DIN EN 12845-2:2025-02 (E)

Fixed firefighting systems - Automatic sprinkler systems - Part 2: Design and installation of ESFR and CMSA sprinkler systems

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms, definitions, symbols and abbreviated terms 5
3.1 Terms and definitions 5
3.2 Symbols and abbreviated terms 6

4 General 6

5 Installation requirements 7
5.1 Sprinkler type, spacing, clearance and nominal operating temperature 7
5.2 Construction and building limitations 12
5.3 Obstruction to discharge pattern of sprinklers 21
5.4 Additional requirements for protection of HHS5, with 12 sprinkler design 32

6 Design considerations 33
6.1 General 33
6.2 Protection of non-storage occupancies with ESFR and CMSA 33
6.3 Sprinkler protection for adjacent areas using a different protection concept 34
6.4 Water supply duration and shape of design 34
6.5 Protection of unheated areas with ESFR installations 35
6.6 Design with ESFR 35
6.7 Design with CMSA 48

Annex A (normative) Extract for determining the hazard classification from prEN 12845-1 59