



Testing of Joramark BOX300 according to ETAG 022 Annex F

Request by: Joramark Oy

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Task **Testing of Joramark BOX300 according to ETAG 022 Annex F**

Samples The customer delivered samples presented in table 1 to VTT Expert Services Ltd on May 29, 2015.

Table 1. The samples for testing.

Product	Quantity	Marking
Casco Waterproofing tape 3647	1 roll, 15 m	-
Casco Wetstop KL-tape 3798	1 roll, 30 m	-
Casco Primer 3698	1 L	41591249001
Casco Aquastop 3635	5 L	51397253001
Joramark Front plate	2 pcs	70101
Joramark Hatch	2 pcs	70102
4,2 x 16 KFR Screw	40 pcs	76034



Picture 1. The waterproofing reinforcement tapes used in the tests.

The test results relate only to the sample tested.

Testing period 8.6. – 11.7.2015

Performance of the task Two gypsum boards size of 540x600 mm were primed with Casco Primer. The BOX300-hatches were attached in the holes in the centre of the test boards. The edges of the BOX300 were cleaned, grinded and sealed with Casco waterproofing reinforcement tape (picture 1). Two layers of Casco waterproofing membrane were applied.

The representative of the customer Ulf Alén (Oy Sika Finland AB) participated in the preparation of test specimens.

The water tightness of the test specimens were tested according to ETAG 022 annex F “Water tightness around penetrations and other details in wet room walls with flexible substrate”. The test specimens were subjected to 3000 water spray cycles:

- Hot water spray (60±3°C) for 60 s
- Pause for 60 s
- Cold water spray (10±3°C) for 60 s
- Pause for 60 s

After 3000 cycles, the test specimens were examined visually for leakage using methylene blue -powder mixture.

Test results

The test results are presented in table 2. Pictures of test specimens are shown in appendix 1.

Table 2. The test results of ETAG 022 annex F tests.

Product / Structure	Wet consumption	Result
BOX300 + Casco Waterproofing tape	Primer 58 g/m ² Waterproofing 1764 g/m ²	ETAG 022 Annex F, Watertight
BOX300 + Casco Wetstop KL-tape	Primer 59 g/m ² Waterproofing 1814 g/m ²	ETAG 022 Annex F, Watertight

Conclusions

The BOX300 was watertight with two different Casco waterproofing reinforcement tapes.

The test results relate only to the sample tested.

Espoo, August 14, 2015


Hannu Hyttinen
Product Manager


Miia Jumpponen
Technical Expert

This is the English version of the original VTT-S-03614-15 Finnish report. In the event of any discrepancy, the original report shall prevail.

Appendices

Appendix 1. Preparation of the test specimens and test specimens after testing

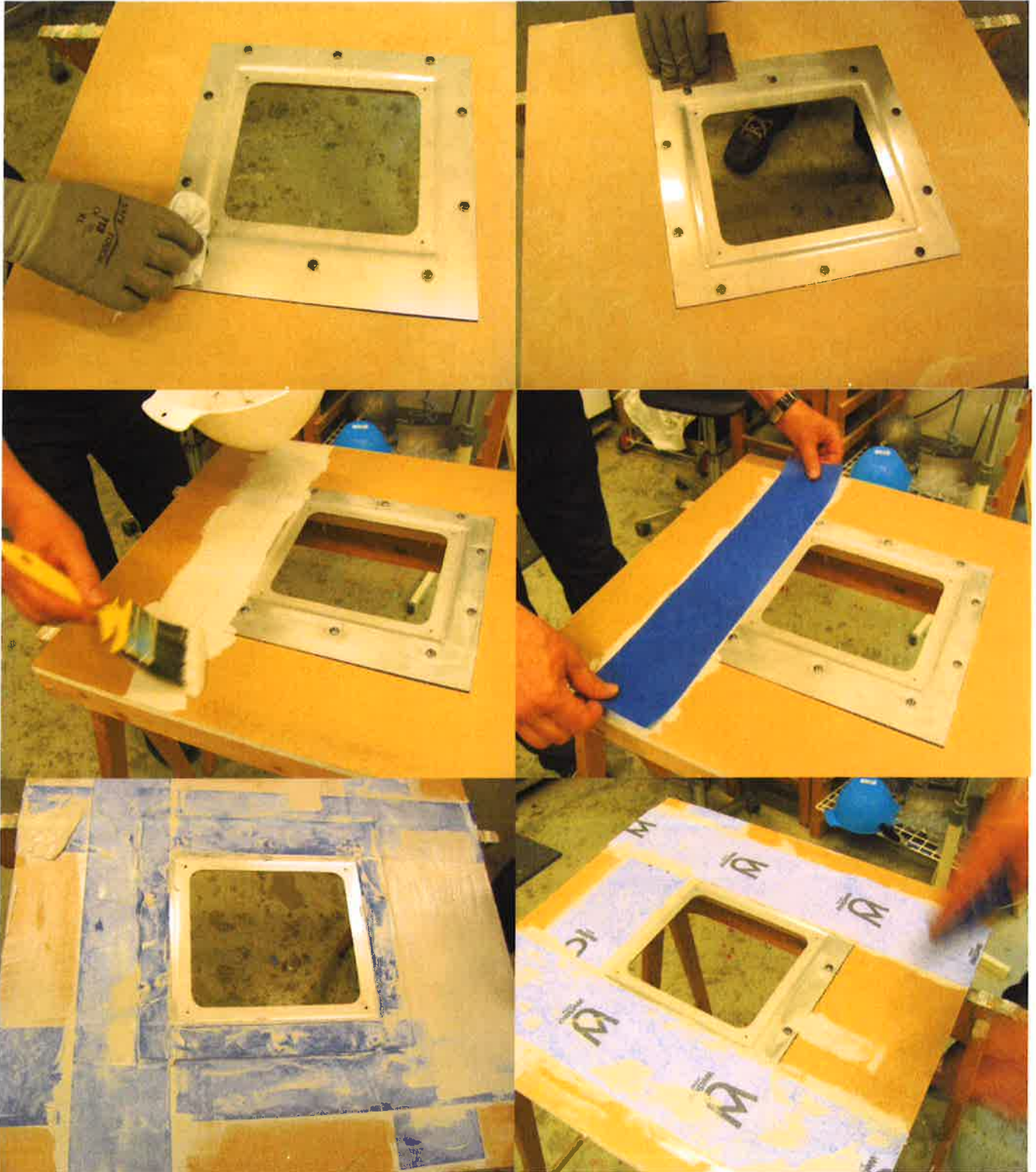
Distribution

Customer
Archive

Original
Original

The test results relate only to the sample tested.

Preparation of the test specimens:



The test results relate only to the sample tested.

The test specimens after testing:



(Test specimen A = Casco waterproofing tape and test specimen B = Wetstop KL-tape)

The test results relate only to the sample tested.