

ETICS made of EPS

Façade insulations made of EPS already save fossil resources during the production process, save a huge amount of energy and can also be recycled.

➤ Saving fossil resources

Although polystyrene is an oil-based product, only an extraordinarily small amount of this precious natural resource is required to produce it. This is because expanded polystyrene (EPS) effectively consists of 98 % air and only 2 % polystyrene, the cells which contain the air. For every litre of oil that is used to manufacture EPS building insulation up to 200 litres of heating oil is saved over the life of the product.

➤ Fire Safety

ETICS do not present a fire hazard. A series of façade fire tests (conducted by Vienna Municipal Department 39 among others,) have proved that thermal insulation composite systems with a thickness of 30 cm have a fire resistance rating of 30 minutes.

➤ Durability

Properly installed thermal insulation composite systems have been proven to last for many decades. For some time now, double layer construction has been used to achieve optimal state-of-the-art thermal insulation standards.

➤ Recyclability

Recycling ETICS is nowadays standard practice. Once the render system has been removed (stripping), the insulation boards are removed from the wall and recycled separately, e.g. in pellet form as aggregate for lightweight concrete. Demand for waste EPS in Austria is so high that each year more than 100,000 m³ have to be imported. EPS waste is thermally recycled. Despite this, building rubble that includes EPS waste can be deposited at construction waste dumps and in landfills.

