

საქართველოს სტანდარტი

საკვამურები. მოთხოვნები ლითონის საკვამურებისთვის-ნაწილი 2: ლითონის
შუასადები და შეერთებული მილის საკვამური

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

საინფორმაციო მონაცემები

1 შემუშავებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ

2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2018 წლის 17 აგვისტოს № 85 განკარგულებით

3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 1856-2:2009 „საკვამურები. მოთხოვნები ლითონის საკვამურებისთვის-ნაწილი 2: ლითონის შუასადები და შეერთებული მილის საკვამური“

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 17 აგვისტო №268-1.3-013921

აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით გავრცელება

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

English Version

Chimneys - Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes

Conduits de fumée - Prescriptions relatives aux conduits de fumée métalliques - Partie 2: Tubages et éléments de raccordement métalliques

Abgasanlagen - Anforderungen an Metall-Abgasanlagen - Teil 2: Innenrohre und Verbindungsstücke aus Metall

This European Standard was approved by CEN on 7 May 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....4

Introduction5

1 Scope6

2 Normative references6

3 Terms and definitions7

4 Manufacturer’s declaration for type test7

5 Dimensions and tolerances7

6 Performance requirements8

6.1 Mechanical resistance and stability.....8

6.1.1 Rigid flue liners and rigid connecting flue pipes and fittings8

6.1.2 Flexible flue liners.....8

6.2 Resistance to fire9

6.2.1 Rigid flue liners and fittings9

6.2.2 Rigid connecting flue pipes and fittings9

6.2.3 Flexible flue liners and fittings9

6.3 Gas tightness9

6.4 Safety in use.....9

6.4.1 Thermal performance at normal operating conditions9

6.4.2 Accidental human contact10

6.4.3 Thermal resistance10

6.4.4 Water vapour diffusion resistance.....10

6.4.5 Condensate penetration resistance.....10

6.4.6 Flow resistance10

6.5 Durability11

6.5.1 Durability against corrosion11

6.5.2 Freeze thaw resistance13

6.5.3 Flue liner seals13

7 Product information.....13

7.1 Manufacturer’s instructions.....13

7.2 Minimum information to be included in the manufacturer’s documentation and instructions14

7.2.1 Rigid flue liners, rigid connecting flue pipes and fittings14

7.2.2 Flexible flue liners and fittings14

8 Marking and labelling14

8.1 Flue liners, rigid connecting flue pipes and fittings14

8.2 Chimney plate15

8.3 Packaging15

9 Product designation15

10 Evaluation of conformity.....18

10.1 General.....18

10.2 Type testing18

10.2.1 Initial type testing18

10.2.2 Further type testing19

10.2.3 Sampling for type testing.....19

10.3 Factory production control (FPC)19

10.3.1 General.....19

საინფორმაციო ნაწილი. სრული ტექსტის სახსრავად შეიძინეთ სტანდარტი.

10.3.2	Equipment	20
10.3.3	Raw materials and components	20
10.3.4	Product testing and evaluation	20
10.3.5	Non conforming products	21
Annex A	(normative) Test methods	22
A.1	Measure of diameter of flexible flue liner.....	22
A.1.1	Procedure	22
A.1.2	Results.....	22
A.2	Gas tightness	22
A.2.1	General	22
A.2.2	Conditioning and apparatus.....	22
A.2.3	Procedure	22
A.2.4	Results.....	22
A.3	Tensile strength.....	22
A.3.1	Test assembly.....	22
A.3.2	Procedure	23
A.3.3	Test results	23
A.4	Crushing resistance	23
A.4.1	Test apparatus	23
A.4.2	Procedure	23
A.4.3	Test results	23
A.5	Flexibility test.....	24
A.5.1	Test apparatus	24
A.5.2	Test conditioning.....	24
A.5.3	Procedure	24
A.5.4	Results.....	24
A.6	Torsion strength test.....	25
A.6.1	Test apparatus	25
A.6.2	Test assembly.....	25
A.6.3	Procedure	25
A.6.4	Results.....	26
A.7	Thermal performance test	26
A.7.1	Apparatus	26
A.7.2	Test structures.....	27
A.7.3	Test samples	28
A.7.4	Thermal test procedure.....	28
Annex B	(normative) Choice of size for type test and sampling	32
B.1	General	32
B.2	Thermal testing.....	32
B.3	Mechanical tests.....	32
B.4	Gas tightness	32
B.5	Samples.....	32
B.6	Factory production control.....	32
B.7	Nature of changes requiring further type test.....	32
Annex ZA	(informative) Relationship between this European Standard and the Essential Requirements of Construction Products Directive (89/106/EEC).....	33
ZA.1	Scope and relevant characteristics	33
ZA.2	Procedure(s) for attestation of conformity of rigid or flexible flue liners and rigid connecting flue pipes.....	36
ZA.2.1	System(s) of attestation of conformity.....	36
ZA.2.2	EC Declaration of conformity	37
ZA.3	CE marking and labelling.....	38
	Bibliography.....	43

Foreword

This document (EN 1856-2:2009) has been prepared by Technical Committee CEN/TC 166 “Chimneys”, the secretariat of which is held by UNI.

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 December 2009, and conflicting national standards shall be withdrawn at the latest by March 2011.

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 supersedes EN 1856-2:2004.

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 EC Directive 89/106/EEC.

For relationship with EC Directive 89/106/EEC, 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

Introduction

This document has been prepared to be a harmonised standard to provide means of conforming to the essential requirements of the Construction Product Directive and associated EFTA regulations.

The generic word “chimney”, when used in this document, refers to all products used to convey the products of combustion from appliances to the outside atmosphere, and thus includes all other terms of common use in the trade, such as: vents, flues, shafts, exhaust systems, ducts etc.

This document addresses the durability against corrosion by the use of material specifications for the metal flue liners and connecting flue pipes as well as an interim solution for testing products. Three corrosion resistance tests have been adopted from existing corrosion testing being undertaken in various member states (see Annex A of EN 1856-1:2009).