DIN EN 1846-2:2025-03 (E)

Firefighting and rescue service vehicles - Part 2: Common requirements - Safety and performance

Contents

Page

European foreword 4

Introduction 7

1 Scope 8

2 Normative references 9

3 Terms and definitions 10

4 Requirements 17
4.1 Safety requirements and/or protective/risk reduction measures -- Verifications 17
4.1.1 General requirements 17
4.1.2 Body 22
4.1.3 Electrical equipment 32
4.1.4 Operating and control instruments - Control system 33
4.1.5 Noise 35
4.1.6 Mechanical coupling 35
4.1.7 Breakdown and towing 35
4.2 Performance requirements - Verification 36
4.2.1 General performance requirements 36
4.2.2 Body 41
4.2.3 Electrical equipment 43
4.2.4 Operating and control instruments 44
4.2.5 Corrosion resistance 45
4.2.6 Heat resistance of vulnerable organs 45

5 Information for use 46
5.1 General 46
5.2 Instruction handbook 46
5.3 Documents 48
5.4 Marking 48
5.4.1 General 48
5.4.2 Other markings 49

Annex A (normative) General conditions for the verification procedures 50

Annex B (informative) Example of an exhaust coupling 51

Annex C (informative) Different methods of determining levels of slip-resistance 52

Annex D (informative) Removal heights from equipment lockers 53

Annex E (informative) Examples of technical measures for the reduction of noise emission at the design stage 54

Annex F (normative) Noise test code 55

F.1 General 55
F.2 A-weighted emission sound pressure level at operator positions 55

F.3 A-weighted emission sound pressure level on a path around the vehicle as a substitute to sound power ... 56
F.4 Installation and mounting conditions ... 56
F.5 Operating conditions ... 56
F.6 Measurement uncertainties ... 57
F.7 Information to be recorded and reported ... 57
F.8 Declaration and verification of noise emission values ... 57

Annex G (informative) Acceptance test on delivery ... 59

Annex H (informative) Conformity assessment ... 60

Annex I (normative) Tests for ROPS of the cabin ... 61

I.1 General ... 61
I.2 Test procedure ... 61
I.3 Content of the test report ... 63

Annex J (informative) Example of a ROPS design ... 64

J.1 Term and definitions ... 64
J.2 Protective structure ... 67

Annex K (informative) List of significant hazards ... 71

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered ... 75

Bibliography ... 77