1. Record Nr. UNINA9910824049903321 Autore Porteous Jack Titolo Structural timber design to Eurocode 5 / / Jack Porteous and Abdy Kermani Chichester [England], : John Wiley & Sons Inc., 2013 Pubbl/distr/stampa **ISBN** 1-118-59728-1 1-118-59729-X Edizione [2nd ed.] Descrizione fisica 1 online resource (640 p.) Altri autori (Persone) KermaniAbdy Disciplina 694.02/184 Soggetti Building, Wooden - Standards - Europe Structural frames - Design and construction - Standards - Europe Timber - Standards Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Structural Timber Design to Eurocode 5; Copyright; Contents; Preface to the Second Edition; 1 Timber as a Structural Material; 1.1 Introduction; 1.2 The structure of timber; 1.3 Types of timber; 1.3.1 Softwoods; 1.3.2 Hardwoods; 1.4 Natural characteristics of timber; 1.4.1 Knots; 1.4.2 Slope of grain; 1.4.3 Reaction wood; 1.4.4 Juvenile wood; 1.4.5 Density and annual ring widths; 1.4.6 Conversion of timber; 1.4.7 Seasoning; 1.4.8 Seasoning defects; 1.4.9 Cracks and fissures; 1.4.10 Fungal decay; 1.5 Strength grading of timber; 1.5.1 Visual grading; 1.5.2 Machine grading 1.5.3 Strength classes 1.6 Section sizes; 1.7 Engineered wood products (EWPs); 1.7.1 Glued-laminated timber (glulam); 1.7.2 Cross-laminated timber (CLT or X-Lam); 1.7.3 Plywood; 1.7.4 Laminated Veneer Lumber (LVL); 1.7.5 Laminated Strand Lumber (LSL), TimberStrand®; 1.7.6 Parallel Strand Lumber (PSL), Parallam®; 1.7.7 Oriented Strand Board (OSB); 1.7.8 Particleboards and fibre composites; 1.7.9 Thin webbed joists (I-joists); 1.7.10 Thin webbed beams (box beams); 1.7.11

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Structural Timber Design to Eurocode 5 provides practising engineers and specialist contractors with comprehensive, detailed information and in-depth guidance on the design of timber structures based on the common rules and rules for buildings in Eurocode 5 - Part 1-1. It will also be of interest to undergraduate and postgraduate students of civil and structural engineering. It provides a step-by-step approach to the design of all of the commonly used timber elements and connections using solid timber, glued laminated timber or wood based structural products, and incorporates t