



## Declaration of Performance

en\_DOP\_Duripanel B1\_130621

following the provisions of the construction product regulation  
(EU 305/2011, esp. chap. II) the manufacturer declares that the product

**Eternit Duripanel® B1**  
**Cement-bonded particle-board according to EN 13986:2004 / EN 634-2:2007**  
**Thickness d=8 mm up to 40 mm**  
**Technical class 1**

Intended use:

Cement-bonded particle-board for

- internal use as structural components in dry conditions
- internal use as structural components in humid conditions
- external use as non-structural components in dry conditions
- external use as non-structural components in humid conditions
- external use as non-structural components

manufactured by

**Eternit AG, Im Breitspiel 20, D 69126 Heidelberg**

at the plant

**1060, Werk Beckum**

features the following performance parameters.

The Produkt is marked with:

1060 CE EN 13986 EN / 634-2 Klasse 1 B-s1, d0 E1 <thickness> mm DD.MM.YY<sup>1)</sup> 0763

The assessment and the verification of the constancy of performance based on System 2+.

For the product the manufacturer has established a factory production control (FPC) and performed the initial test (determination of product type) according to EN 13986:2004.

The notified factory production control certification body MPA Eberswalde No. 0763, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of the factory production control. A certificate of conformity of the factory production control was issued under: No. 0763-CPR-8804

Characteristic	Performance declaration	specification as per
Bending strength	$\geq 9 \text{ N/mm}^2$	EN 634-2: 2007
Bending stiffness (E-Modul)	$\geq 4500 \text{ N/mm}^2$	
Durability – Internal Bond	$\geq 0,4 \text{ N/mm}^2$	
Durability – Swelling in thickness	$\leq 1,5 \%$	
Release or content of formaldehyde	E1	EN 13986:2004 / EN 634-2: 2007



<sup>1)</sup> DD.MM.YY: date of production

Water vapour permeability	$\mu=40$ (wet) ; $\mu=67$ (dry)							EN 13986:2004
Airborne sound insulation	$R=13 \cdot \lg(\rho_{\text{mean}}/d) \cdot 14$ [ R in dB; $\rho_{\text{mean}}$ in $\text{kg}/\text{m}^3$ ; d in m]							
Sound absorption	$\alpha=0,1$ at 250 Hz to 500 Hz $\alpha=0,3$ at 1000 Hz to 2000 Hz							
Thermal conductivity	$\lambda=0,35 \text{ W}/(\text{m}\cdot\text{k})$							
Reaction to fire	B-s1, d0							
Density	$\rho_{\text{mean}}=1200 \text{ kg}/\text{m}^3$							FPC
Strength and stiffness for structural use	<p>Strength and stiffness and characteristics:</p> <p>Plate stress:  <math>f_{m,k}=9 \text{ N}/\text{mm}^2</math>  <math>f_{c,90,k}=12 \text{ N}/\text{mm}^2</math>  <math>f_{v,k}=2 \text{ N}/\text{mm}^2</math>  <math>E_{\text{mean}}=4500 \text{ N}/\text{mm}^2</math></p> <p>slab stress:  <math>f_{m,k}=8 \text{ N}/\text{mm}^2</math>  <math>f_{t,k}=2,5 \text{ N}/\text{mm}^2</math>  <math>f_{c,k}=11,5 \text{ N}/\text{mm}^2</math>  <math>f_{v,k}=6,5 \text{ N}/\text{mm}^2</math>  <math>E_{\text{mean}}=4500 \text{ N}/\text{mm}^2</math>  <math>G_{\text{mean}}=1500 \text{ N}/\text{mm}^2</math></p> <p>For the characteristic stiffness values <math>E_{05}</math> and <math>G_{05}</math>, the calculated values apply:  <math>E_{05} = 0,8 \cdot E_{\text{mean}}</math>, <math>G_{05} = 0,8 \cdot G_{\text{mean}}</math></p>							DIN EN 1995-1- 1/NA
Mechanical durability		$k_{\text{mod}}$					$k_{\text{def}}$	
	Service class	Perm.	Long	Medium	Short	Instant	-	
	1	0,30	0,45	0,65	0,85	1,10	2,25	
	2	0,20	0,30	0,45	0,60	0,80	3,00	
Embedment strength	$(75+1,9\cdot d)\cdot d-0,5+d/10$							


#### Tests performed within the factory production control:

PCP- and the formaldehyde content:  
MPA Eberswalde - Materialprüfanstalt Brandenburg GmbH, notified testing body 0763,  
Alfred-Möller-Straße 1, D 16225 Eberswalde

Reaction to fire:  
Materialprüfungsamt NRW, notified testing body 0432,  
Außenstelle Erwitte, Auf den Thränen 2, D 59597 Erwitte

#### Notified control and certification body:

MPA Eberswalde - Materialprüfanstalt Brandenburg GmbH, notified testing body 0763,  
Alfred-Möller-Straße 1, D 16225 Eberswalde

  
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i.V. Stephan Schreiber  
Head Technics

For the manufacturer:

Heidelberg  
21.06.2013

  
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i.V. Gregor Vogt  
Head Quality Control