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LABORATOIRE DE TRAPPES  
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File F090990 - Document CEMATE/24 - Page 1/5

This document cancels and replaces the document referenced :  
File F090990 – CEMATE/12 dated on 14 December 2005.

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

Notified by the French State besides the European Commission under the N° 0071

Product standard :  
EN 14716 : Suspended ceiling – Demands and test methods

**N° F090990 - CEMATE/24**

**Sponsor :** BARRISOL / NORMALU S.A.S.  
Route du Sipes  
68680 KEMBS  
FRANCE

**Commercial trademarks :** BARRISOL Blanc Mat – BARRISOL Blanc Wight – BARRISOL Translucide

**Brief description :** Plastified PVC film with fire-retardants fillers.  
  
Thickness : 17/100 mm  $\pm$  5 %.  
Surfacic mass : (240  $\pm$  15) g/m<sup>2</sup>.

**Date of the report :** 03 January 2008.

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**

### Laboratoire national de métrologie et d'essais

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Fax : 01 40 43 37 37 • E-mail : info@lne.fr • Internet : www.lne.fr • Siret : 313 320 244 00012 • NAF : 743 B • TVA : FR 92 313 320 244  
Barclays Paris Centrale IBAN : FR76 3058 8600 0149 7267 4010 170 BIC : BARCFRPP

**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**

Plastified PVC film with fire-retardants fillers.

End use : Stretched ceilings.

**2.2. DESCRIPTION**

The tested product referenced are fully described in the test reports referenced File F090990 - Documents CEMATE/1 and CEMATE/2.

Main characteristics of tested products :

<b>Commercial trademark</b>	<b>Surfacic mass</b>	<b>Thickness</b>	<b>Colours</b>
Réf. 1000 - 1009.	240 g/m <sup>2</sup>	17/100 mm	Blue Black White

**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	BARRISOL / NORMALU S.A.S. Route du Sipes 68680 KEMBS FRANCE	F090990 :  CEMATE/1  CEMATE/2	Ignability EN ISO 11925-2 : 2002  SBI test EN 13823 : 2002

#### 3.2. TEST RESULTS FOR CONSTRUCTION PRODUCTS EXCEPT FLOORINGS

Test Method	Parameter	Number of tests	Results	
			Continuous parameters mean m	Compliance parameter
EN ISO 11925-2. Surface application. 30 s exposure	$F_s \leq 150$ mm	6	–	YES
	Flaming droplets / particules with a filter paper ignition		–	NO
EN 13823 : 2002.	FIGRA <sub>0.2 MJ</sub> (W/s) FIGRA <sub>0.4 MJ</sub> (W/s) LFS < edge THR <sub>600s</sub> (MJ)	3	5 5 – 1,2	– – YES –
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) TSP <sub>600s</sub> (m <sup>2</sup> )		38 39	– –
	Flaming droplets / particules: FDP (≤ 10 s) FDP (> 10 s)		– – –	NO – –

#### 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>B</b>	<b>s2</b>	<b>d0</b>

Classification : **B – s2, d0**

##### 4.2. FIELD OF APPLICATION

The classification is valid for the following product parameters :

- plastified PVC foil with the same composition than the product presented,
- surfacic mass of the PVC foil :  $(240 \pm 15) \text{ g/m}^2$ ,
- thickness of the PVC foil :  $17/100 \text{ mm} \pm 5 \%$ ,
- various colours.

The classification is valid for the following end use conditions :

- without substrate,
- or with substrate classified A2 and a minimum airgap of 40 mm,
- kept under tension at its edges by a fastening system applying a minimum tensile force of 30 daN/m to the film.

**Report to be followed on next page**

**5. LIMITATIONS**

**5.1. RESTRICTIONS CONCERNING THE VALIDITY PERIOD OF THE CLASSIFICATION REPORT**

None.

**5.2. WARNING**

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

**Trappes, the 03 January 2008**

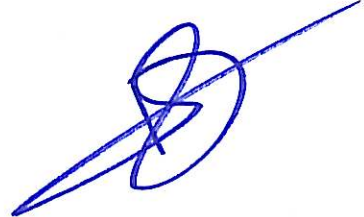
**The Head of the Fire  
Behaviour Division**



**Alain SAINRAT**



**The Responsible for test**



**Alexandre DERNIAUX**

333 Pfingsten Road  
Northbrook, Illinois 60062-2096  
United States Country Code (1)  
(847) 272-8800  
FAX No. (847) 272-8129  
<http://www.ul.com>



January 31, 2001

Barrisol-Normalu S. A.  
Mr. Jean-Marc Scherrer  
Route du Sipes  
68680 Kembs  
FRANCE

Our Reference: R18757

Subject: Classification of Sheathing Material

Dear Mr. Scherrer:

This is in reply to your request that we confirm the Surface Burning Characteristics of your sheathing material used as a stretch ceiling system.

