

DECLARATION OF PERFORMANCE
No. ETICS - BIOPANOPLY WOOL

1. Unique identification code of the product-type: **BIOPANOPLY WOOL**
2. Intended use/es: **External Thermal Insulation Composite Systems (ETICS) with rendering, insulation product – mineral wool (MW), 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 20/0699 issued on 21/09/2020**

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 20/0699, Cl. 3.2.1, Table No 2). Water absorption of the insulation product: According to the DoP of the insulation product (see ETA 20/0699 Annex No 1).
Water tightness of the ETICS: Hygrothermal behaviour:	Pass without defects.

<p>Water tightness of the ETICS: Freeze -thaw behaviour:</p>	<p>Pass, freeze-thaw resistant.</p>
<p>Impact resistance:</p>	<p>Impact resistance of rendering system: Category II or III (see ETA 20/0699, Cl. 3.2.2.3, Table No 3).</p>
<p>Water vapour permeability:</p>	<p>Water vapour permeability of the rendering system: $S_d \leq 1.0$ m for all finishing coats, except of EASYROLL where is $S_d \leq 2.0$ m (see ETA 20/0699, Cl. 3.2.3, Table No 4). Water vapour permeability of the insulation product: According to the DoP of the insulation product (see ETA 20/0699, 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, cohesive failure in the insulation product. After hygrothermal cycles: bond strength ≥ 0.08, Mpa, cohesive failure in the insulation product. After freeze-thaw cycles: ≥ 0.08, Mpa, cohesive failure in the insulation product.</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, cohesive failure in the insulation product. 48 h. immersion in water + 2 h at 23°C/50% RH: ≥ 0.03 Mpa, cohesive failure in the insulation product. 48 h immersion in water + 7 days at 23°C/50% RH: ≥ 0.08 Mpa, cohesive failure in the insulation product.</p>
<p>Tensile strength perpendicular to the faces of insulation product:</p>	<p>In dry conditions: TR10, according to the DoP of the insulation product (see ETA 20/0699 Annex No 1). In wet conditions: ≥ 5 kPa, according to the DoP of the insulation product (see ETA 20/0699 Annex No 1).</p>

Bond strength after ageing:	After ageing by hygrothermal cycles: bond strength \geq 0.08 MPa, (cohesive failure in the insulation product). After freeze-thaw cycles: <ul style="list-style-type: none"> ✓ For finishing coat "MARMOPLASTER MOSAIC", bond strength \geq 0.08 MPa, (cohesive failure in the insulation product). ✓ For all the others finishing coats, not needed (see Cl. 3.2.2 of ETA 20/0699).
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 20/0699 section 3.3.6 table No 7
Airborne sound insulation:	NPD
Thermal Resistance:	See ETA 20/0699 section 3.5.1
Sustainable use of natural resources:	NPD

The product performances above declared refers to the system as described in ETA 20/0699 of 21/09/2020, 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 WOOL EAD 040083-00-0404	
BIOPANOPLY WOOL External Thermal Insulation Composite Systems (ETICS) with rendering, insulation product – mineral wool (MW), for the use as external insulation of building walls.	
Reaction to Fire: Water absorption: Water tightness of the ETICS: Hygrothermal behaviour:	NPD Water absorption of the base coat and rendering system: < 0.5 kg/m ² after 24 hours (see ETA 20/0699, Cl. 3.2.1, Table No 2). Water absorption of the insulation product: According to the DoP of the insulation product (see ETA 20/0699 Annex No 1). Pass without defects.

<p>Water tightness of the ETICS: Freeze -thaw behaviour:</p>	<p>Pass, freeze-thaw resistant.</p>
<p>Impact resistance:</p>	<p>Impact resistance of rendering system: Category II or III (see ETA 20/0699, Cl. 3.2.2.3, Table No 3).</p>
<p>Water vapour permeability:</p>	<p>Water vapour permeability of the rendering system: $S_d \leq 1.0$ m for all finishing coats, except of EASYROLL where is $S_d \leq 2.0$ m (see ETA 20/0699, Cl. 3.2.3, Table No 4). Water vapour permeability of the insulation product: According to the DoP of the insulation product (see ETA 20/0699, 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, cohesive failure in the insulation product. After hygrothermal cycles: bond strength ≥ 0.08, Mpa, cohesive failure in the insulation product. After freeze-thaw cycles: ≥ 0.08, Mpa, cohesive failure in the insulation product.</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, cohesive failure in the insulation product. 48 h. immersion in water + 2 h at 23°C/50% RH: ≥ 0.03 Mpa, cohesive failure in the insulation product. 48 h immersion in water + 7 days at 23°C/50% RH: ≥ 0.08 Mpa, cohesive failure in the insulation product.</p>
<p>Tensile strength perpendicular to the faces of insulation product:</p>	<p>In dry conditions: TR10, according to the DoP of the insulation product (see ETA 20/0699 Annex No 1). In wet conditions: ≥ 5 kPa, according to the DoP of the insulation product (see ETA 20/0699 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:</p> <ul style="list-style-type: none"> ✓ For finishing coat "MARMOPLASTER MOSAIC", bond strength ≥ 0.08 MPa, (cohesive failure in the insulation product). ✓ For all the others finishing coats, not needed (see Cl. 3.2.2 of ETA 20/0699).
<p>Fixing strength:</p>	<p>Test not required (no limitation of ETICS length).</p>
<p>Render strip tensile test:</p>	<p>The width of cracks in reinforced base coat at 2% elongation is equal or lower than 0.25 mm. See ETA 20/0699 section 3.3.6 table No 7</p>
<p>Airborne sound insulation:</p>	<p>NPD</p>
<p>Thermal Resistance:</p>	<p>See ETA 20/0699 section 3.5.1</p>
<p>Sustainable use of natural resources:</p>	<p>NPD</p>