DIN EN 13230-2:2016-11 (E)

Railway applications - Track - Concrete sleepers and bearers - Part 2: Prestressed monoblock sleepers

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms, definitions and symbols 5
3.1 Terms and definitions 5
3.2 Symbols 6

4 Product testing 7
4.1 General 7
4.2 Test arrangements 7
4.2.1 Rail seat section 7
4.2.2 Centre section 8
4.3 Test procedures 9
4.3.1 Test loads 9
4.3.2 Static test 10
4.3.3 Dynamic test 14
4.3.4 Fatigue test 16
4.4 Acceptance criteria 17
4.4.1 General 17
4.4.2 Static test 17
4.4.3 Dynamic test 18
4.4.4 Fatigue test 18
4.5 Design approval tests 18
4.5.1 General 18
4.5.2 Bending moments evaluation 18
4.5.3 Concrete 19
4.5.4 Product inspection 19
4.5.5 Fastening system 19
4.6 Routine tests 19
4.6.1 General 19
4.6.2 Static rail seat positive load test 19
4.6.3 Concrete 19

5 Manufacturing rules 19

Annex A (normative) Detailed drawings of the test arrangements 20

A.1 Articulated support 20
A.2 Resilient pad 21
A.3 Tapered packing 22

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC 23

Bibliography 25