The following products are Classified for UL and C-UL under the sheathing material category:

Lacquers (02012 to 02063)  
Satins (07075 to 07092)  
Matts (01016 to 01040)  
Metallics (06010 to 06090)  
Transluents (04013 to 04072)



SURFACE BURNING CHARACTERISTICS  
SHEATHING MATERIAL

Flame Spread	10
Smoke Developed	400

It is understood that these results apply only to those products produced under the Underwriters Laboratories Follow-Up Service Program and that evidence of this is the appearance of the UL Classification Marking attached to the product.

A not-for-profit organization  
dedicated to public safety and  
committed to quality service

The Classification Marking of Underwriters Laboratories Inc. on the product is the only method provided by Underwriters Laboratories to identify products which have been produced under its Classification and Follow-Up Service Program.

Please feel free to contact us if you have any questions.

Sincerely,



JUDITH G. MARZULLO  
Senior Engineering Associate  
Conformity Assessment Services,  
Dept. 3011E

Reviewed by:



JAMES W. HATCHER  
Staff Engineer  
Conformity Assessment Services,  
Dept. 3011E

## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

**Manufacturer**                      Stretch Ceilings (UK) Ltd

**Address**                              Doman Road  
Yorktown Industrial Estate  
Camberley  
Surrey, GU15 3DF  
United Kingdom (UK)

**Annex A1 Item**                      A.1/3.18 - SURFACE MATERIALS & FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS (a): Decorative Veneers

**Product Type**                      MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS & NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE & TOXIC PRODUCTS OF COMBUSTION

**Product Description**              Fire Resisting Material - Type: "Barrisol Stretch Ceiling System"

**Specified Standard**              IMO Fire Test Procedures Code, Annex 1, Part 2 and Part 5

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue                      8 March 2006                      Expiry date                      7 March 2011

Certificate No.                      MED 0650077

Signed



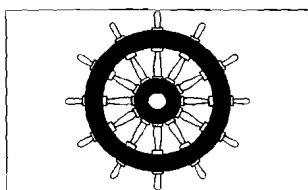
Sheet No                              1 of 2

Name

M. Farrier  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.  
yy                      Last two digits of year mark affixed.

**This certificate is issued under the authority of the MCA.**

"Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group.  
Registration number 4929226.  
Registered office 71 Fenchurch Street, London EC3M 4BS, England

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."

### DESIGN APPRAISAL DOCUMENT

Date 8 March 2006	Quote this reference on all future communications LPA/SPS/FITA/MF
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 0650077

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Warrington Fire Research Centre Ltd., Warrington, United Kingdom, Fire Test Reports WARRES No. 67339 and WARRES No. 71029, dated 21 June 1996 and 11 April 1997 respectively.

#### CONDITIONS OF CERTIFICATION

1. Consisting of: suspended ceiling membrane plastic film (0.2mm thick, 200g/m<sup>2</sup> weight).
2. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
3. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.

#### PLACE OF PRODUCTION

Normaw SA  
Route du Sipes  
68680  
Kembs  
France



Martin Farrier  
Lead Specialist  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038



### DESIGN APPRAISAL DOCUMENT

Date 8 March 2006	Quote this reference on all future communications LPA/SPS/FITA/MF
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#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F060088

This Design Appraisal Document forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Warrington Fire Research Centre Ltd., Warrington, United Kingdom, Fire Test Reports WARRES No. 67339 and WARRES No. 71029, dated 21 June 1996 and 11 April 1997 respectively.

#### CONDITIONS OF CERTIFICATION

1. Consisting of: suspended ceiling membrane plastic film (0.2mm thick, 200g/m<sup>2</sup> weight).
2. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

#### PLACE OF PRODUCTION

Normaw SA  
Route du Sipes  
68680  
Kembs  
France

Lloyd's Register EMEA  
London Office

  
Lloyd's Register

Martin Farrier  
Lead Specialist  
Safety & Pollution Services  
London Plan Approval  
Lloyd's Register EMEA

#### Supplementary Type Approval Terms and Conditions

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).*