

# DIN EN 13171:2015-04 (E)

## Thermal insulation products for buildings - Factory made wood fibre (WF) products - Specification (includes Amendment A1:2015)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
1	Scope .....	6
2	Normative references .....	6
3	Terms, definitions, symbols, units and abbreviated terms .....	8
3.1	Terms and definitions .....	8
3.2	Symbols, units and abbreviated terms .....	8
4	Requirements .....	11
4.1	General .....	11
4.2	For all applications .....	11
4.3	For specific applications .....	13
5	Test methods .....	19
5.1	Sampling .....	19
5.2	Conditioning .....	19
5.3	Testing .....	19
6	Designation code .....	22
7	Assessment and Verification of the Constancy of Performance (AVCP) .....	23
7.1	General .....	23
7.2	Product Type Determination (PTD) .....	23
7.3	Factory Production Control (FPC) .....	23
8	Marking and labelling .....	23
Annex A (normative)	Determination of the declared values of thermal resistance and thermal conductivity .....	25
A.1	General .....	25
A.2	Input data .....	25
A.3	Declared values .....	25
A.3.1	General .....	25
A.3.2	Case where thermal resistance and thermal conductivity are declared .....	25
A.3.3	Case where only thermal resistance is declared .....	26
Annex B (normative)	"Product type determination" (!PTD) and factory production control (FPC) ....	28
Annex C (normative)	WF multi-layered thermal insulation products .....	32
C.1	General .....	32
C.2	Requirements .....	32
C.2.1	For all applications .....	32
C.2.2	For specific applications .....	33
C.3	Test methods .....	33
C.4	Evaluation of conformity .....	33
Annex D (normative)	Determination of the thermal conductivity in relation to moisture content .....	34

<b>Annex E (informative) Additional properties .....</b>	<b>36</b>
<b>E.1 General .....</b>	<b>36</b>
<b>E.2 Bending strength .....</b>	<b>36</b>
<b>E.3 Shear strength .....</b>	<b>36</b>
<b>Annex F (informative) Examples for the determination of the declared values of thermal resistance and thermal conductivity for a product or a product group .....</b>	<b>37</b>
<b>F.1 Case where both thermal resistance and thermal conductivity are declared .....</b>	<b>37</b>
<b>F.2 Case where only thermal resistance is declared .....</b>	<b>38</b>
<b>Annex ZA (informative) "Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation" .....</b>	<b>40</b>
<b>ZA.1 Scope and relevant characteristics .....</b>	<b>40</b>
<b>ZA.2 Procedures for AVCP of factory made wood fibre products .....</b>	<b>42</b>
<b>ZA.3 CE Marking and labelling .....</b>	<b>49</b>
<b>Bibliography .....</b>	<b>51</b>
<b>Tables Table 1 -- Level and classes for thickness tolerances .....</b>	<b>12</b>
<b>Table 2 -- Dimensional stability under specified temperature and humidity conditions .....</b>	<b>13</b>
<b>Table 3 -- Levels for compressive stress or compressive strength .....</b>	<b>14</b>
<b>Table 4 -- Levels for tensile strength perpendicular to faces .....</b>	<b>15</b>
<b>Table 5 -- Levels for short term water absorption by partial immersion .....</b>	<b>16</b>
<b>Table 6 -- Classes for thickness tolerances .....</b>	<b>17</b>
<b>Table 7 -- Levels for compressibility .....</b>	<b>17</b>
<b>Table 8 -- Test methods, test specimens and conditions .....</b>	<b>20</b>
<b>Table A.1 -- Values for k for one sided 90 % tolerance interval with a confidence level of 90 % .....</b>	<b>26</b>
<b>Table B.1 -- Minimum number of tests for ITT and minimum product testing frequencies .....</b>	<b>28</b>
<b>Table B.2 -- Minimum product testing frequencies for the reaction to fire characteristics .....</b>	<b>30</b>
<b>Table E.1 -- Test methods, test specimens, conditions and minimum testing frequencies .....</b>	<b>36</b>
<b>Table F.1 -- test results .....</b>	<b>37</b>
<b>Table F.2 -- R test results .....</b>	<b>38</b>
<b>Table ZA.1 -- Relevant clauses for factory made wood fibre and intended use .....</b>	<b>40</b>
<b>Table ZA.2 -- Systems of AVCP .....</b>	<b>42</b>
<b>Table ZA.3.1 -- Assignment of AVCP tasks for factory made wood fibre products under system 1 for reaction to fire and system 3 (see Table ZA.2) .....</b>	<b>43</b>
<b>Table ZA.3.2 -- Assignment of AVCP tasks for factory made wood fibre products under system 3 (see Table ZA.2) .....</b>	<b>44</b>

**Table ZA.3.3 -- Assignment of AVCP tasks for factory made wood fibre products under combined system 4 for reaction to fire and system 3 (see Table ZA.2) .....45**

**Figures Figure D.1 -- Example of a graphic representation of "f" .....35**

**Figure ZA.1 -- Example CE marking information of products under AVCP system 3 .....50**