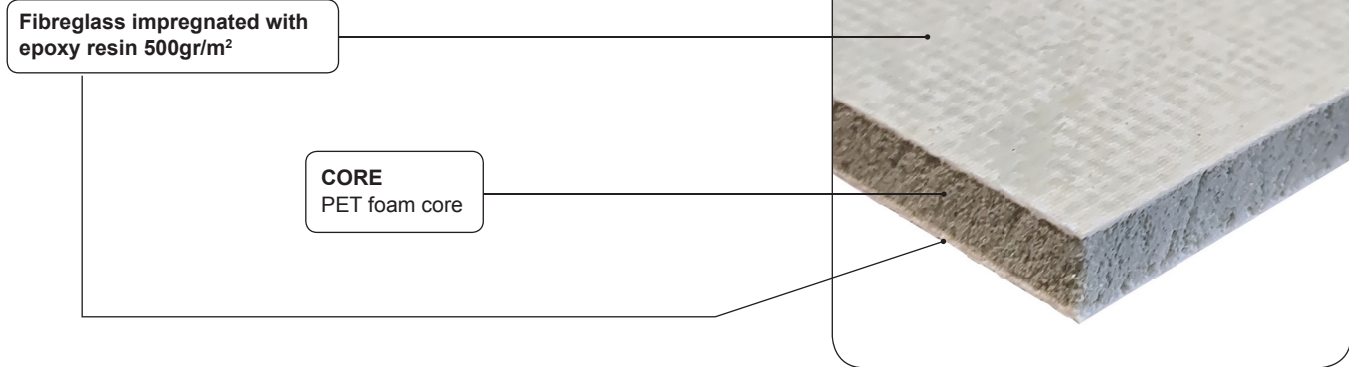


## PET-STEP

### Panel's composition



### Technical data sheet for standard panels (dimensions, materials and special finishes on request)

TECHNICAL CHARACTERISTICS OF PANEL									
panel thickness	mm	from 8 to 60							
panel size	mm	standard 1000x2500 other dimensions available on request							
thickness' tolerance	mm	±0,4							
dimension's tolerance	mm	± 30							
skins' thickness	mm	0,4							
Impregnation		epoxy resin							
glass fibre skin type		Glass fibre Plain 500 gr/m² 600 tex							
core materials		PET foam core							
core thickness	µm	from 7 to 60							
diameter of honeycomb	Ø = mm	from 3 to 19							
core density	Kg/m³	from 40 to 250							
adhesive		two-component epoxy							
PANEL PHYSICAL AND MECHANICAL PERFORMANCES		mm	10	20	30	10	20	30	
panel thickness	mm		10	20	30	10	20	30	
panel weight ‡	Kg/m²		2,9±0,3	3,7±0,3	4,5±0,3	3,4±0,3	4,8±0,4	6,1±0,4	
core material			PET foam core			PET foam core			
foam density	Kg/m³		80			135			
compressive strength	ASTM C 365-365 M	MPa	0,83			2,3			
shear modulus		MPa	16			35			
yield load	ASTM C 393†	N	220	560	800	390	780	1400	
deflection at yield load	ASTM C 393†	mm	16±2	11±1	7±1	26±2	14±2	10±1	
skins E Elastic Modulus**		Mpa	28'000±1'000						
moment of inertia I		mm <sup>4</sup> /m	18'400	76'000	174'000	18'400	76'000	174'000	
middle resistance to peeling **	ASTM D1781		265 N/76mm - 17 Nm/m			300 N/76 mm - 23 Nm/m			
thermal conductivity (referred to foam only)	a 23°C	W/(m·°K)	0,034			0,037			
thermal transmittance U (referred to foam only)	a 23°C	W/(m²·°K)	3,8	1,8	1,2	4,1	2,0	1,3	
service temperature **		°C	- 40/ + 80						

\*\* Tested by Internal Laboratory

\*\*\* Approximate value

† Sample dimension with 4 support points (L, W) 540x50 mm