REPORT

Issued by an Accredited Testing Laboratory

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Allemann GmbH
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Determination of Thermal Transmittance According to EN 12428:2013

Rev: Psi-value for glass edges and the Ud -value have been changed
(3 appendices)

Work requested

The thermal transmittance (U_D) for an entrance door made of wood was to be calculated. Heat losses are calculated based on the drawings and material data supplied by the client (appendix3).

Test object

Client:	Allemann GMBH
Size:	Complete door 1085 x 2185 mm , Window 652 x 630mm
Type of door:	Entrance door
Type of glazing:	2-fold insulating glass 24mm Ug=1,1
Drawings:	250772 POS 3

Calculation and test methods

Calculations where performed according to EN 12428:2013. The THERM 7.4 software was applied when calculating linear heat losses.

Profiles and panels are calculated according to EN 10077-2:2012. Areas and definition of joints are made according to EN 12631:2012. Point bridges and hardware components with has neglectable influence are calculated according to EN 10211:2017.

Values of the thermal conductivity and applied boundary conditions are shown in appendix 1.

Calculation result

Type	Door daylight size (W x H)	U_D
Entrance door	1085 x 2185 mm	1.2 W/(m^{2}K)

The calculations that are only valid for the calculated positions are shown in greater detail in appendix 2.

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Appendices
1 Material data and boundary conditions
2 Calculation of thermal transmittance
3 Drawings