

STN	Komíny. Komínové systémy s plastovými vložkami. Požiadavky a skúšobné metódy.	STN EN 14471+A1 73 4216
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Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Oznámením tejto normy sa ruší
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English Version

**Chimneys - System chimneys with plastic flue liners -
Requirements and test methods**

Conduits de fumée - Système de conduits de fumée avec
conduits intérieurs en plastique - Prescriptions et méthodes
d'essai

Abgasanlagen - Systemabgasanlagen mit
Kunststoffinnenrohren - Anforderungen und Prüfungen

This European Standard was approved by CEN on 14 September 2013 and includes Amendment 1 approved by CEN on 3 November 2014.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents		Page
Foreword.....		7
Introduction		8
1 Scope		9
2 Normative references		9
3 Terms and definitions		11
4 Classification and designation.....		15
4.1 General.....		15
4.2 Temperature classes		16
4.3 Pressure classes.....		16
4.4 Sootfire resistance classes		16
4.5 Condensate resistance classes		16
4.6 Corrosion resistance classes.....		17
4.7 Thermal resistance		17
4.8 Distance to combustible material		17
4.9 Location		17
4.10 Reaction to fire.....		17
4.11 Outer wall classes.....		18
4.12 Designation		18
5 Dimensions and tolerances		18
6 Performance requirements		19
6.1 General.....		19
6.2 Resistance to the combination of mechanical and thermal load		19
6.2.1 General.....		19
6.2.2 Mechanical behaviour and stability		20
6.3 Components subject to wind load		21
6.4 Fire resistance.....		21
6.5 Hygiene, health and environment		21
6.5.1 Gas tightness		21
6.5.2 Recycling		21
6.6 Safety in use.....		21
6.6.1 Thermal performance		21
6.6.2 Resistance against condensate		22
6.6.3 Rainwater penetration resistance for insulated chimneys for external installation		22
6.6.4 Flow resistance		22
6.6.5 Terminals		23
6.7 Materials, durability		23
6.7.1 General.....		23
6.7.2 Characterization.....		23
6.7.3 Long-term resistance to thermal load		23
6.7.4 Long-term resistance to condensate exposure.....		24
6.7.5 Resistance to wet/dry cycling		25
6.7.6 Resistance against weathering		26
6.7.7 Geometrical stability		26
6.7.8 Reaction to fire.....		26
6.7.9 Freeze-thaw resistance		26
6.7.10 Seals and sealants.....		27
7 Test methods.....		27

7.1	General	27
7.2	Resistance to the combination of mechanical and thermal load	27
7.2.1	Test sample	27
7.2.2	Test performance	30
7.2.3	Test environment.....	30
7.3	Components subject to wind load.....	30
7.4	Fire resistance	31
7.5	Hygiene, health and environment.....	31
7.5.1	Gas tightness	31
7.5.2	Recycling.....	32
7.6	Safety in use	33
7.6.1	Thermal performance.....	33
7.6.2	Thermal resistance.....	33
7.6.3	Resistance against condensate	33
7.6.4	Rainwater penetration resistance for insulated chimneys for external installation.....	33
7.6.5	Flow resistance.....	34
7.6.6	Terminals.....	34
7.7	Materials	35
7.7.1	General	35
7.7.2	Characterization	35
7.7.3	Long-term resistance to thermal load	35
7.7.4	Long-term resistance to condensate exposure	36
7.7.5	Resistance to wet/dry cycling	37
7.7.6	Resistance against weathering.....	37
7.7.7	Geometrical stability	38
7.7.8	Reaction to fire	38
7.7.9	Freeze-thaw resistance	38
7.7.10	Seals and sealants	38
8	Dangerous substances	38
9	Product information	38
9.1	General	38
9.2	Minimum information to be included in the manufacturer's instructions	38
9.2.1	Information for the installer.....	38
9.2.2	Information for the user	39
9.2.3	Additional information to be included in the manufacturer's instructions:.....	39
10	Assessment and Verification of the Constancy of Performance (AVCP).....	41
10.1	General	41
10.2	Product type determinations.....	41
10.3	Further type testing.....	41
10.4	Continuous surveillance of FPC.....	41
10.5	Factory production control (FPC).....	42
10.5.1	General	42
10.5.2	Equipment	43
10.5.3	Raw materials and components	43
10.5.4	Product testing and evaluation.....	44
11	Marking and labelling.....	44
11.1	Marking chimney components.....	44
11.2	Chimney plate	45
Annex A	(normative) Test methods for characterization.....	46
Annex B	(informative) Examples of characterization	48
Annex C	(normative) Test methods to determine the effect to long-term thermal load, long-term condensate exposure, wet/dry cycling and resistance to UV.....	49
Annex D	(normative) Simplified calculation of thermal resistance for circular flues.....	50

