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**Elastomeric seismic protection  
isolators for buildings—  
Part 3: High-durability and  
high-performance specifications,  
and test methods**

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## Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

**JIS K 6410** series consists of the following 3 parts under the general title “*Generic seismic-protection isolators for buildings*”:

*Part 1: Specifications*

*Part 2: Test methods*

*Part 3: High-durability and high-performance specifications and test methods*

# Elastomeric seismic-protection isolators for buildings—Part 3: High-durability and high-performance specifications, and test methods

## Introduction

**JIS K 6410-1** specifies the minimum requirements for elastomeric seismic-protection isolators for protecting buildings from an earthquake. This Japanese Industrial Standard is established to specify the high-durability and high-performance requirements and test methods of elastomeric seismic-protection isolators to respond to the diverse and highly advanced technical background. The number of performance items, handling of reliability on performance values and the like are added to overcome issues such as the long-period ground motion, considering their usage in the seismic-isolated buildings subjected to the cyclic external forces.

No corresponding International Standard has been established at this point.

## 1 Scope

This Standard specifies the requirements and test methods of high-durability and high performance elastomeric seismic-protection isolators used for the seismic-isolated structure of buildings subjected to the long period ground motion and/or the wind load.

**WARNING** Persons carrying out tests of elastomeric isolators and rubber materials based on this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7721 *Tension/compression testing machines—Calibration and verification of the force-measuring system*

JIS G 3151 *Hot-rolled mild steel plates, sheet and strip*

JIS G 3141 *Cold-reduced carbon steel sheet and strip*

JIS K 6410-1 *Elastomeric seismic-protection isolators for buildings—Part 1: Specifications*

JIS K 6410-2 *Elastomeric seismic-protection isolators for buildings—Part 2: Test methods*

JIS Z 8401 *Guide to the rounding of numbers*