DIN EN 1646-1:2026-03 (E)

Leisure accommodation vehicles - Motor caravans - Part 1: Habitation requirements relating to health and safety

Contents

Page

European foreword 4

Introduction 6

1 Scope 7

2 Normative references 7

3 Terms and definitions 7

4 Testing 7

5 Design and construction 8
5.1 Occupancy 8
5.2 Entrance steps to living area 8
5.2.1 Heights 8
5.2.2 Minimum tread dimensions 8
5.2.3 Mechanical strength 8
5.2.4 Slip resistance and stability test of entrance step 8
5.3 Doors 9
5.3.1 Dimensions 9
5.3.2 Securing doors 9
5.3.3 Childproof locking systems 9
5.3.4 Dead-locking systems 9
5.4 Awning rails 9

6 Internal equipment 9
6.1 Bunks 9
6.1.1 Mattress and/or upholstery 9
6.1.2 Clearance 9
6.1.3 Clearance of drop-down bunks 10
6.1.4 Protection against falling out 10
6.1.5 Mechanical strength 11
6.1.6 Security of bunks 11
6.1.7 Access to high level bunks 11
6.1.8 Protection against entrapment 11
6.2 Cupboards 12
6.3 Cooking appliance 12

7 Drinking water supply, storage and disposal of waste water 12
7.1 Couplings for drinking water supply 12
7.2 Drinking water 12
7.2.1 Tanks 12
7.2.2 Materials 12
7.2.3 Marking 12
7.3 Waste water disposal tank 12
7.4 Toilet waste disposal 12
7.4.1 Discharge systems 12
7.4.2 Outlets and couplings from toilet holding tanks 13

8 Appliances 13

8.1 Installation of appliances 13
8.2 Restriction concerning supply of appliances 13

9 Heating 13

10 Installations 14
10.1 Electricity 14
10.1.1 Low voltage 14
10.1.2 Extra low voltage (DC) 14
10.2 Liquefied petroleum gas (LPG) 14

11 Ventilation 14
11.1 General 14
11.2 Adjustment of ventilators 14
11.3 Location of ventilation openings 14

12 Fire precautions 14
12.1 Means of escape 14
12.1.1 Emergency exits 14
12.1.2 Escape path 14
12.1.3 Sanitation compartments 15
12.1.4 Emergency doors 15
12.1.5 Interior doors 15
12.1.6 Emergency windows and emergency panels 15
12.1.7 Work surfaces 17
12.1.8 Heating and cooking equipment 18
12.2 Protection of combustible elements 18
12.2.1 Rigid or guided elements 18
12.2.2 Non-guided elements 18
12.3 Hotplates 19

13 Warning notice 19
13.1 Provision of warning notice 19
13.2 Content of warning notice 19

14 User's handbook 20

Annex A (normative) Strength of steps (see 5.2.3) 22

Annex B (normative) Slip resistance test (see 5.2.4) 24

Annex C (normative) Separate entrance step stability test (see 5.2.4.2) 26

Annex D (normative) Clear height over bunks (see 6.1.2) 28

Annex E (normative) Strength of protection against falling out of bunks (see 6.1.3) 29

Annex F (normative) Mechanical strength of bunks (see 6.1.5) 30

Annex G (normative) Security of folding bunks (see 6.1.6) 31

Annex H (normative) Safety of access to high level bunks (see 6.1.7) 32

Annex I (normative) Measurement of gaps (see 6.1.7) 34

Annex J (normative) Heating (see Clause 9) 36

Annex K (normative) Test equipment 38

Annex L (informative) Environmental aspects 41

Bibliography 42