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APTU Uniform Rules (Appendix F to COTIF 1999)

Uniform Technical Prescriptions (UTP) applicable to Rolling Stock, subsystem

FREIGHT WAGONS - (UTP WAG) - ANNEX E VEHICLE TRACK INTERACTION AND GAUGING

Explanatory note:

The texts of this UTP which appear without columns are identical with corresponding texts of the European Union regulations. Texts which appear in two columns differ; left-hand column contains the UTP regulations, right-hand column shows the text in the corresponding EU regulations. The text in the right hand column is for information only and not part of the OTIF regulations.

OTIF UTP

Corresponding text in EU regulations ¹

EU ref. ²

WHEELSET DIMENSIONS AND TOLERANCES FOR STANDARD GAUGE (1435 mm)

Table E.1


Designation	Wheel diameter (mm)	Minimum value (mm)	Maximum value (mm)
Distance between flange contact faces (S_R) $S_R = A_R + S_d(\text{left wheel}) + S_d(\text{right wheel})$	≥ 840	1410	1426
	< 840 and ≥ 330	1415	1426
Back to back distance (A_R)	≥ 840	1357	1363
	< 840 and ≥ 330	1359	1363
Width of the rim (B_R)	≥ 330	133	140 ⁽¹⁾
Thickness of the flange (S_d)	≥ 840	22	33
	< 840 and ≥ 330	27,5	33
Height of the flange (S_h)	≥ 760	28	36
	< 760 and ≥ 630	30	36
	< 630 and ≥ 330	32	36
Face of flange (q_R)	≥ 330	6,5	
Wheel tread defects, e.g. wheel flats, shelled treads, cracks, grooves, cavities etc	National rules apply until EN is published *		
⁽¹⁾ Burr value included			

The dimensions S_R and A_R are measured at the top surface of the rail, and shall be complied with for freight wagons in laden and tare conditions and for loose wheelsets. For specific vehicles smaller tolerances within the above limits may be specified by the vehicle supplier.

* [For wagons subject to section 7.6.4 of the UTP WAG, the wheel tread defects will be considered in the maintenance frame.](#) [2009/107/EC JJ.2. 1.5](#)

¹ TSI Freight Wagons – The Annex to the Commission Decision 2006/861/EC published in the EU Official Journal L344 on 08.12.2006 as amended by Commission Decision 2009/107/EC published in EU Official Journal L45 on 14.02.2009.

² If no EU reference is indicated, it means that the chapter/section number is the same as in the OTIF text.

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Fig. E.1

