Reaction to fire classification report No. 19920D

Owner of the classification report

PCIM SA
Rue du Gorimont 8
5590 Ciney (Achêne)
Belgium

Introduction

This classification report defines the classification assigned to the product ***'iQ3'*** in accordance with the procedures given in the standard EN 13501-1:2018: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 5 pages and may only be used or reproduced in its entirety

1. DETAILS OF CLASSIFIED PRODUCT

a) General

The product ***iQ3*** is defined as '*in-situ formed loose fill cellulose insulation*'.
Its classification is valid for the following end use application(s):
Used as thermal and/or acoustic insulation of buildings.

b) Product description

This description is based on information given by the sponsor.

	Nominal values
iQ3 (*)	
Type of product	In-situ formed loose fill thermal and/or acoustic insulation product made of vegetable fibres (cellulose).
Manufacturer	PCIM sa
Density (kg/m³)	25 – 65
Weighed amount put into the test frame (g) (**)	Depending on the used test method – see test reports Nos 19920B, 19920C & 19920G.
Filled volume in test frame (m³)	
Use of fire retardants	Yes, Magnesium sulphate and boric acid
Amount of fire retardants (%)	Known by the laboratory
Colour	Grey

(*) Also commercially known as **iQ3 CELLULOSE & CELLULOSE iQ3.**

More details (e.g. mounting and fixing) are available in the test reports in support of this classification (§2a).

2. TEST REPORTS AND EXAP REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports (and EXAP reports)

Name of the laboratory	Name of the sponsor	Test report ref. No.	Test method and date
WFRGENT nv Ghent, Belgium	PCIM SA	19920B	EN ISO 11925-2:2010/AC:2011
WFRGENT nv Ghent, Belgium	PCIM SA	19920C & 19920G	EN 13823:2010+A1:2014
WFRGENT nv Ghent, Belgium	PCIM SA	19920E	EXAP according to CEN/TS 15117 (August 2005)

b) Test results

Official test results used for the classification

Test method	Parameter	Number of tests	Results		Criteria for Class B-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
EN ISO 11925-2 (*) (2) 30 s flame application: Surface exposure - front side	$F_s \leq 150$ mm Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
(*) The material didn't melt nor pull away from the pilot burner. *(1) Based on the results obtained in test report No. 19920B – iQ3 25 kg/m³.* *(2) Based on the results obtained in test report No. 19920B – iQ3 65 kg/m³.*						
EN 13823 (3)	FIGRA $_{0,2\ MJ}$ (W/s) FIGRA $_{0,4\ MJ}$ (W/s) $LFS_{<edge}$ THR_{600s} (MJ) SMOGRA (m²/s²) TSP_{600s} (m²) Flaming droplets/particles f < 10 s f > 10 s	3	96 74 (-) 4,0 8 82 (-) (-)	(-) (-) Yes (-) (-) (-) No No	≤ 120 (-) (-) ≤ 7,5 ≤ 180 ≤ 200 (-) (-)	(-) (-) Yes (-) (-) (-) No No
(3) Based on the results obtained in test report No. 19920C – iQ3 62,5 kg/m³.						

(-) Not applicable.

Comparative test results used for the determination of the worst case density

EN 13823 *Test report No. 19920G*	FIGRA $_{0,2\ MJ}$ (W/s)	FIGRA $_{0,4\ MJ}$ (W/s)	THR_{600S} (MJ)	SMOGRA (m^2/s^2)	TSP_{600S} (m^2)
Sample 1: iQ3 24,7 kg/m³	107	79	5,0	7	85
Sample 2 (*): iQ3 65,6 kg/m³	115	89	4,2	9	82

(*) The test results of this sample were re-used in the official test report No. 19920C (as sample 1).

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.
The related European Assessment Document is EAD 040138-01-1201 (May 2018).
The related product standard is EN 15101-1:2013+A1:2019 and has been used for the mounting and fixing of the test specimens and the direct field of application.

b) Classification

The product ***iQ3*** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	**s2**	**d0**

c) Field of application

This classification for the product as described in §1b, is valid for the following end use applications:

- Substrate: Euro class E or better with a nominal thickness of at least 18 mm and a nominal density of at least 220 kg/m³
- With or without air gap
- Valid for all product sizes
- Fixing: Valid for all product fixings
- Valid for the product as placed on the market

This classification is valid for the following product parameters:

- Commercial names: **iQ3, CELLULOSE iQ3 & iQ3 CELLULOSE**
- Nominal thickness: Valid for all thicknesses
- Nominal density: 25 kg/m³ ± 15 % – 65 kg/m³ ± 15 %
- Use of fire retardants: Yes
- Colour: Grey

4. RESTRICTIONS

At the time the standard EN 13501-1:2018 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonized standards and technical specifications.

5. WARNING

This classification report 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 (DoP) by the manufacturer within the context of System 1 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products.

PREPARED BY	APPROVED BY
Niek De Pauw (Signature) Project assistant Ghent 2020.03.10 14:30:52 +01'00'	Bart Sette (Signature) General Manager Ghent 2020.03.11 13:29:51 +01'00'