Declaration of Performance

CDECK Hollow and Solid Board

Physical Characteristics		
Characteristics	Declared values [1]	
	Hollow Profile	Solid Profile
Dimensional tolerances		
- Length	– 5 / + 15 mm	
- Width	+ / – 1 mm	
- Thickness	+ / – 0,7 mm	
Mass per meter and tolerances for decking profiles		
- Mass / m	2,42 kg/m	4,16 kg/m
- Tolerances	+ / – 0,2 kg/m	+ / – 0,2 kg/m
Density and tolerances for WPC of decking profiles		
- Density	1,387 g/cm^3	
- Tolerances	+ / – 0,15 g/cm^3	

Product Performance			
Characteristics	Method	Declared values [1]	
		Hollow Profile	Solid Profile
Reaction to fire	EN ISO 11952-2, EN 13501-1, EN ISO 9239 1	B_{fl} - s1	No performance assessed
Influence of moisture	EN 15534-1		
- Swelling in thickness		2,3%	1,1%
- Water absorption		5,5%	1,9%
Bending strength	EN 310	53 N/mm^2	58 N/mm^2
Modulus of elasticity		6447 N/mm^2	6026 N/mm^2
Impact strength (+23°C/1 kg)	EN 477	15,5 J	> 20 J
Impact strength (–10 ºC / 1 kg)		9,5 J	> 20 J
Slipperiness	EN 15534-1		
- Longitudinal Direction (Dry conditions)		91	
- Longitudinal Direction (Wet conditions)		60 (class 3)	
- Cross direction (Dry conditions)		86	
- Cross direction (Wet conditions)		62 (class 3)	

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Product Performance			
Characteristics	Method	Declared values [1]	
		Hollow Profile	Solid Profile
Pull-through strength of the screw	EN 1383	1890 N	1874 N
Moisture resistance under cyclic conditions	EN 15534-1		
- Decrease of bending strength		f_m = 10,24 % / 17,20 %	f_m = 6,83 % / 20,67%
- Decrease of modulus of elasticity		E_m = 17,97 % / 26,63 %	E_m = 12,76% / 20,74%
UV-radiation resistance Charpy impact strength	EN ISO 4892-2 (Method A) EN ISO 179-1	Before aging: 7,1 kJ/m^2 After aging: 4,6 kJ/m^2	
Surface hardness	EN 1534	106 N/mm^2	108 N/mm^2
Density	EN ISO 1183-1	1,387 g/cm^3	
Thermal resistance R and equivalent Thermal conductivity λ	EN 1266	$R_{10\,(23,\,50)}$ = 0,20 m^2.K/W $\lambda_{10\,(23,\,50)}$ = 0,124 W/m.K	$R_{10\,(23,\,50)}$ = 0,15 m^2.K/W $\lambda_{10\,(23,\,50)}$ = 0,165 W/m.K

Linear Thermal Expansion Coefficient			
Characteristics	Method	Declared values [2]	
		Hollow Profile	Solid Profile
Thermal expansion coefficient (-40°C, 80°C)	ASTM E228 EN821-1	(21,3 ± 0,1) x 10^{-6} K^{-1} (x direction) (50,6 ± 0,8) x 10^{-6} K^{-1} (y diretion)	

IHT assumes a variation of 30% due to the process production and to factors climatic exposure.

[1] Based on the European Technical Assessment ETA 26/0031 dated 27/02/2026

[2] Based on the test report Thermal Expansion of Decking Material 2013020350/1

Soure, June 1, 2026

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