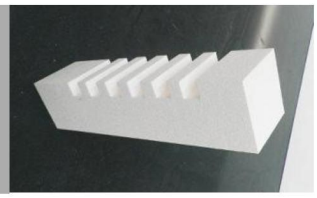
STRUCTURAL FOAM

PRESSURE RESISTANT LIKE CONCRETE,
WITH SUPERIOR **HEAT INSULATION**
AND ASTONISHING **LOW WEIGHT**.



HIGH **RESISTANCE** 15.000 kN/m²

Due to its novel macrostructure, STRUCTURALFOAM exhibits compressive strength far beyond that of conventional lightweight construction and heat insulation materials.

MODULAS OF **ELASTICITY**

Strain does not exceed 2% under characteristic load

COMPLETELY **ISOTROPIC**

The structure of STRUCTURALFOAM is completely isotropic meaning that the material properties are equal in all directions. The high resistance values result exclusively from its optimized, non orientated macro cell structure. Therefore, the material can withstand multi-directional loads without any problem.

EXCELLENT **HEATINSULTION** 0.04 W/m K

In spite of its high mechanical resistance, STRUCTURALFOAM exhibits heat insulation characteristics analogous to conventional insulation materials.

LOW **WATER ABSORPTION CAPACITY** 5 %

Even when completely submerged STRUCTURALFOAM does not absorb more than 5—10 % moisture. Consequently, STRUCTURALFOAM's insulation performance is barely affected by humidity of the surroundings. Subsequently, STRUCTURALFOAM is highly resistant to freezing.

DUCTILE **MATERIAL** > 10 %

STRUCTURALFOAM can bear strains beyond 10%. Thus, protruding features present along an uneven surface will be absorbed without damage. For example, small stones will be integrated locally into the material without damaging the component..

DIMENSIONAL STABILITY

STRUCTURALFOAM is resistant to freezing independent of reoccurring freezing and thawing events in the same manner that STRUCTURALFOAM is not affected by exposure to humidity and water. Rigidity and heat insulation performance do not change even after repeated freezing and thawing events

RESISTANCE TO **FREEZING**

STRUCTURALFOAM always maintains its original dimensions. Even under continuously changing environmental conditions deformation does not take place.

SCREWABLE

STRUCTURALFOAM is ideal for screwing . Standard wood screws achieve high extraction force. No pre drilling required.

FIRE BEHAVIOUR **EUROCLASS** E **FIRE RESISTANCE CLASS** R0

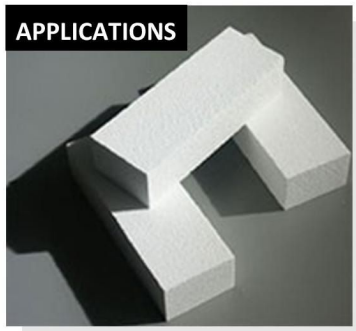
Tested according to current standards.

PROFILING

STRUCTURALFOAM can be supplied profiled to bespoke requirements. Surface stays always homogenous. Different densities available.

TESTING	Materials tested according to European Norm EN 13163:2008 for its use in construction engineering. This norm regulates precisely how and how often certain technical characteristics must be tested:

APPLICATIONS



WINDOWS

CILL INSULATION

WIDE CAVITIES

HGH STRESS