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Timber structures — Joints made with mechanical fasteners — Quasi-static reversed-cyclic test method

*Structures en bois — Joints réalisés avec des connecteurs
mécaniques — Méthode d'essai cyclique réversible quasi statique*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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Introduction

Evaluation of the structural performance of joints under reversed-cyclic loading has become a requirement in seismic design. The objective of this International Standard is to provide a cyclic test procedure as a basis for the development of characteristics of joints for use in seismic design. The cyclic displacement schedule was developed in consultation with a group of international experts with the intention that the cyclic displacement schedule shall produce

- a) data that sufficiently describes the elastic and inelastic properties of the joint, and
- b) representative demands imposed on joints by earthquakes.

Supplementary information is given in Annex A to provide the rationale behind the cyclic displacement schedule, recommendations for cases for which a modified schedule would be more appropriate, and typical test results obtained on a joint by following this cyclic displacement schedule.