

*Laboratorium voor
Aanwending der Brandstoffen en
Warmteoverdracht*

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Translation

Sponsor

LINOPAN N.V.
Ooigemstraat 16
8710 WIELSBEKE
BELGIUM

Material

Wood fiber board with foil

Nature of the test

EN 13823 – Building products excluding floorings exposed to the thermal attack by a single burning item (2002).


At request of the sponsor only one single test on the product has been carried out instead of the standard three replicates.

Gent, 04 June 2002.

Translation made, 04 June 2002.



ing. T. JACQUEMYN



i.o. Prof.dr.ir. P. VANDEVELDE
Directeur

EN 13823 group of 1 Eng Nr2

1. DESCRIPTION OF THE TEST METHOD

An indicative test described in the document "EN 13823 (edition of 2002) – Reaction to fire test for building products – Building products excluding floorings exposed to the thermal attack by a single burning item" was carried out.

Following derivations were made from the document "EN 13823 (edition of 2002) " : no conditioning has been performed, only one single test on the product has been carried out instead of the standard three replicates.

2. IDENTIFICATION OF THE PRODUCTS

Arrival of the sample : 2002-05-28

Identification of the specimen : R - 2002/157

Sampling procedure : sampling by the applicant

Description of the material :

This description is based on information given by the sponsor.

The tested material consists of a wood fiber board with aluminium foil facing. No further information has been given to the laboratory.

Identification	Substrate	Mounting
R - 2002/157	P (*)	Annex 1

(*) P : Promatect[®] H thickness 12,5mm volumic mass 850kg/m³

Conditioning :

Start conditioning : 2002-05-28

End conditioning : 2002-05-29

3. CALIBRATION RESULTS

Latest calibration date : 2002-05-06

Calibration valid until : 2002-06-06

4. RESULTS AND OBSERVATIONS

a) Measured values

Date of test : 2002-05-29

Ambient pressure : 101400 Pa

Ambient relative humidity : 52 % H₂O

Material nr	1
FIGRA value (W/s)	47,35
THR _{600s} (MJ)	5,03
SMOGRA value (m ² /s ²)	0
TSP _{600s} (m ²)	13,23

Annex 2 : Graphs $RHR_{av}(t)$, $THR(t)$, $1000 \times RHR_{av}(t) / (t-300)$

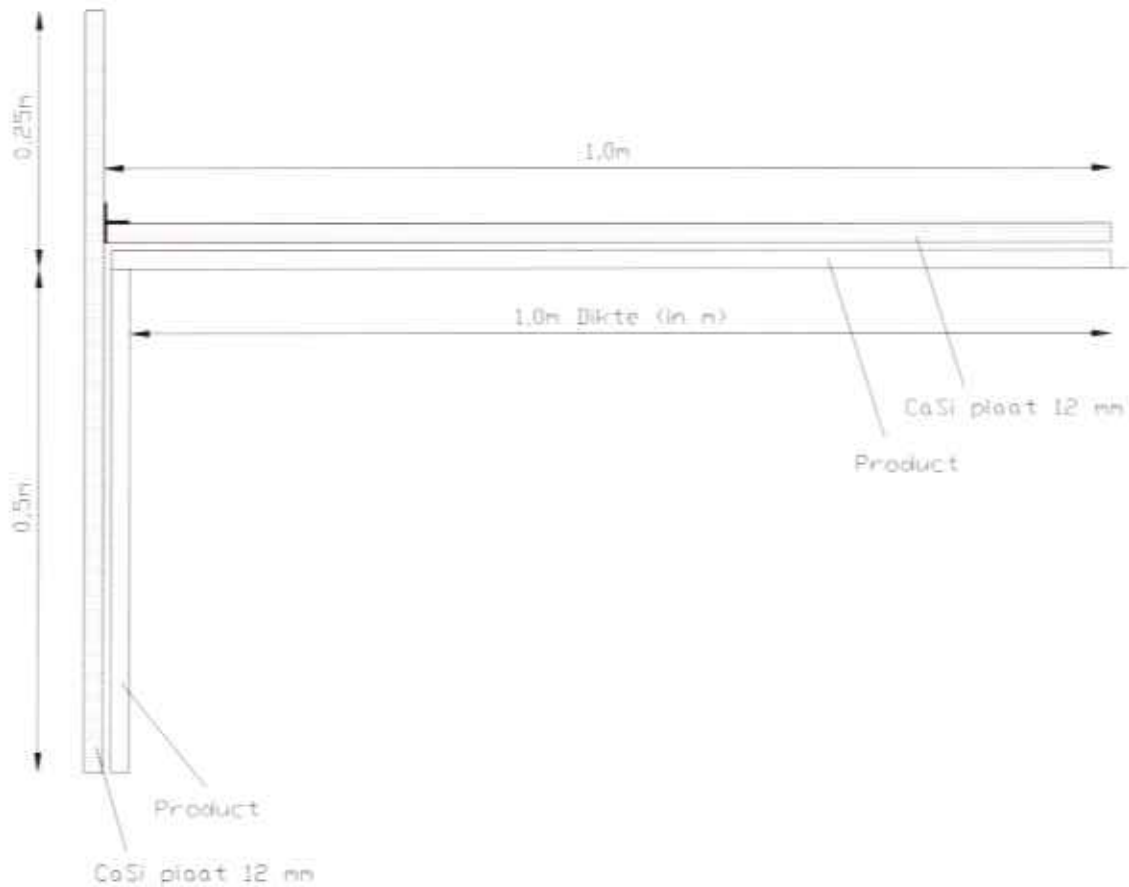
Annex 3 : Graphs $RSP_{av}(t)$, $TSP(t)$, $10000 \times RSP_{av}(t) / (t-300)$

