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DoP ref: **NL-MDFDoPv8**

EN13986:2004 +A1:2015

04

E1

L-MDF

>9mm to 38mm

Non-Structural use in dry conditions

| Essential characteristics   | Performance |           |           |           |
|---|-------------|-----------|-----------|-----------|
|   | >9 to 12    | >12 to 19 | >19 to 30 | >30 to 45 |
| Thickness (mm)  | >9 to 12    | >12 to 19 | >19 to 30 | >30 to 45 |
| <sup>1</sup> Water vapour permeability $\mu$                                | NPD         | NPD       | NPD       | NPD       |
| Release of formaldehyde   | E1          | E1        | E1        | E1        |
| Release (content) of pentachlorophenol (PCP)                                | ≤5ppm       | ≤5ppm     | ≤5ppm     | ≤5ppm     |
| <sup>2</sup> Airborne sound insulation (surface mass) R (dB)                | NPD         | NPD       | NPD       | NPD       |
| <sup>3</sup> Sound absorption Frequency range 250Hz to 500Hz ( $\alpha$ )   | 0.1         | 0.1       | 0.1       | 0.1       |
| <sup>3</sup> Sound absorption Frequency range 1000Hz to 2000Hz ( $\alpha$ ) | 0.2         | 0.2       | 0.2       | 0.2       |
| <sup>4</sup> Thermal conductivity $\lambda$ (W/m.K)                         | NPD         | NPD       | NPD       | NPD       |
| Air Permeability $V_0$ (m <sup>3</sup> /h)                                  | NPD         | NPD       | NPD       | NPD       |
| <b>Durability</b>   |             |           |           |           |
| Internal bond (N/mm <sup>2</sup> )  | 0.45        | 0.45      | 0.45      | 0.40      |
| Swelling in thickness (%)   | 16          | 14        | 12        | 11        |
| Biological  | Use Class 1 |           |           |           |

| <sup>5</sup> Reaction to fire<br><br>(see notes to table for field of application details and associated documentation references)   |  | Minimum thickness | Class (excluding floorings) <sup>g</sup> | Class (Flooring) <sup>h</sup> |
|--|--|-------------------|--|-------------------------------|
|  | <b>Without an air gap behind the panel</b><br><small>abef</small>                  | 9                 | D-s2,d0                                  | D <sub>fl</sub> ,s1           |
|  | <b>With a closed or open air gap ≤ 22mm behind the panel</b><br><small>cef</small> | 9                 | D-s2,d2                                  | -                             |
|  | <b>Closed air gap behind the panel</b><br><small>def</small>                       | 15                | D-s2,d0                                  | D <sub>fl</sub> ,s1           |
|  | <b>With an open air gap behind the panel</b><br><small>def</small>                 | 18                | D-s2,d0                                  | D <sub>fl</sub> ,s1           |
|  | <b>Any end use</b><br><small>ef</small>  | 3                 | E  | E <sub>fl</sub>               |
| a Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m <sup>3</sup> or at least class D-s2, d2 products with minimum density 400 kg/m <sup>3</sup> .<br>b A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.<br>c Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m <sup>3</sup> .<br>d Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m <sup>3</sup> .<br>e Veneered, phenol- and melamine-faced panels are included for class excl. floorings.<br>f A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m <sup>2</sup> can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.<br>g Class Provided for in Table 1 of the Annex to decision 2000/147/EC<br>h Class Provided for in Table 2 of the Annex to decision 2000/147/EC |  |                   |  |                               |

NOTES TO TABLE

1 Taken from Table 9 of EN 13986:2004+A1

2 Calculated according to clause 5.10 of EN 13986:2004+A1

3 Taken from Table 10 of EN 13986:2004+A1

4 Taken from Table 11 of EN 13986:2004+A1

5 reaction to fire classes from Table 1 of Commission Decision 2003/43/EC of January 2003 (OJEU L13 of 18.1.2003) corrected by Corrigendum (OJEU L33 of 8.2.2003) and amended by Commission decision 2007/348/EC of May 2007 (OJEU L131 of 23-05-2007); also reproduced in Table 8 of EN 13986:2004+A1:2015 for wood-based panels installed according to CEN/TR 12872