# DIN EN 1991-1-3:2010-12 (E)

**Eurocode 1: Actions on structures – Part 1-3: General actions – Snow loads (includes Corrigendum AC:2009) English translation of DIN EN 1991-1-3:2010-12**

---

**CONTENTS** Page


**Foreword to EN 1991-1-3:2003 + AC:2009** **4**

**1. Section 1 General** **8**

**1.1.** Scope **8**

**1.2.** Normative references **9**

**1.3.** Assumptions **9**

**1.4.** Distinction between Principles and Application Rules **9**

**1.5.** Design assisted by testing **9**

**1.6.** Terms and Definitions **10**

**1.7.** Symbols **11**

**2. Section 2 Classification of actions** **13**

**3. Section 3 Design situations** **14**

**3.1. General** **14**

**3.2. Normal conditions** **14**

**3.3. Exceptional conditions** **14**

**4. Section 4 Snow load on the ground** **16**

**4.1. Characteristic values** **16**

**4.2. Other representative values** **16**

**4.3. Treatment of exceptional snow loads on the ground** **17**

**5. Section 5 Snow load on roofs** **17**

**5.1. Nature of the load** **17**

**5.2. Load arrangements** **18**

**5.3. Roof shape coefficients** **20**

**5.3.1.** General 20

**5.3.2.** Monopitch roofs 21

**5.3.3.** Pitched roofs 22

**5.3.4.** Multi-span roofs 23

**5.3.5.** Cylindrical roofs 24

**5.3.6.** Roof abutting and close to taller construction works 25

**6. Section 6 Local effects** **28**

**6.1. General** **28**

**6.2. Drifting at projections and obstructions** **28**

**6.3. Snow overhanging the edge of a roof** **29**

**6.4. Snow loads on snowguards and other obstacles** **30**

**ANNEX A** 31

**Design situations and load arrangements to be used for different locations** 31

**ANNEX B** 33

**Snow load shape coefficients for exceptional snow drifts** 33

**ANNEX C** 38

**European Ground Snow Load Maps** 38

**ANNEX D** 53

**Adjustment of the ground snow load according to return period** 53

**ANNEX E** 55

**Bulk weight density of snow** 55

**Bibliography** 56