



**TEST REPORT Nr. 088 SF/20 VN en**

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**26 of July 2020**

1 (5)

**Door water tightness measurements**

(designation of the test)

Test

performed: LST EN 1027:2016 Windows and doors – Water tightness – Test method.

(number of normative document)

Product: HST doors. Measurements: 2088mmx2088mm. Material of the frame profile: PVC-U. System: GEALAN HST S9000. Opening: lift and sliding. Fittings: HAUTAU ATRIUM HS 330. Fixations of fixation: 2 fixation points, 250mm and 1600mm from top of running rail. Gaskets: 2x6370. Glazing: 4mmXNgr16/SWS/RAL9023/Ar-4mm-16/SWS/RAL9023/Ar-4mmXNgr. Other details: provided drainage / ventilation openings.

(name, description and identification details of a specimen; information submitted by the customer)

Client: UAB „Plus Windows“, Pramonės g. 20D, Kuršėnų m., LT-81123 Šiaulių r.

(the name and address)

Producer: UAB „Plus Windows“, Pramonės g. 20D, Kuršėnų m., LT-81123 Šiaulių r.

(the name and address)

Results of test:

Name of the indicator and unit	Method reference no.	Test result
Water tightness, class	LST EN 12208:2002	<b>9A</b>
<b>Note.</b> 1) The testing are carried out in purpose for conformity assessment of the product according to LST EN 14351-1:2006+A2:2016; 2) Conformity of test results is evaluated using the decision rule in accordance with ILAC-G8: 09/2019 point 4.2.1.		

Place of test: Laboratory of Building Physics, Institute of Architecture and Construction of Kaunas University of Technology

(name of the test laboratory)

Product delivered: 2020-06-19

Date of test: 2020-06-22

Sample selected: by customer. Sampling Report No. 088/20, 2020-06-12

Other information: Application 2020-06-12 drawing

(other deviations, other tests and any information related to the test)

Annex: 1 – schematical view of the test rig, 2 - Test photos, 3 –measurement results (+3 pages)

(the numbers of the annexes should be pointed out)

Technical manager:

(approving test results)

(signature)

J. Ramanauskas

(n., surname)

Test performed by:

(person responsible for a test)

(signature)

R. Rauckis

(n., surname)

S.P.

Validity – the named data and results refer exclusively to the tested and described specimens.  
Notes on publication – no part of this document may be photocopied, reproduced or translated to another language without the prior written consent of the Laboratory of Building Physics

### Installation of the sample

Sample has been installed into test rig KS 3035/650 PC Nr.P2130 opening by workers of the laboratory. An opening of the test rig was adjusted that it size would meet the dimensions of the sample.

The ambient temperature and humidity close to the specimen shall be within the range 10 °C to 30 °C and 25 % to 75 % RH and the specimen shall be conditioned thus for at least 4 h immediately before test.

### Methods and equipment

Air permeability has been tested in accordance with requirements of *test method* standard.

Test rig KS 3035/650 PC includes:

1. Test wall,
2. Air flow control block,
3. Water sprinkling system,
4. Indication and control equipment,
5. Deflection sensors.

Technical data of test rig:

1. Max size of the sample should be tested: width – 2400 mm, height – 2350 mm,
2. Max developed test pressure:  $\pm 3000$  Pa,
3. Ranges of measurement: I – (0,5...50) m<sup>3</sup>/h II – (0,5...300) m<sup>3</sup>/h,
4. Range of displacement sensors  $\pm 25$  mm.

Test rig KS 3035/650 PC Nr.P2130 tried LEI Nr. Nr. 32/18-D; 33/18-D; 43/18-B; 49/18-S 2018-07-03 ir VMC KRL Nr.032058 2018-08-01

**Sources** [1] *LST EN 1027:2016 Windows and doors – Water tightness – Test method.*  
[2] *LST EN 12208:2002 Windows and doors – Water tightness - Classification.*  
[3] *LST EN 14351-1:2006+A2:2016 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets.*

**Distribution:** Client

Laboratory of Building Physics,  
Institute of Architecture and Construction of Kaunas  
University of Technology

