

Lightweight Structural Voidformers

Specification Data

S and B grade	Fill 13	Fill 21	Fill 45	Fill 70	Fill 90	Fill 100	Fill 120
To BS EN 14933:2007							
Compressive strength at 1% compression [kPa]	10	21	45	70	90	100	120
Compressive strength at 10% compression [kPa]	50	70	100	150	200	250	300
Cross breaking strength/ bending strength [kPa]	75	115	150	200	250	350	450
Shear strength [kPa] in correlation to bending strength	35	55	75	100	125	170	225
Nominal density [kg/m ³]	15	15	20	25	30	35	40
Other Physical properties							
Compressive Modulus [Mpa]	1.0	2.0	4.5	7.0	9.0	10.0	12.0
Compressive Modulus [kN/m ²] at 1% compression	1,000	2,000	4,500	7,000	9,000	10,000	12,000
Thermal conductivity value [W/m K]	0.0430	0.0380	0.0360	0.0350	0.0340	0.0330	0.0330
Max depth of concrete [mm]	415	830	1,875	2915	3750	4165	5000

S and B fill is expanded polystyrene manufactured in accordance with BSEN 14933:2007 and used as a load bearing part of a structure.

Applications include raised doors, ramps, sloping auditoriums for cinemas and also civil engineering applications such as road embankments, abutments and backfill.