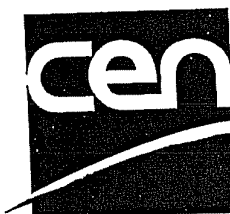


A/22349

MF



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

DG ENTREPRISE & INDUSTRY I5	
Reçu le	07. 08. 2007
N° Adonis:	A/22349

Mr. P. Ortún
European Commission
DG ENTR/13 "Standardization"
B 100 04/020
B-1049 BRUSSELS

2007-07-30

Ref. STDPOL/013

Subject: Revised answer to mandate M/129

Dear Mr. Ortún,

Please find herewith the revised answer of CEN/TC 295 "Residential solid fuel burning appliances" to the mandate M/129 "Space heating appliances", for your acceptance.

As agreed with the Commission Services, you will also find attached the comments of Mr. Joël Cuche, CEN Consultant, on the answer of CEN/TC 295.

Yours sincerely,

G. Malcorps
Senior Manager
Standards Policy

c.c. Mr. Reinhard Klein
Mrs. C. Vanden Schrieck

Cucche Joël
CEN Consultant
Avenue d'Oppem, 124
B 1970 Wezembeek-Oppem
Tél. : 00 32 (0)2 731.60.67
Fax : 00 32 (0)2 784.23.66
GSM : 00 32 (0)473 94.40.28
E mail : joel.cucche@skynet.be

Wezembeek, the 1st July 2006

CEN
Att. Mr Da Costa

Subject: CEN/TC295

Dear Amílcar

I have examined in details the revised answer to the Mandate M129 by TC295 under the document TC295N275 and I have neither comments nor objections to submit the document to the Commission's approval.

Sincerely yours

J. CUCHE

IMAM Sabine (ENTR)

From: TORRENT PUJOL Montserrat (ENTR)

Sent: lundi 6 août 2007 16:56

To: ENTR //5 CONSTRUCTION & PRESSURE EQUIPMT

Subject: Fiche adonis en attente: ENTR/I3 : REVISED ANSWER TO MANDATE M/129

Le courrier < ENTR/I3 : REVISED ANSWER TO MANDATE M/129 > a été enregistré dans Adonis sous la référence [I(2007)A/22349.--].
Attribution d'un courrier "arrivée" en copie (ou associé).

http://adoweb.app.entr.cec.eu.int/index.htm?ACTION=SHOW_DOC&IDGEN=070301000677952

7/08/2007

RESOLUTIONS TAKEN BY CEN/TC 295

Resolution 09/2002 taken by CEN/TC295 on 2002-12-13

Subject: CEN/TC 295 – Acceptance of document TC295/WG8/N10Rev2 at Stage 32

TC295 decides to accept the document TC295/WG8/N10 Rev 2 – Residential space-heating appliances fired by wood pellets – Requirements and test methods as a stage 32 document. The document is to be progressed to become a stand-alone candidate harmonised standard on the basis of regulations existing in member states. TC295 agrees that the document can be submitted for Public Enquiry following the addition of the Annex ZA.
The decision is taken by unanimity

Resolution 01/2004 of CEN/TC295

TC295 agrees by unanimity for the secretary to stop the WI for an amendment dealing with the WI on Slow heat release appliance and apply for a separate WI to produce a separate harmonised standard.

Document identification: CEN/TC295 N 275

Technical Committee TC 295

REVISED ANSWER

Date 2006-02-06

Documents	Reference Number	Date of issue
Mandate number	M 129	30 April 1999
Original answer to the Mandate	CEN/TC295 N192	13 September 2000
Commission's acceptance	Letter DG ENTR/HCS D(00) answering CEN letters dated 13 November 2000 and 2 January 2001	2001 (no exact date mentioned on document)
1 st amendment of the answer to the mandate	CEN/TC295 N275	February 2006

List of changes :

