DIN EN 15461:2008-10 (E)

Railway applications - Noise emission - Characterisation of the dynamic properties of track sections for pass by noise measurements

Contents

Page

Foreword 3

Introduction 4

1 Scope 4

2 Normative references 4

3 Terms and definitions 5

4 Symbols and abbreviations 6

5 Principles 7

6 Data acquisition 7
6.1 Selection of the test section 7
6.2 Position of the accelerometers 7
6.3 Assembly of the accelerometers 8
6.4 Excitation force 9
6.5 Acquisition system 9
6.6 Acquisition of the FRF 9
6.7 Set of measuring positions 9
6.8 Measurement data to be produced 12

7 Data processing 12

8 Acceptance criteria 13

9 Test report 13
9.1 General 13
9.2 Presentation of the track decay rates 13

Annex A (informative) Calculation of the decay rates 14

A.1 General 14
A.2 Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directives 96/48/EC and 2001/16 modified by Directive 2004/50/EC ... 16

Bibliography 18

Calculation of the decay rates 14