

## TEST ATTESTATION

Contract No.: 2426/2013/2 - RB

21.01.2014  
KRB/RIK

Customer: Dynea AS  
Svelleveien 33, P.O.Box 160  
NO-2001 Lillestrom

Subject: Examination of the formaldehyde emission of a glued laminated timber made of spruce (*Picea abies*) and glued with **Preferre 4546** resin and **Preferre 5022** hardener with a mixing ratio of 100 : 20 parts by weight.

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  $\leq 0,1$  ppm (= 0,13 mg) HCHO/m<sup>3</sup> air.

Furthermore we confirm, that the formaldehyde emission of a glued laminated timber is  $\leq 0,01$  ppm HCHO/m<sup>3</sup> 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.

Period of validity: --

HOLZFORSCHUNG AUSTRIA

  
Mag. Elisabeth Habla  
Technical consultant



  
Dr. Andreas Neumüller  
Head of Unit

# TEST ATTESTATION

Contract No.: 2426/2013/1 - RB

21.01.2014  
KRB/RIK

Customer: Dynea AS  
Svelleveien 33, P.O.Box 160  
NO-2001 Lillestrom

Subject: 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.

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  $\leq 0,1$  ppm (= 0,13 mg) HCHO/m<sup>3</sup> air.

Furthermore we confirm, that the formaldehyde emission of a glued laminated timber is  $\leq 0,01$  ppm HCHO/m<sup>3</sup> 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.

Period of validity: --

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