

DIN EN 13232-2:2023-12 (E)

Railway applications - Track - Switches and crossings for Vignole rails - Part 2: Requirements for geometric design

Contents		Page
European foreword		4
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Design process	7
4.1	General process	7
4.2	Design step details	8
4.3	Practical use of the design process	8
5	General design requirements	8
5.1	Reference points	8
5.2	General tangency rules	10
5.3	Inputs	10
6	Geometry design rules (step 1)	11
6.1	Introduction	11
6.2	Speed relationships	12
6.3	Effects of changes in curvature	13
6.3.1	Introduction	13
6.3.2	Change of lateral acceleration	13
6.3.3	Types and locations of transitions	13
6.3.4	Rules for steady changes in curvature	13
6.3.5	Rules for step changes in curvature (virtual transitions)	13
6.3.6	Rules for special cases	13
6.3.7	Switches and crossings on curves	13
6.4	Output	14
7	Main constructional design (step 2)	14
7.1	Introduction	14
7.2	Inputs	15
7.3	General requirements	15
7.4	Specific requirements	16
7.5	Structural requirements	18
7.6	Other requirements	18
7.7	Actuation, locking and detection design	18
7.8	Output - Main construction documents	18
7.8.1	General	18
7.8.2	Geometry	18
7.8.3	Guidance	19
7.8.4	Actuation	19
7.8.5	Constructional	19
7.8.6	Information lists	19
8	Detailed component design (step 3)	19
8.1	Switches	19
8.2	Crossings	19
8.3	Expansion devices	20

8.4	Other components	20
8.5	Output - Assembly documents	20
8.5.1	Main assembly documents	20
8.5.2	Optional documents	21
9	Tolerances	22
9.1	Individual tolerances	22
9.2	Accumulation of tolerances	22
9.3	Acceptance basis	22
Annex A (informative) Design process		23
Bibliography		25