

## **REACTION TO FIRE CLASSIFICATION REPORT No. RA15-0088 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1+A1:2013**

**Notification by the French Government to the European Commission under no. 0679**

**Seule la version française fait foi**

**The French version is legally acceptable**

### **Product standard**

**NF EN 1013+A1:2014** "Light transmitting single skin profiled plastics sheets for internal and external roofs, walls and ceilings – Requirements and test methods"

<b>Owner:</b>	<b>RENOLIT ONDEX Avenue de Tavaux 21800 CHEVIGNY-SAINT-SAUVEUR FRANCE</b>
<b>Commercial brand(s):</b>	<b>RENOLIT ONDEX PVC NP – CRISTAL, TRANSLUCIDE, DIFFUSANT, OPALIN</b>
<b>Manufacturing unit(s):</b>	<b>RENOLIT ONDEX Avenue de Tavaux 21800 CHEVIGNY-SAINT-SAUVEUR FRANCE</b>
<b>Brief description:</b>	<b>Light transmitting single skin profiled plastics sheets (see detailed description in paragraph 2)</b>
<b>Date of issue:</b>	<b>April 24<sup>th</sup>, 2015</b>

This classification report certifies only the characteristics of the object submitted for testing but does not prejudge the characteristics of similar products. So it does not constitute a product certification in the sense of Articles L 115-27 to L 115-33 and R 115-1 to R 115-3 of the Consumer Code.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 7 pages.

## **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+A1:2013 standard.

## **2. Product description**

Light transmitting single skin profiled sheets.

Plane and rigid sheets made of non-plasticized extruded polyvinyl chloride, fillers and anti-UV. sheets are coloured by mineral or organic pigmentation in the mass.

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 aspects: cloudy/blurred and transparent/limpid.

Provided colours: translucent and crystal.

### 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 No.	Test method
<b>CSTB</b>	<b>RENOLIT ONDEX</b> <b>Avenue de Tavaux</b> <b>21800 CHEVIGNY-SAINT-SAUVEUR</b> <b>FRANCE</b>	<b>ES541140684</b>	RA15-0088	NF EN ISO 11925-2:2013 NF EN 13823+A1:2014

#### 3.2 Tests results

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

**3.2 Tests results (continuation)**

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters Mean values	Compliance parameters
NF EN 13823+A1	RENOLIT ONDEX PVC NP – CRISTAL 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>	-
			SMOGRAM <sup>2</sup> /S <sup>2</sup> )	<b>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>17.9</b>	-
			Flaming droplets or debris	-	<b>None</b>
NF EN 13823+A1	RENOLIT ONDEX PVC NP – TRANSLUCIDE 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>0.6</b>	-
			SMOGRAM <sup>2</sup> /S <sup>2</sup> )	<b>4.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>41.3</b>	-
			Flaming droplets or debris	-	<b>None</b>

**3.3 Additional tests**

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters Mean values	Compliance parameters
NF EN 13823+A1	RENOLIT ONDEX PVC NP – TRANSLUCIDE 0.6 mm thick	1	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>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>6.6</b>	-
			Flaming droplets or debris	-	<b>None</b>
NF EN 13823+A1	RENOLIT ONDEX PVC NP – CRISTAL 1.7 mm thick	1	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>0.5</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>38.5</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+A1:2013 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 weights per unit area from 1.1 to 2.9 kg/m<sup>2</sup>.
- Various aspects and colours.

This classification is valid for the following end use conditions:

- Mechanically fixed on metal substructure (as defined in NF EN 1013+A1 standard).
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density  $\geq 652$  kg/m<sup>3</sup>.
- With a minimum air gap of 200 mm.

## 5. Limitations

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

The classification assigned to the product in this report is appropriate to a declaration of performance by the manufacturer within the context of system 3 attestation of conformity and CE marking under the European Construction Products Regulation (regulation UE no. 305/2011). The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Champs-sur-Marne, April 24<sup>th</sup>, 2015

**The Technician  
Responsible for the test**



**Benoit FOREST**

**The Head of Reaction to Fire  
Unit**



**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT



*le futur en construction*

**SAFETY, STRUCTURES AND FIRE DEPARTMENT**

Reaction to Fire

# **REACTION TO FIRE CLASSIFICATION REPORT No. RA15-0121 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1+A1:2013**

**Notification by the French Government to the European Commission under no. 0679**

**Seule la version française fait foi**

**The French version is legally acceptable**

## **Product standard**

**NF EN 1013+A1:2014** "Light transmitting single skin profiled plastics sheets for internal and external roofs, walls and ceilings – Requirements and test methods"

<b>Owner:</b>	<b>RENOLIT ONDEX Avenue de Tavaux 21800 CHEVIGNY-SAINT-SAUVEUR FRANCE</b>
<b>Commercial brand(s):</b>	<b>RENOLIT ONDEX PVC NP – OPAQUE</b>
<b>Manufacturing unit(s):</b>	<b>RENOLIT ONDEX Avenue de Tavaux 21800 CHEVIGNY-SAINT-SAUVEUR FRANCE</b>
<b>Brief description:</b>	<b>Light transmitting single skin profiled plastics sheets</b> (see detailed description in paragraph 2)
<b>Date of issue:</b>	<b>June 02<sup>nd</sup>, 2015</b>

This classification report certifies only the characteristics of the object submitted for testing but does not prejudge the characteristics of similar products. So it does not constitute a product certification in the sense of Articles L 115-27 to L 115-33 and R 115-1 to R 115-3 of the Consumer Code.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 6 pages.

**CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT**

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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+A1:2013 standard.

## **2. Product description**

Light transmitting single skin profiled sheets.

Plane and rigid sheets made of non-plasticized extruded polyvinyl chloride and fillers. The sheets are coloured by mineral pigmentation in the mass.

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 aspect: opaque.

Provided colour: grey.

### 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 No.	Test method
<b>CSTB</b>	<b>RENOLIT ONDEX</b> <b>Avenue de Tavaux</b> <b>21800 CHEVIGNY-SAINT-SAUVEUR</b> <b>FRANCE</b>	<b>ES541140685</b>	RA15-0121	NF EN ISO 11925-2:2013 NF EN 13823+A1:2014

#### 3.2 Tests results

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

**3.2 Tests results (continuation)**

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters Mean values	Compliance parameters
NF EN 13823+A1	RENOLIT ONDEX PVC NP – OPAQUE 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>0.6</b>	-
			SMOGRA(m <sup>2</sup> /s <sup>2</sup> )	<b>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>18.8</b>	-
			Flaming droplets or debris	-	<b>None</b>
NF EN 13823+A1	RENOLIT ONDEX PVC NP – OPAQUE 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>0.0</b>	-
			TSP <sub>600s</sub> (m <sup>2</sup> )	<b>26.6</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+A1:2013 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.
- A range of nominal thicknesses from 0.6 to 1.7 mm.
- A range of nominal weights per unit area from 1.1 to 2.9 kg/m<sup>2</sup>.
- Various colours.
- An opaque aspect.

This classification is valid for the following end use conditions:

- Mechanically fixed on metal substructure (as defined in NF EN 1013+A1 standard).
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density  $\geq 652$  kg/m<sup>3</sup>.
- With a minimum air gap of 200 mm.

## 5. Limitations

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

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Champs-sur-Marne, June 02<sup>nd</sup>, 2015

**The Technician  
Responsible for the test**



**Benoit FOREST**

**The Head of Reaction to Fire  
Unit**



**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT