# 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