



BUILDING RESEARCH INSTITUTE (NISI) Ltd.

NOTIFIED TEST LABORATORY

Identification number NB 2032 of the Register of EC

Licence granted by the Ministry of Development and Public Works (MRRB), No CPD 10-2032

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TEST REPORT
INITIAL TYPE TESTING
ITT-15.29 D / 22.02.2016

(Addition to protocol № ITT-15.29 / 15.01.2016 г.)

The tests are carried out in compliance with the Chapter Two of the Bulgarian *Regulation for the Essential Requirements to Constructions and Conformity Assessment of Construction Products (RERCCACP)*.

Product: Window aluminum profiles „VIVA ALUMINIUM SYSTEMS“ opening system 038

Producer: Factory of VIAS Ltd,
Bulgaria, Shumen, 68A “Rishki prohod“ Blvd.

Applicant: VIAS Ltd,
Bulgaria, Shumen, 68A “Rishki prohod“ Blvd.

Document for assignment: Contract No 40/2015

Test samples: One window with dimensions 1750/2550 mm.
Details of the window are supplied in Annex 1.

Test period: From 15.02.2016 to 19.02.2016

Assessment of the performance: The submitted Window aluminum profiles „VIVA ALUMINIUM SYSTEMS“ opening system 038 meets thermal transmittance $U_w = 1,57 \text{ W}/(\text{m}^2 \cdot \text{K})$ with glass Ist type and $U_w = 1,48 \text{ W}/(\text{m}^2 \cdot \text{K})$ with glazed IInd type .

Head of Test Laboratory:

Res. Ass. Eng. Tsvetana Gyurova

General Manager of NISI:

Prof. Dr. Eng. Rumen Guglev



The Test Report consists of 2 pages.

Copies of separate parts of the Test Report can be made with written consent of the NISI Ltd.

Testing data:

No	Characteristic	Unit of measurement	Test method	Test result	Requirement according
1	2	3	4	5	6
1	Thermal transmittance coefficient: - the profile wing - the profile fund - the profile transon - the glass unit I-st type - the glass unit II-nd type - the window with glass unit I-st type - the window with glass unit II-nd type	W/(m ² .K)	EN ISO 10077-1	3,14 3,15 3,68 1,10 0,98 1,57 1,48	- - - - - - -

Note: The test is performed with two glass:

- glass I-st type: 24 mm - 4 mm glass white, 16 mm air gap filled with 90% Argon, 4 mm glass sanerdzhi);
- glass II-nd type: 24 mm - 4 mm glass white, 16 mm air gap filled 90% of Argon, 4 mm glass premium.

Technical documentation:

- EN 14351-1:2006+A1:2010 Windows and doors. Product standard, performance characteristics. Part 1: Windows and external pedestrian doorsets without resistance to Fire and/or smoke leakage characteristics;
- EN ISO 12567-1:2010 Thermal performance of windows and doors - Determination of thermal transmittance by the hot-box method - Part 1: Complete windows and doors

Tests are carried out by:

1. Eng. O. Savov
2. Res. Ass. Eng. K. Glushkova

Head of Test Laboratory:

Res. Ass. Eng. Kvetana Gyrova

