

WALLS INSULATION SYSTEM USING EIFS (EXTERNAL INSULATION FINISHING SYSTEM)



Application Summary

STEP 1: Application of Base plaster of **Ressi PlastoRend 120** over masonry surface.

STEP 2: Application of EPS sheet over base plastered surface with the use of **Ressi Insufix 200**.

STEP 3: Application of fiber glass mesh over the EPS Board using **Ressi Insufix 200**.

STEP 4: Finishing the surface.

Detailed Description

Insulation is the most effective way to improve the energy efficiency of a home, commercial or an industrial space. Insulation of the building envelope helps keep heat in during the winter, but also lets' heat out and cooling inside the structure during summer. If a structure is properly insulated it can easily save up to 60 ~ 70% in heating and cooling costs after installation

An un-insulated structure is subject to considerable winter heat losses and summer heat gains. Ressichem has a variety of products that can use used for the insulation of a roof. The following system describes a Wall insulation system comprising od EPS sheets also known as EIFS (External insulation finishing system).

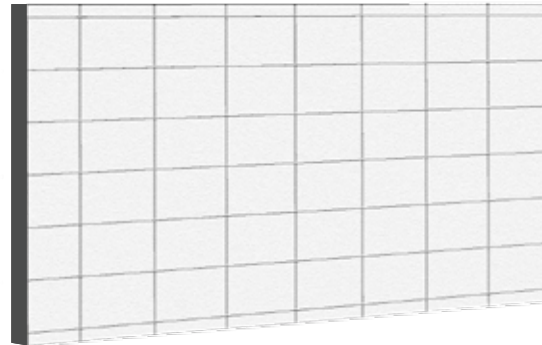
Step 1: Application of Base plaster of Ressi PlastoRend 120 over masonry surface

The base masonry surface should be levelled & straightened out using a base grey plaster. **Ressi PlastoRend 120** can also be used to level the wall surface. Make sure proper protocol for the application of base plaster is followed. (Please refer to our base plaster guide for further information on how to apply proper base plaster).



Step 2: Application of EPS sheet over base plastered surface with the use of Ressi Insufix 200

Once the base plaster has been properly applied and cured, EPS sheets are to be applied using a compatible adhesive of **Ressi Insufix 200**. It is essential to lay the mortar of **Ressi Insufix 200** at a thickness of minimum 8mm in a notched trowel formation and place the EPS over the wet mortar. For further mixing guidelines, and application techniques, please refer to the product technical data sheet. It is essential to make sure that the EPS sheet is properly pressed over the mortar not leaving any hollow space for air. The recommended minimum thickness of the EPS sheet should be at least 2 inches and should have a minimum density of 32 KG / m³. It is also highly recommended to use a flame-retardant EPS sheet. There should not be very wide gaps between the EPS sheets, the sheets be placed as close of each other as possible.

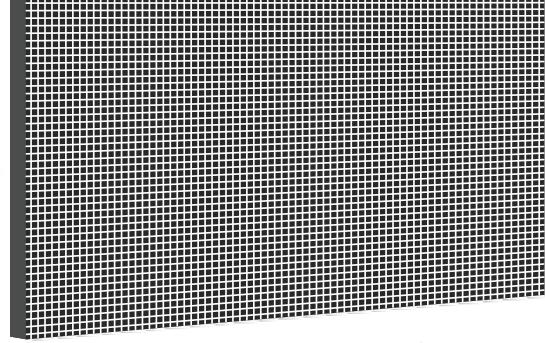


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Step 3: Application of fiber glass mesh over the EPS Board using Ressi Insufix 200

Once the EPS sheets are properly applied over the base plastered surface, a Fiber glass mesh is applied over the EPS sheet using **Ressi Insufix 200**. It is recommended to completely overlap the mortar of **Ressi Insufix 200** over the Fiber Glass mesh so that both mesh and EPS board are covered with the mortar. It is recommended to lay the **Insufix** mortar to at least 2mm over the fiberglass mesh surface.



Step 4: Finishing of the surface.

The ideal recommended finishing material to be used with the EIFS system is **Ressi PlastoRend 110** (Pigmented decorative plaster) protected with **Silblock** (Water Repellent Sealer). Please refer to the application guide for decorative plasters for further information.

Incase there is a requirement of finishes like paints etc. **Paint Guard 10,000 C** can also be applied over the EPS surface treated with fiberglass mesh and **Ressi Insufix 200**. Other finishes like stones, marble, granite and other texture coatings & treatments can also be used for the finishing of the EIFS system.

