

Test attestation

Contract No. 8820/2023-HC

22.08.2023
HAE/BAK

Customer: Dynea AS Austria Branch
Hafenstraße 77
3500 Krems/D

Subject: Formaldehyde emission testing in accordance with EN 717-1 (2005) of a glued laminated timber sample, produced with MUF resin **Prefere 4571** and hardener **Prefere 5071** with a ratio of 100:30 (pbw). For the combination of Prefere 4571/5071 this adhesive:hardener ratio has the highest potential for formaldehyde emission. Because of these worst-case conditions for testing it can be assumed that products with other conventionally used adhesive:hardener ratios of Prefere 4571/5071 will show lower formaldehyde emissions.
For the testing sample dimensions were chosen which allowed a conversion of results to the specifications of EN 14080 (2013) with a loading factor of 0.3 m²/m³, and also of EN 717-1 (2005) with a loading factor of 1.0 m²/m³.

Result: With an **abort concentration of <0.006 mg/m³** (<0.005 ppm, limit of determination of the method) on day 4, the sample **complies with the specifications of the Austrian formaldehyde regulation** for formaldehyde emission class E1 of 0.124 mg/m³ (0.1 ppm) when tested according to EN 14080 with a loading factor of 0.3 m²/m.
With an **abort concentration of <0.012 mg/m³** (<0.010 ppm) on day 4, the sample **complies with the specifications of the Austrian formaldehyde regulation** for formaldehyde emission class E1 of 0.124 mg/m³ (0.1 ppm) when tested according to EN 717-1 with a loading factor of 1.0 m²/m.
Further information can be found in the testing report no. 8820/2023 of Holzforschung Austria.

Period of validity: ---

HOLZFORSCHUNG AUSTRIA

DI (FH) Christina Fühapper
Authorisation to sign

Mag. Elisabeth Habla
Technical execution

This document was approved electronically in accordance with an internal HFA process by the designated authorized signatory, traceable and documented.

Test attestation

Contract No. 8821/2023-HC

22.08.2023
HAE/BAK

Customer: Dynea AS Austria Branch
Hafenstraße 77
3500 Krems/D

Subject: Formaldehyde emission testing in accordance with German Prohibition of Chemicals Ordinance (deutsche Chemikalien-Verbotsverordnung, BGBl. I S. 94; 2018 I S. 1389) and ÖNORM EN 16516 (2021) of a glued laminated timber sample, produced with MUF resin **Prefere 4571** and hardener **Prefere 5071** with a ratio of 100:30 (pbw). For the combination of Prefere 4571/5071 this adhesive:hardener ratio has the highest potential for formaldehyde emission. Because of these worst-case conditions for testing it can be assumed that products with other conventionally used adhesive:hardener ratios of Prefere 4571/5071 will show lower formaldehyde emissions.
For the testing sample dimensions were chosen which allowed a conversion of results to a loading factor of 1.8 m²/m³ as specified in the German Federal Gazette (deutscher Bundesanzeiger) announcement of November 26th 2018, Banz AT 26.11.2018 B2.

Result: With a **formaldehyde emission of 0.012 ppm** (0.015 mg/m³) on day 28, the sample **complies with the specifications of the German Prohibition of Chemicals Ordinance (deutsche Chemikalien-Verbotsverordnung, BGBl. I S. 94; 2018 I S. 1389)** for formaldehyde emission class E1 of 0.1 ppm when tested with a loading factor of 1.8 m²/m.

Further information can be found in the testing report no. 8821/2023 of Holzforschung Austria.

Period of validity: ---

HOLZFORSCHUNG AUSTRIA

DI (FH) Christina Fühapper
Authorisation to sign

Mag. Elisabeth Habla
Technical execution

This document was approved electronically in accordance with an internal HFA process by the designated authorized signatory, traceable and documented.