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ANNEXES 1 to 2

ANNEXES

to the

COMMISSION IMPLEMENTING DECISION

on a standardisation request to the European Committee for Standardisation as regards space heating appliances in support of Regulation (EU) No 305/2011 of the European Parliament and of the Council

ANNEX I

List of new European standards to be drafted, list of existing standards to be revised and list of draft standards to be completed as referred to in Article 1

Table 1: New European standard to be drafted and deadlines for its adoption

Reference information		Deadline for the adoption by CEN
1.	**Residential solid fuel burning appliances intended for mechanical fuelling with wood pellets and for manual fuelling with other solid fuel** prEN 16510-2-7:xxx - Residential solid fuel burning appliances – Part 2-7: Combination appliances fired by wood logs and pellets	1 January 2024

Table 2: List of existing standards to be revised and deadlines for their adoption

Reference information		Deadline for the adoption by CEN
1.	**Residential solid fuel burning freestanding appliances intended for space heating** Revision of EN 13240:2001, EN 13240:2001/A2:2004, EN 13240:2001/AC:2006 and EN 13240:2001/A2:2004/AC:2007 - Room heaters fired by solid fuel — Requirements and test methods as EN 16510-2-1:xxx - Residential solid fuel burning appliances – Part 2-1: Roomheaters	1 April 2022
2.	**Residential solid fuel burning built-in appliances intended for space heating** Revision of EN 13229:2001, EN 13229:2001/A1:2003, EN 13229:2001/ A2:2004, EN 13229:2001/AC:2006 and EN 13229:2001/A2:2004/AC:2007 - Inset appliances including open fires fired by solid fuels — Requirements and test methods as EN 16510-2-2:xxx - Residential solid fuel burning appliances – Part 2-2: Inset appliances including open fires	1 April 2022

	Reference information	Deadline for the adoption by CEN
3.	**Residential solid fuel burning appliances intended for cooking and space heating** Revision of EN 12815:2001, EN 12815:2001/A1:2004, EN 12815:2001/AC:2006 and EN 12815:2001/A1:2004/AC:2007 - Residential cookers fired by solid fuel — Requirements and test methods as EN 16510-2-3:xxx - Residential solid fuel burning appliances – Part 2-3: Cookers	1 April 2022
4.	**Residential solid fuel burning appliances intended for hot water preparation and space heating** Revision of EN 12809:2001, EN 12809:2001/A1:2004, EN 12809:2001/A1:2004/AC:2007 and EN 12809:2001/AC:2006- Residential Independent boilers burning solid fuel – Nominal heat output up to 50 kW as EN 16510-2-4:xxx - Residential solid fuel burning appliances – Part 2-4: Independent boiler appliances – Nominal heat output up to 50 kW	1 April 2022
5.	**Residential solid fuel burning appliances intended for space heating fired by wood pellets** Revision of EN 14785:2006 - Residential space heating appliances fired by wood pellets - Requirements and test methods as EN 16510-2-6:xxx - Residential solid fuel burning appliances – Part 2-6: Mechanical by wood pellets fed roomheaters, inset appliances and cookers	1 April 2022
6.	**Residential solid fuel burning appliances intended for slow heat release** Revision of EN 15250:2007 - Slow heat release appliances fired by solid fuel – Requirements and test methods as EN 16510-2-5:xxx - Residential solid fuel burning appliances – Part 2-5: Slow heat release appliances	1 January 2023
7.	**Residential solid fuel burning appliances intended for sauna heating**	1 January 2024

Reference information		Deadline for the adoption by CEN
	Revision of EN 15821:2010 – Multi-firing sauna stoves fired by natural wood logs – Requirements and test methods	
8.	**Residential liquid fuel burning appliances intended for space heating** Revision of EN 1:1998 and EN 1:1998/A1:2007 – Flued oil stoves with vaporizing burners	1 April 2023

ANNEX II

Requirements for the standards referred to in Article 1

Part A. General requirements for standards listed in Annex I

1. Legal structures to be supported by the harmonised standards

The harmonised standards shall support the establishment of a harmonised system as set out in Regulation (EU) No 305/2011.

The harmonised standards shall provide the methods and the criteria for assessing the performance of construction products in relation to their essential characteristics. Those essential characteristics shall be taken into account from the beginning and throughout the standardisation process.

2. Product scope

The liquid and solid fuel burning local space heating products covered by this standardization request are the following:

roomheaters for solid fuel;

inset appliances including open fires for solid fuel;

cookers for solid fuel;

independent boiler appliances for solid fuel – Nominal heat output up to 50 kW;

slow heat release appliances for solid fuel;

mechanical by wood pellets fed roomheaters, inset appliances and cookers;

combination appliances fired by wood logs and pellets;

multi-firing sauna stoves fired by natural wood logs;

oil stoves.

The intended use of the covered products is space heating in residential buildings. These products may be fitted with a boiler (integral part of the appliance containing water to be heated up) for the supply of hot water for central heating systems.

Appliances intended purely for central heating systems (a maximum of losses towards the room of 6 %) are not covered by this request.

Some products covered by this request may be used as well for cooking.

3. Potential uses

The liquid and solid fuel burning local space heating products covered by this standardization request could be used for the following:

space heating in residential buildings;

premises of the residential building to be heated directly or indirectly via supply of hot water for central heating systems;

premises of the residential building for cooking.

4. Descriptive features

The appropriate functioning of the products covered by this request depends on several necessary features which shall be taken into account in the standardisation work based on this request. These descriptive features are outlined in point 3 of Part B and in point 3 of Part C.

5. Applicable system of assessment and verification of constancy of performance

For liquid and solid fuel burning local space heating products covered by this request and by Commission Decision 1999/471/EC[1], taking into account the essential characteristics and the intended uses of the products, the applicable system for assessment and verification of constancy of performance (AVCP) is System 3.

6. Acceptability criteria

6.1. For publishing in the *Official Journal of the European Union* the references of the harmonised standards listed in Annex I, as laid down in Article 17 of Regulation (EU) No 305/2011, these standards are to fulfil the requirements of the harmonised system set out in or by means of that Regulation.

6.2. This entails in particular that their essential characteristics correspond to this standardisation request, that their content is in line with the general principles applicable to standardisation under Regulation (EU) No 305/2011, and that the procedures in place for verification before their adoption of their quality have been followed.

6.3. The standards shall only contain unequivocal dated normative references to other CEN standards or parts thereof. These standards or parts thereof may neither be in conflict with Union law nor provide for discretion where such discretion has not been laid down in Union law.

6.4. Standards shall not include normative references to other standards or parts thereof other than those fulfilling the conditions set out in points 6.1, 6.2. and 6.3, namely standards of other standardisation bodies.

[1] Commission Decision of 29 June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards space heating appliances, OJ L 184, 17.7.1999, p. 37.

Part B. Specific requirements for standards listed in Table 1 of Annex I

1. Requirements for all standards

Standards shall reflect the state of art.

The harmonised standards shall refer to intended uses of products to be covered by them, as laid down in point 2 of part B.

CEN may establish in the harmonised standards classes and threshold levels for performance in relation to the essential characteristics of those products, taking into account Commission Regulation (EU) 2015/1185[2] and Commission Regulation (EU) 2015/1189[3].

The applicable rules for factory production control and the technical details necessary for the implementation of the system of assessment and verification of constancy of performance shall also be specified in the harmonised standards.

For the basic requirement for construction works (BWR) number 7, sustainable use of natural resources, the harmonised standards shall identify and enumerate all the relevant elements of performance related to the whole life cycle of the products concerned. This standardisation work shall be based on the modules included in standard EN 15804:2012+A2:2019. CEN shall follow the general alignment between EN 15804 and the concept of product environmental footprint (FEP).

During the standardisation work, CEN shall determine all necessary product category rules to enable the whole life cycle analysis of the products concerned and the declaration of their performance in relation to the essential characteristic environmental sustainability. This shall comprise in particular the definition of the scenarios required for this complete period, including the reference service life, where appropriate.

The harmonised standards shall also prescribe that, when a manufacturer wants to declare the performance of its product in relation to the essential characteristic environmental sustainability, the manufacturer shall present in the declaration of performance the results of the assessment of all those elements of performance specified in the harmonised standard in question.

2. Requirements for specific standards

CEN shall draft new harmonised standards, containing the essential characteristics listed in points 2.1. to 2.7.

2.1. BWR 1: Mechanical resistance and stability

Essential characteristic	EN 16510-2-7
Load bearing capacity	

2.2. BWR 2: Safety in case of fire

[2] Commission Regulation (EU) 2015/1185 of 28 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel space heaters (OJ L 193, 21.7.2015, p. 1).

[3] Commission Regulation (EU) 2015/1189 of 28 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for solid fuel boilers (OJ L 193, 21.7.2015, p. 100).

Table 3: Essential characteristics

Essential characteristic	EN 16510-2-7
Protection of combustible materials	

2.3. BWR 3: Hygiene, health and the environment

The emissions of combustion products are to be evaluated at nominal heat output and at part load heat output, if part load is specified.

Table 4: Essential characteristics

	Essential characteristics	EN 16510-2-7
[Nominal heat output]	Carbon monoxide emission (CO)	
	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Particulate matter emissions (PM)	
[Part load heat output]	Carbon monoxide emission (CO)	
	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Particulate matter emissions (PM)	

Table 5: Threshold levels for emissions according to appliance types

Emission	**Appliance types**	**Threshold at 13 % O2**
Organic gaseous compounds (OGC)	open fronted solid fuel local space heaters	120 mgC/m3
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets including cookers	
	closed fronted solid fuel local space heaters using compressed wood in form of pellets including cookers	60 mgC/m3
Carbon monoxide (CO)	open fronted solid fuel local space heaters	2000 mg/m^3
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets including cookers	1500 mg/m^3
	closed fronted solid fuel local space heaters using	300 mg/m^3

	compressed wood in form of pellets including cookers	
Nitrogen oxides (NOx) expressed as NO_2	open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using biomass	200 mg/m^3
	open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using fossil solid fuel	300 mg/m^3
Particulate matter (PM)	open fronted solid fuel local space heaters	50 mg/m^3
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers	40 mg/m^3
	closed fronted solid fuel local space heaters using compressed wood in form of pellets	20 mg/m^3

The threshold levels set out in Table 5 for OGC, CO, NOx and PM shall be applied for the performance assessed at nominal heat output.

2.4. BWR 4: Safety and accessibility in use

The data for the installation to a chimney are to be evaluated at nominal heat output, at safety test heat output and at part load heat output, if part load is specified.

Table 6: Essential characteristics

	Essential characteristics	EN 16510-2-7
Data for installation to a chimney at nominal heat output	Flue gas outlet temperature	
	Minimum flue draught	
	Flue gas mass flow	
Data for installation to a chimney at part load heat output, if part load is specified	Flue gas outlet temperature	
	Minimum flue draught	
	Flue gas mass flow	
Data for installation to a chimney regarding fire safety at safety test heat output	Fire safety of installation to the chimney	

2.5. BWR 5: Protection against noise

No standardisation needs identified.

2.6. BWR 6: Energy economy and heat retention

The heat output and the heat losses of the product are to be evaluated at nominal heat output and at part load heat output, if part load is specified.

Table 7: Essential characteristics

		EN 16510-2-7
Appliance´s thermal output and energy efficiency, to be evaluated at nominal heat output	Space heat output	
	Water heat output, if existing	
	Efficiency	
Appliance´s thermal output and energy efficiency, to be evaluated at part load heat output, if part load is specified	Space heat output	
	Water heat output, if existing	
	Efficiency	
Space heating efficiency	Seasonal space heating efficiency at appliance´s nominal heat output	
	Energy efficiency	
	Electric power consumption at appliance´s nominal and part load heat output, if existing	
	Standby mode power consumption, if existing	

Table 8: Threshold levels of seasonal space heating energy efficiency according to appliance types

Appliance types	**Threshold level**
open fronted solid fuel local space heaters	30 %
closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets	65 %
closed fronted solid fuel local space heaters using compressed wood in the form of pellets	79 %

Table 9: Energy efficiency classification based on the energy efficiency index (EEI)

Energy efficiency class	Energy efficiency index (EEI)
A++	$EEI \geq 130$
A+	$107 \leq EEI < 130$
A	$88 \leq EEI < 107$
B	$82 \leq EEI < 88$
C	$77 \leq EEI < 82$
D	$72 \leq EEI < 77$
E	$62 \leq EEI < 72$
F	$42 \leq EEI < 62$
G	$EEI < 42$

2.7. BWR 7: Sustainable use of natural resources

Table 10: Essential characteristics and their elements

	EN 16510-2-7
Environmental sustainability: Global Warming Potential total (GWP-total) Global Warming Potential (GWP-fossil) Global Warming Potential (GWP-biogenic) Global Warming Potential land use and land use change (GWP-luluc) Depletion potential of the stratospheric ozone layer (ODP) Acidification potential, Accumulated Exceedance (AP) Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater) Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-marine) Eutrophication potential, Accumulated Exceedance (EP-terrestrial) Formation potential of tropospheric ozone (POCP) Abiotic depletion potential for non-fossil resources (ADP-minerals&metals) Abiotic depletion potential for fossil resources (ADP-fossil) Water (user) deprivation potential, deprivation-weighted water consumption (WDP) Hazardous waste disposed Non-hazardous waste disposed	

Radioactive waste disposed Use of renewable primary energy excluding renewable primary energy resources used as raw materials Use of renewable primary energy resources used as raw materials Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials Use of non-renewable primary energy resources used as raw materials Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) Use of secondary material Use of renewable secondary fuels Use of non-renewable secondary fuels Use of net fresh water Components for re-use Materials for recycling Materials for energy recovery Exported energy	

3. Descriptive features to be dealt with in the specific standards

The products covered by the standards listed in Table 1 of Annex I are to contain certain specific features, varying by each standard and products covered by it. Those features shall be described in the harmonised standard, where appropriate, in order to ensure the correct functioning of the products in question.

Table 11: Descriptive features

	EN 16510-2-7
Data for potential use with room ventilation systems: type of appliance (in relation to its tightness to the room)	
Data for the building's statics:appliance's mass	
Materials and construction elements: (a) general stresses; (b) integral boiler or heat exchanger.	
Risk of burning fuel falling out	
Temperature rise in the fuel storage	

Temperature rise of the operating components	
Spillage of flue gases into the room: (a) possible spillage of CO, if relevant for the fuel type; (b) open operation.	
Cleanability (a) heating surfaces; (b) flueways; (c) ashpan; (d) bottomgate; (e) damper; (f) fan-cut-out-device.	
Strength and leak tightness of boiler shells	

Part C. Specific requirements for revision of existing standards listed in Table 2 of Annex I

1. Requirements for all standards

Standards shall reflect the state of art.

The harmonised standards shall refer to intended uses of products to be covered by them, as laid down in point 2 of part B.

CEN is authorised to establish in the harmonised standards classes and threshold levels for performance in relation to the essential characteristics of those products, taking into account Regulation (EU) 2015/1185 and Regulation (EU) 2015/1189.

The applicable rules for factory production control and the technical details necessary for the implementation of the system of assessment and verification of constancy of performance shall also be specified in the harmonised standards.

For the basic requirement for construction works number 7, sustainable use of natural resources, the harmonised standards shall identify and enumerate all the relevant elements of performance related to the whole life cycle of the products concerned. This standardisation work shall be based on the modules included in standard EN 15804:2012+A2:2019. CEN shall follow the general alignment between EN 15804 and the concept of product environmental footprint (FEP).

