

DECLARATION OF PERFORMANCE

DoP-20150330-05

1 Unique identification code of the product-type:

Siniat DURIPANEL B1 , Cement-bonded particle-board according to EN 13986:2004+A1:2015 / EN 634-2:2007, thickness d=8 mm up to 40 mm, technical class 1.

2 Intended use/es:

Cement-bonded particle-board

for internal use as structural and/or non structural components in dry conditions,

for internal use as structural and/or non structural components in humid conditions,

for external use as non-structural components and

for use as structural floor and roof decking on joists and as structural wall sheathing on stud

3 Manufacturer:

Etex Building Performance International SAS,

500 rue Marcel Demonque, Pôle Technologique Agroparc , CS70088,

84915 Avignon Cedex 9, France

4 Authorised representative:

not applicable

5 System/s of AVCP:

System 2+

6a Harmonised standard, Notified body/ies:

EN 13986:2004+A1:2015

MPA Eberswalde – NB N° 0763

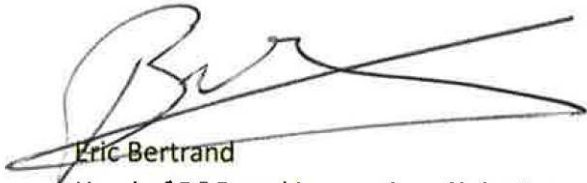
7 Declared performances

Essential Characteristics	Performance	Harmonized technical specification
Density	$\geq 1000 \text{ kg/m}^3$ $\rho_k = 1200 \text{ kg/m}^3$	EN 634-2:2007 EN 13986:2004+A1:2015
Bending strength	$\geq 9 \text{ N/mm}^2$	
Bending stiffness (E-Modul)	$\geq 4500 \text{ N/mm}^2$	
Internal Bond	$\geq 0,5 \text{ N/mm}^2$	
Durability, 24h (Swelling in thickness)	$\leq 1,5 \%$	
Durability (moisture resistance) after cycle test	internal bond: $\geq 0,3 \text{ N/mm}^2$ Swelling in thickness: $\leq 1,5 \%$	

Essential Characteristics	Performance							Harmonized technical specification
Release of formaldehyde	E1							EN 13986:2004+A1:2015
Reaction to fire	B-s1, d0 Bfl-s1 (floor board 18 and 25mm)							
Frost resistance	pass							
Water vapour permeability	$\mu=40$ (wet) ; $\mu=67$ (dry)							
Air Permeability	$V_0 = 0,16 \text{ m}^3/\text{h}$; $V_0/A=0,16 \text{ m}^3/(\text{h}.\text{m}^2)$							
Airborne sound insulation	NPD							
Sound absorption	NPD							
Thermal conductivity	$\lambda=0,35 \text{ W}/(\text{m}.\text{k})$							
Biological durability	Use Class 2							
Content of pentachlorophenol	not definable							
Strength and stiffness for structural use	<p>Strength and stiffness and characteristics: Plate stress: $f_{m,k}=9 \text{ N/mm}^2$ $f_{c,90,k}=12 \text{ N/mm}^2$ $f_{v,k}=2 \text{ N/mm}^2$ $E_{\text{mean}}=4500 \text{ N/mm}^2$</p> <p>slab stress: $f_{m,k}=8 \text{ N/mm}^2$ $f_{t,k}=2,5 \text{ N/mm}^2$ $f_{c,k}=11,5 \text{ N/mm}^2$ $f_{v,k}=6,5 \text{ N/mm}^2$ $E_{\text{mean}}=4500 \text{ N/mm}^2$ $G_{\text{mean}}=1500 \text{ N/mm}^2$</p> <p>For the characteristic stiffness values E05 and G05, the calculated values apply: $E05 = 0,8 \cdot E_{\text{mean}}$, $G05 = 0,8 \cdot G_{\text{mean}}$, $\gamma_M = 1,3$</p>							Eurocode 5: DIN EN 1995-1-1/ NA:2013-08
Embedment strength	$(75+1,9 \cdot d) \cdot d^{-2,5} + d/10$							
Mechanical durability	Load duration class k mod						k def	
	Service class	Perm.	long	med	short	Inst	-	
	1	0,3	0,45	0,65	0,85	1,1	2,25	
	2	0,2	0,3	0,45	0,6	0,8	3	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Eric Bertrand

Head of R&D and Innovation, Siniat International.

Avignon, 06/10/2017