CHILTERN INTERNATIONAL FIRE LTD (trading as BM TRADA)

Sponsor:

Page 1 of 10

Teknos A/S Industrivej 19 DK 6580 Vamdrup Denmark

EN 13501-1 Classification

CONFIDENTIAL

Report: BMT/RFP/F14056/03

Product: Teknos FR Facade (19mm preservative treated, sawn face)

Issue date: September 2014

Notified Body No. 1314



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This document is confidential and remains the property of Chiltern International Fire Ltd. The legal validity of this report can only be claimed on the presentation of the complete report.





BM TRADA – the new name for Chiltern International Fire Ltd

From July 1st 2013, Chiltern International Fire Ltd commenced trading under the name of its parent company BM TRADA and at the same time adopted a brand new visual identity.

Historically, the group has delivered its services through a number of individual companies: BM TRADA Certification Ltd, TRADA Technology Ltd, Chiltern International Fire Ltd (including Chiltern Dynamics) and a network of international offices. Both BM TRADA Group and these individual companies will now trade under the same name - BM TRADA - and adopt the new visual identity.

To coincide with this change, our Technical Reports, Test Reports, Products Assessments, company stationery and marketing collateral have been re-designed to carry the new branding and visual identity.

The validity of all documents previously issued by the individual companies including certificates, test reports and product assessments is unaffected by this change and a letter to this effect will be available to download from our website www.bmtradagroup.com.

About BM TRADA.

With origins dating back to 1934, we have a deep history and services which are highly valued by our customers. We offer independent certification, testing, inspection, training and technical services around the world. In all these areas we continue to use industry-leading experts in their chosen fields to develop and deliver services – an ethos that has been at the heart of our approach since we began.

A recent review of our businesses and customers revealed that the individual identities sometimes make communications confusing, and that in an already complex business area, clarity and simplicity in communications is rare, but valued. It also revealed that a single identity and combined offer would help us strengthen our appeal.

With this in mind, we brought the companies together under the name BM TRADA and took the opportunity to create a fresh new visual identity.

We have modernised our image and combined our strengths. However, our values, our people and the integrity of our services remain the same. I hope you will welcome these changes and the improvements they will bring.

Jon Osborn

Chief Operating Officer

Report for: Teknos A/S Page 2 of 10 Ref: BMT/RFP/F14056/03



Contents

			Page No
1	Introduction		
	1.1	Membership of EGOLF and GNB-FSG SH02	4
	1.2	Sampling	4
2	Detail	s of classified product	5
	2.1	Product description	5
3		eports/extended application reports and test results in support of fication	7
	3.1	Test reports/extended application reports	7
	3.2	Test results	7
4	Class	ification and field of application	8
	4.1	Reference of classification	8
	4.2	Classification	8
	4.3	Field of application	9
5	Limitations		10
6	Autho	risation	10

Report for: Teknos A/S Ref: BMT/RFP/F14056/03



1 Introduction

This classification report defines the classification assigned to the product, Teknos FR Facade, in accordance with the procedures given in BS EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests.

1.1 Membership of EGOLF and GNB-FSG SH02

BM TRADA is a member of EGOLF and GNB-FSG (Fire Sector Group for the Group of Notified Bodies) and any agreements and recommendations that have been drawn up by these bodies to harmonise the approach of Laboratories has, where relevant, been incorporated within this classification report.

1.2 Sampling

BM TRADA did not conduct any sampling of this product and the Sponsor did not provide evidence that any sampling had taken place.

The legal validity of this report can only be claimed on presentation of the complete report.

Report for: Teknos A/S Page 4 of 10 Ref: BMT/RFP/F14056/03



2 Details of classified product

2.1 Product description

The product, Teknos FR Facade, is described briefly below.

Product name	Teknos FR Facade		
Description	Square edged, preservative treated solid Spruce cladding boards with sawn front face, laid vertically and coated with Tekno Safe 2407 primer and Nordica Eko 3330-03 top coat.		
Top coating	Product name:	Nordica Eko 3330-03	
	Manufacturer:	Teknos OY	
	Description:	Paint top coating for exterior use. Chemicals & proportions - See Note 1	
	Thickness:	125µm ±10%	
	Mass per unit area:	150g/m² ±10%	
	Colour:	White	
	Application method:	Spray	
Base/primer coating	Product name:	Teknosafe 2407	
	Manufacturer:	Teknos OY	
	Description:	Fire intumescent primer. Chemicals & proportions - See Note 1	
	Batch number:	32324-*-*1	
	Thickness:	280μm ±10%	
	Mass per unit area:	350g/m² ±10% (wet)	
	Colour:	White	
	Application method:	Spray	
Uncoated timber	Product name:	Spruce solid wood	
cladding boards	Species:	Nordic Spruce (Picea Abies)	
	Manufacturer:	Inntre AS	
	Description:	Spruce, square edged, solid wood cladding boards with sawn front face and planed rear face	
	Thickness:	19mm	
	Width:	147mm	
	Nominal Density:	500kg/m³ ± 100kg/m³	
	Colour:	Spruce	

The legal validity of this report can only be claimed on presentation of the complete report.

Report for: Teknos A/S Page 5 of 10 Ref: BMT/RFP/F14056/03



Preservative treatment	Product name:	Teknol Aqua 1410-01	
	Manufacturer:	Teknos A/S	
	Description:	Aqueous industrial wood preservative. Chemicals & proportions - See Note 1	
	Mass per unit area:	0.10kg/m ² - 0.12kg/m ²	
	Colour:	Colourless	
	Application method:	Flow coater	
Coated cladding Colour:	White		
Manufacture of coated boards:	Inntre AS industrially treated spruce solid wood with approximately 350 g / sqm (wet film weight) of fire retardant primer type Tekno Safe 2407 and approximately 150 g / sqm (wet film weight) of Nordica Eko 3330. The product is produced according to the rules given in the product standard EN 14915:2013.		
Intended application	Exterior and interior wall and ceiling cladding where there are fire safety requirements.		

Table 1: Product specification

Note 1: The sponsor was unwilling/unable to provide this information

The product is described in greater detail in the test reports provided in support of classification listed in Clause 3.1 of this document.

The sponsor has confirmed that there is a clearly identifiable stage in the production process of this component which results in an improvement in the reaction to fire performance.

Report for: Teknos A/S Page 6 of 10 Ref: BMT/RFP/F14056/03



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

3.1 Test reports/extended application reports

Name of Laboratory	Name of Sponsor	Test Reports / Extended application results	Test Method
BM TRADA	Teknos A/S	BMT/RFP/ F14056/01	BS EN ISO 11925-2:2010
BM TRADA	Teknos A/S	BMT/RFP/ F14056/02	BS EN 13823:2010

3.2 Test results

	Number		Results	
Test Method	Number of tests and report number	Parameter	Parameter - mean	Compliance with parameters for classification
	i	BS EN ISO 11925-2:	2010	
30s exposure surface test	6	F _s (flame spread)	F _s ≤ 150mm within 60s	compliant
Clause 7.3.3.1	BMT/RFP/ F14056/01	Flaming droplets/ particles	No ignition of filter paper	compliant
BS EN 13823:2010				
		FIGRA 0.2 MJ	119.0	compliant
		LFS (to edge of specimen)	None	compliant
BS EN	3	THR 600s	5.54	compliant
13823:2010	BMT/RFP/	SMOGRA	1.4	compliant
	F14056/02	TSP 600s	43.8	compliant
		Flaming droplets/ particles	None	compliant

The legal validity of this report can only be claimed on presentation of the complete report.

Report for: Teknos A/S Ref: BMT/RFP/F14056/03



4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of BS EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests.

4.2 Classification

The product, Teknos FR Facade, in relation to its reaction to fire behaviour is classified:

В

The additional classification in relation to smoke production is:

S1

The additional classification in relation to flaming droplets/particles is:

d0

Reaction to fire classification: B-s1, d0

The legal validity of this report can only be claimed on presentation of the complete report.

Report for: Teknos A/S Page 8 of 10 Ref: BMT/RFP/F14056/03



4.3 Field of application

This classification is valid for the following product parameters:

Nominal thickness	19 mm	
Colour	White	
Timber species Nordic spruce (Picea Abies)		
Timber preservative treatment Teknol Aqua 1410-01 (0.10kg/m² – 0.12kg/m²)		
Base/Primer coating	Teknosafe 2407 (280µm ±10% thick, 350g/m² ±10%)	
Top coating	Nordica Eko 3330-03 (125µm ±10% thick, 150g/m² ±10%)	
Mass per unit area*	7.5-8.3 kg/m ²	
Surface classified	The classification has been carried out with the treated sawn surface of the product being deemed as the front face.	

^{*} Variations were measured in the mass per unit area of the product submitted for testing. These variations are considered to be a manufacturing tolerance and are not a product parameter (or range).

This classification is valid for the following end use applications:

Substrate**	Any substrate of Class A1 or A2-s1,d0 with a density of at least 525 kg/m³ and a thickness of at least 12.0mm.	
Air gap	44mm ventilated cavity	
Means of fixing	Product fixed with nails onto timber studs	
Orientation	The cladding boards are vertically orientated.	
Corner joint	Butt joint	
Horizontal joint	No	
Vertical joint	No	
Exposed edges	No	

^{**} Reference EGOLF recommendation EGR 57:2011 (substrate thickness)

The legal validity of this report can only be claimed on presentation of the complete report.

Report for: Teknos A/S Page 9 of 10 Ref: BMT/RFP/F14056/03



5 Limitations

This classification document does not represent type approval or certification of the product.

6 Authorisation

	Written by:	Checked by:	Authorised by:
Signature:	A	DSinglin	
Name:	Philip Howard	Dawn Simpkins	Vincent Kerrigan
Title:	Technical Head Fire	Senior Technical Officer	Technical Manager
Date of issue:			5th September 2014

Report for: Teknos A/S Page 10 of 10 Ref: BMT/RFP/F14056/03

CHILTERN INTERNATIONAL FIRE LTD (trading as BM TRADA)

BM TRADA provides independent certification, testing, inspection, training and technical services around the world. We help customers large and small to prove their business and product credentials and to improve performance and compliance. With an international presence across many industry sectors, we offer a special focus and long history of technical excellence in supply chain certification, product certification and testing, and technical services to the timber, building, fire and furniture industries.



testing@bmtrada.com



bmtradagroup.com



+44 (0) 1494 569800