

DIN EN 14811:2019-06 (E)

Railway applications - Track - Special purpose rail - Grooved rails and associated construction profiles

Contents		Page
European foreword		4
Introduction		6
1	Scope	8
2	Normative references	8
3	Terms and definitions	8
4	Information to be supplied by the purchaser	9
5	Steel grades	9
6	Dimensions, static properties, linear mass and tolerances	10
7	Manufacture	10
7.1	Product integrity	10
7.1.1	Factory production control	10
7.1.2	Best practice manufacture	10
7.2	Blooms	11
7.3	Grooved rails and associated construction rail profiles	11
7.4	Marking	11
7.4.1	Rolling marks	11
7.4.2	Hot stamping	12
7.4.3	Other identification	12
7.4.4	Exceptions	12
8	Acceptance tests	13
8.1	Laboratory tests	13
8.1.1	General	13
8.1.2	Chemical composition	13
8.1.3	Hydrogen	15
8.1.4	Hardness test	15
8.1.5	Tensile test	16
8.1.6	Retests	16
8.2	Dimensional and straightness tolerances	16
8.2.1	Profile	16
8.2.2	Straightness and twist	19
8.2.3	Cutting and drilling	19
8.2.4	Gauges	20
8.3	Surface imperfections	20
8.3.1	General	20
8.3.2	Protrusions	20
8.3.3	Depressions in the web and foot	21
8.3.4	Depressions in the running surface	21
8.4	Surface microstructural damage	21
8.5	Proving and dressing of surface imperfections	21
8.6	Determination of the linear mass	22
Annex A (normative) Grooved rail profiles and associated construction rail profiles		26

Annex B (normative) Gauges	79
Annex C (informative) Holes in grooved rails	98
Annex D (informative) Electric conductivity of the rails	100
Bibliography	101