

Contents	Page
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Application classes	6
5 Constituents and production	6
6 Requirements	7
6.1 Form	7
6.2 Perforations and webs (internal geometry)	7
6.3 Dimensions	8
6.4 Formats	9
6.5 Content of harmful salts	10
6.6 Gross dry density	10
6.7 Compressive strength	11
6.8 Behaviour under the influence of moisture and frost	11
6.9 Water vapour diffusion resistance	12
6.10 Thermal conductivity	12
6.11 Fire behaviour	12
7 Designation	12
8 Labelling	13
9 Testing	13
9.1 Form, perforation, web and dimensions	13
9.1.1 Measurement procedure	13
9.1.2 Expression of results	13
9.2 Gross dry density	15
9.2.1 Procedure	15
9.2.2 Evaluation and expression of results	15
9.3 Net dry density	15
9.4 Compressive strength	15
9.4.1 Preparation of test specimens	15
9.4.2 Procedure	15
9.4.3 Evaluation and expression of results	16
9.4.4 Classification into the compressive strength classes	16
9.4.5 Content of harmful salts	16
9.5 Behaviour under the influence of moisture and frost	16
9.5.1 General	16
9.5.2 Immersion test	17
9.5.3 Contact test	17
9.5.4 Suction test	18
9.5.5 Freeze-thaw test	18
9.6 Water vapour diffusion resistance	19
9.7 Fire behaviour/building material class	20
9.8 Additional tests	20

10	Delivery ticket	20
11	Product data sheet	20
	Annex A (informative) Additional testing of earth blocks	22
A.1	Water vapour adsorption	22
A.1.1	General	22
A.1.2	Preparation	22
A.1.3	Procedure	22
A.1.4	Evaluation	22
A.1.5	Expression of results	22
A.2	Life cycle assessment	22
A.2.1	General	22
A.2.2	Environmental product declaration for earth blocks	23
A.2.3	Recycling	23
A.2.4	Landfill	24
A.3	Naturally occurring radionuclide activity and activity concentration index I	24
A.3.1	General	24
A.3.2	Procedure	24
A.3.3	Evaluation	24
A.3.4	Expression of results	24
	Bibliography	26
	Figure 1 -- Measurement procedure	14
	Figure 2 -- Temperature curve during a freeze-thaw test	19
	Tables Table 1 -- Application classes of earth blocks	6
	Table 2 -- Permissible area of perforations and minimum web thicknesses for earth blocks for load-bearing masonry	8
	Table 3 -- Permissible area of perforations and minimum web thicknesses for earth blocks for non-load-bearing masonry	8
	Table 4 -- Dimensions of earth blocks	9
	Table 5 -- Format symbols for earth blocks (examples)	9
	Table 6 -- Density classes for earth blocks	10
	Table 7 -- Compressive strength classes for earth blocks	11
	Table 8 -- Moisture and frost behaviour of earth blocks	12
	Table 9 -- Form factors	16