## Declaration of performance

purenit



40231.CPR.2021.09 Unique identification code of the product type purenit C Thermal insulation in buildings and construction applications Intended use 2. including floors, walls and roofs, for construction elements with no contact to water and soil puren gmbh Rengoldshauser Straße 4 - DE-88662 Ueberlingen - Germany 3. Manufacturer t +49 7551 80990 - f +49 7551 809920 - www.puren.com Systems(s) of assessment and verification of constancy of System 1 reaction to fire 5. System 3 all other features Harmonised standard not available Notified authorities 0672 reaction to fire 6. 0751 all other features European technical evaluation / Registration ETA-18/0604 Deutsches Institut für Bautechnik (DIBt) 8. technical assessment body Kolonnenstraße 30 B, DE-10829 Berlin Declared Performance Essential characteristics C-s2,d0 Reaction to fire Thermal conductivity  $\lambda_D =$ 0,096 W/(m·K)  $d_N \le 40 \text{ mm}$  $\lambda_{\text{D}} =$ W/(m·K)  $40~\text{mm} < d_{N} \leq 60~\text{mm}$  $\lambda_{\text{D}} =$ W/(m·K)  $d_N > 60 \text{ mm}$  $\lambda_D =$ W/(m·K) Table 1 at nominal thickness Thermal resistance at nominal thickness at nominal thickness  $d_N$  [mm]  $d_N \ [mm]$  $R_D \; [m^2 \cdot K/W]$ R<sub>D</sub> [m<sup>2</sup>·K/W]  $R_D$  [m<sup>2</sup>·K/W] d<sub>N</sub> [mm] 0.20 20 0.30 30 0,40 40 0,50 50 0,60 0.70 70 0.80 80 Calculate with  $R_D = d_N / \lambda_D$ For other thicknesses: Coversion for humidity mass-based moisture content at 23°C / 50% rel. humidity U 23/50 Performance not assessed at 23°C / 80% rel. humidity U 23/80 Performance not assessed mass-based moisture conversion fu Performance not assessed coefficient Coversion for humidity F<sub>m (23/50-23/80)</sub> Performance not assessed (23°C / 50% rel. humidity to at 23°C / 80% rel. humidity) Water absorption by short term, partial immersion  $W_p \leq 0.5 \text{ kg/m}^2$ by long-term, partial or complete immersion Performance not assessed Hygroscopic sorption characteristics u ≤ 3.0 Mass-% Moisture absorption (desorption) at 23 °C / 80 % relative humidity Water vapor diffusion  $\mu = 8$ Compressive strength 7100 kPa Tensile strength perpendicular to panel plane 800 kPa Flexural strength Performance not assessed Shear strength Performance not assessed Deformation with defined pressure and temperature load Performance not assessed Creep behaviour under compressive stress Performance not assessed Bulk density 550 kg/m<sup>3</sup> +40 / -40 Nominal thickness  $d_N = 20 - 80 \text{ mm}$ Nominal length 6000 mm ±8 Nominal width +5 1350 mm Perpendicularity S<sub>b</sub> ≤ 2 mm Surface flatness after one-sided humification Performance not assessed Dimensional stability Performance not assessed

NPD: No Performance Determined

The performance of the product identified above is in conformity with the declared performances. The above manufacturer is solely responsible for this declaration of performance in accordance with Annex III of Regulation (EU) No. 305/2011.

## Declaration of performance

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purenit



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Signed for and on behalf of the manufacturer by

Dr. Andreas Huther Executive Director Ueberlingen, 01.09.2021

J. 1/2/2/2