

GRC technical data for floor/ wall panles and tiles

Parameter	Unit	Spray method	Casted mix method	Conventional concrete
Glass fiber content in concrete mix	%	5	3	0
Dry density	g/cm ³	1.8-2.2	1.8-2.0	2.2-2.5
Thermal conductivity	W/m*K	0.9-1.5	0.9-1.5	1.0-1.6
Thermal expansion	X10 -6/°C	7-12	7-12	10-14
Frost resistance	Cycle	150	150	<100
Attenuation (flat 9,3 mm panel)	dB	31.2	31.2	31.2
Tension				
Breaking stress (UTS)	MPa	8-11	4-7	1-5
Limit of proportionality (LOP)	MPa	5-7	4-6	1-4
Bending				
Breaking stress	MPa	20-30	10-14	3-6
Limit of proportionality (LOP)	Mpa	7-13	5-8	2-3
Young's modulus	GPa	15-25	13-21	27-35
Shear				
Shear	Mpa	8-11	4-7	3-5
Compressive strength	Mpa	50-80	40-60	15-60
Impact strength	kJ/m ²	10-25	10-15	0.05
Modulus of elasticity	GPa	10-20	10-20	20-40
Drying shrinkage	%	0.6-1.2	0.1-0.2	0.8-1.8

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