Test attestation

Contract No.	2426/2013/1 – RB updated version of test attestation of January 21st, 2014	28.01.2026 HAE/MID
Customer:	Dynea AS Svelleveien 33, P.O.Box 160 2001 Lillestrom NORWAY	
Subject:	This updated version of the test attestation pertains to the examination of the formaldehyde emission of a glued laminated timber made of spruce (Picea abies) and glued with **Prefere 4546** resin and **Prefere 5022** hardener with a mixing ratio of 100 : 100 parts by weight, which was tested for contract no. 2426/2013 in December 2013 and January 2014. The glued laminated timber was manufactured according to ÖNORM EN 14080 (requirements of glued laminated timber), Annex B and the emission test of formaldehyde has been carried out according to ÖNORM EN 717-1 (chamber method).	
Result:	According to ÖNORM EN 14080, Annex B (table B.1) the maximum steady state emission value for glued laminated timber with edge bonding for the formaldehyde class E1 is ≤ 0,1 ppm (= 0,13 mg) HCHO/m³ air. Furthermore we confirm, that the formaldehyde emission of a glued laminated timber is ≤ 0,01 ppm HCHO/m³ air. In test report 2426/2013 of Holzforschung Austria the complete production and testing parameters were shown. The result of the formaldehyde release fulfils the E1 requirement regarding the emission of formaldehyde according to ÖNORM EN 14080, Annex B, table B.1. Provided that there are no changes in the composition, the applied quantities and the processing method of the adhesive system, changes of the results for the formaldehyde emissions are not expected.	
Period of validity:	--	

HOLZFORSCHUNG AUSTRIA

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

Test attestation

Contract No.	2426/2013/2 – RB updated version of test attestation of January 21st, 2014	28.01.2026 HAE/MID
Customer:	Dynea AS Svelleveien 33, P.O.Box 160 2001 Lillestrom NORWAY	
Subject:	This updated version of the test attestation pertains to the examination of the formaldehyde emission of a glued laminated timber made of spruce (Picea abies) and glued with **Prefere 4546** resin and **Prefere 5022** hardener with a mixing ratio of 100 : 20 parts by weigth, which was tested for contract no. 2426/2013 in December 2013 and January 2014. The glued laminated timber was manufactured according to ÖNORM EN 14080 (requirements of glued laminated timber), Annex B and the emission test of formaldehyde has been carried out according to ÖNORM EN 717-1 (chamber method).	
Result:	According to ÖNORM EN 14080, Annex B (table B.1) the maximum steady state emission value for glued laminated timber with edge bonding for the formaldehyde class E1 is ≤ 0,1 ppm (= 0,13 mg) HCHO/m³ air. Furthermore we confirm, that the formaldehyde emission of a glued laminated timber is ≤ 0,01 ppm HCHO/m³ air. In test report 2426/2013 of Holzforschung Austria the complete production and testing parameters were shown. The result of the formaldehyde release fulfils the E1 requirement regarding the emission of formaldehyde according to ÖNORM EN 14080, Annex B, table B.1. Provided that there are no changes in the composition, the applied quantities and the processing method of the adhesive system, changes of the results for the formaldehyde emissions are not expected.	
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