

Technical Description of **Ravalysys** ETICS System, certified by **EOTA**, based on **ETAG 004 (ETA 16/0897)**.
RAVALYSYS ETICS SYSTEM

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1. Insulating plates **Graphite Grey or White** Expanded Polystyrene **Polytherm EPS 80 Gray** (coefficient of thermal conductivity $\lambda = 0.031$ or $0,036$ W/ mK), dimensions 600x1000mm, thickness 30-200 mm.
 2. Polyurethane base adhesive after consultation with its technical support systemic.
 3. Furnished cement-based adhesive and basic coating of thermal insulation plates **Ravalysys Bond** .
 4. **KI** external thermal insulation **plugs** for mechanical support of thermal insulation slabs.
 5. Anti-alkaline glass mesh for the reinforcement of the basic coating, width 1000mm, with 5x5 frame opening and weighing 160 gr / m²
 6. Acrylic water primer, **Ravalysys Primer** .
 7. Final coating of ready-made acrylic base plaster, **Ravalysys Plaster** , granulometry and hue according to supervisory requirements.
 8. Fixed angles and angles with water exchanger (made of PVC with glass mesh on both sides), to strengthen the outer corners.
 9. Aluminum support guide with water dropper (width 50 mm)
- In addition to the above, materials and micronutrients are included,
- a. Aluminum guide mounting plugs.
 - b. Plastic driver guide alignment spacers.
 - c. Formative cutters.
 - d. **MasterSeal NP 474** polyurethane sealant sealant of **Basf**
 - e. **Dupon-** Company's **Great Stuff Pro** polyurethane foam

B. Application of the Ravalysys system

1. **Surface preparation - Application temperatures** .

The background should be clean, dry, free of loose materials, powders, oil residues and other foreign bodies. Temperatures during application of the system should be between 5 & 35 ° C.

2. **Install a support guide.** The aluminum guide, 50mm wide, placed parallel to the ground and above it at least 5 mm.

The gap is sealed with **polyurethane** mastic **MasterSeal NP 474** by **Basf**

to avoid water penetration. Driver level is defined by use level thread. An interval of 2-3 is left between successive support guides millimeters (which will receive the shrinkage).

3. **Polytherm EPS 80 Gray thermal insulation board adhesive.** Its paving glue on the thermal insulation board is as follows:

- The application of mineral base adhesive mortar

Ravalysys Bond is applied to the contour and in the middle plate. Total adhesion of the thermal insulation board is recommended in the case of a uniform substrate. If there are gaps between the plates, they should be filled with special foam **DUPON-** Company's **Great Stuff Pro** polyurethane .

- The gluing of the thermal insulation boards starts from one corner of the building in horizontal overlapping layers. Each new series Slab contraction joints should intersect at the openings for columns an arrangement of intermittent vertical joints is achieved. The verticals joints over door or window openings not to formed in continuation of these candles. Immediately after placing each plate on the substrate, check it its leveling, verticalization and flatness.

4. **High Resistance and Waterproofing Zone.** As **Z** oni High **A** Doha **S.** teganosis is defined as a zone around the building height of 60cm. For the creation of the one the series of thermal insulation boards are replaced by Dissolved Polystyrene **Styrofoam ETICS** of **Ravatherm** (thermal conductivity $\lambda = 0,033 \text{ W / mK}$), dimensions 600x1200mm, thickness 50 mm. Before pasting the plate applied around the perimeter of the building at the height of the belt, the elastic smeared 2-component **MasterSeal 545** cement-based waterproofing sealant by **Basf** .

5. **Application of mechanical support plugs.** The plugs are placed 24 hours after the application of thermal insulation boards (5-6 plugs per m^2).

6. **Installation of special reinforcement pieces.** By using the material **Attachments (Ravalysys Bond)** are placed on the special reinforcement pieces external angles (fixed angles and angles with water dropper, from PVC), and specially shaped glass mesh reinforcement mesh and doors.

7. **Ravalysys Bond basic coating coating and installation glass mesh.** The Ravalysys Bond adhesive is also used as the main coating of the system. The base coat is universal on the surface of **Polytherm EPS 80 Gray** thermal insulation boards (and **Styrofoam Etics** in the case of the High Strength and Waterproofing Zone) (with jagged spatula No10) in thickness $\sim 3 \text{ mm}$. The application will be done in strips width $\sim 1.20 \text{ m}$, to then follow the boxing of the amplifier, anti-alkaline glass mesh weighing 160 gr / m^2 . The glass mesh is boxed as much the base coat is still fresh so that it is completely covered. Its stripes Glass should overlap by at least 10 cm. Close on the ground is placed a horizontal double layer of fiberglass (width strip 1 m), for increased strength.

8. **Ravalys Plaster final acrylic coating coating.** As a final coating and after the intermediate reinforcing layer is completely dry, followed by the final coating with colored rubber, resin, **acrylic plaster**

Ravalysys Plaster, granulometry and shade depending on its requirements study. The plaster is applied either by hand (with a plastic spatula or metal American spatula) or with ready-made shot-throwing machine, **since it has preceded substrate priming with a special Ravalysys Primer primer** .