

TFI Report 440472-06

Classification

of the Reaction to Fire according to EN 13501-1:2010

Customer	Armstrong DLW GmbH
	Stuttgarter Straße 75
	74321 Bietigheim-Bissingen
	GERMANY

Product

Responsible at TFI

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resilient floor covering

Product 1: Scala 55 Connect PUR Product 2: Scala 30 Connect PUR

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This report includes 5 pages and 0 annex(es). This report is a translation of test report no. 440472-03.

Aachen, 08 May 2014



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This report only applies to the tested specimens and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the Textiles & Flooring Institute GmbH, also with regard to the order execution.



Testing laboratory, inspection and certification body recognised by the DIBt (Deutsches Institut für Bautechni



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1 Transaction

Test order	Classification of the reaction to fire according to EN 13501-1:2010
Order date	03 April 2014
Your reference	15897426, Dr. Bernd Kastl
Product designation(s)	Scala 55 Connect PUR ,
	Scala 30 Connect PUR
TFI sample number	14-04-0031, 14-04-0032

2 Product specification

The construction products are completely described in the test reports mentioned under item 3 and in the corresponding Annexes KT. The test reports provide the basis for the present classification.

3 Results

3.1 Test reports and test results used for the classification

Test laboratory	Customer	Test report no.	Test method
Toxtilos & Elegring		440472-04	EN ISO 9239-1:2010
Textiles & Flooring Institute GmbH	Armstrong DLW GmbH	dated 08 May 2014	EN ISO 11925-2:2010 (15 s ignition time)
Textiles & Flooring	Armstrong DLW GmbH	440472-05	EN ISO 9239-1:2010
Institute GmbH		dated 08 May 2014	-



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3.2 Test results

	Test method	Deremeter	Parameter Number of tests	Result	
	Test method Pa	Falameter		Mean value	Requirements fulfilled (Y/N)
EN ISO 9239-1:2010	Average critical heat flux [kW/m²]	3	10.8		
	Integrated smoke value [% x min.]		351		
Pro	EN ISO 11925-2:2010	Flame tip < 150 mm	6	-	Y

	Test method	Parameter	Number of	Result	
	rest method	Falameter	tests	Value*	Requirements fulfilled (Y/N)
EN ISO 9239-1:2010	Average critical heat flux [kW/m²]	2	≥ 11,0		
	Integrated smoke value [% x min.]		239		
Pro	EN ISO 11925-2:2010	Flame tip < 150 mm	-	-	-

*Worse result for the average critical heat flux and the corresponding integrated smoke value from the Radiant Panel Test with a reduced number of samples.



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3.3 Classification and field of application

The construction products "Scala 55 Connect PUR" and "Scala 30 Connect PUR" are classified as follows with regard to the reaction to fire:

 \mathbf{B}_{fl}

The additional classification with regard to the smoke development is:

s1

The additional classification with regard to burning droplets/particles is:

-

The format of the reaction to fire classification for floor coverings is:

Reaction to fire		Smoke de	velopment
B _{fl}	-	S	1

Classification of the reaction to fire: B_{fl} - s1

This classification is valid for the following end use application:

Type of end use application	horizontally laid floor covering
Substrate	noncombustible substrates (Euroclass A1 and A2-s1,d0) with a gross density \geq 1350 kg/m ³
Underlay for installation	No
Type of fixation	glued or unglued
Joint	No

Limitations

The classification assigned to the construction product in this report is suited for a declaration of conformity by the manufacturer or a Declaration of Performance within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive or Construction Products Regulation.





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The manufacturer has made a declaration, which is held on file. This declaration confirms that the design of the product does not require any specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic contents or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 for the attestation of conformity respectively system 3 for the assessment and verification of the constancy of performance is appropriate

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.



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