



Declaration of Performance

DoP.BTP.01.07.2013

No: 1783 - CPR -189

In accordance with Regulation No 305/2011 (EU)

1. Unique identification of the product type

According to EN 634-2 Ordinary Portland Cement (OPC)bonded particleboards for use in dry, humid and external conditions.

2. Type, batch or serial number or any other element allowing identification of the construction product

Product codes are specified on products and in packages on product cards.

3. Intended use or uses of the product, in accordance with the applicable harmonized technical specification:

- Construction of partition walls,
- Construction of mezzanines,
- Construction of drop ceilings,
- Construction of raising floors,
- On balcony and terrace ceilings, soffits and fascia,
- Construction of fire doors,
- In prefabricated buildings:
 - o Wall construction
 - o Flooring system
 - o Construction of intermediate floors
 - o Construction of wet areas

4. Name, registered trade name or registered trade mark and contact address of the manufacturer

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5. Where applicable, name and contact adres of the authorised represantative whose mandate covers the tasks

6. System of systems of assessment and verification of constancy of performance:

System 2+

7. In case of declaration of performance concerning a construction product covered by a harmonised standard

Notified body N° 1783 Turkish Standards Institution issued certificate of conformity of the factory production control as a result of evaluation and verification of the constancy of performance under system 2+.

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued

Not relevant.

9. Declaration of Performance

Essential Characteristics	Performance		Harmonized Technical Specification
	Betopan Brand, Class 1, NON-SANDED, CEMENT – BONDED PARTICLE BOARDS (TS EN 633, TS EN 634-1, TS EN 634-2)	PLUS GROUP, Class 1, NON-SANDED, CEMENT – BONDED PARTICLE BOARDS WITH PARTICLE FREE SURFACES (TS EN 633, TS EN 634-1, TS EN 634-2)	
Unit Volume Weight	1300 ± 50 kg / m ³	1450 ± 75 kg / m ³	TS EN 634-2, TS EN 323
Bending Strength	≥ 9 N/mm ²	≥ 9 N/mm ²	TS EN 634-2, TS EN 310
Bending Elasticity Modules	≥ 4500 N/mm ² (Class 1)	≥ 4500 N/mm ² (Class 1)	TS EN 634-2, TS EN 310
Tensile Strength :			
*Vertical to Surface	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²	TS EN 634-2, TS EN 319
*Vertical to the Surface in Moist Environment after C Test	≥ 0,5 N/mm ²	≥ 0,3 N/mm ²	TS EN 634-2, TS EN 321, TS EN 319
*Parallel to Surface	≥ 4 N/mm ²		TS EN 789
Pressure Resistance	≥ 15 N/mm ²	-----	TS EN 789
Swelling in Thickness :			
*After immersion in water for 24h	≤ % 1,5	≤ % 1,5	TS EN 634-2, TS EN 317
*In moist environment after cyclic test	≤ % 1,5	≤ % 1,5	TS EN 634-2, TS EN 321, TS EN 317
Screw Holding Strength :			
*At 10 mm thickness	168 N for 4,2x65 mm screw	-----	TS EN 1380
*At 18 mm thickness	300 N for 4,2x65 mm screw		TS EN 1380
Moisture Content	% 9 ± 3	% 9 ± 3	TS EN 634-1, TS EN 322
Tolerances :			
*Thickness	08-10 mm ± 0,7 mm 12-14 mm ± 1,0 mm 16-18 mm ± 1,2 mm >18 ± 1,5 mm	08-10 mm ± 0,7 mm 12-14 mm ± 1,0 mm 16-18 mm ± 1,2 mm >18 ± 1,5 mm	TS EN 634-1, TS EN 324-1 TS EN 634-1, TS EN 324-1

*Length and Wide *Edge Smoothness *Corner Verticality	Length: ± 5 mm Width: ± 5 mm $\leq 1,5$ mm / m ≤ 2 mm / m	Length: ± 5 mm Width: ± 5 mm $\leq 1,5$ mm / m ≤ 2 mm / m	TS EN 634-1 TS EN 634-1
Heat Conduction (λ)	0,21 W/mK (10 mm) 0,21 W/mK (18 mm)	0,19 W/mK (10 mm) 0,19 W/mK (12 mm)	TS EN 12664 TS EN 12664
Fire Resistance (European Class)	Fire: B, Smoke: s1, Fall of particles of burning drips: d0	Fire: A2 Smoke: s1, Fall of particles of burning drips: d0	DIN EN 13501-1, DIN EN 13823, DIN EN ISO 11925-2
Fire Resistance Duration	Thickness(mm) : 08 , 10 , 12 , 14 , 16 , 18 Time (minutes) : 31 , 32 , 34 , 35 , 37 , 39	Thickness(mm) : 08 , 10 , 12 , 14 , 16 , 18 Time (minutes) : 31 , 32 , 34 , 35 , 37 , 39	TS 1263 (DIN 4102-2)
Tests on other thicknesses are proceeding Linear stability depending on relative humidity (RH) (mm/m) In Shadow : *At 8-12 mm thickness *At 14-18 mm thickness In the sun : 12 mm boards are conditioned at $\%85 \pm 5$ RH and 20 ± 2 °C and both surfaces painted (300 gr/m^2). In Ankara, on southern facade, after 1 year, at summer end, with *Sayarlak brand (Hemel) *Amphisilian brand (Filli Boya)	-1,0 (%65----> %35 RH) +0,4 (%65----> %85 RH) -1,4 (%65----> %35 RH) +0,3 (%65----> %85 RH) - 2,3 - 2,5	-1,5 -1,7	TS EN 318 TS EN 318
Sound Absorption: *250 Hz - 500 Hz *1000 Hz - 2000 Hz	0.10 0.30	-----	TS EN 13986
Water Vapor Transmission (μ) : *At 10 mm thickness *AT 18 mm thickness	Dry Cup= 50 Wet Cup= 30 Dry Cup= 50 Wet Cup= 30		TS EN 13986 TS EN 13986
pH	11-13		

10. The Conformity With The Declared Performance

This declaration of performance is issued under the sole responsibility of Tepe Betopan Yapı Malzemeleri San. ve Tic. A.Ş. Signed for and on behalf of Tepe Betopan Yapı Malzemeleri San. ve Tic. A.Ş. by:

Ankara, 01 Temmuz 2013


Yüksel ÇAYIR

Production Group Manager