During the standardisation work, CEN shall determine all necessary product category rules, to enable the whole life cycle analysis of the products concerned and the declaration of their performance in relation to the essential characteristic environmental sustainability. This shall comprise in particular the definition of the scenarios required for this complete period, including the reference service life, where appropriate.

The harmonised standards shall also prescribe that, when a manufacturer wants to declare the performance of its product in relation to the essential characteristic environmental sustainability, the manufacturer shall present in the declaration of performance the results of the assessment of all those elements of performance specified in the harmonised standard in question.

2. Requirements for specific standards

CEN shall draft new harmonised standards, containing the essential characteristics listed in points 2.1. to 2.7.

2.1. BWR 1: Mechanical resistance and stability

[Essential characteristic]	EN 16510-2-1, EN 16510-2-5, EN 16510-2-6, EN 15821
Load bearing capacity	

2.2. BWR 2: Safety in case of fire

Table 12: Essential characteristics

Essential characteristic	EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821, EN 1
Protection of combustible materials	

2.3. BWR 3: Hygiene, health and the environment

The emissions of combustion products are to be evaluated at nominal heat output and at part load heat output, if part load is specified.

Table 13: Essential characteristics for solid fuel space heating appliances

		EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821
[Nominal heat output]	Carbon monoxide emission (CO)	
	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Particulate matter emissions (PM)	
[Part load heat output]	Carbon monoxide emission (CO)	
	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Particulate matter emissions (PM)	

Table 14: Essential characteristics for oil stoves

		EN 1
[Nominal heat output]	Carbon monoxide emission (CO)	

	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Smoke number	
[Part load heat output]	Carbon monoxide emission (CO)	
	NOx emissions	
	Emission of organic gaseous compounds (OGC)	
	Smoke number	

For closed fronted liquid fuel local space heaters, covered by this standardisation request, the threshold level for NOx emissions is to be set at 130 mg/kWh$_{input.}$

Table 15: Threshold levels for emissions according to solid fuel space heating appliance types

Emission	**Appliance types**	**Threshold at 13 % O2**
Organic gaseous compounds (OGC)	open fronted solid fuel local space heaters	120 mgC/m3
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets including cookers	
	closed fronted solid fuel local space heaters using compressed wood in form of pellets including cookers	60 mgC/m3
Carbon monoxide (CO)	open fronted solid fuel local space heaters	2000 mg/m^3
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets including cookers	1500 mg/m^3
	closed fronted solid fuel local space heaters using compressed wood in form of pellets including cookers	300 mg/m^3
Nitrogen oxides (NOx) expressed as NO_2	open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using biomass	200 mg/m^3
	open fronted solid fuel local space heaters, closed fronted solid fuel local space heaters and cookers using fossil solid fuel	300 mg/m^3
Particulate matter (PM)	open fronted solid fuel local space heaters	50 mg/m³
	closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets and cookers	40 mg/m³

Emission	Appliance types	Threshold at 13 % O2
	closed fronted solid fuel local space heaters using compressed wood in form of pellets	20 mg/m³

The threshold levels foreseen in Table 15 for OGC, CO, NOx and PM shall be applied for the performance assessed at nominal heat output.

For sauna stoves (EN 15821), the threshold levels for OGC, CO and NO_x shall also be determined separately.

2.4. BWR 4: Safety and accessibility in use

The data for the installation to a chimney are to be evaluated at nominal heat output, at safety test heat output and at part load heat output, if part load is specified.

Table 16: Essential characteristics

		EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821, EN 1
Data for installation to a chimney at nominal heat output	Flue gas outlet temperature	
	Minimum flue draught	
	Flue gas mass flow	
Data for installation to a chimney at part load heat output, if part load is specified	Flue gas outlet temperature	
	Minimum flue draught	
	Flue gas mass flow	
Data for installation to a chimney regarding fire safety at safety test heat output	Fire safety of installation to the chimney	

2.5. BWR 5: Protection against noise

No standardisation needs identified.

2.6. BWR 6: Energy economy and heat retention

The heat output and the heat losses of the product are to be evaluated at nominal heat output and at part load heat output, if part load is specified.

