

DIN EN 13169:2015-04 (E)

Thermal insulation products for buildings - Factory made expanded perlite board (EPB) products - Specification (includes Amendment A1:2015)

Contents		Page
Foreword		5
1	Scope	7
2	Normative references	7
3	Terms, definitions, symbols, units and abbreviated terms	8
3.1	Terms and definitions	8
3.2	Symbols units and abbreviated terms	9
4	Requirements	12
4.1	General	12
4.2	For all applications	12
4.3	For specific applications	14
5	Test methods	18
5.1	Sampling	18
5.2	Conditioning	18
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	24
A.1	General	24
A.2	Input data	24
A.3	Declared values	24
Annex B (normative)	!Product type determination" (!PTD") and factory production control (FPC)	27
Annex C (normative)	Determination of the thermal conductivity in relation to moisture content	31
Annex D (normative)	EPB multi-layered insulation products	33
D.1	General	33
D.2	Requirements	33
D.3	Test methods	34
D.4	!Assessment and Verification of the Constancy of Performance (AVCP)"	34
Annex E (normative)	Composite insulation boards	35
E.1	Description	35
E.2	Requirements	35

E.3	Test methods	38
E.4	Designation code	38
E.5	Factory production control	38
E.6	!Assessment and Verification of the Constancy of Performance (AVCP)"	40
E.7	Marking and labelling	40
Annex F (informative) Additional properties		41
F.1	General	41
F.2	Particular profiles	42
Annex ZA (informative) !Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation"		43
ZA.1	Scope and relevant characteristics	43
ZA.2	Procedures for AVCP of factory made expanded perlite products	46
ZA.3	CE Marking and labelling	52
Bibliography		55
Tables	Table 1 -- Thickness tolerances	13
	Table 2 -- Dimensional stability under specified temperature and humidity conditions	15
	Table 3 -- Levels for compressive stress or compressive strength	15
	Table 4 -- Levels for deformation under specified compressive load and temperature	16
	Table 5 -- Levels for water absorption by total immersion	16
	Table 6 -- Levels for bending strength at constant span	17
	Table 7 -- 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 %	25
	Table B.1 -- Minimum number of tests for !PTD" and minimum product testing frequencies	27
	Table B.2 -- Minimum product testing frequencies for the reaction to fire characteristics	29
	Table E.1 -- Classes for thickness tolerances	36
	Table E.2 -- Levels of compressibility	36
	Table E.3 -- Test methods, test specimens and conditions	38
	Table E.4 -- Minimum number or frequencies of product testing	39
	Table F.1 -- Test methods, test specimens, conditions and testing frequencies	42
	Table ZA.1.1 -- Relevant clauses for factory made expanded perlite board and intended use	44
	Table ZA.1.2 -- Relevant clauses for factory made expanded perlite board (composites EPB) and intended use	45
	Table ZA.2 -- Systems of AVCP	46
	Table ZA.3.1 -- Assignment of AVCP tasks for factory made expanded perlite board products under system 1 for reaction to fire and system 3 (see Table ZA.2)	47

Table ZA.3.2 -- Assignment of AVCP tasks for factory made expanded perlite board products under system 3 (see Table ZA.2)48

Table ZA.3.3 -- Assignment of AVCP tasks for factory made expanded perlite board products under combined system 4 for reaction to fire and system 3 (see Table ZA.2)49

Figures Figure C.1 -- Example of a graphic representation of "a"32

Figure ZA.1 -- Example CE marking information of products under AVCP system 1 and system 354