

| DECLARATION OF PERFORMANCE |  |
|----------------------------|--|
| Reference :                | DOPFibromaxMRUncolouredv1  |
| Commercial name :          | Fibromax MR Uncoloured   |
| Product type :             | MDF Fibreboard   |
| Reference standard :       | Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.9                  |
| CE Class :                 | MDF.H  |
| Field of application :     | Internal use as non-structural component in humid conditions               |
| AVCP Class :               | 4  |
| Certification number:      | Not Applicable   |
| Produced at:               | Zone Industrielle, F-08140 Bazeilles<br>Rue de la Forêt 2, B-6690 Vielsalm |

| Essential Characteristic                                | Unit              | Reference             | Thickness range (mm) |           |           |           |           |            |
|---|-------------------|-----------------------|----------------------|-----------|-----------|-----------|-----------|------------|
|   |                   |                       | 6                    | >6 - 9    | > 9 - 12  | >12-19    | >19-30    | >30-45     |
| Bending strength  | N/mm <sup>2</sup> | EN 622-5              | 27                   | 27        | 26        | 24        | 22        | NPD        |
| Modulus of elasticity in bending                        | N/mm <sup>2</sup> | EN 622-5              | 2700                 | 2700      | 2500      | 2400      | 2300      | NPD        |
| Internal bond   | N/mm <sup>2</sup> | EN 622-5              | 0,70                 | 0,80      | 0,80      | 0,75      | 0,75      | NPD        |
| Swelling in thickness, 24h                              | %                 | EN 622-5              | 18                   | 12        | 10        | 8         | 7         | NPD        |
| Moisture resistance OPTION 1 :<br>Internal bond         | N/mm <sup>2</sup> | EN 622-5              | 0,35                 | 0,3       | 0,25      | 0,2       | 0,15      | NPD        |
| Moisture resistance OPTION 1 :<br>Swelling in thickness | %                 | EN 622-5              | 25                   | 19        | 16        | 15        | 15        | NPD        |
| Surface Soundness                                       | N/mm <sup>2</sup> | EN 622-5              | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Formaldehyde class                                      | Class             | EN 13986-table B1     | E1                   | E1        | E1        | E1        | E1        | NPD        |
| Reaction to fire  | Class             | EN 13501-1            | E                    | D-s2d0(*) | D-s2d0    | D-s2d0    | D-s2d0    | NPD        |
| Water vapour permeability $\mu$                         | wet<br>dry        | EN 13986 - table 9    | 20<br>30             | 19<br>29  | 18<br>27  | 17<br>26  | 17<br>26  | NPD<br>NPD |
| Airborne sound insulation                               | dB                | EN 13986-5.10         | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Sound absorption $\alpha$                               |                   | EN 13986 - table 10   | 0,10/0,20            | 0,10/0,20 | 0,10/0,20 | 0,10/0,20 | 0,10/0,20 | NPD        |
| Thermal conductivity $\lambda$                          | W/m.K             | EN 13986 - table 11   | 0,14                 | 0,14      | 0,13      | 0,13      | 0,12      | NPD        |
| Strength - tension $f_t$                                | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Strength - compression $f_c$                            | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Strength - bending $f_m$                                | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Strength - panel shear $f_v$                            | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Strength - planar shear $f_r$                           | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Stiffness - tension $E_t$                               | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Stiffness - compression $E_c$                           | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Stiffness - bending $E_m$                               | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Stiffness - panel shear $G_v$                           | N/mm <sup>2</sup> | EN 12369-1            | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Impact resistance                                       | Class             | EN 12871              | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Punishing shear strength $R_{mean}$                     | N/mm <sup>2</sup> | EN 1195               | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Punishing shear strength $F_{ser,k}$                    | N/mm <sup>2</sup> | EN 1195               | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Punishing shear strength $F_{max,k}$                    | N/mm <sup>2</sup> | EN 1195               | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Linear expansion $\delta_{30,85}$                       | mm/m              | EN 318                | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Mechanical durability<br>(kmod; kdef)                   |                   | Shall be taken from : | NPD                  | NPD       | NPD       | NPD       | NPD       | NPD        |
| Biological durability                                   | Service<br>Class  | EN 335                | 1 & 2                | 1 & 2     | 1 & 2     | 1 & 2     | 1 & 2     | NPD        |
| Content of PCP  | ppm               | EN 13986-5.18         | <5                   | <5        | <5        | <5        | <5        | NPD        |

(\*) <9mm : E; 9mm : D-s2,d0

| Informative Characteristic | Unit    | Reference | Thickness range (mm) |        |          |        |        |        |
|----------------------------|---------|-----------|----------------------|--------|----------|--------|--------|--------|
|                            |         |           | 6                    | >6 - 9 | > 9 - 12 | >12-19 | >19-30 | >30-45 |
| Formaldehyde content       | mg/100g | EN 120    | < 8 mg/100g DS       |        |          |        |        |        |

Version date :  
6/05/2019

Lode De Boe,  
President UNILIN bvba, division panels

