



Declaration of performance NR 001

Unique identification code of the product-type:

3040

Serial number:

7350004629978

Intended use of the construction product:

Block Lock Glue is used together with Block Lock Lists in the construction of glass blocks walls inside and outside.

Manufacturer:

Vetropro Group AB
Kvistvägen 2
433 48 Partille
Sweden

This declaration of performance is concerning a construction product for which a European Technical Approval has been performed by ITB-Institut Techniki Budowlanej on Vetropro Group AB's inquiry. ITB has issued ETA-12/0472 after solid tests according to system 3.

Performed:

Mechanical resistance and stability

Not relevant

Safety in case of fire

Reaction to fire

The reaction to fire tests was carried out by ITB, in accordance with the following standards: EN ISO 11925-2, EN 13823. Mounting and fixing conditions- according to Annex 2 of the CUAP 04.04/44.

The assembled kit for internal walls made of glass blocks Block Lock has been classified as meeting the criteria of B-s1, d0 class of reaction to fire according to EN 13501-1.

Resistance to fire

No performance determined

Hygiene, health and the environment

Content and/or release of dangerous substances

According to the manufacturer's declaration the kit for internal walls made of glass blocks Block Lock contain no dangerous substances according to Directive 67/548/EEC and Regulation (EC) No 1272/2008.

Safety in use

Resistance to soft body impact

The resistance to soft body impact of the Block Lock system as for structural damage has been tested by ITB, in accordance with § 6.4.1 of ETAG 003, edition 1998. The Block Lock walls reached IVb use category.

Tensile strength of plastic profiles

The tests have been carried out by ITB, in accordance with EN ISO 527-1, -2 (samples type 1B, $v = 50$ mm/min). According to test results the lowest value of all measured values of the tensile strength was not less than 16 MPa.

Tensile modulus of elasticity of plastic profiles

The tests have been carried out by ITB, in accordance with EN ISO 527-1, -2 (samples type 1B, $v = 50$ mm/min). According to test results the lowest value of all measured values of the tensile modulus of elasticity was not less than 800 MPa.

Compressive strength of glass blocks

According to test results made by the manufacturer of glass blocks compressive strength of glass blocks determined in accordance with EN 1051-1, on twenty samples, meets the following requirements:

- Mean compressive strength from all samples tested is not less than 7,0 N/mm²,
- Any individual strength result is not less than 6,0 N/mm²

Adhesion to plastic profiles and glass blocks of the adhesive

The tests have been carried out by ITB, under dry conditions in accordance with ETAG 016, Part 3, Annex C, Clause 3.4.1. According to test results the lowest value of all measured values of the adhesion to plastic profiles and glass blocks was not less than 60 kPa for Original Profiles and 190 kPa for Pegasus profiles.

Shear resistance

The tests have been carried out by ITB, under dry conditions in accordance with ETAG 016, Part 3, Annex C, Clause 3.4.1. According to test results the lowest value of all measured values of the shear resistance of the glass block-substrate connection was not less than 130 kPa for Original Profiles and 160 kPa for Pegasus profiles.

Protection against noise

No performance determined

Energy economy and heat retention

Thermal transmittance

The values of thermal transmittance, determined by ITB according to EN 1745, are:

- $U = 2,7 \text{ W/(m}^2 \text{ K)}$ – in case of walls made of Basic Glass blocks with Original Profiles,
- $U = 2,8 \text{ W/(m}^2 \text{ K)}$ – in case of walls made of SEVES Pegasus glass blocks with Pegasus profiles.

Aspects of durability and serviceability

Resistance to soft body impact

The resistance to soft body impact of the Block Lock system as for functional failure has been tested by ITB, in accordance with § 6.7.1 of ETAG 003, edition 1998. The Block Lock walls reached IV use category.

Resistance to deterioration

It can be assumed that the Block Lock kit for internal walls made of glass blocks will have an adequate resistance to physical, chemical and biological agents taking onto account the internal conditions.

Signed for the manufacturer by:



Arthur Klintell, CEO

Partille 2012-12-28