

Test Report: Containment Systems

Mehr Sicherheit. Mehr Wert.

Blobel Umwelttechnik GmbH Client

Henleinstrasse 29a

86368 Gersthofen, Germany

Test objects Designation: Containment systems / Retention

(Category 2: Manual, fixed, rotatable)

Designation (dimensions): Type BL/BED (250x30) Designation (dimensions): Type BL/BDD (250x30)

Participation in the leak testing of mobile containment Order

systems for firefighting water retention based on VdS

Guidelines 2564-1

Test result Leaktightness Type BL/BED: 37 ml/m/h (< 50 ml/m/h)

> Leaktightness Type BL/BDD: 13 ml/m/h (< 50 ml/m/h)

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Project number 1180345-K2-20 / 2931886

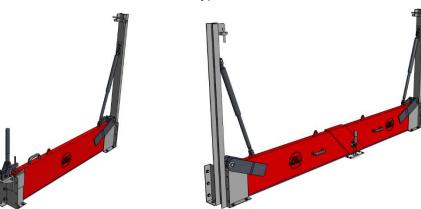
Test date 22 December 2017

16/11/2018 Report completion

Scope of report 3 pages

Type BL/BED

Type BL/BDD



Date: 16/11/2018 Reference: IS-BT1-MUC/Bm

Document: 1180345-K2-20_BTG_Fa Blobel_Prufung-

Dichtheit_Störfallsysteme_TYPE

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The document consists of

4 pages. Page 1 of 4

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TÜV SÜD Industrie Service GmbH.

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Blobel Umwelttechnik GmbH, Henleinstrasse 29a, 86368 Gersthofen, Germany

Test objects: Type BL/BED and Type BL/BDD

Order: Participation in the leak testing of mobile containment systems for firefighting water retention based on VdS



Industrie Service

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/BED and Type BL/BDD.

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 testing. 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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Client: Blobel Umwelttechnik GmbH, Henleinstrasse 29a, 86368 Gersthofen, Germany

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Industrie Service

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 2: "Manual system, fixed, rotatable"		Leak rate		Verification fulfilled
Test object Type	Test length / height [mm] / [mm]	Exist. [ml / m / h]	All. [ml / m / h]	
Type BL/BED Seal Type DPV PVC foam, anthracite / closed-cell ρ = 100-125 kg/m³	2,500/300	0	50	yes
Type BL/BDD 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/BED and Type BL/BDD conform to the leaktightness based on Chap. 5.8 of VdS 2564-1.

Issued on 16/11/2018

TÜV SÜD Industrie Service GmbH	
Civil engineering Munich	

Expert

gez.

gez.

Dipl. Ing. Martin Kneißl

Dipl.-Ing. Martin Beike