Original

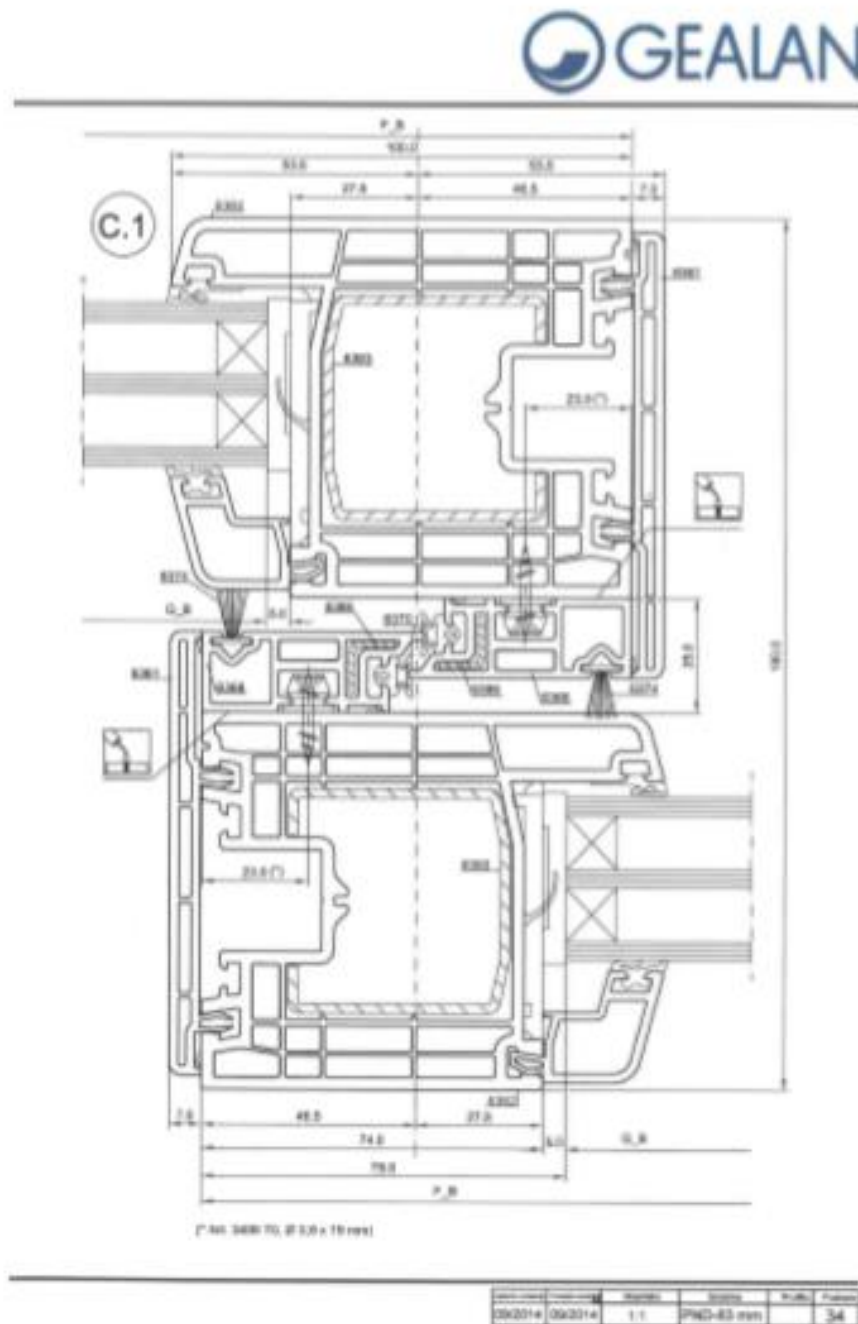
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**Contact person:** Romas Rauckis, tel. +370 37 350779

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**Designation of the product tested:**

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*Fig.1 Cross sections of the door (information submitted by the customer)*

