

DIN EN 13674-2:2011-01 (E)

Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above (includes Amendment A1:2010)

Contents		Page
Foreword		3
Introduction		5
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Information to be supplied by the purchaser	8
5	Steel grades	9
6	Dimensions, static properties, linear mass and tolerances	9
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	10
7.3	Rails	10
7.4	Identification	10
7.4.1	Branding	10
7.4.2	Hot stamping	11
7.4.3	Cold stamping	11
7.4.4	Other identification	11
8	Qualification of the manufacturer	12
9	Acceptance tests	12
9.1	Laboratory tests	12
9.1.1	General	12
9.1.2	Chemical composition	12
9.1.3	Microstructure	16
9.1.4	Decarburisation	17
9.1.5	Oxide cleanliness	17
9.1.6	Sulfur prints	17
9.1.7	Hardness	18
9.1.8	Tensile tests	19
9.1.9	Retest procedures	19
9.2	Dimension tolerances	19
9.2.1	Profile	19
9.2.2	Straightness, surface flatness and twist	20
9.2.3	Cutting and drilling	24
9.3	Gauges	24
9.4	Inspection for internal quality and surface quality	24
9.4.1	Internal quality	24
9.4.2	Surface quality	26

Annex A (normative) Rail profiles	38
Annex B (informative) Comparison of steel designations referred to in this standard compared to those in EN 10027-1 and EN 10027-2	107
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community (Recast)	108
Bibliography	110