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EUROPEAN REACTION TO FIRE CLASSIFICATION REPORT IN ACCORDANCE WITH EN 13501-1: 2002

And the French modified Arrêté, dated 21 November 2002, concerning the reaction to fire of construction and fitting-out products.

N° F091226 - CEMATE/8

Sponsor : EMP ESTRUSIONE MATERIALI PLASTICI SA
Via Lische 11/13 - Z.I. 3
6855 STABIO
SWITZERLAND

Commercial trademark : Macrolux LL structure 3Q

Brief description : Polycarbonate sheet with cavities.
Thicknesses : from 6 to 10 mm.
Mass per unit area : (1,3 to 1,7 ± 3 %) kg/m².

Period of validity : 5 years from the 06 February 2006.

The quoted results are only applicable to the samples, the products or materials described in this document.

**The full document can be copied.
It is composed of 5 pages**

1. INTRODUCTION

This classification report defines the classification assigned to product in accordance with the procedures given in EN 13501-1:2002.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. NATURE AND END USE APPLICATION

Polycarbonate sheet with cavities.

End use : Covering, roofing, lanterns, verandas.

2.2. DESCRIPTION

The tested product referenced are fully described in the test reports referenced File F091226 – Documents CEMATE/1, CEMATE/2, CEMATE/3, CEMATE/4, CEMATE/5, and CEMATE/6..

Main characteristics of tested product :

Commercial Trademark	Mass per unit area	Thicknesses	Colors
Macrolux LL structure 3Q	(1,3 ± 3 %) kg/m ² (1,7 ± 3 %) kg/m ²	6 mm 10 mm	Clear or Opal

Report to be followed on next page

3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

3.1. TEST REPORTS

Name of laboratory	Name of sponsor	Test report ref. n°	Test method
Laboratoire national de métrologie et d'essais 29 av. Roger Hennequin 78197 TRAPPES Cedex FRANCE Notified Body : 0071	EMPESTRUSIONE MATERIALI PLASTICI SA Via Lische 11/13 Z.I. 3 6855 STABIO SWITZERLAND	F091226 : CEMATE/1 CEMATE/2 CEMATE/3 CEMATE/4 CEMATE/5 CEMATE/6	EN ISO 11925-2 : 2002. Ignability. EN 13823 :2002 SBI test.

Report to be followed on next page

3.2. TEST RESULTS FOR CONSTRUCTION PRODUCTS EXCEPT FLOORINGS

Test Method	Parameter	Number of tests	Results	
			Continuous parameters mean	Compliance parameter
EN ISO 11925-2 :2002. Thickness : 6 mm Colour : Clear Surface application 30 s exposure	$F_s \leq 150$ mm	6	—	YES
	Flaming droplets / particules with a filter paper ignition		—	NO
EN ISO 11925-2 :2002. Thickness : 6 mm Colour : Opal Surface application. 30 s exposure	$F_s \leq 150$ mm	6	—	YES
	Flaming droplets / particules with a filter paper ignition		—	NO
EN ISO 11925-2 :2002. Thickness : 10 mm Colour : Clear Surface application. 30 s exposure	$F_s \leq 150$ mm	6	—	YES
	Flaming droplets / particules with a filter paper ignition		—	NO
EN ISO 11925-2 :2002. Thickness : 10 mm Colour : Opal Surface application. 30 s exposure	$F_s \leq 150$ mm	6	—	YES
	Flaming droplets / particules with a filter paper ignition		—	NO

Report to be followed on next page

Test Method	Parameter	Number of tests	Results	
			Continuous parameters mean	Compliance parameter
EN 13823 : 2002. Thickness : 6 mm	FIGRA _{0.2 MJ} (W/s)	3	1	-
	FIGRA _{0.4 MJ} (W/s)		1	-
	LFS < edge		-	YES
	THR _{600s} (MJ)		0,4	-
	SMOGRA (m ² /s ²)		1	-
	TSP _{600s} (m ²)		27	-
EN 13823 : 2002. Thickness : 10 mm	Flaming droplets / particules: FDP (≤10 s)	3	-	NO
	FDP (> 10 s)		-	-
	FIGRA _{0.2 MJ} (W/s)		6	-
	FIGRA _{0.4 MJ} (W/s)		6	-
	LFS < edge		-	YES
	THR _{600s} (MJ)		0,9	-
EN 13823 : 2002. Thickness : 10 mm	SMOGRA (m ² /s ²)	3	1	-
	TSP _{600s} (m ²)		23	-
	Flaming droplets / particules: FDP (≤10 s)		-	NO
	FDP (> 10 s)		-	-

Report to be followed on next page

4. CLASSIFICATION AND DIRECT FIELD APPLICATION

4.1. CLASSIFICATION

The classification has been carried out in accordance with clause 10 of EN 13501-1 : 2002.

Fire behaviour	Smoke production	Flaming droplets
B	s1	d0

Classification : B – s1, d0 with covered cut edges

4.2. FIELD OF APPLICATION

The classification is valid for the following product parameters :

- mass per unit area : (1,3 to 1,7 ± 3%) kg/m²,
- thicknesses: from 6 to 10 mm,
- colours : Clear or Opal,
- same composition than the products mentioned in the tests reports.

The classification is valid for the following end use conditions :

- without substrate,
- or with substrate classified A2 and a minimum airgap of 80 mm.

5. LIMITATIONS

5.1. RESTRICTIONS CONCERNING THE VALIDITY PERIOD OF THE CLASSIFICATION REPORT

Period of validity : 5 years from the 06 February 2006.

5.2. WARNING

This document does not represent type approval or certification of the product.

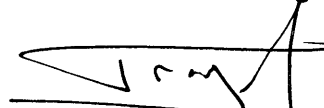
Trappes, the 06 February 2006

The Head of Fire Behaviour Division


Alain SAINRAT



The technical manager


Romain FRIGOT