

Test report no.: 247327-II

Customer: ESE GmbH
Friedrich-Bückling-Straße 8
16816 Neuruppin
GERMANY

Order: Initial test according to RAL-GZ 951/1

This test report can be used as a basis for evaluation in the context of an approval procedure for the RAL quality mark.

It does not substitute a complete RAL certification.

Product: Mobile waste container made of plastic with 4 wheels and a nominal volume of 1100 l, flat lid

Mould number of body: WM-GC-1100B-1055

Mould number of lids: WM-GC-1100L-1056,

WM-GC-1100L-1057/WM-GC1100F-938

Letter of: 2026-01-14

Reference: ---

Receipt of samples: 2026-01-22

Sampling: ---

Test period: 2026-01-26 to 2026-03-03

This test report comprises 5 pages.

Würzburg, 16 March 2026
Gö

i. V. 

Dr.-Ing. Marcus Heindl
Head of Testing Laboratory

i. A. 

Dipl.-Ing. (FH) Benedikt Göbel
Project Manager Construction Products



The original language of the test report is German. In case of doubt, the German version is obligatory.

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1. Order

Company ESE GmbH, Friedrich-Bückling-Straße 8, 16816 Neuruppin, GERMANY, instructed SKZ - Testing GmbH with its letter of 14 January 2026 with tests according to RAL-GZ 951/1 of mobile waste containers made of plastic with 4 wheels and a nominal volume of 1100 l.

2. Test material

SKZ - Testing GmbH received the following sample material:

2026-01-22:

5 complete AWB 1100 l,
frontal receiver: form A, flat lid L-1056

5 complete AWB 1100 l,
frontal receiver: form A, flat lid L-1057/F-938

2 flat lids each L-1056 and L-1057/F-938

SKZ - Testing GmbH had no influence on the selection of the test material.



3. Test procedure

Usually we carry out tests according to standards for which we have an accreditation. The list of all standards for which we are accredited can be viewed as an annex to the accreditation certificate on the homepage at <https://www.skz.de/en/testing/products>. In case of non-accredited procedures, they are marked with *. If it is only a matter of deviating test conditions of an accredited standard, this is marked with #.

In case that a conformity assessment is issued, the general decision rule is as follows: The measurement uncertainty and the standard deviation are not taken into account. Deviations from this rule are only made at the customer's request, in the case of standard specifications or other specifications about which the customer is informed in each individual case.

The test scope complies with RAL-GZ 951/1:2023-08 „Waste and recycling material containers made of plastic; Quality assessment“ of the Gütegemeinschaft Abfall- und Wertstoffbehälter e.V. with all valid QA Procedures.

The complete test was carried out with lid L-1056.

All tests relevant to the lid were also carried out with lid L-1057/F-938.

4. Test results

The requirements according to DIN EN 840-2,-5,-6 are fulfilled. The results are described in test report no. 247327-I.

Gütegemeinschaft Abfall- und Wertstoffbehälter e.V.	Test report for 4-wheel AWB Made of plastic With flat lid With sliding lid	1100 ⊗ ○	K
Manufacturer: ESE	Mold-no. body: B-1055		Initial testing EP ⊗
Date of manufacture: Body 12/25, Lid 11/25	Mold-no. lid: L-1056		Internal-monitoring EÜ ○
Material: HDPE	Wheel: LIV		External test FÜ ○
Colour: Body grey, Lid blue	Tester / Date: Dill / 02.2026		

Quality and test requirements acc. to:	Name of the test	Set point	Actual value	EP	EÜ	FÜ	Test result		Comments ⁸⁾
							Pass	Fail	
	Appearance and workmanship			X	X ¹⁾²⁾	X	<input checked="" type="checkbox"/>	○	DIN EN 840-5 ⁹⁾ 4.2.1
3.3.2	Functional dimensions			X			<input checked="" type="checkbox"/>	○	DIN EN 840-2/3 ⁹⁾
3.3.2	Test dimensions				X ⁴⁾	X	<input checked="" type="checkbox"/>	○	
3.3.2 / 3.3.19	Chip nest			X		X	<input checked="" type="checkbox"/>	○	
3.3.2	Deformation of frontal receiver	≤ 0.7 %		X	X ¹⁾	X	<input checked="" type="checkbox"/>	○	
3.3.3	Volume			X			<input checked="" type="checkbox"/>	○	
3.3.5	Mass of bodies	≤ 1.5 %		X	X ⁴⁾	X	<input checked="" type="checkbox"/>	○	
3.3.6	Warm storage	≤ 1.5 %		X	X ³⁾		<input checked="" type="checkbox"/>	○	
3.3.7	Wetting agent test			X	X ³⁾	X	<input checked="" type="checkbox"/>	○	DIN EN 840-5 ⁹⁾ 4.11.1
3.3.8	Fall test			X	X ³⁾	X	<input checked="" type="checkbox"/>	○	T1
3.3.9	Ball drop test			X	X ³⁾	X	<input checked="" type="checkbox"/>	○	T2
3.3.10	Tilting - ability			X			<input checked="" type="checkbox"/>	○	
3.3.10	Tilting - ability – AWB with trunnion lifting device			X			<input checked="" type="checkbox"/>	○	
3.3.11	Lid test			X			<input checked="" type="checkbox"/>	○	
3.3.13	Stability - static	≥ 12°		X			<input checked="" type="checkbox"/>	○	
3.3.15	Kerb travel test			X			<input checked="" type="checkbox"/>	○	DIN EN 840-5 ⁹⁾ 4.7.4
3.3.16	Brake test			X	X ⁴⁾		<input checked="" type="checkbox"/>	○	DIN EN 840-5 ⁹⁾ 4.9.4
3.3.17	Wheel run, diameter of wheel	0 / -5 mm		X ⁶⁾			<input checked="" type="checkbox"/>	○	DIN EN 840-5 ⁹⁾ 4.9.3

3.3.18	Angle expansion test			X			<input checked="" type="checkbox"/>	O	
3.3.14	Kerb fall test			X			<input checked="" type="checkbox"/>	O	DIN EN 840-5 ⁹⁾ 4.7.5
3.3.15	Lateral impact on inclined plane			X			<input checked="" type="checkbox"/>	O	DIN EN 840-5 ⁹⁾ 4.7.3
	Pulling test	285 N / 300 N		X			<input checked="" type="checkbox"/>	O	DIN EN 840-5 ⁹⁾ 4.9.2
	Test for handles			X			<input checked="" type="checkbox"/>	O	DIN EN 840-5 ⁹⁾ 4.11.2
	Weathering			X ⁵⁾			O	O	DIN EN 840-5 ⁹⁾ 4.11.4
	Test for child - safety			X ⁷⁾			O	O	DIN EN 840-5 ⁹⁾ 4.11.5
	Function test for safety lid			X ⁷⁾	X ⁷⁾	X ⁷⁾	O	O	
	Safety requirements			X			<input checked="" type="checkbox"/>	O	DIN EN 840-6 ⁹⁾
5	Marking and labelling			X	X ⁴⁾	X	<input checked="" type="checkbox"/>	O	

- 1) Once per shift and per day
- 2) Colour test only after batch change
- 3) Once a week
- 4) Once per manufacturing period and per week

- 5) Certificate from an external testing institute or manufacturer
- 6) Certificate of the wheel manufacturer
- 7) Every AWB with sliding dome lid
- 8) The required test specifications must be taken from DIN EN 840
- 9) DIN EN 840-2/-3/-5/-6: 2020-06

5. Evaluation of the results

The containers meet the requirements of RAL-GZ 951/1 if they are delivered with certified wheels.

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