

DIN EN 13674-4:2020-02 (E)

Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg /m to, but excluding 46 kg/m

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	10
6	Dimensions, static properties, linear mass and tolerances	11
7	Manufacture	11
7.1	Product integrity	11
7.1.1	Factory production control	11
7.1.2	Best practice manufacture	11
7.2	Blooms	11
7.3	Rails	11
7.4	Identification	11
7.4.1	Branding	11
7.4.2	Hot stamping	12
7.4.3	Cold stamping	12
7.4.4	Other identification	12
8	Qualification of the manufacturer	12
9	Acceptance tests	13
9.1	Laboratory tests	13
9.1.1	General	13
9.1.2	Chemical composition	13
9.1.3	Microstructure	17
9.1.4	Decarburization	17
9.1.5	Hardness	17
9.1.6	Tensile tests	18
9.1.7	Retest procedures	19
9.2	Dimension tolerances	19
9.2.1	Profile	19
9.2.2	Straightness and twist	20
9.2.3	Cutting and drilling	20
9.3	Gauges	20
9.4	Inspection for internal quality and surface quality	21
9.4.1	Internal quality	21
9.4.2	Surface quality	23
9.4.3	Checking of automated testing equipment	24
Annex A (normative) Rail profiles		34
DIN EN 13674-4:2020-02 EN 13674-4:2019 (E) Annex B (informative) Comparison of steel designations referred to in this European Standard compared to those in EN 10027-2		66
Bibliography		67