



le futur en construction

**SAFETY, STRUCTURES AND FIRE DEPARTMENT**

Reaction to fire

# **REACTION TO FIRE CLASSIFICATION REPORT No. RA09-0350 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1**

**Provided the Ordinance from the Ministry of the interior, November 21, 2002.  
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, amended)  
Seule la version française fait foi.**

**Only the French version is legally acceptable.**

**Valid 5 years as from October 08<sup>th</sup>, 2009**

**Owner:** **RENOLIT Ondex  
Avenue de Tavaux  
21800 CHEVIGNY SAINT SAUVEUR  
FRANCE**

**Commercial brand(s):** **ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN**

**Brief description:** **Light transmitting single skin profiled plastic sheets  
(see detailed description in paragraph 2)**

**Date of issue:** **October 08<sup>th</sup>, 2009**

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code and of the law dated June 3<sup>rd</sup>, 1994.  
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The reproduction of this classification report is only authorised in its integral form.  
It comprises 4 pages.

**CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT**

SIÈGE SOCIAL > 84 AVENUE JEAN JAURÈS | CHAMPS-SUR-MARNE | 77447 MARNE-LA-VALLÉE CEDEX 2

TÉL. (33) 01 64 68 84 12 | FAX. (33) 01 64 68 84 79 | [www.cstb.fr](http://www.cstb.fr)

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## 1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1 standard.

## 2. Product description

Light transmitting single skin profiled sheets.

Plane and rigid sheets consisting of two coextruded elements as follows:

- A sheet made of non-plasticized polyvinyl chloride and fillers.
- An anti-UV treated non-plasticized polyvinyl chloride and fillers based surface layer.

Provided nominal weights per unit area: 1.1 and 2.9 kg/m<sup>2</sup>.

Provided nominal thicknesses: 0.6 and 1.7 mm.

Provided colour: bluish green.

Appearance: translucent.

## 3. Tests reports and tests results in support of this classification

### 3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report Nos.	Test method
<b>CSTB</b>	<b>RENOLIT Ondex Avenue de Tavaux 21800 CHEVIGNY SAINT SAUVEUR FRANCE</b>	<b>ES541090544</b>	RA09-0350	EN ISO 11925-2 EN 13823

**3.2 Tests results**

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 30s surface exposure	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN 0.6 mm thick	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN 0.6 mm thick	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s surface exposure	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN 1.7 mm thick	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN 1.7 mm thick	6	Fs > 150 mm Filter paper	Not reached Not ignited

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN  0.6 mm thick	3	FIGRA <sub>0.2MJ</sub> (W/s)	<b>0.0</b>	-
			FIGRA <sub>0.4MJ</sub> (W/s)	<b>0.0</b>	-
			LFS	-	<b>Not reached</b>
			THR <sub>600s</sub> (MJ)	<b>0.4</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>0.5</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>14.9</b>	-
			Flaming droplets or debris	-	<b>None</b>
EN 13823	ONDEX PVC NP TRANSLUCIDE DIFFUSANT OPALIN  1.7 mm thick	3	FIGRA <sub>0.2MJ</sub> (W/s)	<b>0.0</b>	-
			FIGRA <sub>0.4MJ</sub> (W/s)	<b>0.0</b>	-
			LFS	-	<b>Not reached</b>
			THR <sub>600s</sub> (MJ)	<b>0.7</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>5.4</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>41.5</b>	-
			Flaming droplets or debris	-	<b>None</b>

(-) means: not applicable

**4. Classification and direct field of application**

**4.1 Reference of the classification**

This classification has been carried out in accordance with clauses 11.6, 11.9.2 and 11.10.1 of the NF EN 13501-1 standard.

**4.2 Classification**

Fire behaviour		Smoke production		Flaming droplets or debris
<b>B</b>	-	<b>s1</b>	,	<b>d0</b>

**Classification: B - s1, d0**

**4.3 Field of application**

This classification is valid for the following product parameters:

- The product described in paragraph 2.
- A range of nominal thicknesses from 0.6 to 1.7 mm.
- A range of nominal weight per unit area from 1.1 to 2.9 kg/m<sup>2</sup>.
- Various colours and a translucent appearance.

This classification is valid for the following end use conditions:

- Mechanically fixed on metallic substructure.
- With a minimum air gap of 200 mm.
- With or without A1 or A2-s1, d0 class substrate with a density  $\geq 820 \text{ kg/m}^3$ .

Champs-sur-Marne, October 08<sup>th</sup>, 2009

**The Technician  
responsible for the test**



**Olivier BRAULT**

**The Head of Reaction to Fire laboratory**



**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT