

Reaction to fire classification report No. 16020C

Owner of the classification report

NMC sa
Gert-Noël-Strasse
4731 Eynatten
BELGIUM

Introduction

This classification report defines the classification assigned to the product '**NOMATEC® Tuff Pad**' in accordance with the procedures given in the standard EN 13501-1+A1: 2009: 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

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **NOMATEC® Tuff Pad** is defined as a 'PE-LD foam'.

Its classification is valid for the following end use application(s) :

'Used as pipe in free standing – thickness 17mm – all diameters and applied on structure'.

b) Description

Nominal value	
NOMATEC® Tuff Pad	
Material	The tested product is protective co-extruded round foam made of polyethylene foam with a reinforced outer skin
Total thickness insulation (mm)	17 +/- 10%
Total density (kg/m ³)	60 +/- 10%
Inner diameter (mm)	52
Colour	Black, red and light brown
Use of fire retardants	No
COMPONENTS	
<i>Polyethylene foam</i>	
Material	Polyethylene foam
Thickness (mm)	17 +/- 10%
Density (kg/m ³)	30 +/- 10%
Colour	Black, red and light brown
<i>Coating</i>	
Material	Polyethylene reinforced coating
Thickness (mm)	0,5 +/- 0,1
Density (kg/m ³)	920
Colour	Black, red and light brown
Fixation	The skin was applied to the core material by means of thermal welding

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THE CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. no.	Test method
WFRGENT nv Ghent, Belgium	NMC sa Eynatten, Belgium	16020A 16020B	EN ISO 11925-2 (November 2010)
WFRGENT nv Ghent, Belgium	NMC sa Eynatten, Belgium	16020D	EXAP according to CEN/TS 15117

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class E	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 15s flame application:						
<u>Surface exposure</u> - front side	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
<u>Edge exposure</u> - mid point 1,5mm behind surface	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No

(-) Not applicable

(*) The material melts but didn't pull away from the pilot burner.

(1) Based on the results obtained in test report No. 16020B – NOMATEC® Tuff Pad Red

	$F_s \leq 150\text{mm}$	Ignition filter paper	Average maximal flame spread (mm)
NOMATEC® Tuff Pad Black	Yes	No	30,0
NOMATEC® Tuff Pad Red	Yes	No	33,3
NOMATEC® Tuff Pad Light Brown	Yes	No	26,7

Based on the results obtained in test report No. 16020A: only edge exposure was performed.

3. CLASSIFICATION OF THE PRODUCT AND DIRECT FIELD OF APPLICATION

a) Reference and direct field of application

This classification has been carried out in accordance with EN 13501-1+A1: 2009 and by analogy with EN 14313: 2010 and EN 15715: 2009⁽¹⁾.

b) Classification

The product **NOMATEC® Tuff Pad** in relation to its reaction to fire behavior is classified as:

Fire behavior
E

c) Field of application

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

- Linear pipe insulation used as protective foam⁽¹⁾

This classification is also valid for the following product parameters:

- Nominal total thickness : All thicknesses
- Nominal inner diameter: 52mm
- Nominal density: Between or equal to 51 kg/m³ and 69 kg/m³
- Use of fire retardants: No
- All colours
- ***Polyethylene foam core***
 - Nominal thickness : 17 mm +/- 10%
 - Nominal density: 30 kg/m³ +/- 10%
 - All colours
- ***Polyethylene foam reinforced outer skin***
 - Nominal thickness : 0,5 mm +/- 0,1 mm
 - Nominal density: 920 kg/m³
 - All colours
 - Applied to the foam core by means of thermal welding



⁽¹⁾ Although the product NOMATEC® Tuff Pad is not used as a thermal insulation product, the product meets the other requirements declared in the standards EN 14313 and EN 15715. Therefore, these standards are used as a base for this classification.

4. RESTRICTIONS

At the time the standard EN 13501-1+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

5. WARNING

This classification report does not represent type approval nor certification of the product.

Report	Name	Signature (*)	Date
Prepared by	I. LAMMERTYN		27 JUNI 2013
Reviewed by	ir. K. CATRY		27 JUNI 2013

(*) For and on behalf of "WFRGENT nv"

EN 13501-1 E WG 3E*

This document is the original version of this classification report and is written in English.
This report may be used only literally and completely for publications. - For publications of certain texts, in which this report is mentioned, our permission must be obtained in advance.