

## IP X7 Test

### Note

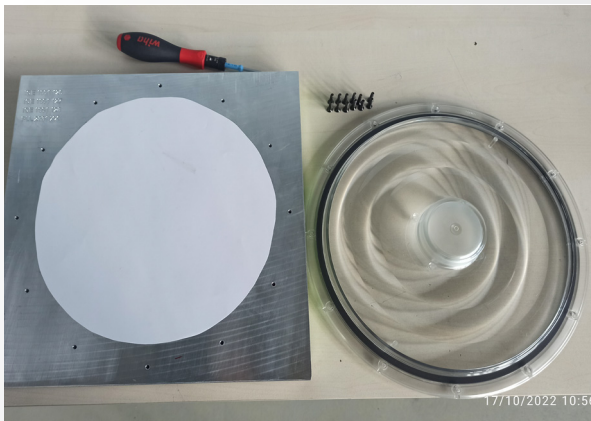
The present document is an internal document showing the tests carried out by Khatod in its laboratory. The tests, photos and videos presented in this document are made available for demonstration purposes only. Khatod, with its laboratory, is not a certification body.

If customers need IP and IK accredited certifications, they have to apply to the appointed Certification Bodies, under their sole care and responsibility.

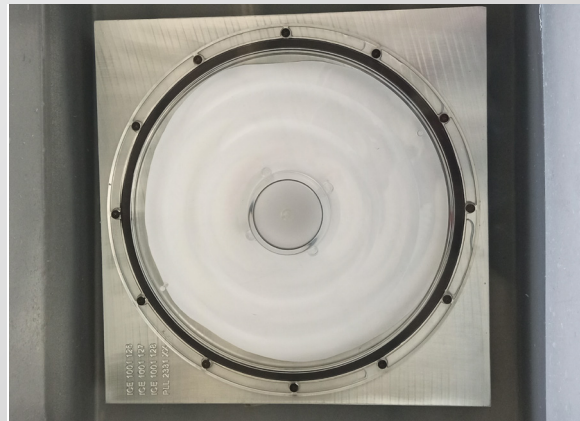
### Data and Analysis

The sample has been subjected to the water-penetration resistance test as follows:

Assembly of the components to test:	Positioning of the assembled sample in immersion:	Duration of the test:	Torque:	The specimen has been tested keeping the lowers point of the wrapping:
A moisture indicator paper sheet has been interposed between the lens and the clamping base	Up to 1m depth	30min	0,9 Nm	1000 mm below the surface of the water

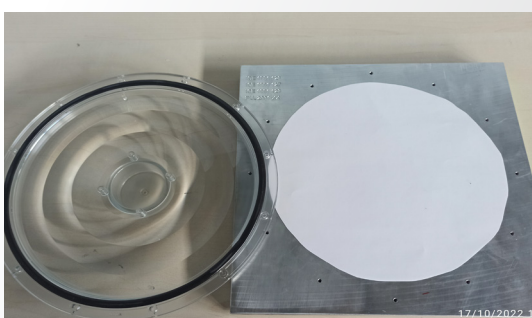


PLL2331xx Assembled



Testing immersion

### Conclusion



As shown in the photo, the test paper sheet is completely dry after disassembling the system.

Based on the water penetration resistance test, we can say that the polyurethane deposit ring 2 filed without primer proved to be fit for purpose.

The product has passed the Khatod test.

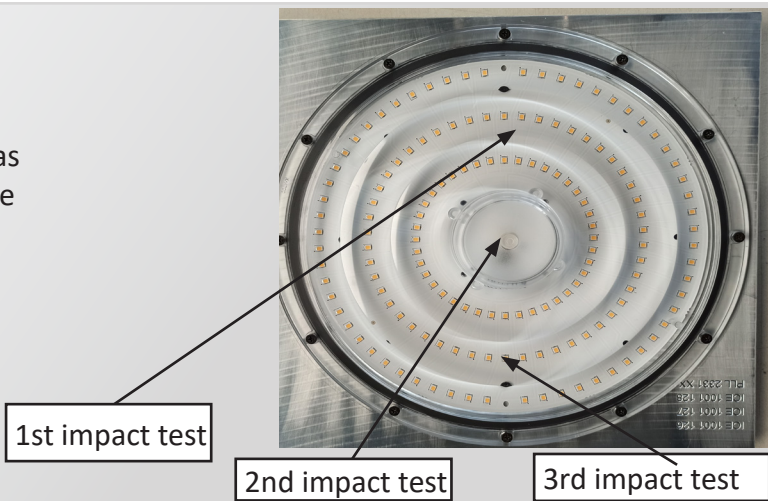
**The test paper sheet is dry.**

## IK Test - Test according to IEC EN 62262

### Initial Visual Inspection

Before starting the tests, a visual inspection was performed in order to check the integrity of the components.

The components resulted physically intact.

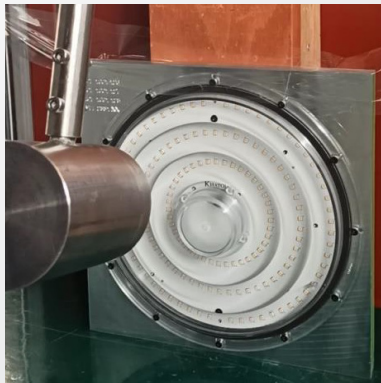


### Tests Execution

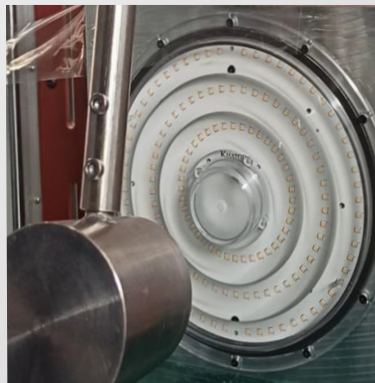
On the items under test, a series of tests were carried out according to IK10 (20 Joules)

Test parameters are as follows:

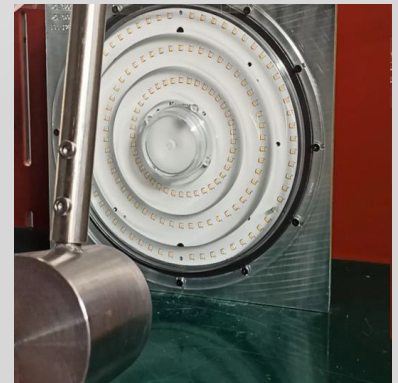
- Impact energy: 20 Joules
- Impacting element: 5.000 grams
- Distance between impacting element and the part under test: 40 cm
- Number of impacts: 5



1<sup>st</sup> TEST



2<sup>nd</sup> TEST



3<sup>rd</sup> TEST



### Final Visual Inspection

After testing, a final visual inspection was performed. The result was positive (view photo).