

TEST REPORT

No. 008b/15

Client	ROLEC Gehäuse-Systeme GmbH Mr. Volker Borcharding Kreuzbreite 2 D – 31737 Rinteln
Date of order	2015-01-09
Date of receiving the specimens	2015-01-12
Period of testing	2015-01-12 and 2015-01-13

1 TEST OBJECT

1.1 Designation / Number of pieces

Enclosure of series technoPlus as follows:

1.1.1	TP090	/ 1 piece
1.1.2	TP092	/ 1 piece
1.1.3	TP110	/ 1 piece
1.1.4	TP132	/ 1 piece
1.1.5	TP172	/ 1 piece

The specimen in accordance with sub-clause 1.1.4 is prestressed with test of IP Code 6X, IP Code X6 and IP Code X7, see test report 008a/15.

The cover of the enclosure has to be screwed with a torque (approx. 1.0 Nm). *given by the client*

1.2 Producer see Client

2 TASK

Testing to determine the degrees of protection IP Code X9K in accordance with ISO 20653 : 2013–02

3 TEST PROGRAMME

3.1 Initial visual inspection

3.2 Testing to determine the degree of protection – IP Code X9K – against ingress of water under high pressure steam jet cleaning in accordance with ISO 20653

- Test was done in 5 runs.

Flat jet nozzle and jet discharge	in accordance with figure 7 of ISO 20653 in connection with high pressure steam jet cleaner Kärcher Type HDS 9/18-4 M
Exposition of specimen	mounted on a rotating table in accordance with figure 9 of ISO 20653 table rotation speed (5 ± 1) rpm
Jet angles	0°, 30°, 60° and 90°
Flow rate of water	14 to 16 l / min
Water temperature and pressure	(80 ± 5) °C // 800 0 to 10000 kPa
Test duration	30 s in each jet angle

- visual inspection with regard to entered water

Test criterion No water shall be visible in the enclosure.

4 RESULTS

4.1 Initial visual inspection

Damages or defects are not visible.

4.2 IP Code X9K

No water is visible inside the enclosures.
No changes are visible.

5 EVALUATION

The specimens in accordance with sub-clause 1.1 have passed the test to determine the degree of protection IP Code X9K in accordance with ISO 20653 : 2013–02.

Leipzig, 2015-01-13

**Laboratory for Environmental
Testing and Material Testing**

Annex Sheet 1/1

Dr.-Ing. Frank Eler
Laboratory Manager

The test result is true only for the specimen(s) mentioned in the clause „test item (specimen)“. It is allowed to copy the complete test report only. When the test report shall be copied in the form of extracts the agreement must be given by the test laboratory for them.



Figure 1 Exposition IP X9K, example 0°

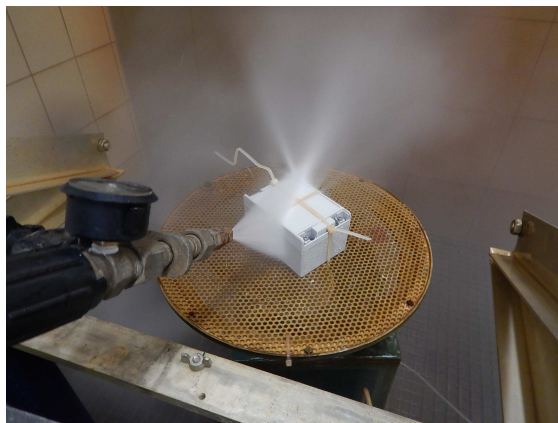


Figure 2 Exposition IP X9K, example 30°



Figure 3 Exposition IP X9K, example 60°

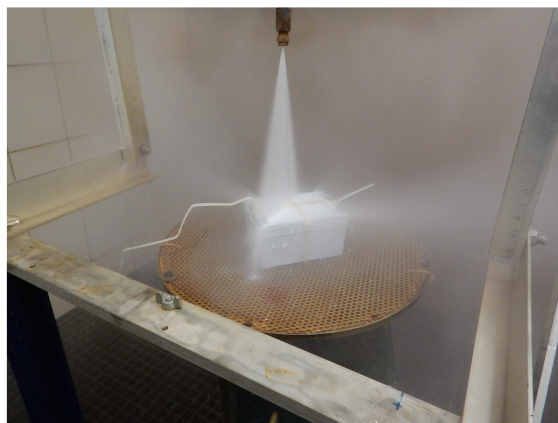


Figure 4 Exposition IP X9K, example 90°