

# DECLARATION OF PERFORMANCE

Date of issue: 19/08/2020  
Replaces: DoP-20200115-24 of: 15/01/2020

## No. DoP-20200115-24

1	<b>Unique identification code(*) of the product-type: SLIMVAC®</b> (*):as given on the backside of each thermal insulation board																																												
2	<b>Intended uses</b> as given in the ETA 13/1026: Vacuum insulation panel (VIP) consisting of a micro-porous core of amorphous silica enclosed by a multi-layer film, used as a thermal insulation board for insulation of roofs, walls, floors and doors in buildings in new construction and in renovation, under normal humidity and temperature conditions within the walls in the internal part of buildings: - insulation at the inside of walls, - insulation of non-heating ceilings, - insulation of flat roofs and pitched roofs (in association with another thermal insulation on the outside face), - insulation under screed (except for floors with in-floor heating for which complementary insulation is required), - insulation underneath the flooring (without in-floor heating). A protection needs to be installed between the vacuum insulation panel and the interior of the building. The vacuum insulation panel is to be installed protected from all humidity and liquid water.																																												
3	<b>Name and contact address of the manufacturer:</b> <div style="text-align: center;">           MICROTHERM NV            Industriepark Noord 1            9100 SINT-NIKLAAS            Belgium            www.promat-hpi.com         </div>																																												
4	<b>Authorised representative:</b> not applicable.																																												
5	<b>System or systems of Assessment and Verification of Constancy of Performance (AVCP):</b> system 3																																												
6a	<b>The construction product is not covered by a harmonised standard (hEN).</b>																																												
6b	<b>The declaration of performance concerns a construction product for which a European Technical Assessment has been issued.</b> For the thermal insulation board product SLIMVAC®, an ETA has been issued by CSTB, France with N° ETA 13/1026 This ETA has been issued according to EAD 040011-00-1201 "Vacuum insulation panels (VIP) with factory applied protection layers, December 2017". Notified product certification body: No. 0679																																												
7	<b>Declared performance</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Essential characteristics</th> <th style="width: 10%;">AVCP systems</th> <th style="width: 40%;">Performance</th> <th style="width: 15%;">Harmonised technical specification</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>BWR1: Mechanical resistance and stability: not applicable.</b></td> </tr> <tr> <td colspan="4"><b>BWR2: Safety in the case of fire:</b></td> </tr> <tr> <td>Reaction to fire:</td> <td style="text-align: center;">-</td> <td>NPD (No Performance Determined).</td> <td>EAD 040011-00-1201</td> </tr> <tr> <td colspan="4"><b>BWR3: Hygiene, health and the environment: not applicable</b></td> </tr> <tr> <td colspan="4"><b>BWR4: Safety and accessibility in use: not applicable</b></td> </tr> <tr> <td colspan="4"><b>BWR5: Protection against noise: not applicable</b></td> </tr> <tr> <td colspan="4"><b>BWR6: Energy economy and heat retention:</b></td> </tr> <tr> <td>Thermal conductivity:</td> <td style="text-align: center;">3</td> <td> <math>\lambda_{90/90}</math> = 4,76 mW/m.K  <math>\Delta\lambda_a</math> = 0,58 mW/m.K  <math>\lambda_D</math> heart = 5,34 mW/m.K  <math>\lambda_D</math> panel = 5,87 mW/m.K         </td> <td rowspan="3" style="text-align: center; vertical-align: middle;">EAD 040011-00-1201</td> </tr> <tr> <td>Thermal resistance</td> <td style="text-align: center;">3</td> <td>           Thickness / <math>R_D</math>            10 mm / 1,70 m<sup>2</sup>.K/W            20 mm / 3,40 m<sup>2</sup>.K/W            25 mm / 4,26 m<sup>2</sup>.K/W            30 mm / 5,11 m<sup>2</sup>.K/W            40 mm / 6,81 m<sup>2</sup>.K/W         </td> </tr> <tr> <td>Thickness</td> <td style="text-align: center;">3</td> <td>20 +1/-2 mm</td> </tr> </tbody> </table>			Essential characteristics	AVCP systems	Performance	Harmonised technical specification	<b>BWR1: Mechanical resistance and stability: not applicable.</b>				<b>BWR2: Safety in the case of fire:</b>				Reaction to fire:	-	NPD (No Performance Determined).	EAD 040011-00-1201	<b>BWR3: Hygiene, health and the environment: not applicable</b>				<b>BWR4: Safety and accessibility in use: not applicable</b>				<b>BWR5: Protection against noise: not applicable</b>				<b>BWR6: Energy economy and heat retention:</b>				Thermal conductivity:	3	$\lambda_{90/90}$ = 4,76 mW/m.K $\Delta\lambda_a$ = 0,58 mW/m.K $\lambda_D$ heart = 5,34 mW/m.K $\lambda_D$ panel = 5,87 mW/m.K	EAD 040011-00-1201	Thermal resistance	3	Thickness / $R_D$ 10 mm / 1,70 m <sup>2</sup> .K/W 20 mm / 3,40 m <sup>2</sup> .K/W 25 mm / 4,26 m <sup>2</sup> .K/W 30 mm / 5,11 m <sup>2</sup> .K/W 40 mm / 6,81 m <sup>2</sup> .K/W	Thickness	3	20 +1/-2 mm
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		25+1/-2 mm 30+1/-2 mm 40+1/-3 mm	EAD 040011-00-1201
Water vapour resistance	3	Sd = 4700 m W = 4,19E10-14 kg/m <sup>2</sup> .s.Pa	
Squareness	3	≤ 5 mm/m	
Flatness	3	S <sub>max</sub> ≤ 5 mm/m.	
Apparent density	3	160 to 210 kg/m <sup>3</sup>	
Mass per square metre of the multilayer high barrier foil of the VIP	3	>108 g/m <sup>2</sup>	
Length and width	3	Length x width (tolerance) 300 mm x 400 mm (+1/-4 mm) 400 mm x 600 mm (+1/-4 mm) 1300 mm x 600 mm (+1/-6 mm)	
Oxygen permeability of the multilayer high barrier foil of the VIP	3	NPD (No Performance Determined).	
Compressive stress / strength at 10 % deformation	3	σ <sub>10%</sub> ≥ 180 kPa	
Dimensional stability under specified temperature and humidity	3	Less than ±1% on length and width between -2% and +1 % on thickness	
Deformation under specified load and temperature	3	NPD (No Performance Determined).	
Tensile strength of the multilayer high barrier foil of the VIP	3	≥ 80 MPa (before ageing) ≥ 65 MPa (after ageing)	
Internal pressure	3	≤ 5 mbar	
Tensile strength perpendicular to the faces of the thermal insulation boards	3	NPD (No Performance Determined).	
Behaviour under point load	3	PL(5) ≥ 1050 N	
Shear strength of the thermal insulation boards	3	NPD (No Performance Determined).	
<b>BWR7: Sustainable use of natural resources: not applicable</b>			
		NPA (No Performance Assessed).	EAD 040011-00-1201
8	<b>Appropriated Technical Documentation and/or Specific Technical Documentation.</b>		
		Not applicable (art 36, 38 of the CPR)	EAD 040011-00-1201

The performance of the product identified above is in conformity with the set of declared performance/s.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

The reader of this document is invited to visit the website "www.promat-ce.eu" to review the latest version of this DoP.

The Safety Data Sheet (SDS) of SLIMVAC® is available on request.

Signed for and on behalf of the manufacturer by:

Name: Julien Soulhat  
Function: Global Approval Manager, Etex Building Performance.

Tisselt, 19/08/2020.

Signature:

