

Customer: The Solid Wood Flooring Company  
Unit 1 Helena Court  
Tetbury  
Gloucestershire  
GL8 8JN

SATRA Ref: FLO0205148/1225

Report Date: 20<sup>th</sup> June 2012

Samples received: 18<sup>th</sup> June 2012

Contact: Chris Smith

## TECHNICAL SERVICES REPORT

Subject: Testing of one sample described by the customer as 'E308 Wide, Antique natural oak with BONA commercial lacquer + anti-slip top coat' to BS 7976-2:2002.

Your reference:

### Conditions of Issue:

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Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

**A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.**

Report signed by: Jonathan Lund  
Position: Flooring Technologist  
Department: Flooring

**TESTING OF ONE SAMPLE DESCRIBED BY THE CUSTOMER AS 'E308 WIDE, ANTIQUE NATURAL OAK WITH BONA COMMERCIAL LACQUER + ANTI-SLIP TOP COAT' TO BS 7976-2:2002.**

As requested by The Solid Wood Flooring Company, SATRA has conducted an assessment of the slip resistance of a sample of flooring as detailed below

## CONCLUSION

The sample referenced "E308 Wide, Antique natural oak with BONA commercial lacquer + anti-slip top coat" has demonstrated a low slip potential under both wet and dry test conditions, when tested using BS 7976-2: 2002 and assessed in accordance with the UK Slip Resistance Group guidelines, Issue 4: 2011.

## SAMPLE SUBMITTED

Sample Reference: 'E308 Wide, Antique natural oak with BONA commercial lacquer + anti-slip top coat'<sup>(1)</sup>

Appearance:



Date received: 18<sup>th</sup> June 2012  
Conditioning commenced: 18<sup>th</sup> June 2012  
Testing commenced: 20<sup>th</sup> June 2012  
Testing completed: 20<sup>th</sup> June 2012  
Testing conducted by: Phil Weal.

## TESTS CARRIED OUT

- BS 7976-2: 2002 Pendulum Testers, method of operation<sup>(2)</sup>

Note(s):

(1) Information supplied by customer. Not verified by SATRA.

(2) Results have been assessed in accordance with the UK Slip Resistance Group Guidelines – Issue 4: 2011

(3) The surface roughness values have been taken from different areas on the specimens

The Solid Wood Flooring Company  
Job: FLO0205148/1225  
Date: 20 June 2012

(Page 2 of 5)

Signed:



## RESULTS

**Table 1. BS 7976-2: 2002 Pendulum Testers, method of operation (Using Slider 96)**

Sample	Condition	Direction of Test			Overall average slip measurement (PTV's)
		A	B	C	
'E308 Wide, Antique natural oak with BONA commercial lacquer + anti-slip top coat'	Dry	66	67	65	<b>66</b>
	Wet (water)	38	43	44	<b>42</b>

### Direction of Test



**Table 2. Surface Roughness measurements (Rz) <sup>(3)</sup>**

Roughness measurement	1	2	3	4	5	6	7	8	9	10	Ave
RZ value	16.2	14.7	8.7	14.4	17.3	14.3	7.0	15.1	14.7	13.8	<b>13.6</b>

## COMMENTS

### BS 7976-2: 2002 (Slip Resistance)

The method of test is intended to assess the potential of slipping for people walking on a flooring material. A pendulum attached to a spring loaded foot fitted with a standard rubber slider referenced Slider 96 (formally known as Four S Rubber) is allowed to swing so the slider contacts a dry or wet test flooring over a set distance. The extent to which the pendulum fails to reach its release height on the overswing is determined as a measurement of the slip resistance. The procedure is carried out in three directions, in one principle direction, at 90° to this and at 45° to the principle direction.

The following table contains guidelines recommended by the UK Slip resistance group – Issue 4 2011.

**Table 3. UK Slip Resistance Group Guidelines.**

Slip potential	PTV
High slip potential	0-24
Moderate slip potential	25-35
Low slip potential	36+

## Surface Roughness Measurements (Rz)

During the assessment the surface roughness meter (Surtronic 3+) travelled across the surface of the floor covering at ten different areas. The surface roughness meter travels over a 4mm distance and measures the maximum trough to peak height in five 0.8 mm sections (rt1 to rt5); with the Rz roughness is the average of the 5 rt values.

The values achieved for surface roughness would suggest that the floor covering submitted for testing has a moderate slip potential in the wet conditions, as detailed in table 4 below.

**Table 4. Surface Roughness Criterion. These values apply to water wet situations.**

Slip potential	Rz value
High slip potential	Below 10 $\mu\text{m}$
Moderate slip potential	10 - 20 $\mu\text{m}$
Low slip potential	20 + $\mu\text{m}$

It is important to understand that the measurements undertaken should not be taken in isolation and that the pendulum test results take precedence when assessing slip potential.

*'In any complaint involving slip, the floor surface, the footwear and other environmental factors will all have an important bearing on slip resistance. It will be impossible to make either footwear or floorings slip resistant under all conditions which may be encountered in wear'.*

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Issue Date: 1st October 2009

The Solid Wood Flooring Company  
Job: FLO0205148/1225  
Date: 20 June 2012

(Page 5 of 5)

Signed:

