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File G040377 - Document DE/12 - Page 1/7

This document is an extension of the classification report referenced :
File G040377 – Document CEMATE/10

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° G040377 - DE/12

Sponsor :

DOTT GALLINA SRL
Strada Carignano 104
10040 LA LOGGIA (TO)
ITALY

Commercial trademarks : POLICARB – 2 PARETI – (4 - 4,5 - 6 - 8 - 10) mm

POLICARB – 3 PARETI – (10 - 16 - 20) mm

POLICARB – 4 PARETI – (6 - 8 - 10) mm

POLICARB – 5 PARETI (RDC) – (16 - 20) mm

POLICARB – 7 PARETI (X) – (25 - 32) mm

ARCOPLUS 547 – 40 mm

ARCOPLUS 347 – 40 mm

ARCOPLUS PSV 35 – 35 mm

ARCOPLUS PSV 40 – 40 mm

Brief description :

Polycarbonate sheet with cavities.

ARCOPLUS 547 : modular panels with fitting.

Surfacic masses :

POLICARB – 2 PARETI : $\leq (1,7 \pm 3 \%) \text{ kg/m}^2$

POLICARB – 3 PARETI : $\leq (3,2 \pm 3 \%) \text{ kg/m}^2$

POLICARB – 4 PARETI : $\leq (1,75 \pm 3 \%) \text{ kg/m}^2$

POLICARB – 5 PARETI (RDC) : $\leq (3,1 \pm 3 \%) \text{ kg/m}^2$

POLICARB – 7 PARETI (X) : $\leq (3,7 \pm 3 \%) \text{ kg/m}^2$

ARCOPLUS 547 : $\leq (4 \pm 15\%) \text{ kg/m}^2$

ARCOPLUS 347 : $\leq (4 \pm 15\%) \text{ kg/m}^2$

ARCOPLUS PSV 35 : $\leq (4 \pm 15\%) \text{ kg/m}^2$

ARCOPLUS PSV 40 : $\leq (4 \pm 15\%) \text{ kg/m}^2$

Period of validity :

5 years from the 25 September 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 7 pages

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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.
ARCOPLUS 547 : modular panels with fitting.

End use : Covering, roofing.

2.2. DESCRIPTION

The tested product referenced are fully described in the test reports referenced File G040377 – Documents CEMATE/1, CEMATE/2, CEMATE/3, CEMATE/4 and CEMATE/5.

Main characteristics of tested product :

Commercial Trademarks	Surfacic masses	Thicknesses – Structures	Colors
POLICARB 6 mm	$(1,3 \pm 3 \%) \text{ kg/m}^2$	6 mm – 2 Partitions	Cristal or Opal
POLICARB 10 mm	$(1,75 \pm 3 \%) \text{ kg/m}^2$	10 mm – 4 Partitions	
POLICARB 20 mm	$(3,2 \pm 3 \%) \text{ kg/m}^2$	20 mm – 3 Partitions	
POLICARB 20 mm	$(3,1 \pm 3 \%) \text{ kg/m}^2$	20 mm – RDC	
POLICARB 32 mm	$(3,7 \pm 3 \%) \text{ kg/m}^2$	32 mm – 7 Partitions (X)	
ARCOPLUS 547	$(4 \pm 15 \%) \text{ kg/m}^2$	40 mm – 4 Partitions	

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

3.1. TEST REPORTS

Name of laboratory	Name of sponsor	Test report ref	Test method
Laboratoire national de métrologie et d'essais 29 av. Roger Hennequin 78197 TRAPPES Cedex FRANCE Notified Body : 0071	DOTT GALLINA SRL Strada Carignano 104 10040 LA LOGGIA (TO) ITALIE	G040377 : CEMATE/1 CEMATE/2 CEMATE/3 CEMATE/4 CEMATE/5	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	Parameters	Number of tests	Results	
			Continuous parameters mean m	Compliance parameter
EN ISO 11925-2 :2002. Thickness : 6 mm – 2P 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 : 32 mm – 7P Surface application. 30 s exposure	$F_s \leq 150$ mm	6	—	YES
	Flaming droplets / particules with a filter paper ignition		—	NO