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2 Annex. Test photos



*Fig 2. Photos of door (when was testing)*

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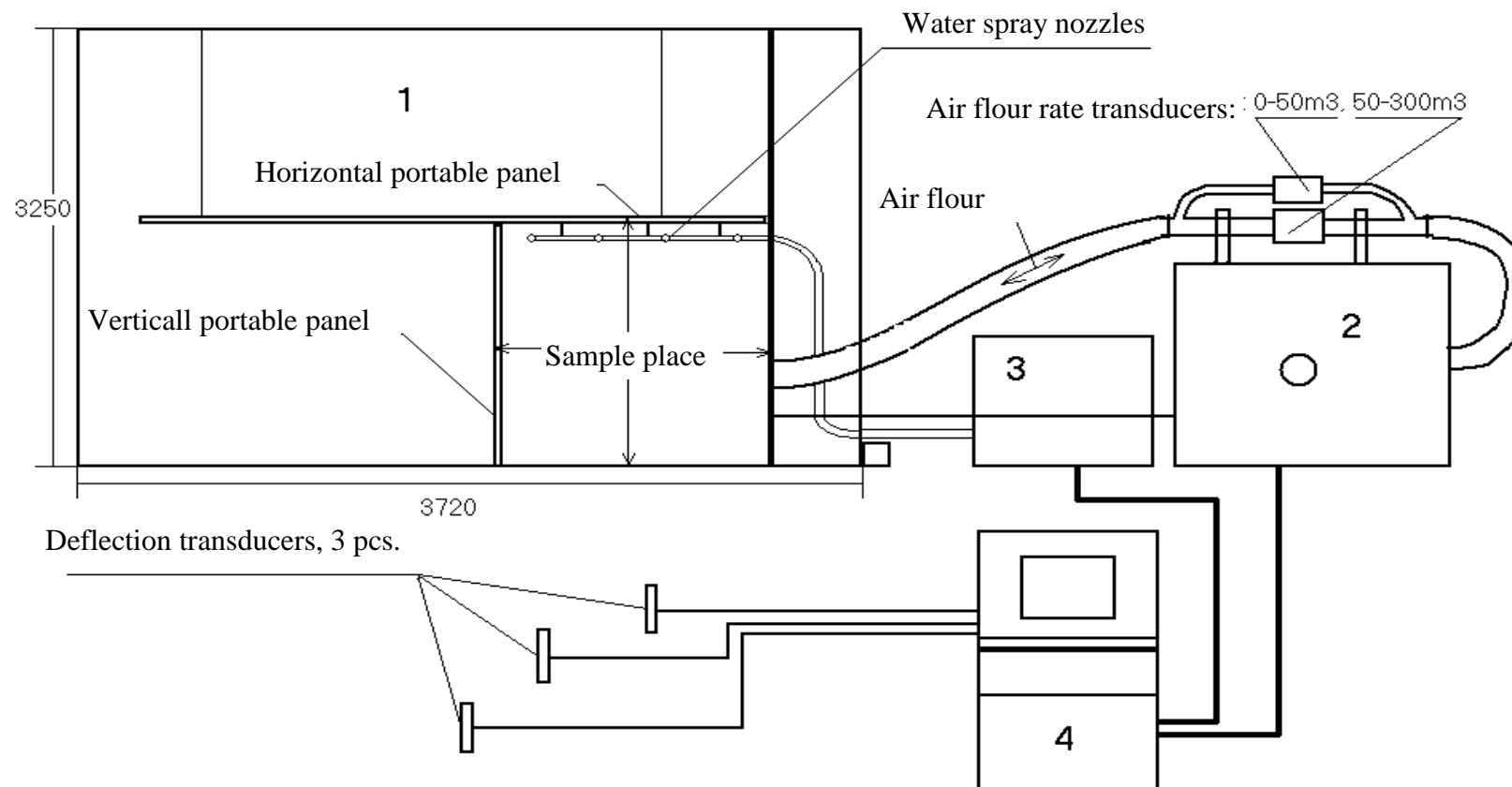


Fig 1. Equipment for window, door, roof window, industrial door and screen wall air permeability, rain water resistance and resistance to wind load measurements scheme: 1 – test measurement wall, 2 – air flow control and regulation block, 3 – water spray device, 4 – indicator and control equipment