Clause of the original document	Reason for the change (short description)	Supporting information (if relevant)
New Product (New Item E)	<i>CEN/TC 295 has also agreed by resolution to produce a new harmonised standard covering "Residential space heating appliances fired by wood pellets" (see new item E in Amendment 1 to Mandate response below).</i>	See attached Resolution 09/2002
New Product (New Item F)	<i>CEN/TC 295 has agreed by resolution to produce a new harmonised standard to cover "Slow heat release appliances fired by solid fuel" (see new item F in Amendment 1 to Mandate response below).</i>	See attached Resolution 01/2004

roomheaters having space heating output and fitted with boiler. These independent boilers are subject to Building Regulations and Clean Air control in the UK in the same way as the other residential appliances specifically referred to in the mandate.

0.6) **Liaison with other TCs for certain horizontal tests - Information on the organisation of the work between the TCs:**

Electrical safety was not covered in the original four voluntary standards but was covered in the amendments which converted the four voluntary standards to harmonised ENs by making normative references to EN 50165 from CENELEC/BTTF 60-3 on product requirements where electrical equipment is fitted as part of the appliance. The two proposed new harmonised standards will address electrical safety in the same manner as the four already published, harmonised ENs,

0.7) **Other issues which the TC considers necessary for the comprehension of the answer to the mandate:**

CEN TC/295 expresses concern that the level chosen (a simple system 3) for the Attestation of Conformity for these products is not stringent enough in the light of potential poisonous fume emissions and fire hazard which can arise if the appliance is poorly designed or badly constructed. It asks the Commission to revisit this decision and makes the following comments in support of the adoption of an extended System 3 for the Attestation of Conformity.

CEN/TC 295 is aware, from the Report of the Standing Committee for Construction which deliberated on this matter at its meeting in October 1998, of the answers given to the four questions laid down under Article 13.4 of the CPD. CEN TC/295 agrees with the answers to questions (b) and (c) but does not agree with the answers to questions (a) and (d) recorded by the Committee and which led to the choice of system 3.

CEN/TC 295 believes that the answer to question (a) relating to health and safety should be "high" (not medium) on the grounds that a solid mineral fuel fired residential heating appliance, if incorrectly designed and constructed, can result in the occupants' death or serious ill health from the emission of carbon monoxide and other noxious fumes.

CEN/TC 295 believes that the answer to question (d) relating to susceptibility to defects should be "likely to be susceptible". Again it is very possible that poor production control could lead to the manufacture of appliances which would be sufficiently defective as to cause death or serious illness from emission of carbon monoxide or other fumes into the living accommodation. It is also possible that emission of hot combustion products or hot fuel from a poorly designed or constructed appliance will produce a fire hazard.

CEN/TC 295 agrees that I.T.T. by an approved body is necessary but in the light of its view on the answers to questions (a) and (d) laid out above considers there is a need for ongoing inspection of the product to ensure continuing conformity to Type. CEN/TC 295 believes that this must be independently carried out by the approved testing body. The nature and frequency of this product inspection will be laid down in the respective hEN. [Note. This may be different for factory assembled or site assembled products.] In the carrying out of these tasks CEN/TC 295 considers that the involvement of a Certification body is not required.

CEN/TC 295 therefore requests that an extended System 3 is laid down for solid fuel fired heating appliances.

A RESIDENTIAL SOLID FUEL BURNING APPLIANCES

A.1 Harmonised product standard

EN 12809, WI 00295004

Dates of availability
Stage 32: 31/01/2001
Stage 49: 28/02/2002

1) Title: *Residential independent boilers fired by solid fuel - Requirements and test methods*

ii) Scope: *The standard is applicable to hand and automatically fired appliances having nominal heat outputs up to 50 kW, the primary function of which is to provide hot water for central heating and/or domestic use, and which are designed for use only with open vented systems at a working pressure not exceeding 2 bar. In addition to their primary function of providing hot water these appliances also provide direct space heating to the place of installation. These appliances may burn either solid mineral fuels, peat briquettes or natural or manufactured wood logs or identifiable biomass based products or be multifuel in accordance with the appliance manufacturer's instructions.*

The standard is not applicable to independent boilers for hot water only production and having heat outputs of less than 5 kW.

