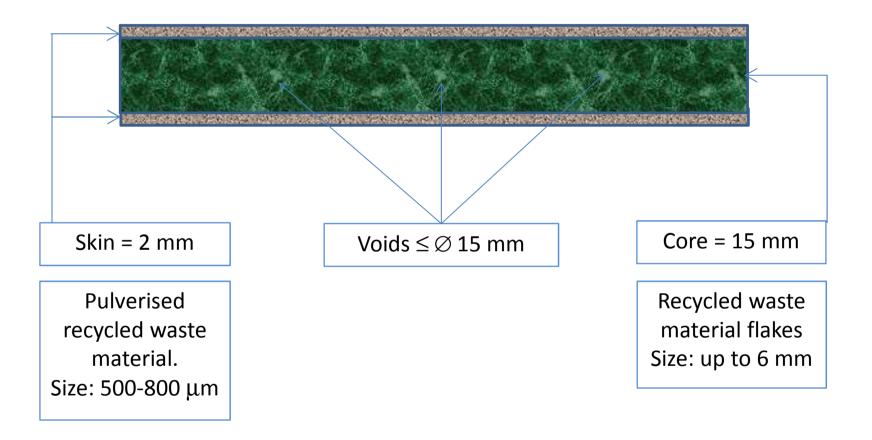
General Technical Information Eco-plaat



1. Product description

Phase structure: amorphous/crystalline





1. The physical properties:

		Standard (not on stock)		European standard		Tolerances	
	[ft]	[mm]]	[m	m]	[%]	
Length	8	2440		24	.00	0,2	
Width	4	1220		12	.00	0,2	
Thickness	0,006	19		19		10	
	Sta	Standard E		uropean standard		Tolerances	
	[[kg]		[kg]		[%]	
Weight	:	30		29		15	
		Eco-plaat			Plywood		
		[kg/m3]			[kg/m3]		
Density		510-590			600-650		
		[dyn/cm]					
Surface tension	on	26-40					



1. The physical properties cont'd:

T _g	T _p	E	G	K	V	R _r	€ _r	U	U _k
° C	° C	GPa	GPa	GPa		MPa	%	kJ/m²	kJ/m²
- 85	133	1,23	0,43	2,3	0,47	23,3	300	b.p.	b.p.

T_a- glassy temperature

T_n- flow temperature

 \vec{E} - coefficient of direct elasticity (Young's modulus)

G - coefficient of rigidity (Kirchhoff's modulus)

K - modulus of volume elasticity (Helmholtz's)

γ - Poisson ratio

R_r- (ultimate)tensile strength

 ε_r - ultimate elongation

U- impact strength

 U_k - notched impact strength

b.p – no fracture

Note: as the material is heterogeneous properties can vary depending on the location of the pannel



2. Usable information:

- Water absorbability : up to 20% depends on number (size) of voids (no influence on overall dimensions). Water fills voids increasing weight but also improves mechanical properties
- Non resistant for ultraviolet radiation ageing
- Painting: General rule is that paint surface tension must be lower than Ecoplaat surface tension. Painted surface should be cleaned and degreased. We don't recomend painting as Eco-plaat is mostly made from PE material which is not suitable for painting.
- Machining: waterjet, laser or typical machines for wood or metal.
 Tools: HSS or cemented carbides (tungstn carbide) with strictly defined tool rake (angle). Cutting, milling and drilling tools parameters see below:

	Saw blade	Milling	Drilling
Tool angle	0-10	0-15	3-5
Clearance angle	10-15	5-15	10-15
Cutting speed	1000-3500 m/min	up to 1000 m/min	50-100 m/min
Number of teeth	24-80		
Feed/tooth		up to 0,5	
Feed/revolution			0,1-0,5
Poin angle			60-90
Helix angle		0-40	12-16

