

Test report no: 247327-I

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

Order: Initial test according to DIN EN 840-2, -5, -6

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 report comprises 5 pages.

Würzburg, 16 March 2026
Gö

i. V.

Dr.-Ing. Marcus Heindl
Head of Testing Laboratory



i. A.

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

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The results refer to the products tested. The scope of accreditation is available on the Internet at www.skz.de.

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 DIN EN 840-2, -5, -6 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, B-1055, frontal receiver: form A, flat lid L-1056
- 5 complete AWB 1100 l, B-1055, 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 DIN EN 840-2:2020-06 "Mobile waste and recycling containers - Part 2: Containers with 4 wheels with a capacity up to 1 300 l with flat lid(s), for trunnion and/or comb lifting devices - Dimensions and design; German version EN 840-2:2020", DIN EN 840-5:2020-06 "Mobile waste and recycling containers – Part 5: Performance requirements and test methods; German version EN 840-5:2020" and DIN EN 840-6:2020-06 "Mobile waste and recycling containers - Part 6: Safety and health requirements; German version EN 840-6:2020".

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

4.1 Dimensions acc. to DIN EN 840-2; tab. 1, 1100 I

Dimension no.	Required dimension [mm]	Actual dimension [mm]
1 ^a	1370 ± 10	1365
2	1115 max.	1064 ¹⁾
3	1190 max.	1156 ¹⁾
4	1470 max.	1349 ¹⁾
5 ^a	860 – 1290	1218
6	885 ± 50	856
7 ^a	135 – 280	195
8 ^a	700 – 850	778
10 ^a	500 +15/-40	506
11 ^a	∅ 200 ± 2 (min. 160)	200
12 ^a	19 min.	26 ¹⁾
13 ^a	13 +5/-3	11
14 ^a	21 ± 2	20
16 ^a	26 ± 1	26
17 ^a	58 max.	56
18 ^a	20 min.	24
19	130 max.	119
20	15 max.	5
21 ^a	33 +8/-1	40
23 ^a	∅ 40 ± 2	39
24 ^a	670 +30/0	i. O.
25 ^a	350 ± 10	i. O.
26	750 +50/-40	719
27	130 min.	144
28 ^a	1275 max.	1238 ¹⁾
29 ^a	1185 min.	1188
30 ^a	1200 +15/0	1203
31 ^a	1265 max.	1210
33 ^a	1260 +20/-10	1260
34	880 +20/-50	830
35	1090 ± 70	997
36 ^a	150 ± 3	150
37 ^a	7 max.	5
38 ^a	6 +2/-4.5	5
40 ^a	R 4 max.	1
46 ^a	360 max.	293 ²⁾

^a Compulsory dimension for functional and safety reasons

¹⁾ Dimension also with lid L-1057/F-938 within tolerance

²⁾ Dimension only at lid L-1057/F-938

4.2 Test results according to DIN EN 840-5

No.	Test criterion		Required	Actual
4.2.1	Appearance		No damage, cracks, bubbles, flashes, etc.	OK
4.2.2	Volume	Body	---	974 l
		Lid	---	86 l
		Total	1100 l ± 55 l	1060 l ¹⁾
4.2.3	Deformation of frontal receiver		≤ 1.5 %	0.2 %
4.2.4	Masses		± 5 %	0.1 %
4.2.5	Colour		---	body: grey lid: blue
4.2.6	Marking		Standard: Volume: Manufacturer/tradename: Permissible max. weight: Month/year of production: Material:	EN 840-2 1100 L >ESE< 510 kg 12/25 PE-HD <02>
4.7.2	Ball drop test		full function after test	full function after test
4.7.3	Impacts on an inclined plane		full function after test	full function after test
4.7.4	Kerb travel (run)		full function after test	full function after test
4.7.5	Kerb travel (falls)		full function after test	full function after test
4.8	Stability	empty container	solid stability	solid stability
		full container	solid stability	solid stability
4.9.2	Pulling test	Pulling force - to keep in motion	≤ 285 N	155 N
		Pulling force - to set in motion	≤ 300 N	260 N
4.9.3	Wheel test		full function after test	OK
4.9.4	Brake tests		no rolling at a 10° incline	OK
4.10.2	Lifting and tilting test	empty container	no damages	no damages (comb- and trunnion lifting device)
4.10.3		full container	no damages	
4.11.1	Internal stress-cracking test		no cracks in critical areas	no cracks
4.11.2	Handle test		no damages	OK

¹⁾ Volume also with lid L-1057/F-938 within tolerance

4.3 Test results according to DIN EN 840-6

Sect.	Test criterion		Required	Actual
4	Construction of lifting device		secure receiving and locking	OK (comb- and trunnion lifting device)
5	Handles	Height above ground	pulling: 900 +400/-25 mm lifting: 700 – 850 mm	pulling: 1115 mm lifting: 780 mm
		Shape	rectangular: 20±2 x 30±5 mm	pulling: 20 x 31 mm lifting: 20 x 31 mm
		Straight length	at least 120 mm	pulling: 138 mm lifting: 130 mm
		Free space	at least 36 mm	pulling: 40 mm lifting: 38 mm
6	Wheels	Performance	all wheels as swivel castors	OK
		Nominal diameter	200 mm (or 160 mm)	OK
7		Direction lock	if present – then at least 2	---
8	Brakes	Number	at least 2	OK
		Handling	easy to handle	OK
		Central	unlocking safety device	---
9	Sharp edges		not existing	OK
10	Lid		no risk of injury	OK
11	Cleaning		easy to clean	OK
12	Instruction manual		required data available	OK

5. Evaluation of test results

The containers fulfill the requirements of DIN EN 840-1, -5, -6, if they are delivered with certified wheels.

Comment:

The tests according to DIN EN 840-5, point 4.11.4 „weathering“ were not conducted.