

DIN EN 13232-3:2012-01 (E)

Railway applications - Track - Switches and crossings - Part 3: Requirements for wheel/rail interaction (includes Amendment A1:2011)

| Contents | | Page |
|--|--|-------------|
| age Foreword | | 3 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Presentation | 5 |
| 3.1 | General | 5 |
| 3.2 | Wheel and track dimensions | 5 |
| 3.3 | Wheel profiles | 5 |
| 3.4 | Wheelsets | 6 |
| 3.5 | Rail and track | 6 |
| 3.6 | Tolerances and wear | 7 |
| 3.7 | Contact zone | 8 |
| 3.7.1 | Contact profile | 8 |
| 3.7.2 | Contact danger zone | 8 |
| 3.7.3 | Flangeway depth | 8 |
| 4 | Guidance principles | 8 |
| 4.1 | Guard and check Rails | 9 |
| 4.2 | Wheelset guidance | 9 |
| 4.2.1 | Angle of attack | 10 |
| 4.2.2 | Flangeway | 10 |
| 4.2.3 | Gauge widening | 11 |
| 4.2.4 | Check rail and common crossing nose | 11 |
| 4.2.5 | Obtuse Crossings | 11 |
| 4.3 | Transitional guidance | 13 |
| 4.4 | Entry flares | 13 |
| 5 | Wheel load transfer | 13 |
| 5.1 | Sufficiency of bearing area | 14 |
| 5.2 | Transfer surfaces | 16 |
| 5.3 | Method of assessment | 16 |
| 6 | Insufficient wheel support or guidance | 16 |
| 6.1 | Common crossings | 16 |
| 6.2 | Obtuse crossings | 16 |
| 6.3 | Movable crossings | 16 |
| Annex ZA (informative) "Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC" | | 17 |
| Bibliography | | 20 |