

DIN EN 13715:2011-01 (E)

Railway applications - Wheelsets and bogies - Wheels - Tread profile (includes Amendment A1:2010)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Definition of the tread profile	5
4	Symbols and abbreviations	6
4.1	Definition of the profiles	7
5	Construction method	7
5.1	Definition of the axes	7
5.2	Base profile	7
5.3	Profile construction	7
5.3.1	Profile zone H2 - D1 (flange)	7
5.3.2	Profile connection zone D1 - C1	8
5.3.3	Profile zone D1 - C1 -D0 for flange thicknesses 28,5 mm e 32,5 mm	9
5.3.4	Zone D0 - B1 (B1a or B1b)	10
5.3.5	Reverse slope and chamfer	11
6	Geometric characteristics	11
6.1	R20,5 connecting radius	11
6.2	RE and RI 12 mm connecting radii	11
6.3	Rfa connecting radius	12
6.4	R13 connecting radius	12
6.5	Wheel tread	12
6.6	Reverse slope - Chamfer	12
7	Profile designation	12
8	Reference equipment for verification of the wheel profile	12
Annex A (normative) Flange		13
A.1	Definition of the flange	13
A.2	Flange geometry	14
Annex B (normative) 1/40th profile		15
B.1	Complete reference profile: construction with a 32,5 mm thick flange and 15 % reverse slope	15
B.2	Profile construction: specific zones	15
Annex C (normative) S1002 profile		17
C.1	Complete reference profile: construction with 32,5 mm thick flange and 6,7 % reverse slope	17
C.2	Profile construction: specific zones	17

Annex D (normative) EPS profile	21
D.1 Complete reference profile: construction with 32,5 mm thick flange and 10 % reverse slope	21
D.2 Profile construction: specific zones	21
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC	24
Bibliography	28