

Test Report Nr 14298A

Sponsor

CPI Europe GMBH
Wallenroder Str. 6
D-13435 BERLIN
GERMANY

Construction product and trade name

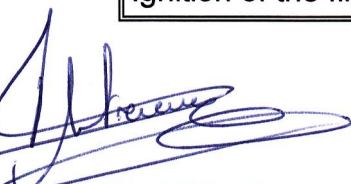
Insulation system - eZero E500

Nature of the test

EN ISO 11925-2 : 2002 – Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame – Part 2 : Single-flame source test (ISO 11925-2:2002) – flame application time : 30 s.

Summary of the results

Flame spread F_s (mm)	< 150
Ignition of the filter paper	No



ing. F. DUTRIEUE
Project manager

Ghent, 20 SEP. 2010



Prof.dr.ir. P. VANDEVELDE
Director

EN ISO 11925-2 off WG 3E*

This report contains 7 pages

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1. DESCRIPTION OF THE TEST METHOD

EN ISO 11925-2:2002 – Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame – Part 2 : Single-flame source test.
The flame application time is 30 s.

There was no deviation from the specifications contained in the test standard.

2. IDENTIFICATION OF THE PRODUCT

Date of test samples arrival : 2010-02-18

Identification of the samples : Not communicated

Sampling done by : the sponsor

Sampling date : 2010-01-06

Name of the sponsor : CPI Europe GMBH
Wallenroder Str. 6
D-13435 BERLIN
GERMANY

Name of the manufacturer/supplier: CPI Europe GMBH
Wallenroder Str. 6
D-13435 BERLIN
GERMANY

Trade name : **eZero E500**

Description of the product :

This description is based on information given by the sponsor.

Construction of the test specimen: inner foam, front and back covered with plaster board (fixed to the pine wood with staples), sides covered with pine wood.

Top and bottom side not covered.

Facing	Generic type	Plaster board
	Product reference	drywall
	Name of manufacturer	Gyproc
	Density (kg/m ³)	700 kg/m ³
	Weight per unit area (g/m ²)	5582 g/m ² (*)
	Thickness (mm)	8 mm (*)
Insulation core	Generic type	polyurethane open cell foam
	Trade name / product reference	eZero E500 Insulation System
	Name of manufacturer	CPI Europe GmbH/CPI Foam Ltd.
	Thickness (mm)	35 mm (*)
	Colour	Light yellow
	Density (kg/m ³)	16 kg/m ³ (*)
	Flame retardant	
	Flame retardant details	Contains TCPP
	Reference of the flame retardant	-
	Weight of product applied (g/m ²)	-
	Number and duration of applications	1 pass in 10 s
Nature of the treatment	Sprayed foam	
Facing	Generic type	Plaster board
	Product reference	drywall
	Name of manufacturer	Gyproc
	Density (kg/m ³)	700 kg/m ³
	Weight per unit area (g/m ²)	5582 g/m ² (*)
	Thickness (mm)	8 mm (*)
Surrounding framework	Generic type	Pine wood laths
	Thickness (mm)	12 mm (*)
	Density (kg/m ³)	576 kg/m ³ (*)

(*) values measured by the laboratory WFRGent N.V.

Mounting and Fixing:

Loosely mounted.

3. RESULTS AND OBSERVATIONS

a) Conditioning and date of test

Conditioning, according to EN 13238, § 4.3 for fixed period

Start of conditioning : 2010-02-23
End of conditioning : 2010-03-10
Date of test : 2010-03-10

b) Test results

b.1) Surface exposure

Position of flame application:

- Centre line of the specimen, 40 mm above the bottom edge
(see figure 9 of the standard)

Test results

Specimen Nr	1	2	3	4	5	6
Ignition (yes/no)	yes	yes	yes	yes	yes	yes
Flame tip reaching the measuring mark, 150mm above the flame application point within 60 s, after flame application (yes/no)	no	no	no	no	no	no
Moment of appearance (s)	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper (yes/no)	no	no	no	no	no	no

Observations

Specimen Nr	1	2	3	4	5	6
Description of the physical behaviour of the material	(1)	(1)	(1)	(1)	(1)	(1)

(1) Carbonisation at flame height

b.2) Edge exposure

Position of flame application:

- At the mid point on the bottom edge of the test specimen (see figure 5 of the standard).

Test results

Specimen Nr	1	2	3	4	5	6
Ignition (yes/no)	yes	yes	yes	yes	yes	yes
Flame tip reaching the measuring mark, 150mm above the flame application point within 60 s, after flame application (yes/no)	no	no	no	no	no	no
Moment of appearance (s)	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper (yes/no)	no	no	no	no	no	no

Observations

Specimen Nr	1	2	3	4	5	6
Description of the physical behaviour of the material	(1)	(1)	(1)	(1)	(1)	(1)

(1) Carbonisation at flame height

- specimen turned at 90° round its vertical axis and the flame impinging at the bottom edge of the centreline at the underside of each different layer (see figure 7 of the standard).

Test results

Specimen Nr	1	2	3	4	5	6
Ignition (yes/no)	yes	yes	yes	yes	yes	yes
Flame tip reaching the measuring mark, 150mm above the flame application point within 60 s, after flame application (yes/no)	no	no	no	no	no	no
Moment of appearance (s)	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper (yes/no)	no	no	no	no	no	no

Observations

Specimen Nr	1	2	3	4	5	6
Description of the physical behaviour of the material	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)

(1) Carbonisation at flame height

(2) Burning rest material

c) Summary of test results

The test results relate only to the behaviour of the test specimens of a material under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

The test results are only valid for the specimens of the product as they have been tested.

The following test results were obtained in accordance with the standard EN ISO 11925-2:2002:

Flame spread F_s (mm)	< 150
Ignition of the filter paper	No

d) Uncertainty of measurement

Regarding the precision of the test method, at the present time we have insufficient information to make a considerate statement regarding the uncertainty of measurement. The uncertainty of test results for this test report is described in Annex B of the test standard.

As this annex only covers generic products and as we know at this moment that the uncertainty can be influenced by the nature of the product in the test, the values in Annex B can only give an indication of the actual uncertainty of the tests described in this report.