b) Observations

Material nr	1
Lateral flame spread reaching far edge on long wing	no
Flaming particles or droplets	
$FDP_{<10s}$	none
$FDP_{>10s}$	n.a.
Occurrence of a surface flash	no
Smoke flowing out of the trolley into surrounding testing room	none
Falling of parts of the specimen	none
Development of a gap in the corner (failure of mutual fixing of backing boards)	none
Early termination of test	no
Tendency towards distortion of the specimen	none
Tendency towards collapse of the specimen	none

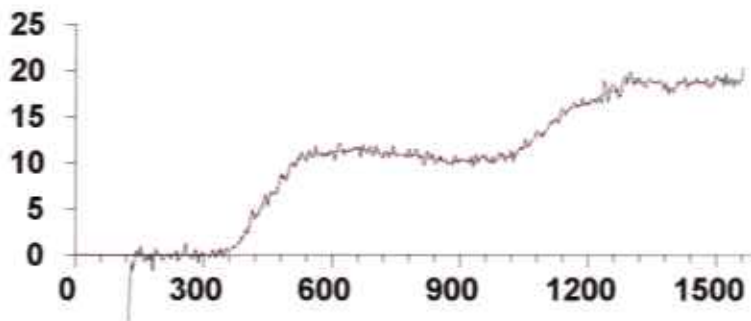
Photographs of the test specimens before and after the test – Annex 4

Mounting specifications

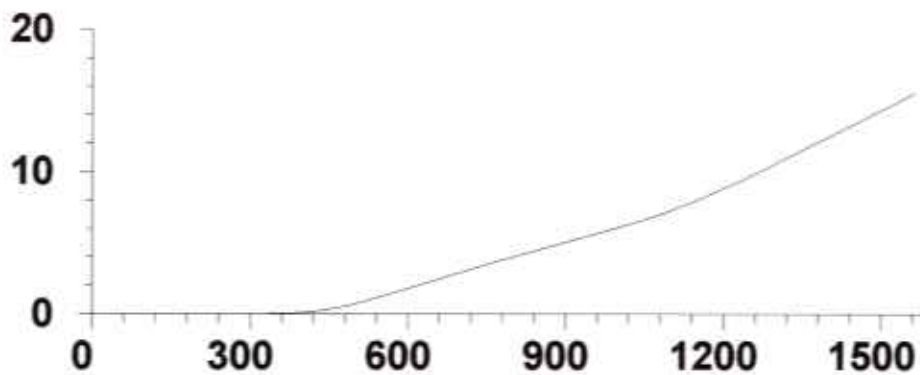


Graphs $RHR_{av}(t)$, $THR(t)$ and $1000 \times RHR_{av}(t) / (t-300)$

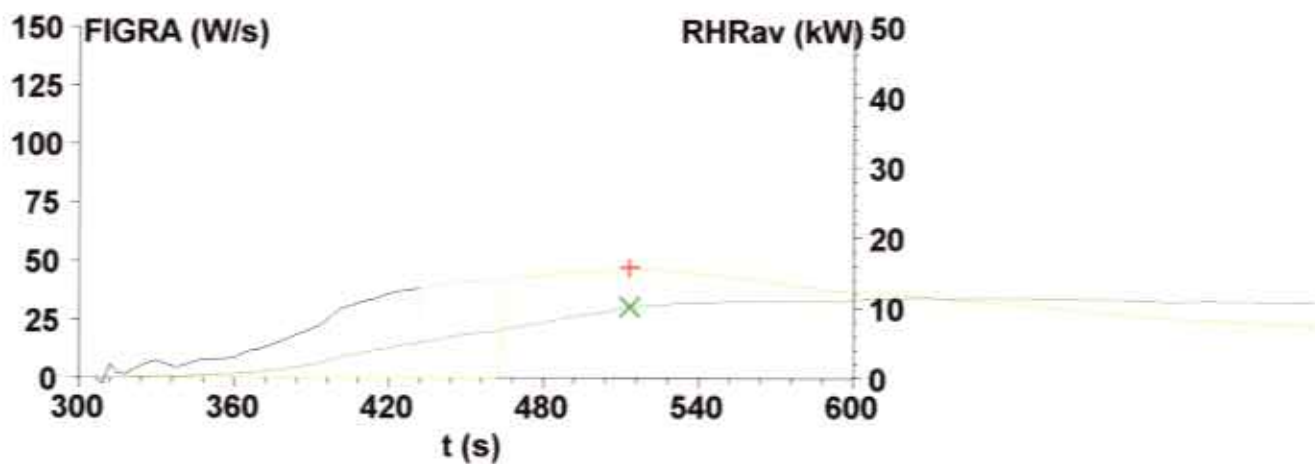
$RHR_{av}(t)$



$THR(t)$

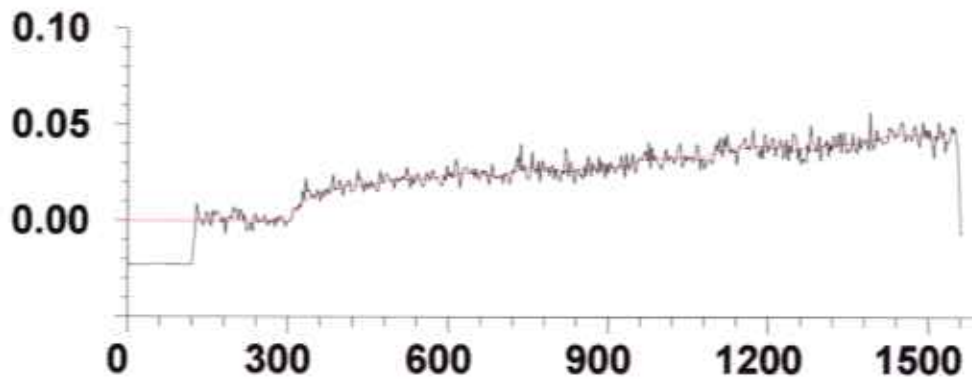


$1000 \times RHR_{av}(t) / (t-300)$

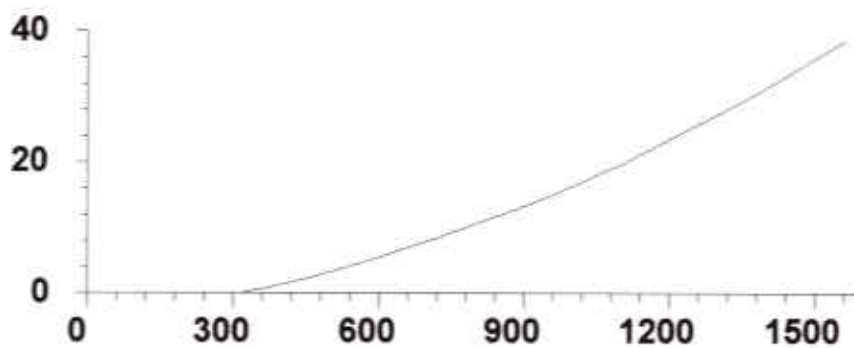


Graphs $RSP_{av}(t)$, TSP (t) and $10000 \times RSP_{av}(t) / (t-300)$

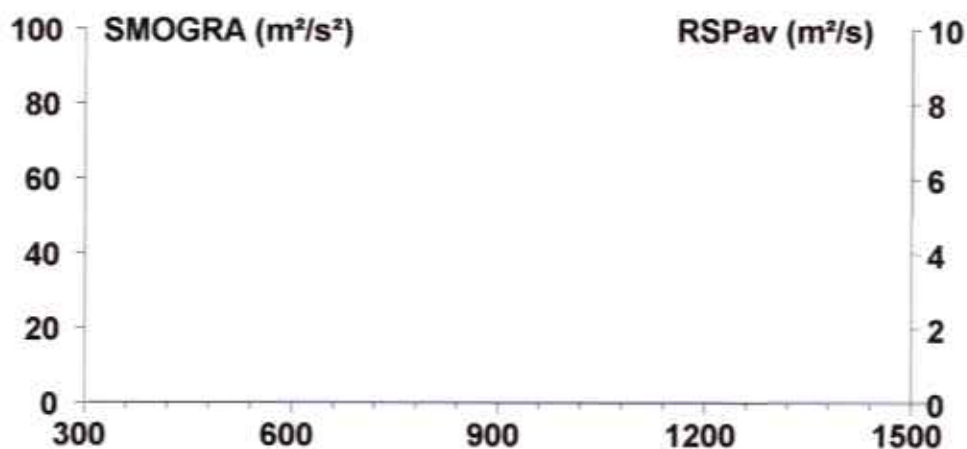
$RSP_{av}(t)$



TSP (t)



$10000 \times RSP_{av}(t) / (t-300)$



Photographs of the material before and after the test

