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Testing. Advising. Assuring.

Title:

CLASSIFICATION OF
REACTION TO FIRE
PERFORMANCE
IN ACCORDANCE WITH
EN 13501-1: 2002

Notified Body No:

0833

Product Name:

Colorcoat Prisma®

Report No:

168407

Issue No:

3

Prepared for:

Tata Steel
Shotton Works
Deeside
Flintshire
CH5 2NH

Date:

23rd January 2008

1. Introduction

This classification report defines the classification assigned to 'Colorcoat Prisma®', in accordance with the procedures given in EN 13501-1:2002

2. Details of classified product

2.1 General

The product, 'Colorcoat Prisma®', is defined as being suitable for wall or ceiling applications.

2.2 Product description

The product, 'Colorcoat Prisma®' is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description			50 micron polyurethane pre finished steel
Product reference of system			Colorcoat Prisma®
Overall thickness of steel sheet			0.4mm
Coatings ('internal' test face)	Top coat	Product reference	50 micron Colorcoat Prisma®
		Generic type	Polyurethane
		Name of manufacturer	Tata Steel Colors
		Colour	Black
		Number of coats	1
		Application thickness	25 microns dry film
		Application method	Roller coat
		Curing process	PMT 224'C
		Flame retardant details	None present
	Primer coat	Product reference	PU primer
		Generic type	Primer
		Name of manufacturer	Tata Steel Colors
		Colour	Yellow
		Number of coats	1
		Application thickness	25 microns dry film
		Application method	Roller coat
		Curing process	PMT 232'C
		Flame retardant details	None present
Steel sheet		Product reference	Galvalloy
		Generic type	Galvanised steel
		Name of manufacturer	Tata Steel Colors
		Thickness	0.4mm
		Weight per unit area	3.16 Kg/m^2

Coating (reverse face)	Top coat	Product reference	Single coat backer
		Generic type	Polyester
		Name of manufacturer	Tata Steel Colors
		Colour	Grey
		Number of coats	1
		Application thickness	10 microns
		Application method	Roller coat
		Curing process	216'C
		Flame retardant details	None present
Description of construction of specimens		The flat pre finished steel sheeting was attached to a fabricated metal support frame. A folded metal flashing of the same material was fitted to the internal corner. The metal framework, metal sheeting dimensions and attachment of the sheeting to the framework, were as detailed in EN14782.2005 annex C.	
Joint Details		A vertical overlap joint was included in the long wing of the test assembly. This was as detailed in EN14782.2005 annex C.	

3. Test reports/extended application reports & test results in support of classification

3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
warringtonfire	Corus	WF 167259	EN 13823
warringtonfire	Corus	WF158188 WF 158187	EN ISO 1716

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA $_{0.2MJ}$	3	7.66	Compliant
	FIGRA $_{0.4MJ}$		3.38	Compliant
	THR $_{600s}$		0.72	Compliant
	LFS		No	Compliant
	SMOGRA		13.39	Compliant
	TSP_{600s}		49.38	Compliant
EN ISO 1716	PCS ≤ 3,0 MJ/kg (1) PCS ≤ 4,0 MJ/ m² (2) PCS ≤ 4.0 MJ/m² (3) PCS ≤ 3,0 MJ/kg (4)			
	Total Top Coat Primer Coat Steel	3 3 3 3	0.419MJ/kg 0.735MJ/m² 0.621MJ/m² 0.0 MJ/kg	Y Y Y Y

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4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 10 of EN 13501-1:2002

4.2 Classification

The product, 'Colorcoat Prisma®', in relation to its reaction to fire behaviour is classified:

A1

Reaction to fire classification: A1

4.3 Field of application

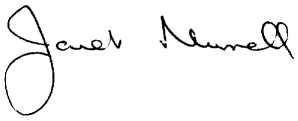
This classification is valid for the following end use applications:

i) Wall or Ceiling Applications, mounted with or without an air gap on to any substrate having a density equal to or greater than 800kg/m³, with a minimum thickness of 6mm and a fire performance of A2 or better

This classification is also valid for the following product parameters:

Product gauge	Greater than or equal to 0.4mm
Product coating thickness	Less than or equal to 50 microns
Product colour	Any
Product composition	No variation allowed

SIGNED **APPROVED**



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Janet Murrell
Technical Manager

Matthew Dale
Certification Engineer
on behalf of **Exova warringtonfire**

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