The standard is also not applicable to the design and construction of automatic stoking devices.

(iii) Intended use: *Internal installation into residential buildings to provide individual hot water for central heating and/or domestic use and also provide direct space heating into the place of installation.*

(iv) Essential characteristics: *The essential characteristics according to the mandate which are dealt with in the above standard are as follows:*

- safety in case of fire*
- emission of combustion products*
- release of dangerous substances*
- surface temperature*
- electrical safety*
- cleanability*
- maximum operating pressure*
- flue gas temperature*
- mechanical resistance (to carry a chimney flue)*
- sound (this item is not relevant – less than 50dbA)*
- thermal output*
- energy efficiency*
- thermal storage capacity (thermal inertia) (this item is not relevant)*

(v) Durability: *The shape and dimensions of the components and equipment and the method of design and manufacture, and if assembled on site the method of assembly and installation, will ensure that when operated in accordance with the appropriate test(s) and exposed to the associated mechanical, chemical and thermal stresses, the appliance will operate reliably and safely such that during normal operation, no combustion gases posing a hazard can escape into the room in which the appliance is installed nor can embers fall out. The appliance will be required to meet the material requirements as appropriate to the type of construction and intended usage as detailed in the standard. The appliance will be deemed to be capable of operating safely at a permissible maximum water operating pressure as declared by the manufacturer if it meets the requirements of the*

Sound

This characteristic is not applicable to appliances covered by EN 12809 as the sound level is below 50dbA.

Thermal output / Energy efficiency

EN 12809 Clauses 6.1, 6.2, 6.4, 6.5, and 6.6

Thermal storage capacity (thermal inertia)

This characteristic is not applicable to appliances covered by EN 12809

Durability

EN 12809 Clauses 4.2

A.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

A residential independent boiler is used as an individual heating appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard EN 12809 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in A.1 above

3.3 Requests for clarification on the intended uses concerning the product in A.1 above:

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under A.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products.

3.5 Information on essential characteristics required by the mandate concerning the product in A.1 above, for which no work has yet been started in the TC, or for which the TC cannot provide a standard:

B RESIDENTIAL SOLID FUEL BURNING APPLIANCES

B.1 Harmonised product standard

EN 12815, WI 00295001

Dates of availability
Stage 32: 31/01/2001
Stage 49: 28/02/2002

- 1) Title: *Residential independent cookers fired by solid fuel - Requirements and test methods*
- ii) Scope: *This Standard is applicable to hand fired appliances whose primary function is to cook and whose secondary function is to provide heat into the space in which they are installed. Additionally, where fitted with a boiler, they also provide domestic hot water and/or central heating. These appliances may burn either solid mineral fuels, peat briquettes, natural or manufactured wood logs or be multi-fuel in accordance with the appliance manufacturer's instructions.*
- This standard is not applicable to hopper fed or mechanically fired appliances or those appliances having fan assisted combustion air.*
- (iii) Intended use: *Internal installation into residential buildings to provide a cooking facility and also provide space heating into the place of installation and where a boiler is fitted to provide individual hot water for central heating and/or domestic use.*
- (iv) Essential characteristics: *The essential characteristics according to the mandate which will be dealt with in the above standard are as follows:*
- safety in case of fire
 - emission of combustion products
 - release of dangerous substances
 - surface temperature
 - electrical safety
 - cleanability
 - maximum operating pressure
 - flue gas temperature
 - mechanical resistance (to carry a chimney flue)
 - sound (this item is not relevant – less than 50dbA)
 - thermal output
 - energy efficiency
 - thermal storage capacity (thermal inertia) (this item is not relevant)
- (v) Durability: *The shape and dimensions of the components and equipment and the method of design and manufacture, and if assembled on site the method of assembly and installation, will ensure that when operated in accordance with the appropriate test(s) and exposed to the associated mechanical, chemical and thermal stresses, the appliance will operate reliably and safely such that during normal operation, no combustion gases posing a hazard can escape into the room in which the appliance is installed nor can embers fall out. The appliance will be required to meet the material requirements as appropriate to the type of construction and intended usage as detailed in the standard. The appliance will be deemed to be capable of operating safely at a permissible maximum water operating pressure as declared by the manufacturer if it meets the requirements of the type pressure test described in the standard.*

