UNIKASSEL VERSITÄT

Fachbereich 6 – Architektur, Stadtplanung, Landschaftsplanung
Fachgebiet Bauphysik
Univ.-Prof. Dr.-Ing. Anton Maas

Certificate

Thermal - hygric aging of the adhesive Knauf Insulation HOMESEAL LDS Solimur 310 bonded to the Vapor control layers HOMESEAL LDS 100, HOMESEAL LDS 2 Silk and HOMESEAL LDS FlexPlus

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Test certificate for:	Knauf Insulation GmbH Heraklithstrasse 8 84359 Simbach am Inn
Certification Authority:	University of Kassel, Department of Building Physics
Subject of the test:	The subject of the examination is the durability of the bonding of adhesives to films and wood. The product marketed by Knauf Insulation GmbH, adhesive composition „HOMESEAL LDS Solimur 310“ is adhered to the reference substrates: – Beechwood plates according to DIN EN 204/205 – boPET-film 50 µ highly transparent, biaxially stretched as well as the vapor control layers: – HOMESEAL LDS 100 – HOMESEAL LDS 2 Silk – HOMESEAL LDS FlexPlus and subjected to artificial aging to test the durability of the bond. The bonding of the samples is horizontal with a contact pressure of 20 N. The sample width is 25 mm. The bonded area is 25 x 25 mm. The bonding with beech wood are subjected to the 180° peel test, the bonding with films to the T-peel test. The peel tests are implemented at a peeling rate of 10 mm / minute and 100 mm / minute before and after artificial aging.
Artificial aging:	The duration of conditioning is 120 days. Artificial aging takes place acc. ASTM D 3611 in a climate of 65 °C air temperature and 80 % relative humidity. The test is carried out according to the draft DIN 4108-11 (October 2015) "Minimum requirements to the durability of bond strength with adhesive tapes and adhesive masses for the establishment of airtight layers".

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Test results:	The stress caused by accelerated aging for 120 days did not lead to any failure of any of the adhesives tested. All tested combinations meet the requirements of DIN 4108-11 (Draft 10/2015).
Test report:	655005

Kassel, November 2017

Univ.-Prof. Dr.-Ing. Anton Maas
(Head of the test center)

Dipl.-Ing. Rolf Gross
(Test Conductor)