

Project number: FB-A166N-29660-2024/2

Topic number: M-3036/2007

TYPE TEST CERTIFICATE (TVB)

of

**Betonyp - Cement-bonded particleboard
construction product**

**ÉMI Non-profit limited liability company for quality control and innovation in building
Engineering Services Directorate's
ÉMI Testing Laboratory in Building Industry
hereby certifies with this document for**

**Falco Forgácslapgyártó Zrt.
9700 Szombathely, Zanati út 26.**

**as the holder of the TVB that
it has performed the initial type testing of the construction product manufactured at the
establishment**

**Falco Forgácslapgyártó Zrt.
9700 Szombathely, Zanati út 26.**

**and falling within the scope of
regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011.
Based on results detailed in the Initial Type Test Report issued under M-3036/2007 number and
with 29. October 2007. date, and the Test Reports listed in this Certificate (section 2) the
construction product conforms the requirements Cement-bonded particleboard of non-structural
use, applicable in dry, wet and outer environment of the EN 13986:2004+A1:2015 technical
specification applying for the product.**

**This TVB remains valid
- with no change in product characteristics -
until 30. 11. 2025.**

Szentendre, 31. October 2024.




Ákos Darányi

head of ÉMI Testing Laboratory in Building Industry

The Type Test Certificate consists of 3 numbered pages that are only valid for one unit!
The ÉMI Non-profit Lc. is an organization certified according to MSZ EN ISO 9001 standards.
The text of the present document is a translation which is based on the original Hungarian language document with the
same project number. In case of legal dispute the Hungarian version is authoritative.

1. Properties (characteristics) of the product in support of the declaration of performance:

Product characteristics and their units	Requirement	Test/Assessment method
Density [kg/m ³]	≥ 1000	MSZ EN 323:1995
Bending strength (durability against aging) [N/mm ²]	≥ 9,0	MSZ EN 310:1999
Bending stiffness (modulus of elasticity) [N/mm ²]	≥ 4500 (Class 1)	MSZ EN 310:1999
Durability as:		
<ul style="list-style-type: none"> Internal bond (tensile strength perpendicular to the plane of the board) [N/mm²] 	≥ 0,5	MSZ EN 319:1998
<ul style="list-style-type: none"> Swelling in thickness 24 h [%] 	≤ 1,5	MSZ EN 317:1998
<ul style="list-style-type: none"> Moisture resistance (values measured after cyclic load) <ul style="list-style-type: none"> Swelling in thickness [%] tensile strength perpendicular to the plane of the board [N/mm²] 	≤ 1,5 ≥ 0,3	MSZ EN 321:2002 MSZ EN 321:2002
<ul style="list-style-type: none"> Biological durability [class] 	3	MSZ EN 335:2013 MSZ EN ISO 846:2019
Release of fomaldehyde [mg/m ³]	≤ 0,124 (E1)	MSZ EN 717-1:2005
Reaction to fire [class]	B-s1, d0	MSZ EN 13986:2004+A1:2015 2000/147/EC
Reaction to fire when intended use as floorings [class]	B _{FL} -s1	
Water vapour permeability (μ) (Density: 1200 kg/m ³) wet dry	- 30 50	MSZ EN 13986:2004+A1:2015
Airborne sound insulation (R) (Density: 1400 kg/m ³) 8 mm thick 40 mm thick	[dB] 27,6 36,7	MSZ EN 13986:2004+A1:2015
Sound absorption (α) 250-500 Hz közőtt 1000-2000 Hz közőtt	- 0,1 0,3	MSZ EN 13986:2004+A1:2015
Thermal conductivity (λ) (Density: 1200 kg/m ³)	[W/mK] 0,23	MSZ EN 13986:2004+A1:2015
Release (content) of Pentachlorophenol [ppm]	≤ 5	CEN/TR 14823: 2003

Results of the initial type test may be used for the drawing up a declaration of performance for the system 3 in Annex V of the regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 as long as product characteristics, requirements and manufacturing technology of the product manufactured at the establishment of the manufacturer remain unchanged.

The holder of the TVB must report changes to ÉMI Testing Laboratory in Building Industry of ÉMI Nonprofit LLC's Engineering Services Directorate within 30 days which way he can initiate renewal of the TVB.

Surveillance testing of essential characteristics of the product which support the declaration of performance are performed by ÉMI Nonprofit Kft. yearly based on separate mandates.

Mandate related to surveillance testing has to be sent to ÉMI Nonprofit Kft. at least one month prior to the date of validity on the cover of the TVB.

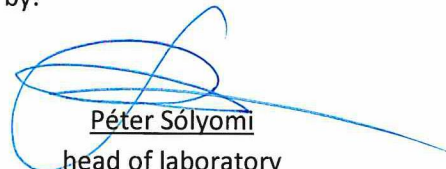
2. Surveillance tests

Date	Project number	Tested characteristics	Changes
05 Oct 2016	FB-A164N-09947-2016	Density, Internal bond, Bending strength and stiffness, Swelling in thickness, Moisture resistance	-
17 Nov 2017	FB-A166N-13282-2017	Density, Internal bond, Bending strength and stiffness, Swelling in thickness, Moisture resistance	-
17 May 2019 14 June 2019	FB-A166N-17607-2019 M1-A166N-18117-2019	Bending strength and stiffness, Swelling in thickness, Internal bond, Density	-
16 July 2020	FB-A166N-20565-2020	Internal bond, Bending strength and stiffness, Swelling in thickness	-
02 July 2021	FB-A166N-22607-2021	Density, Internal bond, Moisture resistance	-
28 July 2022	FB-A166N-24975-2022 M1-A166N-25198-2022	Swelling in thickness Bending strength and stiffness	-
01. Sept 2023	FB-A166N-27437-2023	Density, Internal bond	-
31 Oct 2024	FB-A166N-29660-2024	Moisture resistance	-

The certificate was compiled by:


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