Thermal storage capacity (thermal inertia)

This characteristic is not applicable to appliances covered by EN 12815

Durability

EN 12815 Clause 4.2

B.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

A residential cooker is used as an individual combined heating and cooking appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard EN 12815 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in B.1 above

3.3 Requests for clarification on the intended uses concerning the product in B.1 above:

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under B.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products.

3.5 Information on essential characteristics required by the mandate concerning the product in B.1 above for which no work has yet been started in the TC, or for which the TC cannot provide a standard:

3.6 Explanation of the state of the art concerning durability issues

The standard EN 12815 deals with the general durability issues of the appliance in clause 4.2. The standard also cites in clause 4.2 the relevant clauses that specify the allowable material types and thicknesses from which the appliance may be constructed. The material types and thicknesses having been specified taking into account the particular application/usage in relation to the mechanical, chemical and thermal stresses that occur for this type of appliance.

C RESIDENTIAL SOLID FUEL BURNING APPLIANCES

C.1 Harmonised product standard

EN 13229, WI 00295003

Dates of availability
Stage 32: 31/01/2001
Stage 49: 28/02/2002

1) Title: *Inset appliances including open fires fired by solid fuel - Requirements and test methods*

ii) Scope: *This Standard is applicable to hand fired appliances whose primary function is to provide heat into the space in which they are installed and which are listed under categories 1b, 1c, 2b, 2c, 3a, 3b and 3c of table 1 of EN 13229. Additionally, where fitted with a boiler, they also provide domestic hot water and/or central heating. These appliances may burn either solid mineral fuels, peat briquettes, natural or manufactured wood logs or be multi-fuel in accordance with the appliance manufacturer's instructions. The surround of the appliance is integrated with the building with the exception of free-standing appliances and inset appliances which are installed into a fireplace recess or enclosure.*

This standard also covers 'Kachelöfen' and 'Putzöfen' inset appliances having nominal heat outputs up to 15 kW in accordance with category 1c of table 1 of EN 13229.

This standard is not applicable to appliances having fan assisted combustion air.

Open fireplace components such as a bottomgrate with associated firefront which the manufacturer supplies for installation into an existing heat resistant, insulated firebox are not covered by this standard.

(iii) Intended use: *Internal installation into residential buildings to provide space heating into the place of installation and where a boiler is fitted to provide individual hot water for central heating and/or domestic use.*

(iv) Essential characteristics: *The essential characteristics according to the mandate which will be dealt with in the above standard are as follows:*

- safety in case of fire
- emission of combustion products
- release of dangerous substances
- surface temperature
- electrical safety
- cleanability
- maximum operating pressure
- flue gas temperature
- mechanical resistance (to carry a chimney flue)
- sound (this item is not relevant – less than 50dbA)
- thermal output
- energy efficiency
- thermal storage capacity (thermal inertia) (this item is not relevant)

(v) Durability: *The shape and dimensions of the components and equipment and the method of design and manufacture, and if assembled on site the method of assembly and installation, will ensure that when operated in accordance with the appropriate test(s) and exposed to the associated mechanical, chemical and thermal stresses, the appliance will operate reliably and safely such that during normal operation, no combustion gases posing a hazard can escape into the room in which the appliance is installed nor can embers fall out. The appliance will be required to meet the material requirements as appropriate to the type of construction and intended usage as detailed in the standard. The appliance will be deemed to be capable of operating safely at a permissible maximum water*

Sound

This characteristic is not applicable to appliances covered by EN 13229 as they operate on natural draught and the sound level is below 50dbA.

