

Declaration of Conformity (DoC) No. DE92318-2022-09

Trade name of the construction product:

"QASA-D" und "QASA-N" Thermal insulation boards - BauderVIP TE as product combination

Product family to which the construction product belongs:

Area Code 4, Vacuum insulation panels (VIP) with factory applied protection layers

Intended uses:

The thermal insulation boards are used für the thermal insulation of walls, ceilings, floors and roofs in buildings

Manufacturer: VARIOTEC GmbH & Co.KG, Weissmarter Str. 3, D 92318 Neumarkt, Moosweg 12, 92318 Neumarkt

System of AVCP: System 3

UK Assessment Document: UKAD 040011-00-1201

UK Technical Assessment: UKTA-0836-22/6094 of 28/09/2022



Technical Assessment Body: British Board of Agreement BBA, Watford UK No. 878293

| declared performance Essential characteristic | Performance |
|---|--|
| Reaction to fire of the thermal insulation boards test acc. to EN ISO 11925-2:2010 and EN 13823:2010+A1:2014 | Class E acc.to EN 13501-1:2018 |
| Thermal conductivity test acc. to to EN 12667:2001 acc.to a.m. EAD "QASA-N" without facings | Declared value of thermal conductivity $\lambda_D = 0,0072 \text{ W}/(\text{m}\cdot\text{K})$ with $\lambda_D = (\lambda_{90/90} + \Delta\lambda_a) \times F_{tb}$ |
| Aging supplement | $\Delta\lambda_a = 0,0021 \text{ W}/(\text{m}\cdot\text{K})$ |
| Correcting factor for the thermal bridge effect | $F_{tb} = 1,10$ |
| Thermal conductivity before aging an without consideration of the thermal bridge effect of edge area Nominal thickness: 20 mm to 50 mm | $\lambda_{90/90} = 0,0044 \text{ W}/(\text{m}\cdot\text{K})$ |
| Water vapor resistance | No performance assessed |
| Nominal thickness test acc.to EN 823:2013 - 20 mm to 50 mm | -3mm/+5mm oder ^{b)} +5% |
| Nominal length test acc. To EN 822:2013 | $\geq 400 \text{ mm} \pm 2 \%$ |
| Nominal width test acc. to EN 822:2013 | $\geq 300 \text{ mm} \pm 1,5 \%$ |
| Squareness test acc. to EN 825:2013 | $S_b \leq 5 \text{ mm}/\text{m}$ |
| Flatness test acc. to EN 825:2013 | $\leq 6 \text{ mm}$ |
| Density test acc. To EN 1602:2013 | $190 \text{ kg}/\text{m}^3$ to $220 \text{ kg}/\text{m}^3$ |
| Mass per unit area of the multilayer high barrier foil | $\geq 110 \text{ g}/\text{m}^2$ |
| Oxygen permeability of the multilayer high barrier foil | No performance assessed |
| Compressive stress at 10 % deformation test acc. to EN 826:2013 | QASA N = $\sigma_{10\%} \geq 170 \text{ kPa}$ QASA D = $\sigma_{10\%} \geq 190 \text{ kPa}$ |
| Deformation under specified load and temperature test acc. To EN 1605:2013 | $\leq 2,0 \%$ |
| Dimensional stability under specified temperatur an humidity test acc. to EN 1604:2013 | $\leq 1,0\%$ |
| Internal pressure of the VIP test acc.to EAD (clause 2.2.15) | $\leq 3 \text{ mbar}$ |
| Tensile strenght perpendicular to the faces (with or without facings) test acc. to EN 1607:2013 | $\geq 60 \text{ kPa}$ |
| Behavior under point load | No performance assessed |
| Shear strength of the thermal insulation board | No performance assessed |

The performance of the above product corresponds to the declared performance.

This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 on the basis of: UKAD 040011-00-1201 for "Vacuum insulation panels (VIP) with factory applied protection layers"

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Place: D-92318 Neumarkt Date: XX.XX.XXXX

Unterschrift: **X**