

DECLARATION OF PERFORMANCE
No. ETICS - BIOPANOPLY EPS

1. Unique identification code of the product-type: **BIOPANOPLY EPS**
2. Intended use/es: **External Thermal Insulation Composite Systems (ETICS) with rendering, insulation product – expanded polystyrene (EPS), for the use as external insulation of building walls.**
3. Manufacturer: **EAGLE S.A./ AETOS A.E.**
INDUSTRIAL, COMMERCIAL & TRANSPORT COMPANY
BRANCH: BUILDING PRODUCTS PRODUCTION PLANT “MARMODOM”
INDUSTRIAL PARK OF PROSOTSANI, GR 66200 DRAMA, GREECE.
4. System/s of AVCP: **System 2+**
5. European Assessment Document: **EAD 040083-00-0404, released on January, 2019**

European Technical Assessment: **ETA 20/0778 issued on 02/10/2020**

Technical Assessment Body: **TECHNICAL AND TEST INSTITUTE FOR CONSTRUCTION PRAGUE**

Notified body/ies: **EUROPEAN INSPECTION AND CERTIFICATION COMPANY SA - EUROCERT SA, N. 1128**

6. Declared performance/s:

Essential characteristics	Performance
Reaction to Fire:	NPD
Water absorption:	Water absorption of the base coat and rendering system: < 0.5 kg/m ² after 24 hours (see ETA 20/0778, Cl. 3.2.1, Table No 2).
Water tightness of the ETICS: Hygrothermal behaviour:	Pass without defects.

Water tightness of the ETICS: Freeze -thaw behaviour:	Pass, freeze-thaw resistant.
Impact resistance:	Impact resistance of rendering system: Category II or III (see ETA 20/0778, Cl. 3.2.2.3, Table No 3).
Water vapour permeability:	Water vapour permeability of the rendering system: $S_d \leq 2.0$ m (see ETA 20/0778, Cl. 3.2.3, Table No 4). Water vapour permeability of the insulation product: According to the DoP of the insulation product (see ETA 20/0778, Annex No 1).
Release of dangerous substances:	NPD
Bond strength between base coat and insulation product:	Initial state: bond strength ≥ 0.08 MPa After hygrothermal cycles: bond strength ≥ 0.080 Mpa After freeze-thaw cycles: test not required (see Cl. 3.2.1 of ETA 20/0778)
Bond strength between adhesive and substrate:	Initial state: ≥ 0.25 MPa 48 h. immersion in water + 2 h at 23 ⁰ C/50% RH: ≥ 0.08 MPa 48 h immersion in water + 7 days at 23 ⁰ C/50% RH: ≥ 0.25 Mpa
Bond strength between adhesive and insulation product:	Initial state: ≥ 0.08 MPa 48 h. immersion in water + 2 h at 23 ⁰ C/50% RH: ≥ 0.03 MPa 48 h immersion in water + 7 days at 23 ⁰ C/50% RH: ≥ 0.08 Mpa
Tensile strength perpendicular to the faces of insulation product:	TR150 (see ETA 20/0778 Annex No 1).
Shear strength and Shear modulus of elasticity of insulation product:	Shear strength: ≥ 60 kPa Shear modulus of elasticity: ≥ 1648 kPa (see ETA 20/0778 Annex No 1).

Bond strength after ageing:	After ageing by hygrothermal cycles: bond strength ≥ 0.08 MPa. (cohesive failure in the insulation product). After freeze-thaw cycles: not needed (see Cl. 3.2.2.2 of ETA 20/0778).
Fixing strength:	Test not required (no limitation of ETICS length).
Render strip tensile test:	The width of cracks in reinforced base coat at 2% elongation is equal or lower than 0.25 mm. See ETA 20/0778 section 3.3.6 table No 7
Airborne sound insulation:	NPD
Thermal Resistance:	See ETA 20/0778 section 3.5.1
Sustainable use of natural resources:	NPD

The product performances above declared refers to the system as described in ETA 20/0778 of 02/10/2020, Table No 1: compositions of the ETICS.

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.

Signed for and on behalf of the manufacturer by:

At: Prosotsani, Drama, Greece

on 01/02/2023


Athanasios Lazaridis
Q.C. / R&D Manager



REACH information on the components of the product:

Insulation boards, fixings, Glass fibre mesh are article in accordance with Article 3 of the REACH Regulation (EC) no. 1907/2006 and pursuant to Article 31 and 33 of the above-mentioned Regulation does not require any Safety Data Sheet. While using the product, pay attention to the recommendations written in the Technical Data Sheet and to the safety requirements laid down in the workplace.

For all the other components the information referred to Article 31 or, as appropriate, to Article 33 of the REACH Regulation (EC) no. 1907/2006 and following amendments are indicated in the safety data sheet.

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EAGLE S.A INDUSTRIAL, COMMERCIAL & TRANSPORT COMPANY BRANCH: BUILDING PRODUCTS PRODUCTION PLANT "MARMODOM" Industrial park of Prosotsani, 66200 Drama, Greece.	
DoP No.: ETICS - BIOPANOPLY EPS EAD 040083-00-0404	
BIOPANOPLY EPS External Thermal Insulation Composite Systems (ETICS) with rendering, insulation product – expanded polystyrene (EPS), for the use as external insulation of building walls.	
Reaction to Fire: Water absorption: Water tightness of the ETICS: Hygrothermal behaviour: Water tightness of the ETICS: Freeze -thaw behaviour:	NPD Water absorption of the base coat and rendering system: < 0.5 kg/m ² after 24 hours (see ETA 20/0778, Cl. 3.2.1, Table No 2). Pass without defects. Pass, freeze-thaw resistant.

<p>Impact resistance:</p>	<p>Impact resistance of rendering system: Category II or III (see ETA 20/0778, Cl. 3.2.2.3, Table No 3).</p>
<p>Water vapour permeability:</p>	<p>Water vapour permeability of the rendering system: $S_d \leq 2.0$ m (see ETA 20/0778, Cl. 3.2.3, Table No 4). Water vapour permeability of the insulation product: According to the DoP of the insulation product (see ETA 20/0778, Annex No 1).</p>
<p>Release of dangerous substances:</p>	<p>NPD</p>
<p>Bond strength between base coat and insulation product:</p>	<p>Initial state: bond strength ≥ 0.08 MPa After hygrothermal cycles: bond strength ≥ 0.080 Mpa After freeze-thaw cycles: test not required (see Cl. 3.2.1 of ETA 20/0778).</p>
<p>Bond strength between adhesive and substrate:</p>	<p>Initial state: ≥ 0.25 MPa 48 h. immersion in water + 2 h at 23°C/50% RH: ≥ 0.08 MPa 48 h immersion in water + 7 days at 23°C/50% RH: ≥ 0.25 Mpa</p>
<p>Bond strength between adhesive and insulation product:</p>	<p>Initial state: ≥ 0.08 MPa 48 h. immersion in water + 2 h at 23°C/50% RH: ≥ 0.03 MPa 48 h immersion in water + 7 days at 23°C/50% RH: ≥ 0.08 Mpa</p>
<p>Tensile strength perpendicular to the faces of insulation product:</p>	<p>TR150 (see ETA 20/0778 Annex No 1).</p>
<p>Shear strength and Shear modulus of elasticity of insulation product:</p>	<p>Shear strength: ≥ 60 kPa Shear modulus of elasticity: ≥ 1648 kPa (see ETA 20/0778 Annex No 1).</p>
<p>Bond strength after ageing:</p>	<p>After ageing by hygrothermal cycles: bond strength ≥ 0.08 MPa. (cohesive failure in the insulation product). After freeze-thaw cycles: not needed (see Cl. 3.2.2.2 of ETA 20/0778).</p>

Fixing strength:	Test not required (no limitation of ETICS length).
Render strip tensile test:	The width of cracks in reinforced base coat at 2% elongation is equal or lower than 0.25 mm. See ETA 20/0778 section 3.3.6 table No 7
Airborne sound insulation:	NPD
Thermal Resistance:	See ETA 20/0778 section 3.5.1
Sustainable use of natural resources:	NPD