Thermal output / Energy efficiency

EN 13229 Clauses 6.1, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9 and 6.10

Thermal storage capacity (thermal inertia)

This characteristic is not applicable to appliances covered by EN 13229

Durability

EN 13229 Clause 4.2

C.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

An inset appliance or open fire is used as an individual heating appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard EN 13229 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in C.1 above

3.3 Requests for clarification on the intended uses concerning the product in C.1 above:

CEN/TC 295 has recently produced Amendment 1 to EN 13229 which covers 'Kachelöfen' and 'Putzöfen' inset appliances having nominal heat outputs up to 15 kW in accordance with category 1c of table 1 of EN 13229.

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under C.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products

3.5 Information on essential characteristics required by the mandate concerning the product in C.1 above, for which no work has yet been started in the TC, or for which the TC cannot provide a standard:

D RESIDENTIAL SOLID FUEL BURNING APPLIANCES

D.1 Harmonised product standard

EN 13240, WI 00295002

Dates of availability
Stage 32: 31/01/2001
Stage 49: 28/02/2002

1) Title: *Roomheaters fired by solid fuel - Requirements and test methods*

ii) Scope: *This Standard is applicable to non-mechanically fired appliances whose primary function is to provide heat into the space in which they are installed and which are listed under categories 1a and 2a of table 1 of EN 13240. Additionally, where fitted with a boiler, they also provide domestic hot water and/or central heating. These appliances may burn either solid mineral fuels, peat briquettes, natural or manufactured wood logs or be multi-fuel in accordance with the appliance manufacturer's instructions.*

This standard is not applicable to appliances having fan assisted combustion air.

(iii) Intended use: *Internal installation into residential buildings to provide space heating into the place of installation and where a boiler is fitted to provide individual hot water for central heating and/or domestic use.*

(iv) Essential characteristics: *The essential characteristics according to the mandate which will be dealt with in the above standard are as follows:*

- safety in case of fire*
- emission of combustion products*
- release of dangerous substances*
- surface temperature*
- electrical safety*
- cleanability*
- maximum operating pressure*
- flue gas temperature*
- mechanical resistance (to carry a chimney flue)*
- sound (this item is not relevant – less than 50dbA)*
- thermal output*
- energy efficiency*
- thermal storage capacity (thermal inertia) (this item is not relevant to appliances currently covered by EN 13240. Proposals for extending the standard to slow heat release appliances have been made to the TC and relevant test methods may be developed to cover this characteristic for these specific appliances where it will be a relevant characteristic.)*

(v) Durability: *The shape and dimensions of the components and equipment and the method of design and manufacture, and if assembled on site the method of assembly and installation, will ensure that when operated in accordance with the appropriate test(s) and exposed to the associated mechanical, chemical and thermal stresses, the appliance will operate reliably and safely such that during normal operation, no combustion gases posing a hazard can escape into the room in which the appliance is installed nor can embers fall out. The appliance will be required to meet the material requirements as appropriate to the type of construction and intended usage as detailed in the standard. The appliance will be deemed to be capable of operating safely at a permissible maximum water operating pressure as declared by the manufacturer if it meets the requirements of the type pressure test described in the standard.*

Thermal output / Energy efficiency

EN 13240 Clauses 6.3, 6.4, 6.5, 6.6, 6.7 and 6.8

Thermal storage capacity (thermal inertia)

This item is not relevant to appliances currently covered by EN 13240. Proposals for extending the standard to slow heat release appliances have been made to the TC and relevant test methods may be developed to cover this characteristic for these specific appliances where it will be a relevant characteristic. CEN/TC 295 have now decided that a separate stand-alone European Standard be produced to cover this type of appliance and a new work item has been started (See new Section F below).

Durability

EN 13240 Clauses 4.2.1 and 4.2.2

D.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

A roomheater is used as an individual heating appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard EN 13240 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in D.1 above

3.3 Requests for clarification on the intended uses concerning the product in D.1 above:

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under D.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products

3.5 Information on essential characteristics required by the mandate concerning the product in D.1 above, for which no work has yet been started in the TC, or for which the TC cannot provide a standard:

Appliances with slow heat release are covered by the scope of EN 13240. However it is considered that the flue loss method of measurement specified in EN 13240 does not adequately assess the thermal storage facility of appliances with slow heat release capability. CEN/TC 295 have therefore decided that a separate standalone European Standard be produced to cover this type of appliance and a new work item has been started (See new Section F below).

E RESIDENTIAL SOLID FUEL BURNING APPLIANCES

E.1 Harmonised product standard

prEN 14785, WI 00295013

Dates of availability

Stage 32: 30/11/2002

Stage 49: 31/07/2005

- i) Title: *Residential space heating appliances fired by wood pellets - Requirements and test methods*
- ii) Scope: *This Standard is applicable to residential space heating appliances fired by wood pellets, and mechanically fed up to 50kW nominal heat output. These appliances may be freestanding or inset appliances and provide heat into the space in which they are installed and may be operated with either natural draught and/or fan assisted combustion air. Additionally, where fitted with a boiler, they also provide domestic hot water and/or central heating. These appliances burn wood pellets only in accordance with the appliance manufacturer's instructions. They operate with firedoors closed only.*
- Non mechanically fed appliances burning solid mineral fuels, peat briquettes and natural or manufactured wood logs are not included in this European Standard but are covered by EN 13229 and EN 13340.*
- (iii) Intended use: *Internal installation into residential buildings to provide space heating into the place of installation and where a boiler is fitted to provide individual hot water for central heating and/or domestic use.*
- (iv) Essential characteristics: *The essential characteristics according to the mandate which will be dealt with in the above standard are as follows:*
- safety in case of fire
 - emission of combustion products
 - release of dangerous substances
 - surface temperature
 - electrical safety
 - cleanability
 - maximum operating pressure
 - flue gas temperature
 - mechanical resistance (to carry a chimney flue)
 - sound (this item is not relevant – less than 50dbA)
 - thermal output
 - energy efficiency
 - thermal storage capacity (thermal inertia) (this item is not relevant to these appliances)
- (v) Durability: *The shape and dimensions of the components and equipment and the method of design and manufacture, and if assembled on site the method of assembly and installation, will ensure that when operated in accordance with the appropriate test(s) and exposed to the associated mechanical, chemical and thermal stresses, the appliance will operate reliably and safely such that during normal operation, no combustion gases posing a hazard can escape into the room in which the appliance is installed nor can embers fall out. The appliance will be required to meet the material requirements as appropriate to the type of construction and intended usage as detailed in the standard. The appliance will be deemed to be capable of operating safely at a permissible maximum water operating pressure as declared by the manufacturer if it meets the requirements of the*

Sound

This characteristic is not applicable to appliances covered by prEN 14785 as they operate on natural draught and the sound level is below 50dba.

Thermal output / Energy efficiency

prEN 14785 Clauses 6.1 and 6.4 to 6.10

Thermal storage capacity (thermal inertia)

This item is not relevant to appliances currently covered by prEN 14785.

Durability

prEN 14785 Clause 4.2

E.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

These residential space heating appliances are used as an individual heating appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard prEN 14785 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in D.1 above

3.3 Requests for clarification on the intended uses concerning the product in D.1 above:

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under D.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products

3.5 Information on essential characteristics required by the mandate concerning the product in D.1 above, for which no work has yet been started in the TC, or for which the TC cannot provide a standard:

F RESIDENTIAL SOLID FUEL BURNING APPLIANCES

F.1 Harmonised product standard

prEN 15250, WI 00295014

Dates of availability
Stage 32: 24/10/2003
Stage 49: 01/03/2006

- 1) Title: *Slow heat release appliances fired by solid fuel - Requirements and test methods*
- ii) Scope: *This European Standard specifies requirements relating to the design, manufacture, construction, safety and performance (efficiency and emission) instructions and marking together with associated test methods and test fuels for type testing residential slow heat release appliances fired by solid fuel.*
- This European Standard is applicable to hand fuelled intermittent burning slow heat release appliances having thermal storage capacity such that they can provide heat for a declared period of time after the fire has gone out. These appliances provide heat into the space where they are installed. This European Standard also specifies a minimum time period from the appliance achieving the maximum surface temperatures and falling to 50 % of that maximum value.*
- These slow heat release appliances may be supplied either as assembled appliance or as pre-fabricated sections designed to be built on site in accordance with the manufacturer's specified construction design. One off installations are not included.*
- These appliances may burn either solid mineral fuels, peat briquettes, natural or manufactured wood logs or be multi-fuel in accordance with the appliance manufacturer's instructions. Wood pellets which are hand fuelled may also be burned on these appliances either directly on the existing appliance bottomgrate or in a specially designed basket arrangement supplied by the appliance manufacturer which the user places into the existing firebox.*
- This European Standard is not applicable to mechanically fed appliances, appliances having fan assisted combustion air or appliances with boiler.*
- (iii) Intended use: *Internal installation into residential buildings to provide space heating into the place of installation.*
- (iv) Essential characteristics: *The essential characteristics according to the mandate which will be dealt with in the above standard are as follows:*
- safety in case of fire*
 - emission of combustion products*
 - release of dangerous substances*
 - surface temperature*
 - electrical safety*
 - cleanability*
 - maximum operating pressure (not relevant - no boiler fitted to these appliances)*
 - flue gas temperature*
 - mechanical resistance (to carry a chimney flue)*
 - sound (this item is not relevant – less than 50dbA)*
 - thermal output*
 - energy efficiency*
 - thermal storage capacity (thermal inertia)*

Mechanical resistance (to carry a chimney flue)

prEN 15250 Clauses 4.2.1 and 4.2.3

Sound

This characteristic is not applicable to appliances covered by prEN 15250 as they operate on natural draught and the sound level is below 50dba.

Thermal output / Energy efficiency

prEN 15250 Clauses 6.3 and 6.4 to 6.6

Thermal storage capacity (thermal inertia)

prEN 15250 Clause 6.6

Durability

prEN 15250 Clause 4.2.1

F.3 Additional information, comments and remarks

3.1 Deviations from a performance approach in the product standard:

These residential space heating appliances are used as an individual heating appliance in the domestic field. The design, construction and installation of the appliance ensure that the combustion of the fuel takes place inside the firebox and flueways of the appliance. The material requirements as well as the technical requirements regarding the shape and dimensions of the components have been specified in the standard prEN 15250 and take account of the associated mechanical, chemical and thermal stresses to which the appliance may be subjected. By meeting the specifications of the standard it is ensured, when installed and operated in accordance with the manufacturer's instructions under normal conditions of intended usage, that the appliance is safe and is resistant to fire and does not contribute to or propagate a fire.

3.2 Requests for clarification on the scope of the mandate concerning the product in D.1 above

3.3 Requests for clarification on the intended uses concerning the product in D.1 above:

3.4 Requests for clarification on the essential characteristics for the intended uses included in the mandate concerning the product under D.1 above:

CEN/TC 295 has previously agreed by resolution that the measurement of CO in the combustion gases is the prime and the sufficient indicator of clean combustion in relation to emission of combustion products

3.5 Information on essential characteristics required by the mandate concerning the product in D.1 above, for which no work has yet been started in the TC, or for which the TC cannot provide a standard: