QUALITY CERTIFICATE
CTB WPC DECKING CERTIFICATION

WPC (Wood Polymer Composite) profiles intended for the production of decking on spaced supports.
Non bearing product (pedestrian use only*)

**Are suitable for people traffic. Are not suitable to receive localized concentrated loads applied for long term, except if applied right above the discontinuous substructure (beams, joists, mechanically dimensioned accordingly)*

The product mentioned here is certified by FCBA. It is entitled to the right of use of the Collective Certification Mark CTB WPC Decking under the conditions requested in the General Rules and the Regulations of the Mark. In case of dispute, only the French version of this certificate is the authentic text

PROPERTIES	CHARACTERISTICS
Mechanical properties :	
- *Bending:*	
- Normal conditions (20°C, 65% HR)	Modulus of elasticity at 20°C: E_m = 2496 MPa
	at 60°C: E_m = 1342 MPa
- Limit temperatures conditions (-18°C / + 60°C)	Flexural resistance at 20°C : f_m = 15.7 MPa
	at 60°C : f_m = 8.8 MPa
- After physical ageing	*(characteristic value at 5% exclusion)*
- *Creep resistance at high temperature :*	Creep coefficient : C_f = 3.96 Rate of creep recovery : CR =0.43 Elastic recovery : RE= 20.87
- *Hardness*	Brinell hardness : HB = 60 MPa Recovery rate : Re = 86.4%
Physical properties :	
- *Behavior in terms of dimensional stability in limit temperature and humidity conditions*	Thermal expansion coefficient : δ = 29.9 10^{-6} ($°C^{-1}$) (Lengthwise)
- *Slip resistance*	SRT Indice: Flat grain side Longitudinal : dry : 58.1 / wet :44.1 Transversal : dry : 74.0 / wet :51.3
Characteristics of durability against biological agents	Resistance to wood destroying fungi (resistant to water uptake)
Appearance durability	Stable system according to EN 927-2 (Informative values : chalking : 4 / general aspect: 5)
Relevancy of the information given on the technical documents	
Note : - Only flat grain side on top	

cofrac
CERTIFICATION DE PRODUITS ET SERVICES
ACCREDITATION N° 5-0011 PORTEE DISPONIBLE SUR WWW.COFRAC.FR

NOTE:

This certificate applies only to products labelled with the logo of the mark.

This certificate attests the quality of productions, based on continuous monitoring. It can not prejudge the decisions that could be taken during the year, after examination of the results of this control. The updated lists of the holders of the mark and the list of the certified products are available at FCBA and at www.fcba.fr website.

FCBA, Certification body

For the certification body

Certificate N° 516-14-2474-GB

Date : October 16th, 2014
Valid until December 31th, 2014

LE DIRECTEUR CERTIFICATION
Alain HOCQUET

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ESPECIFICACIONES TÉCNICAS		
TEST	**NORMA**	**RESULTADOS**
Resistencia a la flexión	ASTM D6109	26.3 MPa
Módulo de flexión	ASTM D6109	2620 Mpa
Resistencia a la abrasión	ASTM D4060	33mg
Resistencia al rayado	FLTM BO 162-01:2009	21N
Disminución de la deformación	ASTM D7032	82.20%
Prueba anti-moho	ASTM G21	Class 0
Resistencia al deslizamiento	DIN51130-2010	13.6°, R10
	ASTM D2394	Static : 0.25 Sliding : 0.13
Absorción de humedad	ASTM D1037	0.12%
Dureza Rockwell	ASTM D785-08	78.7R
Resistencia al impacto	ASTM D4226	≥396J
UV1000h	ISO4892-2	ΔE=1.24 Grey scale: 4-5
UV2000h	ISO4892-2	ΔE=2.5 Grey scale : 3-4
Expansión y contracción	ASTM D696-2008	36.6um/m
RoHs	RoHs Detective 2002/95/EC	Pass
VOCs	ASTM D5116	Tolueno, 8.07 ug/m3 Ethyl benzeno, 3.24 ug/m3 m+p-Xyleno, 5.3 ug/m3 Estyreno, 3.19 ug/m3 O-Xyleno, 2.22 ug/m3 TVOC: 24.68ug/m3
Liberación de formaldehidos	EN 717-1	ND (E1)
Formulación	Por declaración	Fibra de madera reciclada 60% Plástico reciclado HDPE 39% Adesivos 1%
Resistencia al fuego	EN 13501-1	Clase Efl
Conductividad termal	EN12667	0.19738 W/m.K