TEST REPORT
INITIAL TYPE TESTING
ITT - 14.26 / 05.10.2015

The tests are carried out in compliance with REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT

Product: Ventilated facade systems Vario Lamella – extruded aluminium facade panel

Producer and applicant: “ETEM Bulgaria” AD,
Bulgaria, Sofia, 119A Ilienci blvd

Manufacturing site: “ETEM Bulgaria” AD,
Bulgaria, Sofia, 119A Ilienci blvd

Document for assignment: Contract No 9/2014

System of assessment to conformity: System “3” according to annex ZA of EN 13830:2015

Basic requirements: 4 – Safety and accessibility in use

Test sample: Ventilated Facade System Vario Lamella - extruded aluminium facade panel with dimensions 979/2538 mm with technical specification according to Annex 1. The test sample is taken by the Applicant from the batch manufactured on 08.07.2015.

Test period: from 23.09.2015 to 25.09.2015

Conclusion: The presented sample of ventilated facade system Vario Lamella – extruded aluminium facade panel meets the requirements of EN 13830:2015.

Head of Testing Laboratory: Eng. Tsvetana Gyurova

Head of Institute: Dr.Eng. Rumen Gugley, prof.

The Test Report consists of 8 pages. Copies of the Test Report can be made with written consent of the NISI Ltd.
4. Safety and accessibility in use

Testing data:

<table>
<thead>
<tr>
<th>No</th>
<th>Characteristic</th>
<th>Unit of measurement</th>
<th>Test method</th>
<th>Test result</th>
<th>Requirement according to EN 13830: 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Resistance of wind load 1500 Pa</td>
<td>-</td>
<td>EN 12179: 2000</td>
<td>No malfunctions</td>
<td>There should be no malfunctions</td>
</tr>
<tr>
<td>2</td>
<td>Frontal deflection</td>
<td>mm</td>
<td>EN 12179: 2000</td>
<td>5.22 ± 0.01</td>
<td>≤ 5.50</td>
</tr>
<tr>
<td>2.1</td>
<td>- positive pressure 1000 Pa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>- negative pressure 1000 Pa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Residual deformation</td>
<td>mm</td>
<td>EN 12179: 2000</td>
<td>0.38 ± 0.01</td>
<td>≤ 2.20</td>
</tr>
<tr>
<td>3.1</td>
<td>- positive pressure 1000 Pa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>- negative pressure 1000 Pa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Resistance to soft and heavy body impact with energy of 300 J</td>
<td>-</td>
<td>EN 949: 1998</td>
<td>No malfunctions</td>
<td>There should be no malfunctions</td>
</tr>
<tr>
<td>5</td>
<td>Resistance to hard body impact with energy of 5 J</td>
<td>-</td>
<td>EN 950: 1999</td>
<td>No malfunctions</td>
<td>There should be no malfunctions</td>
</tr>
</tbody>
</table>

Technical documentation:

- EN 13830:2015 Curtain walling - Product standard
- EN 12179:2000 Curtain walling - Resistance to wind load - Test method
- EN 13116:2001 Curtain walling - Resistance to wind load - Performance requirements
- EN 949:1998 Windows and curtain walling, doors, blinds and shutters - Determination of the resistance to soft and heavy body impact for doors
- EN 950:1999 Door leaves - Determination of the resistance to hard body impact

Tests are carried out by
Eng. Emil Peney
Eng. Boyan Sapunov

Head of Testing Laboratory:
Eng. Tsvetana Gyurova