

DIN EN 13674-4 :2006-08 (E)

Railway applications_ - Track_ - Rail_ - Part_4: Vignole railway rails from 27_kg/m to, but excluding 46_kg/m

Contents

page

Foreword.....	3
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Information to be supplied by the purchaser	7
5 Steel grades.....	7
6 Dimensions, static properties, linear mass and tolerances	8
7 Manufacture.....	8
7.1 Product integrity	8
7.1.1 Factory production control.....	8
7.1.2 Best practice manufacture.....	8
7.2 Blooms.....	9
7.3 Rails	9
7.4 Identification.....	9
7.4.1 Branding	9
7.4.2 Hot stamping.....	9
7.4.3 Cold stamping.....	10
7.4.4 Other identification	10
8 Qualification of the manufacturer	10
9 Acceptance tests	10
9.1 Laboratory tests.....	10
9.1.1 General.....	10
9.1.2 Chemical composition	10
9.1.3 Microstructure.....	14
9.1.4 Decarburisation.....	14
9.1.5 Hardness.....	15
9.1.6 Tensile tests	16
9.1.7 Retest procedures	16
9.2 Dimension tolerances	16
9.2.1 Profile.....	16
9.2.2 Straightness and twist	17
9.2.3 Cutting and drilling.....	17
9.3 Gauges.....	18
9.4 Inspection for internal quality and surface quality	18
9.4.1 internal quality	18
9.4.2 Surface quality	20
Annex A (normative) Rail profiles	31
Annex B (informative) Comparison of steel designations referred to in this European Standard compared to those in EN 10027-1 and EN 10027-2	61
Bibliography	62