



COMPARISON EN 840 – RAL-GZ 951/1

December 2023

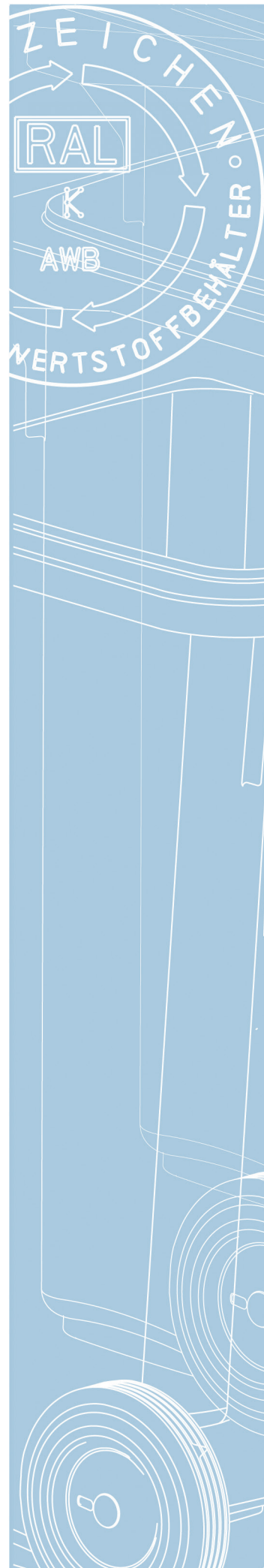
Test no.	Type of testing	EN 840		RAL-GZ 951/1	
		2 wheels	4 wheels	2 wheels	4 wheels
1	Outer appearance and workmanship	X	X	X	X
2	Dimensions (functional dimension)	X	X	X*1	X*1
3	Position of chip nest for RFID adapter			X	X
4	Test of stability of the RFID adapter			X	X
5	Weight			X*2	X*2
6	Determination of volume	X	X	X	X
7	Bending of frontal receiver	X	X	X*2	X*2
8	Ball drop test at t = -18°C	X	X	X*2	X*2
9	Drop test at t = -18°C, 4 x 3m			X	
10	Drop test at t = +23°C, 4 x 2,5m				X
11	Impact on wall / corner (inclined surface)		X		X
12	Kerb driving / rolling test		X		X
13	Kerb driving / falling test	X	X	X*2	X*2
14	Handles / lifting test		X		X
15	Stability	X	X	X*2	X*2
16	Wheel test (Test at a circular proving ground)	X	X	X*1	X*1
17	Brake test		X		X
18	Tiltability (lifting test)	X	X	X*1	X*1
19	Internal stress cracking test	X	X	X	X
20	Corrosion test	*3	*3	*3	*3
21	Weathering test	*4	*4	*4	*4
22	Warm storage			X	X
23	Pulling test (Strength to start and maintain the container movement)	X	X	X	X
24	Test of sliding cover (child safety)		X		X
25	Expansion angle test of comb lifting device			X	X
26	Lid test			X	X
27	Marking body	X	X	X*2	X*2
28	Marking lid and wheels			X	X
29	Marking and testing of the wheels by an independent test institute			X	X
30	Marking of waste fractions by colors (recommendation)		X	X	
31	Permissible total weight (definition)			X	X
32	Confirmation of fulfillment of further applicable standards			X	X
33	Safety requirements	X	X	X	X
34	Initial testing by an independent test institute			X	X
35	Self-monitoring			X	X
36	External monitoring by independent test institute			X	X
37	Examination+value definition outdoor directive 2000/14 EG			X	X
38	Examination and evaluation from polycyclic aromatic hydrocarbons (PAH) to AfPS GS 2019:01 PA			X	X

Additional requirements of the RAL GZ 951/1;2 in comparison to the EN 840

Footnotes: *1 additional requirements *3 Metal container and add-on components
*2 increased requirements *4 On test specimens

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Extended requirements through:

APPENDIX TO THE QUALITY ASSURANCE RAL-GZ 951/1

December 2023

Section Name of the request	EN 840	RAL-GZ 951/1
1. Company-specific requirements		
1.1 Certification according to DIN EN ISO 9001		X
1.2 Certification according to DIN EN ISO 45001		X
1.3 Evidence of own product development		X
1.4 Evidence of technical training and further education for own staff and customers		X
1.5 Operating a service hotline		X
1.6 Evidence of a defined complaints managementsystem		X
1.7 Evidence of a defined share of own production		X
1.8 Proof of a controlled incoming goods inspection		X
1.9 Provision of advisory services for the user		X
1.10 Existence of product liability insurance		X
1.11 Maintaining a document archive		X
1.12 Execution of all initial and external tests by an accredited institute		X
2. Social requirements		
2.2 No child labour		X
2.2 No work under duress		X
2.3 Compliance with minimum health and safety standards		X
2.4 Creation of employee representation bodies		X
2.5 No discrimination		X
2.6 No physical and/or psychological discipline		X
2.7 Compliance with working hours		X
2.8 Fair remuneration		X
3. Sustainability requirements and compliance with environmental protection requirements		
3.1 Certification according to DIN EN ISO 14001		X
3.2 Obligation to take back containers		X
3.3 Compliance with prescribed PAH limit values		X
3.4 Hygiene, health and environmental protection requirements		X
3.5 Recovery of recyclable components		X
3.6 Proof of the recycle content during production		X
3.7 Programme for CO2-neutral production of the containers		X
3.8 Environmental liability insurance		X