DIN EN 1508:2025-12 (E)

Water supply - Requirements for systems and components for the storage of water

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Abbreviated terms 9

5 General requirements 9
5.1 General 9
5.1.1 General 9
5.1.2 Functions 9
5.1.3 Decision criteria and system configuration 9
5.2 Functional requirements 10
5.2.1 Functional requirements – water quality 10
5.2.2 Functional requirements – operation 12

6 Design requirements 15
6.1 Design general – volume, elevation 15
6.1.1 Type of service reservoirs 15
6.1.2 Operational water level 15
6.1.3 Capacity and exchange of water 16
6.1.4 Physical shape of water compartments 17
6.1.5 Materials 17
6.1.6 Piping within service reservoirs 17
6.1.7 Safe working conditions for operation and maintenance 17
6.2 Watertightness 17
6.3 Structural design 18
6.3.1 General 18
6.3.2 Limit states 18
6.4 Further provisions 19
6.4.1 Stress analysis 19
6.4.2 Stress analysis – construction 19
6.4.3 Stress analysis – water towers 19
6.4.4 Crack width 20
6.4.5 Drainage 20
6.4.6 External roofs 20

7 General requirements for products 20

8 Commissioning, tests and checks 20
8.1 General considerations 20
8.1.1 General 20
8.1.2 Hygiene 20
8.1.3 Safety of personnel 21
8.1.4 Principles 21
8.1.5 Roofs 21
8.1.6 Walls and floors 22

8.2 Cleaning and disinfection 23
8.2.1 General 23
8.2.2 Cleaning 23
8.2.3 Disinfection 23
8.2.4 Water quality clearance 23
8.2.5 Records 24
8.3 Commissioning 24
8.3.1 General 24
8.3.2 Water quality 24
8.3.3 Operations 24

9 Operational requirements 24
9.1 Introduction 24
9.1.1 General 24
9.1.2 Monitoring 24
9.1.3 Inspection 24
9.1.4 External inspection 25
9.1.5 Operating manual 25
9.2 Maintenance 25
9.3 Cleaning and disinfection 25

10 Rehabilitation and repair requirements 25
10.1 Introduction 25
10.2 Survey 25
10.3 Prevention of contamination 26
10.4 Return to service 26

Annex A (informative) Guidance to EN 1508 27

Bibliography 41