

ANNEX VIII

VERIFYING AIR DRAG DATA

Status: This is the original version (as it was originally adopted).

Appendix 4

Standard body and semitrailer configurations

5. All dimensions and masses without tolerances mentioned explicitly shall be in line with Regulation (EC) No 1230/2012, Annex 1, Appendix 2 (i.e. in the range of $\pm 3\%$ of the target value).

Table 9

Specifications of standard body 'B1'

Specification	Unit	External dimension(tolerance)	Remarks
Length	[mm]	6 200	
Width	[mm]	2 550 (– 10)	
Height	[mm]	2 680 (± 10)	box: external height: 2 560 longitudinal beam: 120
Corner radius side & roof with front panel	[mm]	50 - 80	
Corner radius side with roof panel	[mm]	50 - 80	
Remaining corners	[mm]	broken with radius ≤ 10	
Mass	[kg]	1 600	has not be verified during air drag testing

Table 10

Specifications of standard body 'B2'

Specification	Unit	External dimension(tolerance)	Remarks
Length	[mm]	7 400	
Width	[mm]	2 550 (– 10)	
Height	[mm]	2 760 (± 10)	box: external height: 2 640 longitudinal beam: 120
Corner radius side & roof with front panel	[mm]	50 - 80	
Corner radius side with roof panel	[mm]	50 - 80	
Remaining corners	[mm]	broken with radius ≤ 10	

Table 10

Specifications of standard body 'B2'

Mass	[kg]	1 900	has not be verified during air drag testing
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Table 11

Specifications of standard body 'B3'

Specification	Unit	External dimension(tolerance)	Remarks
Length	[mm]	7 450	
Width	[mm]	2 550 (– 10)	legal limit (96/53/EC), internal \geq 2 480
Height	[mm]	2 880 (\pm 10)	box: external height: 2 760 longitudinal beam: 120
Corner radius side & roof with front panel	[mm]	50 - 80	
Corner radius side with roof panel	[mm]	50 - 80	
Remaining corners	[mm]	broken with radius \leq 10	
Mass	[kg]	2 000	has not be verified during air drag testing

Table 12

Specifications of standard body 'B4'

Specification	Unit	External dimension(tolerance)	Remarks
Length	[mm]	7 450	
Width	[mm]	2 550 (– 10)	
Height	[mm]	2 980 (\pm 10)	box: external height: 2 860 longitudinal beam: 120
Corner radius side & roof with front panel	[mm]	50 - 80	
Corner radius side with roof panel	[mm]	50 - 80	
Remaining corners	[mm]	broken with radius \leq 10	

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Table 12

Specifications of standard body 'B4'

Mass	[kg]	2 100	has not be verified during air drag testing
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Table 13

Specifications of standard body 'B5'

Specification	Unit	External dimension(tolerance)	Remarks
Length	[mm]	7 820	internal \geq 7 650
Width	[mm]	2 550 (- 10)	legal limit (96/53/EC), internal \geq 2 460
Height	[mm]	2 980 (\pm 10)	box: external height: 2 860 longitudinal beam: 120
Corner radius side & roof with front panel	[mm]	50 - 80	
Corner radius side with roof panel	[mm]	50 - 80	
Remaining corners	[mm]	broken with radius \leq 10	
Mass	[kg]	2 200	has not be verified during air drag testing

Table 14

Type and chassis configuration of standard semitrailer 'ST1'

Type of trailer	3-axle semi-trailer w/o steering axle(s)
Chassis configuration	<ul style="list-style-type: none"> — End to end ladder frame — Frame w/o underfloor cover — 2 stripes at each side as underride protection — Rear underride protection (UPS) — Rear lamp holder plate — w/o pallet box — Two spare wheels after the 3rd axle — One toolbox at the end of the body before UPS (left or right side) — Mud flaps before and behind axle assembly — Air suspension — Disc brakes — Tyre size: 385/65 R 22,5 — 2 back doors — w/o side door(s) — w/o tail lift

Table 14

Type and chassis configuration of standard semitrailer ‘ST1’

	—	w/o front spoiler
	—	w/o side fairings for aero

Table 15

Specifications standard trailer ‘ST1’

Specification	Unit	External dimension(tolerance)	Remarks
Total length	[mm]	13 685	
Total width (Body width)	[mm]	2 550 (– 10)	
Body height	[mm]	2 850 (± 10)	max. full height: 4 000 (96/53/EC)
Full height, unloaded	[mm]	4 000 (– 10)	height over the complete length specification for semi-trailer, not relevant for checking of vehicle height during constant speed test
Trailer coupling height, unloaded	[mm]	1 150	specification for semitrailer, not subject to inspection during constant speed test
Wheelbase	[mm]	7 700	
Axle distance	[mm]	1 310	3-axle assembly, 24t (96/53/EC)
Front overhang	[mm]	1 685	radius: 2 040 (legal limit, 96/53/EC)
Front wall			flat wall with attachments for compressed air and electricity
Corner front/side panel	[mm]	broken with a strip and edge radii ≤ 5	secant of a circle with the kingpin as centre and a radius of 2 040 (legal limit, 96/53/EC)
Remaining corners	[mm]	broken with radius ≤ 10	
Toolbox dimension vehicle x-axis	[mm]	655	Tolerance: ± 10 % of target value

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Table 15

Specifications standard trailer ‘ST1’

Toolbox dimension vehicle y-axis	[mm]	445	Tolerance: ± 5 % of target value
Toolbox dimension vehicle z-axis	[mm]	495	Tolerance: ± 5 % of target value
Side underride protection length	[mm]	3 045	2 stripes at each side, acc. ECE- R 73, Amendment 01 (2010), +/- 100 depending on wheelbase
Stripe profile	[mm ²]	100 × 30	ECE- R 73, Amendment 01 (2010)
Technical gross vehicle weight	[kg]	39 000	legal GVWR: 24 000 (96/53/EC)
Vehicle curb weight	[kg]	7 500	has not be verified during air drag testing
Allowable axle load	[kg]	24 000	legal limit (96/53/EC)
Technical axle load	[kg]	27 000	3 × 9 000