DIN EN 15955-2:2013-09 (E)

Railway applications - Track - Demountable machines and associated equipment - Part 2: General safety requirements

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 7

3 Terms and definitions 11

4 List of significant hazards 11

5 General safety requirements and/or measures 12
5.1 General 12
5.2 Access and egress to and from working places 12
5.3 Ergonomics 13
5.4 Requirements for cabs 14
5.5 Seats 18
5.6 Standing places 18
5.7 Edges and corners 18
5.8 Pipes and hoses 18
5.9 Communications between work positions 18
5.10 Prevention of derailment 19
5.11 Stability and measures preventing overturning 19
5.12 Emergency stopping devices 23
5.13 Moving parts and materials 24
5.14 Operator's controls and indicators 24
5.15 Thermal hazards 27
5.16 Electrical system 27
5.17 Machine safety requirements related to electromagnetic compatibility 30
5.18 Emission of gas and particles 30
5.19 Pressurised systems 30
5.20 Fuel tanks and hydraulic tanks 31
5.21 Noise reduction 31
5.22 Vibration 32
5.23 Protection from the risks of fire 32
5.24 Braking systems 33
5.25 Lighting 35
5.26 Warning systems 35
5.27 Maintenance 36
5.28 Safe handling 36

6 Additional safety requirements or measures for specific machine functions 36
6.1 Conveyors 36
6.2 Cranes and lifting devices fixed on the machine 37
6.3 Transport of loads by machines used for lifting 37
6.4 Elevating work platforms 37

7 Verification of the conformity to the requirements and/or particular safety measures 38
7.1 General 38
7.2 Methods of examination 38

8 Information for use 38
8.1 General 38
8.2 Instruction handbook 39
8.3 Warning signs and written warnings 44
8.4 Marking 44

Annex A (normative) List of significant hazards 46

Annex B (normative) Check list for conformity 49

Annex C (normative) Noise test code (grade of accuracy 2) 54

C.1 Scope 54
C.2 Terms and definitions 54
C.3 Determination of the emission sound pressure level at the work station or other specified positions 54
C.4 Sound power level determination 54
C.5 Installation and mounting conditions 55
C.6 Operating conditions 55
C.7 Measurement uncertainties 56
C.8 Information to be recorded 57
C.9 Information to be reported 57
C.10 Declaration and verification of noise emission values 57

Annex D (informative) Structure of European standards for track construction and maintenance machines 60

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 62

Bibliography 63