DIN EN 13168:2015-04 (E)

Thermal insulation products for buildings - Factory made wood wool (WW) products - Specification (includes Amendment A1:2015)

Contents

Page

Foreword 4

1 Scope 6

2 Normative references 6

3 Terms, definitions, symbols, units and abbreviated terms 7
3.1 Terms and definitions 7
3.2 Symbols, units and abbreviated terms 9

4 Requirements 11
4.1 General 11
4.2 For all applications 11
4.3 For specific applications 15

5 Test methods 19
5.1 Sampling 19
5.2 Conditioning 19
5.3 Testing 19

6 Designation code 21

7 Assessment and Verification of the Constancy of Performance (AVCP) 22
7.1 General 22
7.2 Product Type Determination (PTD) 22
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

Annex B (normative) !Product type determination" (!PTD") and factory production control (FPC) 28

Annex C (normative) WW multi-layered insulation products 32

C.1 General 32
C.2 Requirements 32
C.3 Test methods 33
C.4 Evaluation of conformity 33

Annex D (normative) Specific test methods 34

D.1 Chloride content 34
D.2 Load resistance 34
D.3 Impact resistance 35

Annex E (normative) Determination of the thermal conductivity in relation to moisture content 37

Annex ZA (informative) !Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation" 39

ZA.1 Scope and relevant characteristics 39

ZA.2 Procedures for AVCP of factory made wood wool products 40

ZA.3 CE Marking and labelling 47

Bibliography 49

Tables Table 1 -- Classes for length and width tolerances 12

Table 2 -- Classes for thickness tolerances 13

Table 3 -- Levels for deviation from flatness 13

Table 4 -- Levels for chloride content 13

Table 5 -- Levels for tensile strength perpendicular to faces 14

Table 6 -- Levels for the deviation from squareness 15

Table 7 -- Levels for compressive stress or compressive strength 16

Table 8 -- Levels for bending strength 17

Table 9 -- Levels for short term water absorption 17

Table 10 -- Test methods, test specimens and conditions 20

Table A.1 -- Values for k for one sided 90 % tolerance interval with a confidence level of 90 % 27

Table B.1 -- Minimum product testing frequencies 28

Table B.2 -- Minimum product testing frequencies for the reaction to fire characteristics (1 of 2) 30

Table ZA.1 -- Relevant clauses for factory made wood wool and intended use 39

Table ZA.2 -- Systems of AVCP 41

Table ZA.3.1 -- Assignment of AVCP tasks for factory made wood wool products under system 1 for reaction to fire and system 3 (see Table ZA.2) 41

Table ZA.3.2 -- Assignment of AVCP tasks for factory made wood wool products under system 3 (see Table ZA.2) 43

Table ZA.3.3 -- Assignment of AVCP tasks for factory made wood wool products under combined system 4 for reaction to fire and system 3 (see Table ZA.2) 43

Figures Figure D.1 -- Test rig for load resistance of slabs 35

Figure D.2 -- Test rig for impact resistance of slabs 36

Figure E.1 -- Example of a graphic representation of "f" 38

Figure ZA.1 -- Example CE marking information of products under AVCP system 1 and system 3" .. 48