 5 joules Hammer weight : 1.7 Kg Height of fall : 30 Cm	Success

Impact points

Detail(s)



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IK08

Verdict(s)

- NOT TESTED																
IK 08	Impact	1			2			3			4			5		
Sample	Shot	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1		Pass	-	-	Pass	Pass	Pass	Pass	-	-	Pass	-	-	Pass	-	-
2		Pass	-	-	Pass	Pass	Pass	Pass	-	-	Pass	-	-	Pass	-	-
3		Pass	-	-	Pass	Pass	Pass	Pass	-	-	Pass	-	-	Pass	-	-
4		Pass	-	-	Pass	Fail	-	Pass	-	-	Pass	-	-	Pass	-	-
5		Pass	-	-	Pass	Pass	Pass	Pass	-	-	Pass	-	-	Pass	-	-

Detail(s)



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IMG_6437

Test room temperature (°C) :

24.5

Measurement equipment :

Pendulum hammer with chariot (M062)

Thermometer (A056)

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: ± 10%

For IK07/08/09/10/10+, Impact energy: ± 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 :
