

TECHNICAL DATA FIBRANxps		Designation code according to EN 13164	Measurement units	300 - L	400 - L	500 - L	600 - L	700 - L	300 - I	MAESTRO	ETICS GF	ETICS BT	FABRIC	standard
Shape of edge profile				L	L	L	L	L	I	D	L	L	I	
Surface			smooth surface								waffled surface	rough surface with channels	rough surface	
Board's dimensions			mm	1250 /600	1250-2500 /600	1250 /600	1250 /600	1250 /600	1250 /600	2500 /600	1250 /600	2500 /600	upon request	EN 822
Thickness tolerance		Ti		T1	T1	T1	T1	T1	T1	T1	T3	T3	T3	EN 823
Declared compressive strength at 10% deformation		CS(10\Y)i	kPa	300	400	500	600	700	300 <sup>1</sup>	250-300	200-300	200-300	300-700	EN 826
Declared thermal conductivity (after 25 years)	20 mm < d < 30 mm	$\lambda_D$	W/mK	0,033						0,033	0,033		0,033	EN 12667
	40 mm < d < 200 mm			0,035	0,035	0,035	0,035	0,035	0,035	0,035	0,035	0,035	0,035	
Thermal conductivity (after 90 days)		$\lambda$		0,032	0,032	0,033	0,033	0,033	0,032	0,032	0,032	0,032	0,032	
Long term water absorption by total immersion	smooth surface	WL(T)0,7	vol.%	0,3	0,3	0,4	0,4	0,4	0,3	0,3			EN 12087	
	rough surface	WL(T)1,5								≤1,5		≤1,5		≤1,5
Water absorption by diffusion		WD(V)3	vol.%	1,5	1,5	1,2	1,2	1,2	1,5	1,5			EN 12088	
Water vapour diffusion resistance factor		MUi	-	150-50	150-50	150-50	150-50	150-50	150-50	100-50	50	50	50	EN 12086
Declared value of dimensional stability at a temperature of 70°C and of 90% humidity		DS(TH)5	%	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	EN 1604
Declared level of deformation at a compressive load of 40 kPa and a temperature of 70°C		DLT(2)5	%	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	EN 1605
Compressive modulus of elasticity E		-	MPa	20	25	30	35	40	20	15	15	15	15	EN 826
Shear strength $\tau$		-	MPa								0,15	0,15	0,15	EN 12090
Shear modulus G		-	MPa								2,6	2,6	2,6	EN 12090
Tensile strength perpendicular to the faces $\sigma_{mt}$		TR400	kPa								>400	>400	>400	EN 1607
Linear coefficient of thermal expansion $\alpha_{+20/+70^\circ C}$		-	mm/mK	0,075	0,075	0,075	0,075	0,075	0,075	0,075	0,075	0,075	0,075	
Freeze-thaw resistance		FT2		0,5	0,5	0,6	0,6	0,6	0,5	0,5			EN 12091	
Temperature range of use		-	°C	from -50 to +75										
Reaction to fire		-	Class	E										EN 13501-1
				B1										DIN 4102