Annex E (informative) Method for applying an evenly distributed load (horizontal)	52
Annex F (informative) Resistance to UV	53
Annex G (normative) Terminals	54
G.1 Characteristics of a terminal	54
G.1.1 General	54
G.1.2 Types of terminals	54
G.1.2.1 Type I	54
G.1.2.1.1 General	54
G.1.2.1.2 Type Ia	54
G.1.2.1.3 Type Ib	54
G.1.2.2 Type II	54
G.1.2.3 Type III	54
G.1.3 Wind direction characteristics	54
G.2 Requirements	55
G.2.1 General	55
G.2.2 Flow resistance of terminals Type I, II and III	55
G.2.3 Aerodynamic properties of terminals Type II and III	55
G.2.3.1 Terminal Type II	55
G.2.3.2 Terminal Type III	55
G.2.4 Rain water ingress	56
G.2.5 Icing behaviour	56
G.3 Characteristics of the terminal	56
G.3.1 Flow resistance	56
G.3.1.1 Flue duct for terminals Type I, II, III	56
G.3.1.2 Air duct for terminal Type III	56
G.3.2 Aerodynamic properties	57
G.3.2.1 Wind velocity pressure of a terminal Type II – for non room-sealed and room-sealed appliances	57
G.3.2.2 Wind velocity pressure of a terminal, Type III – for balanced flue applications	58
G.3.2.3 Recirculation factor of a terminal, Type III, (for room sealed appliances)	58
G.3.3 Rainwater ingress	59
G.3.4 Icing behaviour	59
Annex H (normative) Test methods for flow resistance	60
H.1 For terminal Type I, II and III, test method for flow resistance	60
H.1.1 Test apparatus	60
H.1.2 Test sample	60
H.1.3 Measurement parameters	60
H.1.4 Test condition	61

H.1.5	Test procedure	61
H.1.6	Test result	61
Annex I	(normative) Test methods for wind effects on pressure	64
I.1	For terminal Type II, test method for wind velocity pressure	64
I.1.1	Test apparatus	64
I.1.2	Test sample	64
I.1.3	Measurement parameters	64
I.1.4	Test condition	65
I.1.5	Test procedure	65
I.1.6	Test result	65
I.2	For a terminal Type III, test method for wind velocity pressure	65
I.2.1	Test apparatus	65
I.2.2	Test sample	66
I.2.3	Measurement parameters	66
I.2.4	Test condition	67
I.2.5	Test procedure	67
I.2.6	Test result	67
Annex J	(normative) Test methods for wind effects on recirculation	68
J.1	For terminal Type III, test method for recirculation	68
J.1.1	Test apparatus	68
J.1.2	Test sample	68
J.1.3	Measurement parameters	68
J.1.4	Test condition	68
J.1.5	Test procedure	69
J.1.6	Test result	69
Annex K	(normative) Test method for rain water ingress	70
K.1	For terminal Type Ib, II and III, test method without wind	70
K.1.1	Test apparatus	70
K.1.2	Test sample	70
K.1.3	Measurement parameters	70
K.1.4	Test condition	70
K.1.5	Test procedure	71
K.1.6	Test result	71
K.2	For terminal Type Ib, II and III, test method with wind	72
K.2.1	Test apparatus	72
K.2.2	Test sample	73
K.2.3	Measurement parameters	73
K.2.4	Test condition	73

K.2.5	Test procedure	73
K.2.6	Test result.....	74
Annex L	(normative) Test method of icing effects	76
L.1	For terminal Type II and III, test method for icing behaviour	76
L.1.1	Test apparatus	76
L.1.2	Test sample	76
L.1.3	Measurement parameters	76
L.1.4	Test condition	77
L.1.5	Test procedure	77
L.1.6	Test result.....	77
Annex ZA	(informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation	79
ZA.1	Scope and relevant characteristics	79
ZA.2	Procedure for AVCP of system chimneys with plastic flue liners and terminals	81
ZA.2.1	Systems of AVCP.....	81
ZA.2.2	Declaration of performance (DoP)	88
ZA.2.2.1	General	88
ZA.2.2.2	Content.....	88
ZA.2.2.3	Example of DoP	89
ZA.3	CE marking and labelling.....	93
Bibliography	96

Foreword

This document (EN 14471:2013+A1:2015) has been prepared by Technical Committee CEN/TC 166 "Chimneys", the secretariat of which is held by ASI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2015, and conflicting national standards shall be withdrawn at the latest by October 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 2014-11-04.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document supersedes A1 EN 14471:2013 A1.

