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Test Report: Containment Systems

Client	Blobel Umwelttechnik GmbH Henleinstrasse 29a 86368 Gersthofen, Germany		
Test objects	Designation: Containment systems / Retention barriers (Category 1: Manual, mobile, slide-insert)		
	Designation (dimensions): Type BL/BTL (250x30) Designation (dimensions): Type BL/BST (250x30)		
Order	Participation in the leak testing of mobile containment systems for firefighting water retention based on VdS Guidelines 2564-1		
Test result	Leaktightness Type BL/BTL:0 ml/m/h(< 50 ml/m/h)Leaktightness Type BL/BST:0 ml/m/h(< 50 ml/m/h)	ence: IS-BT1-MU Document: 1180345-K1	
Authors/contact	DiplIng. Martin Beike		
Project number	1180345-K1-10 / 2931886	N BTL_EN.	
Test date Report completion	22 December 2017 and 16 August 2018 16 November 2018		
Scope of report	3 pages	Reproducin	
Type BL/BTL	Type BL/BST	document a purposes re sent of	

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Reference, Date, Project No.:	IS-BT1-MUC, Bm / Sj, 16 November 2018, 1180345-K1-10 / 2931886
Client:	Blobel Umwelttechnik GmbH, Henleinstrasse 29a, 86368 Gersthofen, Germany
Test objects:	Type BL/BTL and Type BL/BST
Order:	Participation in the leak testing of mobile containment systems for firefighting water retention based on VdS Guidelines 2564-1



1 Basis

With the letter dated 18 July 2018, TÜV SÜD Industrie Service GmbH (TÜV SÜD) was engaged by Blobel Umwelttechnik GmbH, Henleinstrasse 29a, 86368 Gersthofen, Germany as follows: Participation in the leak testing of mobile containment systems for firefighting water retention based on VdS Guidelines 2564-1, dated October 2004.

2 Actions / Notes

On 22 December 2017 and 16 August 2018 measurement meetings with leak testing based on Chap. 5.8 of the VdS Guidelines 2564-1 took place in the factory hall-type buildings of Blobel Umwelttechnik GmbH. Once in the hall at Ziegelleistr. 5 and once at Henleinstrasse 29a each in 86368 Gersthofen, Germany.

The following systems were examined: Type BL/BTL and Type BL/BST.

Test sequence (based on Chap. 5.8 of the VdS Guidelines 2564-1):

• One-hour leak test

The following deviations from the leak test in accordance with Chap. 5.8 of VdS 2564-1 were found:

1. Substrate "Diamond height of 2 mm to DIN 59 220":

VdS 2564-1 specifies: "Diamond plate (checker plate) with a diamond height of 2 mm top DIN 59220 is used to simulate the substrate of the subsequent use conditions." The diamond height was 1.2 mm.

Products to DIN 59220 have a diamond (pattern) height of 1 mm to 2 mm. The question here is therefore whether the protection objective "leaktightness" to VdS 2564-1 really has to be verified for a diamond height of 2 mm or 1 mm to 2 mm, i.e. whether this is a transfer error from DIN 59220. To what extent a 2 mm, i.e. 0.8 mm higher diamond height than present actually influences the leaktightness test cannot be reliably foreseen without test-ing. But the diamond height used is standard and conforms to DIN 59220. The objective of the diamonds is to simulate the usual roughness of the substrate in the test. This is also achieved properly by a diamond height of 1.2 mm. The diamond height is therefore representative for different roughnesses.

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2. Test period of the main test at least 4 h and at least 1 h for the repeat testing:

A test period of 1 h was chosen instead of 4 h. A repeat test was not performed. In this case the moisture penetration was observed and no significant time changes were found. The reduction in the test period is therefore justified.

3 Test result

Blobel Umwelttechnik GmbH had the following containment systems / retention barriers successfully tested with the following test result.

Category 1: "Manual system, mobile, slide-insert"		Leak rate		Verification fulfilled
Test object Type	Test length / height [mm] / [mm]	Exist. [ml / m / h]	All. [ml / m / h]	
Type BL/BTL Seal type DEP EPDM foam black / closed cell $\rho \approx 95 \text{ kg/m}^3$	2,500/300	0	50	yes
Type BL/BST Seal Type DPV PVC foam, anthracite / closed-cell ρ = 100-125 kg/m³	2,500/300	0	50	yes

The test showed: the containment systems / retention barriers Type BL/BTL and Type BL/BST conform to the leaktightness based on Chap. 5.8 of VdS 2564-1.

Issued on 16 November 2018

TÜV SÜD Industrie Service GmbH Civil engineering Munich	Expert
gez.	gez.

Dipl. Ing. Martin Kneißl

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