

DIN EN 1501-1:2016-03 (E)

Refuse collection vehicles - General requirements and safety requirements - Part 1: Rear loaded refuse collection vehicles (includes Amendment A1:2015)

Contents		Page
Foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	9
4	List of significant hazards	13
5	Safety requirements and/or protective measures	17
5.1	General	17
5.2	Compaction mechanism	17
5.3	Discharge system	19
5.4	Requirements for the waste container lifting device(s)	21
5.5	Position of the waste container lifting device in relation to the tailgate or discharge door	21
5.6	Satellite vehicle	21
5.7	Hydraulic, pneumatic and electric powered systems	21
5.8	Interchangeable body system	22
5.9	Operating symbols	22
5.10	Riding on rear loaded RCV by operatives	25
5.11	Control systems	28
5.12	Monitoring	29
5.13	Electrical components	30
5.14	Requirements for maintenance	31
5.15	Stability and driving security	32
5.16	Other	33
5.17	Noise control	34
6	Verification of safety measures and/or protective measures	34
7	Information for use	35
7.1	Warnings	35
7.2	Operation manual	36
7.3	Maintenance	38
7.4	Technical file	38
7.5	Marking	38
Annex A (normative)	Description of interfaces, volumes, and systems	39
Annex B (normative)	Open and closed systems - Footboard(s)	44
Annex C (informative)	Technical file	54
Annex ZA (informative)	Relationship between this Standard and the Essential Requirements of EU Directive 2006/42/EC	59
Bibliography		60

Figures Figure A.1 -- Interfaces	39
Figure A.2 -- Bodywork components, capacities for waste	40
EN 1501-1:2011+A1:2015 (E) Figure A.3 -- Specific terms used for compaction, ejection plate system and waste container lifting device	41
Figure A.4-1 -- Functional space -- Working stations and their visible spaces -- Top view	42
Figure A.4-2 -- Functional space -- Side view	43
Figure B.1 -- Open system from ground level	44
Figure B.2-1 -- Open system from footboard level and closed system from ground level	45
Figure B.2-2 -- Closed system from footboard level and closed system from ground level	46
Figure B.2-3 -- Closed system from footboard level and closed system from ground level	47
Figure B.3-1 -- Closed system from ground level or closed system with partial protective device from footboard level	48
Figure B.3-2 -- Closed system from ground level or closed system from footboard level with protective device	49
Figure B.4-1a -- Riding on footboards -- Footboard(s) and handles -- Situation I	50
Figure B.4-1b -- Riding on footboards -- Footboard(s) and handles -- Situation II	51
Figure B.4-2a -- Riding on footboards -- Minimum space occupied by the operative -- Situation I	52
Figure B.4-2b -- Riding on footboards -- Minimum space occupied by the operative -- Situation II	52
Figure C.1 -- Dimensions and masses	54
Figure C.2 -- Axle load calculation	55
Figure C.3-1 -- Instructions how to calculate stability in the container lifting operation	56
Figure C.3-2 -- Instructions how to calculate stability in the discharge operation	57
Figure C.3-3 -- Instructions how to calculate the lateral stability	58
Tables Table 1 -- List of significant hazards	13
Table 2 -- Graphical symbols	23