Table 17: Essential characteristics

		EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821, EN 1
Appliance´s thermal output and energy efficiency, to be evaluated at nominal heat output	Space heat output	
	Water heat output, if existing	
	Efficiency	
Appliance´s thermal output and energy efficiency, to be evaluated at part load heat output, if part load is specified	Space heat output	
	Water heat output, if existing	
	Efficiency	
Space heating efficiency	Seasonal space heating efficiency at appliance´s nominal heat output	
	Energy efficiency	
	Electric power consumption at appliance´s nominal and part load heat output, if existing	
	Standby mode power consumption, if existing	

Table 18: Threshold levels of seasonal space heating energy efficiency according to appliance types

Appliance types	**Threshold level**
open fronted solid fuel local space heaters	30 %
closed fronted solid fuel local space heaters using solid fuel other than compressed wood in the form of pellets	65 %
closed fronted solid fuel local space heaters using compressed wood in the form of pellets	79 %
closed fronted liquid fuel local space heaters	72 %
cookers	65 %

Table 19: Energy efficiency classification based on the energy efficiency index (EEI)

Energy efficiency class	Energy efficiency index (EEI)
A++	$EEI \geq 130$
A+	$107 \leq EEI < 130$
A	$88 \leq EEI < 107$
B	$82 \leq EEI < 88$
C	$77 \leq EEI < 82$
D	$72 \leq EEI < 77$
E	$62 \leq \text{EEI} < 72$
F	$42 \leq EEI < 62$
G	$EEI < 42$

The classification foreseen in Table 19 shall not be applicable to sauna stoves.

2.7. BWR 7: Sustainable use of natural resources

Table 20: Essential characteristics and their elements

	EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821, EN 1
Environmental sustainability: Global Warming Potential total (GWP-total) Global Warming Potential (GWP-fossil) Global Warming Potential (GWP-biogenic) Global Warming Potential land use and land use change (GWP-luluc) Depletion potential of the stratospheric ozone layer (ODP) Acidification potential, Accumulated Exceedance (AP) Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater) Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-marine) Eutrophication potential, Accumulated Exceedance (EP-terrestrial) Formation potential of tropospheric ozone (POCP) Abiotic depletion potential for non-fossil resources	

(ADP-minerals&metals) Abiotic depletion potential for fossil resources (ADP-fossil) Water (user) deprivation potential, deprivation-weighted water consumption (WDP) Hazardous waste disposed Non-hazardous waste disposed Radioactive waste disposed Use of renewable primary energy excluding renewable primary energy resources used as raw materials Use of renewable primary energy resources used as raw materials Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials Use of non-renewable primary energy resources used as raw materials Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) Use of secondary material Use of renewable secondary fuels Use of non-renewable secondary fuels Use of net fresh water Components for re-use Materials for recycling Materials for energy recovery Exported energy	

3. Descriptive features to be dealt with in the specific standards

The products covered by the standards listed in Table 2 of Annex I are to contain certain specific features, varying by each standard and products covered by it. Those features shall be described in the harmonised standard, where appropriate, in order to ensure the correct functioning of the products in question.

Table 21: Descriptive features

	EN 16510-2-1, EN 16510-2-2, EN 16510-2-3, EN 16510-2-4, EN 16510-2-5, EN 16510-2-6, EN 15821, EN 1
Data for potential use with room ventilation systems: type of appliance (in relation to its tightness to the room)	
Data for the building's statics: appliance's mass	
Materials and construction elements: (a) general stresses; (b) integral boiler or heat exchanger.	
Risk of burning fuel falling out	
Temperature rise in the fuel storage	
Temperature rise of the operating components	
Spillage of flue gases into the room: (a) possible spillage of CO, if relevant for the fuel type; (b) open operation.	
Cleanability (a) heating surfaces; (b) flueways; (c) ashpan; (d) bottomgate; (e) damper; (f) fan-cut-out-device.	
Strength and leak tightness of boiler shells	