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Test Method	Parameters	Number of tests	Results	
			Continuous parameters mean m	Compliance parameter
EN 13823 :2002 Thickness : 10 mm 4 partitions	FIGRA _{0.2 MJ} (W/s)	3	1	-
	FIGRA _{0.4 MJ} (W/s)		1	-
	LFS < edge		—	YES
	THR _{600s} (MJ)		0,5	-
	SMOGRAM (m ² /s ²)		0	-
	TSP _{600s} (m ²)		13	-
EN 13823 :2002 Thickness : 20 mm 3 partitions & RDC	Flaming droplets / particules: FDP (≤ 10 s) FDP (> 10 s)	3	— — —	NO — —
	FIGRA _{0.2 MJ} (W/s)		12	-
	FIGRA _{0.4 MJ} (W/s)		12	-
	LFS < edge		—	YES
	THR _{600s} (MJ)		1,0	-
	SMOGRAM (m ² /s ²)		2	-
EN 13823 :2002 Thickness : 32 mm 7 partitions	TSP _{600s} (m ²)	3	29	-
	Flaming droplets / particules: FDP (≤ 10 s) FDP (> 10 s)		— — —	NO — —
	FIGRA _{0.2 MJ} (W/s)		9	-
	FIGRA _{0.4 MJ} (W/s)		6	-
	LFS < edge		—	YES
	THR _{600s} (MJ)		0,8	-
EN 13823 :2002 Thickness : 40 mm ARCOPLUS 547	SMOGRAM (m ² /s ²)	3	4	-
	TSP _{600s} (m ²)		29	-
	Flaming droplets / particules: FDP (≤ 10 s) FDP (> 10 s)		— — —	NO — —
	FIGRA _{0.2 MJ} (W/s)		6	-
	FIGRA _{0.4 MJ} (W/s)		3	-
	LFS < edge		—	YES
EN 13823 :2002 Thickness : 40 mm ARCOPLUS 547	THR _{600s} (MJ)	3	0,7	-
	SMOGRAM (m ² /s ²)		0	-
	TSP _{600s} (m ²)		13	-
	Flaming droplets / particules: FDP (≤ 10 s) FDP (> 10 s)		— — —	NO — —
	FIGRA _{0.2 MJ} (W/s)		6	-
	FIGRA _{0.4 MJ} (W/s)		3	-

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 :

- Surfacing masses :
 - POLICARB – 2 PARETI : $\leq (1,7 \pm 3 \%) \text{ kg/m}^2$
 - POLICARB – 3 PARETI : $\leq (3,2 \pm 3 \%) \text{ kg/m}^2$
 - POLICARB – 4 PARETI : $\leq (1,75 \pm 3 \%) \text{ kg/m}^2$
 - POLICARB – 5 PARETI (RDC) : $\leq (3,1 \pm 3 \%) \text{ kg/m}^2$
 - POLICARB – 7 PARETI (X) : $\leq (3,7 \pm 3 \%) \text{ kg/m}^2$
 - ARCOPLUS 547 : $\leq (4 \pm 15 \%) \text{ kg/m}^2$
 - ARCOPLUS 347 : $\leq (4 \pm 15 \%) \text{ kg/m}^2$
 - ARCOPLUS PSV 35 : $\leq (4 \pm 15 \%) \text{ kg/m}^2$
 - ARCOPLUS PSV 40 : $\leq (4 \pm 15 \%) \text{ kg/m}^2$
- Total thicknesses :
 - POLICARB – 2 PARETI – (4 - 4,5 - 6 - 8 - 10) mm
 - POLICARB – 3 PARETI – (10 - 16 - 20) mm
 - POLICARB – 4 PARETI – (6 - 8 - 10) mm
 - POLICARB – 5 PARETI (RDC) – (16 - 20) mm
 - POLICARB – 7 PARETI (X) – (25 - 32) mm
 - ARCOPLUS 547 – 40 mm
 - ARCOPLUS 347 – 40 mm
 - ARCOPLUS PSV 35 – 35 mm
 - ARCOPLUS PSV 40 – 40 mm
- Colours : Cristal and 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 180 mm.

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5. LIMITATIONS

5.1. RESTRICTIONS CONCERNING THE VALIDITY PERIOD OF THE CLASSIFICATION REPORT

Period of validity : 5 years from the 25 September 2006.

5.2. WARNING

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

Trappes, the 16 March 2010

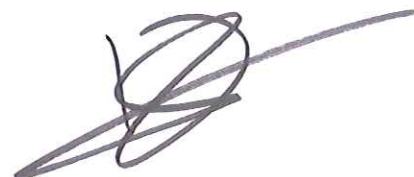
The Head of Fire Behaviour
and Fire Safety Department



Noëlle LOFERME-PEDESPAN



The Responsible for test



Alexandre DERNIAUX