

# **REACTION TO FIRE CLASSIFICATION REPORT**

## **No. RA11-0329**

# **ACCORDING TO THE EUROPEAN STANDARD**

## **NF EN 13501-1**

**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**

**ETA guide n°009:** " Non load-bearing permanent shuttering kits / systems based on hollow blocks or panels of insulating materials and sometimes concrete"

**Owner:** **NUDURA CORPORATION**  
27 Hooper Road, Unit 10  
L4N 9S3 BARRIE - ONTARIO  
CANADA

**Commercial brand(s):** **Insulating shuttering blocks for NUDURA® concrete**  
**Integrated Building Technology**

**Manufacturing unit(s):** **LES INDUSTRIES DE MOULAGES POLYMAX Inc.**  
787 Industriel Boulevard  
J2J 1A4 GRANBY - QUEBEC  
CANADA

**Brief description:** **Shuttering system**  
(see detailed description in paragraph 2)

**Date of issue:** **November 30<sup>th</sup>, 2011**

The indicated classification does not prejudge 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.  
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 3 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 standard.

## 2. Product description

Shuttering block for modular building system consisting of two insulating panels made of fire-retarded expanded polystyrene (reference NOVA 35MB Resin) linked together with polypropylene based spreaders. Concrete is then poured in the shuttering blocks.

Overall nominal thicknesses of the shuttering block: from 235 to 438 mm.

Nominal thickness of a polystyrene wall: about 67 mm.

Nominal density of the polystyrene: from 20 to 25 kg/m<sup>3</sup>.

Colour of the polystyrene: green.

## 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
CSTB	<b>NUDURA CORPORATION</b> <b>27 Hooper Road, Unit 10</b> <b>L4N 9S3 BARRIE - ONTARIO</b> <b>CANADA</b>	<b>ES541110589</b>	RA11-0329	EN ISO 11925-2

### 3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 15s surface exposure	Insulating shuttering blocks for NUDURA® concrete Integrated Building Technology	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 15s edge exposure	Insulating shuttering blocks for NUDURA® concrete Integrated Building Technology	6	Fs > 150 mm Filter paper	Not reached Not ignited

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

##### **4.1 Reference of the classification**

This classification has been carried out in accordance with clauses 11.3 and 11.10.2 of the NF EN 13501-1 standard.

##### **4.2 Classification**

<b>Fire behaviour</b>		<b>Smoke production</b>		<b>Flaming droplets or debris</b>
<b>E</b>	-	<b>Not applicable</b>	,	<b>Not applicable</b>

**Classification: E**

##### **4.3 Field of application**

This classification is valid for the following product parameters:

- The shuttering system described in paragraph 2.
- A nominal thickness of fire-retarded expanded polystyrene wall of 67 mm.
- A range of overall nominal thicknesses of the shuttering block from 235 to 438 mm.
- A nominal density of fire-retarded expanded polystyrene from 20 to 25 kg/m<sup>3</sup>.
- A polystyrene with a green colour.

This classification is valid for the following end use conditions:

- With concrete poured in the shuttering block.
- With polypropylene based spreaders inside the shuttering block.

Champs-sur-Marne, November 30<sup>th</sup>, 2011

**The Technician  
Responsible for the test**

**Olivier BRAULT**

**The Head of Reaction to Fire  
laboratory**

**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT