

Test Report

189/2002

Re: Evaluation of the toxicity of fire effluent to
DIN 53436 at 529°C oven temperature

Test material: VE panel

Dimensions of sample: 2 x 15 x 600 mm³ (H x B x L)

Company: Pantech Panel Technologies (HK) Ltd.
c/o Hong Kong Curtain Wall Testing Centre Ltd.
G/F, Block B, Junk Bay Town Lot No.1, 6 Shek Kok Road
Tseung Kwan O, NT, Hong Kong

By order of: Hong Kong Curtain Wall Testing Centre dated 03.11.2002

Send by: Pantech Panel Technologies (HK) Ltd.

Arrival of samples: 11.11.2002

ID-Number: A2111104

Date of report: 06.12.2002

Text pages: 3

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Concentration of combustion gases in the inhalation chamber

ID-Number A2111104	529°C oven temperature	
	30 min.	60 min.
Compounds after		
Carbon monoxide [ppm]	n.d.	n.d.
Carbon dioxide [ppm]	-	n.d.
Cyanic hydrogen [ppm]	-	n.d.
Chloric hydrogen [ppm]	-	n.d.
COHb (calculated from CO) [%]	-	< 1

- = not tested

n.d. = not detectable

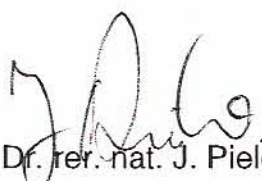
Special remarks:

Biological tests were not done.

At an oven-temperature of 529°C the relative loss of weight of the sample was less than 0,1 %.

At the end of the analysis was no visible smoke in the inhalation chamber.

The combustion effluent of the tested material should be expected as specified harmless by a complete analysis according to DIN 53 436.


i.V. Dr. rer. nat. J. Pieler

Conditions of testing

The generation of thermal decomposition effluent of construction materials is carried out in the decomposition apparatus according to DIN 53 436, part 1.

The analysis of decomposition effluent in the inhalation chamber are performed continuously (carbon monoxide), or sporadic. Sporadic measurements are carried out with test tubes, photometrically or after acknowledged gaschromatographically methods (Analytical methods on tests hygienic working materials - air analysis publication Chemistry GmbH, D-69469 Weinheim).

The test time is fixed to 60 minutes. If required (critical limit situation) the test can be repeated three times at each temperature. The quantity of air (air scientific: 20,5 %_{Vol.} O₂, 79,5 %_{Vol.} N₂, free of hydrocarbons, other gases < 5 ppm), added to the apparatus is 300 l_{N,25°C}/h.

The observation time of the exposed animals lasts 14 days after the test.

Deviations form these conditions of testing are to be noted in the report.