DIN EN 16432-3:2022-01 (E)

Railway applications - Ballastless track systems - Part 3: Acceptance

Contents

Page

European foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Symbols and abbreviations 5

5 General 6
5.1 Overview 6
5.2 Validation of fitness for construction of a novel ballastless track system design 6
5.3 Establishing the criteria for acceptance of work 7
5.4 Integration in the assurance process/Works Acceptance Plan (WAP) 7

6 Acceptance of works 8
6.1 Track geometry and position 8
6.2 Track stiffness 9
6.3 Track stability 10
6.4 Durability 10
6.5 Drainage 11

7 Acceptance of substructure and subsystems 11
7.1 General 11
7.2 Acceptance of substructures 11
7.3 Acceptance of pavements 13
7.4 Acceptance of intermediate layer 17
7.5 Acceptance of prefabricated element (sleeper, block, slab, frame) 18
7.6 Acceptance of fastening systems 18
7.7 Acceptance of rails 18
7.8 Specific measures for switches and crossings and rail expansion devices 19

8 Acceptance of system specific installation methods 19
8.1 Ballastless track system with continuously supported or embedded rails 19
8.2 Ballastless track system with discrete rail seats on prefabricated element, supported by a pavement 20
8.3 Ballastless track system with discrete rail seats on prefabricated element, independent from the surrounding concrete filling layer or pavement 21
8.4 Ballastless track system with discrete rail seats on prefabricated element, monolithically integrated in a pavement 22
8.5 Ballastless track system with discrete rail seats on a concrete pavement 22

Annex A (informative) Risk assessment of novelty in a proposed ballastless track system design ... 24

Annex B (informative) Material acceptance tests for intermediate layers 25

Bibliography 26