DIN EN 13001-2:2007-11 (E)

Cranes - General design - Part 2: Load actions (includes Corrigendum 1:2006 and Amendment A1:2006)

Contents

Page

Foreword 3

Introduction 4

1 Scope 4

2 Normative references 4

3 Terms, definitions, symbols and abbreviations 5
3.1 Terms and definitions 5
3.2 Symbols and abbreviations 5

4 Safety requirements and/or measures 9
4.1 General 9
4.2 Loads 9
4.2.1 General 9
4.2.2 Regular loads 10
4.2.3 Occasional loads 16
4.2.4 Exceptional loads 21
4.2.5 Loads on means provided for access 27
4.3 Load combinations 27
4.3.1 General 27
4.3.2 High risk applications 27
4.3.3 Mass distribution classes MDC1 and MDC2 28
4.3.4 Partial safety factors for the mass of the crane 28
4.3.5 Partial safety factors to be applied to loads caused by displacements 29
4.3.6 Survey of load combinations 29
4.3.7 Partial safety factors for the proof of rigid body stability 33

Annex A (normative) Aerodynamic coefficients 36

A.1 General 36
A.2 Individual members 39
A.3 Plane and spatial lattice structure members 43
A.4 Structural members in multiple arrangement 46

Annex B (informative) Selection of a suitable set of crane standards for a given application 48

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC 49

Bibliography 50