



INSTITUT TECHNOLOGIQUE

ETS SIMONIN FRERES SAS
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Bordeaux, le 16/12/2014

N/Ref : PIBC-CERT / MT – MBu 14/1596

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Object : Characteristic strength values associated to the glued laminated timber of oak

Dear Sir,

Following our exchanges and the tests realized in our laboratory of mechanics, you will find below the characteristic strength values associated to the glued laminated timber of oak, produced in the site of Montlebon, France.

The following values are only valid for glued laminated timber produced with the same parameters than glued laminated timber tested in the laboratory of mechanics of FCBA, according to test report 403/12/740/1&2.

The characteristics values are the following :

- Characteristic bending strength $f_{m,g,k}$: 32 N/mm²
- Characteristic tensile strength $f_{t,0,g,k}$: 19.5 N/mm²
- Characteristic compressive strength $f_{c,0,g,k}$: 26.5 N/mm²
- Characteristic shear strength $f_{v,g,k}$: 3.5 N/mm² (capped in the EN 14080:2013)
- Modulus of elasticity $E_{0,g,moy}$: 12100 N/mm²

Moreover, finger joints in the glued laminated timber beam should not be aligned.

We stay tuned for further information.

Best regards

For FCBA,
The structural timber manager

Manuel BURLAT

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