The main modifications compared to EN 14471:2005 are the following:

- the Normative References were updated;
- additions were made in Clause 3 (Terms and definitions);
- Clause 4 was revised;
- the requirements in Clause 5 were completely revised;
- all annexes were revised and some annexes were added.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

The objective of this European Standard is to evaluate the behaviour of system chimneys with plastic flue liners.

A system chimney with a plastic flue liner may be a single wall chimney (only the plastic flue liner) or may be a double wall chimney or a flue liner with enclosure or with outer wall. The system chimney according to this standard can consist of a plastic liner only (e.g. single wall) or a system with plastic inner liner (e.g. concentric or with outer wall). The system chimney is defined by the manufacturer, whereas the requirements for the installation are defined by the national regulations of the member states.

1 Scope

This European Standard specifies the performance requirements and test methods for system chimneys with plastic flue liners used to convey the products of combustion from appliances to the outside atmosphere under dry and wet conditions. It also specifies the requirements for marking, manufacturer's instructions and evaluation of conformity.

This European Standard describes chimney components from which system chimneys can be assembled.

This European Standard is not applicable to chimneys with sootfire resistance classification class G.

This European Standard is not applicable for chimneys with the following classification:

corrosion resistance class 2 concerning natural wood¹⁾;

corrosion resistance class 3;

pressure class N2.

This European Standard is applicable to chimneys designed so that no condensate accumulation can occur, e.g. with a minimum inclination of 3° to the horizontal.

This European Standard is not applicable

- for system chimneys with plastic coated flue liners;
- to structurally independent (free-standing or self-supporting) chimneys.

Chimneys with components which need further processing during the installation to reach the final material properties are no system chimneys and therefore also not covered by this standard.

This European Standard does not cover the requirements for horizontal terminals (as defined for C1 installation types in CEN/TR 1749) regarding aerodynamic behaviour, rainwater ingress and icing behaviour.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1443:2003, *Chimneys — General requirements*

EN 13216-1:2004, *Chimneys — Test methods for system chimneys — Part 1: General test methods*

EN 13384-1:2002+A2:2008, *Chimneys — Thermal and fluid dynamic calculation methods — Part 1: Chimneys serving one appliance*

EN 13501-1:2007+A1:2009, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*

EN 13501-2, *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*

¹⁾ There is no sufficient knowledge on data for flue gas condensate from appliances fired with natural wood.

EN 14471:2013+A1:2015 (E)

EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

EN 14241-1, *Chimneys — Elastomeric seals and elastomeric sealants — Material requirements and test methods - Part 1: Seals in flue liners*

EN 14297, *Chimneys — Freeze-thaw resistance test method for chimney products*

EN 60529, *Degrees of protection provided by enclosures (IP code) (IEC 60529)*

EN ISO 75-1, *Plastics — Determination of temperature of deflection under load — Part 1: General test method (ISO 75-1)*

EN ISO 178, *Plastics — Determination of flexural properties (ISO 178)*

EN ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test (ISO 179-1)*

EN ISO 306, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST) (ISO 306)*

EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1)*

EN ISO 527-2, *Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics (ISO 527-2)*

EN ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics (ISO 1043-1)*

EN ISO 1133-1, *Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method (ISO 1133-1)*

EN ISO 1133-2, *Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 2: Method for materials sensitive to time-temperature history and/or moisture (ISO 1133-2)*

EN ISO 1183-1, *Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1)*

EN ISO 8256, *Plastics — Determination of tensile-impact strength (ISO 8256)*

EN ISO 9969, *Thermoplastics pipes — Determination of ring stiffness (ISO 9969)*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)*

EN ISO 11357-3, *Plastics — Differential scanning calorimetry (DSC) — Part 3: Determination of temperature and enthalpy of melting and crystallization (ISO 11357-3)*

EN ISO 14021, *Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling) (ISO 14021)*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN