ATTAIN & RTC	Classification Report No	
Hangar One Leeds East Airport Church Fenton Tadcaster North Yorkshire LS24 9SE	Date	: 14-Mar-25
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Client's Name & Address:	Liquasil Limited Unit 8 Radway Industrial Estate Radway Road Solihull B90 4NR Northamptonshire	
Referenced Quote No:	Q2501001	
Identity of Test Item:	Metal Roof Coating System – B3-6	
Applied Standard:	Classification report for roofs/roof coverings exposed to	external fire

BS EN 13501-5:2005+A1:2009

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The applied method(s), test result(s) and the uncertainties (if requested) with confidence probability are given on the following pages which are part of this technical report.

Technical Report Date:

14-Mar-25

Prepared by: Chris Davey General Manager Reviewed by: Oner Arslan Technical Manager

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Ref: Q2501001

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1. Introduction

This classification report¹ defines the classification assigned to roof/roof covering Metal Roof Coating System – B3-6 in accordance with the procedures in BS EN 13501-5:2005+A1:2009.

- ¹ This report replaces classification report no: R250024 Issue:1 Date: 31-Jan-25.
 - This revised report has the term "Langley" removed from all references of the sample name in the following sections:
 - ✤ Identity of Test Item
 - Sample name in sections 1. Introduction, 4. Description of Sample and 6. BS EN 13501-5:2005+A1:2009 Classification.
 - The sections "4.1 General Arrangement of Panels", "4.1.1 'Base Layer" and "4.1.2 Layer 1" have been removed from the report and are now referenced to Technical Report R250009 for the sample descriptions.

2. Client

Liquasil L	imited		
Unit 8 Ra	dway Industrial	Esta	te
Radway F	Road		
Solihull			
B90 4NR			
Northam	ptonshire		

3. Referenced Standards

Tests have been carried out by taking the standards indicated below into consideration:

DD CEN/TS 1187:2012:	Test Methods for External Fire Exposure to Roofs
BS EN 13238:2010:	Reaction to Fire Tests for Building Products – Conditioning Procedures and General Rules for Selection of Substrates
BS EN 13501-1:2007+A1:2009 ² :	Fire Classification of Construction Products and Building Elements
	Part 1: Classification Using Data from Reaction to Fire Tests
BS EN 13501-5:2005+A1:2009 ² :	Fire Classification of Construction Products and Building Elements
	Part 5: Classification Using Data from External Fire Exposure to Roofs Tests
	² Note: Standards have been withdrawn/superseded. DD CEN/TS 1187:2012 states normative reference documents are indispensable for the application and for dated reference, only the edition cited applies.



4. Description of Sample

The roof/roof covering Metal Roof Coating System – B3-6 is fully described in the test report R250009 in support of the classification is listed in Section 6.

5. Report(s) in Support of this Classification

5.1 Report(s)

Table 1

Name of UKAS Accredited Test Laboratory	Name of Sponsor	Report Ref. / Date	Test method	
Attain RTC Limited	Langley Waterproofing	R250009/	DD CEN/TS 1187:2012	
(No. 27297)	Systems Limited	30-Jan-25	Test Method 4	

5.2 Test Results in Support of Classification

5.2.1 Test conditions

Lab. Temp. (°C):	Start of Stage 1:	17.3
	Start of Stage 2 (Test 1):	14.9
	Start of Stage 2 (Test 2):	18.0
	Start of Stage 2 (Test 3):	17.9

5.2.2 Test pitch

The specimens were tested in the sloping position: 45°

6. BS EN 13501-5:2005+A1:2009 Classification

Fire classification of construction products and building elements. Part 5: Classification using data from external fire exposure to roof tests.

Table 2	: Classif	ication I	Parameters

	Criteria Classification							
Stage	Parameter	B _{ROOF} (t4)	C _{ROOF} (t4)	D _{ROOF} (t4)	E _{ROOF} (t4)			
	Burn time	< 5 min < 5 min < 5 min		≥ 5 min				
1	Flame spread distance	< 0.38 m	< 0.38 m	< 0.38 m	No limit			
	Penetration	None	None	None	None			
2	Penetration	≥ 60 min	< 60 min ≥ 30 min	< 30 min	< 30 min			

Customer: Liquasil Limited



Issue: 2

Date: 14-Mar-25

		Test Results		Compliance Classification			
Stage	Parameter	Sample Ref.	Result ^a	B _{ROOF} (t4)	C _{ROOF} (t4)	D _{ROOF} (t4)	E _{ROOF} (t4)
	Burn time		00:00	Y / N	Y / N	Y	Y ∕ N
1	Flame spread distance	S24110003 -1	0.00m	Y <u>/ N</u>	Y <u>/ N</u>	Y	Y <u>∕ -</u> N
	Penetration		None	Y / N	Y / N	Y / N	Y / N
		S24110003 -2	None	Y / N	Y / N	Y / N	Y / N
2	Penetration	S24110003 -3	None	Y / N	Y / N	Y / N	Y / N
		S24110003 -4	None	Y / N	Y / N	Y	Y ∕ N
		Mean ^b	60 min	Y / N	Y / N	Y / N	Y / N

Table 3: Test Result Classification

^a Not for extended application.

^b If one or two of the specimens have not failed at one hour, a time of 60 minutes shall be used in calculating the mean penetration.

The roof / roof covering Metal Roof Coating System – B3-6 in relation to its external fire performance, classified;

B_{ROOF}(t4)

7. Field of Application

This classification is valid for the following conditions:

Range of pitches; $\geq 10^{\circ}$.

The classification is valid only for the deck and supporting structure as tested in Technical Report R250009.

8. Limitations

WARNING

BS EN 13501-5:2005+A1:2009 does not represent type approval or certification of the product.