

Zeno-Protect B.V.
To the attention of Mr Pieter de Jong Jr
PO Box 101
1520 AC Wormermeer
Netherlands

Ons kenmerk	Telefoon	E-mail	Datum
DVD/AHO	09/264 57 55	Didier.vandaele@ugent.be	3/5/06

TEST REPORT 06-259

Translation

Samples received :

Floorcovering carpet Protect Super with comfortbacking
Ontvangen op 6/04/06

Aim of the test : determination of fire behaviour

Test conditions :

Standard: **EN ISO 9239-1 (2002)***
Method: Here, a floorcovering is put (loose laid) on an eternit plate (Eflex). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve. Before the test the samples are cleaned with a spray-extraction machine and then dried.
Number of tests: 4
Conditioning samples: 23 ± 2 °C and 50 ± 2 % R.H.

Classification according to EN 13501 –1 (2002)

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)
B _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m ²
C _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m ²
D _{fl}	F _s ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m ²
E _{fl}	F _s ≤ 150 mm in 20 s	No demand
F _{fl}	No demand	No demand

Additional classification smoke development according to EN 13501-1 (2002)

Smoke development ≤ 750%.min	s1
Smoke development > 750%.min	s2

The tests were performed in week 17/2006

OBTAINED RESULTS

a) Critical Flux :

Sample	Burned length (mm)		
	after 10 min	after 20 min	after 30 min
width	90	90	90
length	120	120	120
length	105	105	105
length	100	100	100
average (of length)	108	108	108

Sample	Burned length maximum (mm)	Extinction (min.s)	Critical Flux (kW/m ²)
width	90	12'00''	10.9
length	120	12'45''	10.6
length	105	12'05''	10.8
length	100	12'00''	10.8
average (of length)	108	-	10.7

b) Smoke development:

Sample	Smoke development (%min)			Smoke development (%min)
	after 10 min	after 20 min	after 30 min	Maximum
width	47	48	50	50
length	165	173	178	178
length	83	83	85	85
length	68	76	78	78
average (of length)	105	111	114	114

CLASSIFICATION

Since the radiation intensity is **higher** than 8.0 kW/m^2 and the smoke development is lower than 750 %min, the quality **Protect Super with comfortbacking** meets the demands of **class B_{FL} s1** according to EN 13501-1.

Didier Van Daele
Head of Floorcoverings/fire tests

Prof. Dr. Paul KIEKENS, dr. h. c.
Head of Department