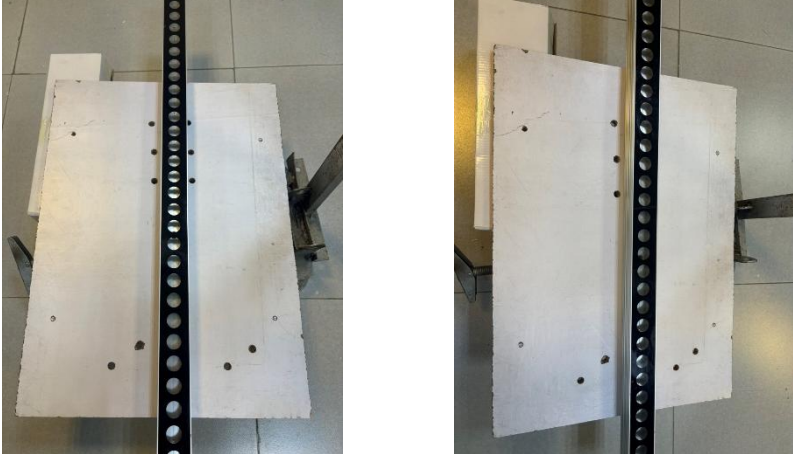


Test report

Test items	IK protection level test
Test object	LWW-WZB-W55-L12-RDM
Purpose of detection	To verify the IK protection grade of LWW-WZB-W55-L12-RDM product
Test time	2024-11-28
Testing equipment	Standard Code: GB/T 2423.55-2006 Standard Name: Environmental testing for electrical and electronic products-Part 2: Test methods Test Eh: Environmental testing for electric and electronic products--Part 2: Test methods--Test Eh: hammer tests) (Environmental testing for electric and electronic products--Part 2: Test Methods --Test EH: Hammer tests) IK grade test equipment, 0.25KG metal hammer, tape measure
Test final conclusion: LWW-WZB-W55-L12-RDM IK grade surface to the external mechanical collision protection level reached IK05 requirements; The results of this experiment are only responsible for the sample results.	
Experimental methods and steps: Refer to GB/T 2423.55-2006 (IEC 60068-2-75:1997) Environmental testing for electrical and electronic products - Part 2: Test methods Test Eh: Hammer test and GBT 20138-2006 (IEC62262:2002) electrical equipment shell to the external mechanical collision protection standard content of the test	
Test data: 1. Record the state of the sample before the test.  Product integrity	
2. 1 Test the impingement hammer as per IK05 rating requirements (280mm height, 0.25KG weight hammer, 0.7J energy).	

Tester: Wenliang Huang

Auditor: Hairui Chen

time2024.11.28

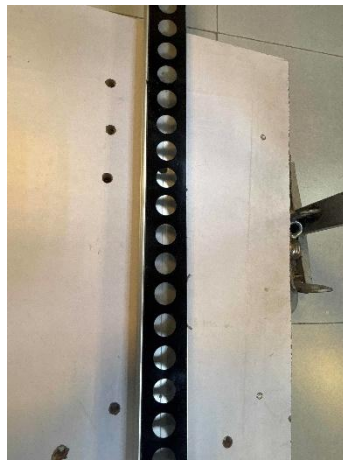


The 0.25KG metal hammer



280MM high

After the impact, record the appearance data of the sample. Test result: the glass surface cover did not crack after the hammer



The glass surface cover did not crack

3.1 Fixed impact hammer test according to IK06 class requirements (400mm height, 0.25KG weight hammer, 1J energy).



0.25KG metal hammer



height 400MM

After the impact, record the appearance data of the sample. Test result: the glass surface cover is completely broken after the hammer is struck



The glass surface cover is completely broken

Attached table: IK grade test Standard reference table

Table 1 Correspondence of IK codes and their corresponding collision energies

IK CODE	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
collision Energy /J	a	0.14	0.2	0.35	0.5	0.7	one	2	5	10	20

Note 1: 50J is recommended if higher collision energy is required

Note 2: Some national standards use a digit to represent the specified collision energy, in order to avoid confusion, so the characteristic digit is chosen to represent two digits.

a According to this standard is no protection.

In order to avoid the secondary impact caused by the rebound, after the initial impact can be grasped by the impact element rather than the pendulum rod method of braking. To avoid deformation of the pendulum rod.

Table 2 Drop height

Energy / J	0.14	0.2	(0.3)	0.35	(0.4)	0.5	0.7	one	2	5	10	20	50		
kg Equivalent mass/drop height, ± 3%/mm	0.25	(0.2)	0.25	(0.2)	0.25	(0.2)	(0.2)	0.25	0.25	0.25	0.5	1.7	5	5	10
	56	(100).	80	(150).	140	(200).	(250).	200	280	400	400	300	200	400	500

Note 1: See Note 3.2.2.

Note 2: The unit of energy in this section, Joule (J), is derived from the standard acceleration of gravity (ga). g. The warp value is 10 m/s2

Test results:

The appeal test data proved that IK05 grade 0.7J, weight 0.25KG, height 280MM did not break the glass surface cover after the test hammer. According to the national standard GB/T 20138-2006 /IEC 62262:2002 Section 4.4 test and GB/T 20138-2006 /IEC The **IK grade** of **LWW-WZB-W55-L12-RDM surface** is judged by the content of Table 1 and Article 6 of 62262:20024.2 to **pass IK05**