

Certificate No: EW977



This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

JUWO Poroton ThermoPlan System

Description of Product

This is an assessment of the JUWO Poroton ThermoPlan block system. The blocks are constructed of fired-clay and use a thin-joint mortar system, applied with a specialist mortar roller. The blocks contain a vertical cellular void structure and the non-face ends of the blocks are keyed with a vertical tongue-and-groove interlocking profile, which eliminates the need for vertical mortar joints. The system includes a range (ref: MZ) as an option, with voids infilled with Rockwool insulation. The block system complies with EN 771 and is certified by CE Norm with the highest range of classification CE 2+. The compressive strength of the clay units ranges from 5N/mm2 to 15N/mm2 and has been tested to demonstrate its nonshrinking characteristics, including the mortar, which is also supplied by JUWO.











Key Factors Assessed

- Mechanical Resistance & Stability
- Durability serviceability and identification

Validity

This certificate was first issued on 24th April 2018 and is valid until 24th April 2022 Issue Dated 3rd April 2019

Scope of Registration

This registration applies to the JUWO Poroton ThermoPlan clay block system, which can be used either in solid external wall constructions or as part of an external cavity wall, or it can be used for internal solid walls. The requested assessment is for **loadbearing structure only**.

Block reference types subject to the assessment are: ThermoPlan MZ60/MZ70/MZ8/MZ80-G/MZ90-G/S7/S8/S9/T10/T11/TS12/T14/T/TS Square/Acoustically insulating filled blocks T, T1,2 & T1,4.

The clay block units are supplied in a range of varying modular sizes and compressive strengths. The blocks are laid using the VD System – thin joint mortar applied with a specialist mortar roller. Laying in the "dipping system" is also possible, but not recommended.

The block system benefits from a Certificate of Conformity of Factory Production Control, in compliance with Regulation 305/2011/EU and complies with harmonised standard BS EN 771-1:2011 (valid until 31st December 2020).

Conditions of Certificate

The block system is suitable for residential/commercial building types up to 6 storeys max.

The design of the clay block masonry walls shall comply with Eurocode 6, BS EN 1996 accordingly.

There is no limitation on the geographical use of the block system in terms of exposure.

The block must be protected externally from weathering and moisture ingress by an appropriate layer (such as external render) and DPCs as appropriate. The manufacturer recommends the use of 'Quick-Mix' external render with their blocks. The block system is not suitable for use in retaining earth situations.

The block system can be used below DPC level (though the manufacturer recommends using their own specific basement clay block product for such purposes)

The mortar design shall comply with BS EN 998-2: Specification for mortar masonry

The block system is suitable for use with ETICS.

The block system is to be laid and bonded in strict accordance with the manufacturer's recommendations and installation processes.

Joints in block panels are to be kept within tolerances noted in the manufacturer's installation guide, and shall be infilled with suitably approved filler products.

The choice of block and compressive strength required is subject to the individual design and loading of each building, and may require the input of a structural engineer to Eurocode 6 BS EN 1996: 1/2/3

The manufacturer states that the mortar achieves its ultimate compressive strength after 5 days, during which no further applied loading should occur from intermediate floors/roofs/structural elements etc.

Structural fixings into the clay block units must comply with the manufacturer's recommendations and installation guide Bearings for structural elements (beams/pc floor units etc), slots and chases should be formed in the clay block walls in strict accordance with the manufacturer's recommendations and in accordance with DIN 1053-1: 11-1996

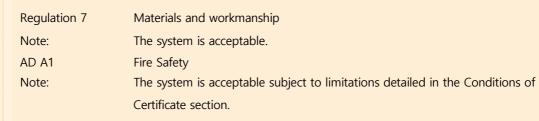
The application of any external render or internal plaster finish is subject to the individual manufacturer's recommendations and installation guides.

Other considerations for fire resistance, thermal & acoustic performance will need to be assessed separately for compliance with the Building Regulations 2010.

Regulations

LABC consider that, JUWO Poroton ThermoPlan System will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

The Building Regulations 2010 (as amended) England & Wales





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The Building Regulations 2010 (as amended) England None presently.



The Building Regulations 2010 (as amended) Wales None presently.



The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at www.labss.org

Non-Regulatory Information



LABC Warranty

The use of the JUWO Poroton ThermoPlan System has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to technical.services@labcwarranty.co.uk

Supporting Documentation

MFPA (Official Laboratory Testing Centre 0992 - DAkkS accredited testing laboratory) – thermal resistance of dried masonry MFPA (Official Laboratory Testing Centre 0992 - DAkkS accredited testing laboratory) – confirmation of accreditation to EN 17025

BCCA (Belgian Construction Certification Association) - certificate of conformity

CERT Baustoffe GmbH - certification of conformity with EN 771-1:2011

IZF Test Report for shrinking/expansion - (in German)

Certificate of Performance/Declaration of Performance

JUWO Poroton ThermoPlan System manufacturer's product information manual - current edition

JUWO cold-bridge catalogue detail excerpts

Contact Information

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