

ISO 22762-3 :2005-07 (E)

Elastomeric seismic-protection isolators_ - Part_3: Applications for buildings_ - Specifications

Contents

Page

Foreword.....	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
4 Symbols and abbreviated terms	4
5 Classification.....	8
5.1 General.....	8
5.2 Classification by construction	8
5.3 Classification by ultimate properties.....	10
5.4 Classification by tolerance on shear properties	10
6 Requirements	11
6.1 General.....	11
6.2 Type tests and routine tests	12
6.3 Functional requirements	12
6.4 Design compressive force and design shear displacement	13
6.5 Performance requirements	13
6.6 Rubber material requirements.....	19
6.7 Dimensional requirements.....	20
6.8 Requirements on steel used for flanges and reinforcing plates	21
7 Design rules	22
7.1 General.....	22
7.2 Shape factor	22
7.3 Compression and shear properties	23
7.4 Ultimate properties	24
7.5 Reinforcing steel plates	26
7.6 Connections	27
8 Manufacturing tolerances	27
8.1 General.....	27
8.2 Measuring instruments	27
8.3 Plan dimensions	27
8.4 Product height.....	28
8.5 Flatness	29
8.6 Horizontal offset.....	30
8.7 Plan dimensions of flanges	31
8.8 Flange thickness.....	31
8.9 Tolerances on positions of flange bolt holes	32
9 Marking and labelling	32
9.1 General.....	32
9.2 Information to be provided	32
9.3 Additional requirements	33
9.4 Marking and labelling examples.....	33
10 Test methods.....	33
11 Quality assurance	33

Annex A (normative) **Tensile stress in reinforcing steel plate** 34

Annex B (informative) **Confirmation list**..... 36

Annex C (informative) **Determination of ultimate property diagram based on experimental results** 38

Annex D (informative) **Minimum recommended physical properties of rubber material**..... 41

Annex E (informative) **Effect of inner-hole diameter and second shape factor on shear properties** 43

Annex F (informative) **Determination of compressive properties of elastomeric isolators**..... 46

Annex G (informative) **Determination of shear properties of elastomeric isolators**..... 49

Annex H (informative) **Method of predicting buckling limit at large deformations**..... 54

Annex I (informative) **Design of fixing bolts and flanges** 60

Bibliography 63