

EPS has excellent mechanical properties

Although it weighs very little EPS is an extremely stable material: Depending on the type of product, insulation panels can withstand pressures of 1.5 to 6 t/m² (at 2 % deformation). The quality of façade insulation panels depends to a large extent on their tensile strength. This tensile strength – defined as the greatest stress that the material can stand without breaking – is 15 t/m².

- One excellent example that demonstrates the compressive strength of EPS is the construction of road embankments on difficult substrates. The entire Formula 1 course in Shanghai, including the stands, was built on a metre-thick layer of EPS.



Photo: Grandstands for the Shanghai Formula 1 course under construction

- Due to their high horizontal tensile strength, EPS façade insulation panels can easily withstand wind suction forces. On new wall surfaces (building bricks and honeycomb bricks, hollow blocks and solid concrete blocks, cinder blocks, haunching concrete) it is possible to dispense with dowels completely and panels can be mounted using an adhesive.