

An Introduction to VERSA-LAM® Products



When you specify VERSA-LAM® laminated veneer headers/beams, you are building quality into your design. They are excellent as floor and roof framing supports or as headers for doors, windows and garage doors and columns.

Because they have no camber, VERSA-LAM® LVL products provide flatter, quieter floors, and consequently, the builder can expect happier customers with significantly fewer call backs.

VERSA-LAM® Beam Architectural Specifications

Scope: This work includes the complete furnishing and installation of all VERSA-LAM® beams as shown on the drawings, herein specified and necessary to complete the work.

Materials: Southern Pine or Douglas fir veneers, laminated in a press with all grain parallel with the length of the member. Glues used in lamination are phenol formaldehyde and isocyanate exterior-type adhesives which comply with ASTM D2559.

Design: VERSA-LAM® beams shall be sized and detailed to fit the dimensions and loads indicated on the plans. All designs shall be in accordance with allowable values developed in accordance with ASTM D5456 and listed in the governing

code evaluation service's report and section properties based upon standard engineering principles. Verification of design of the VERSA-LAM® beams by complete calculations shall be available upon request.

Drawings: Additional drawings showing layout and detail necessary for determining tilt and placement in the buildings are (are not) to be provided by the supplier.

Fabrication: VERSA-LAM® beams shall be manufactured in a plant evaluated for fabrication by the governing code evaluation service and under the supervision of a third-party inspection agency listed by the corresponding evaluation service.

Storage and Installation: VERSA-LAM® beams, if stored prior to erection, shall be stored on stickers spaced a maximum of 15 ft. apart. Beams shall be stored on a dry, level surface and protected from the weather. They shall be handled with care so they are not damaged.

VERSALAM® beams are to be installed in accordance with the plans and Boise EWP's Installation Guide. Temporary construction loads which cause stresses beyond design limits are not permitted. Erection bracing shall be provided to assure adequate lateral support for the individual beams and the entire system until the sheathing material has been applied.

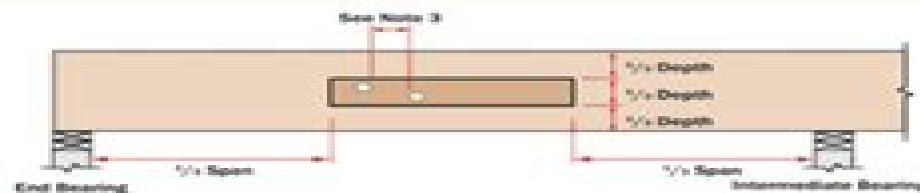
Codes: VERSA-LAM® beams shall be evaluated by a model code evaluation service.

Allowable Holes in VERSA-LAM® Beams

Notes:

1. Square and rectangular holes are not permitted.
2. Round holes may be drilled or cut with a hole saw anywhere within the shaded area of the beam.
3. The horizontal distance between adjacent holes must be at least two times the size of the larger hole.
4. Do not drill more than three access holes in any four foot long section of beam.
5. The maximum round hole diameter permitted is:

| Beam Depth | Max. Hole Diameter |
|--------------------|--------------------|
| 5 1/2" | 1 1/2" |
| 7 1/2" | 1" |
| 9 1/2" and greater | 2" |



6. These limitations apply to holes drilled for plumbing or wiring access only. The size and location of holes drilled for fasteners are governed by the provisions of the National Design Specification® for Wood Construction.
7. Beams deflect under load. Size holes to provide clearance where required.
8. This hole chart is valid for beams supporting uniform load only. For beams supporting concentrated loads or for beams with larger holes, contact Boise EWP Engineering.

Lvl Beam Design Guide

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Architectural Record ,1995 **Building for the Future: Durable, Sustainable, Resilient** Alper Ilki,Derya Çavunt,Yavuz Selim Çavunt,2023-05-31 This book presents the proceedings of the fib Symposium Building for the future Durable Sustainable Resilient held in Istanbul Turkey on 5 7 June 2023 The book covers topics such as concrete and innovative materials structural performance and design construction methods and management and outstanding structures fib The International Federation for Structural Concrete is a not for profit association whose mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical economic aesthetic and environmental performance of concrete construction Proceedings of the Canadian Society for Civil Engineering Annual Conference 2023, Volume 13 Serge Desjardins,Gérard J. Poitras,Ashraf El Damatty,Ahmed Elshaer,2024-09-02 This book comprises the proceedings of the Annual Conference of the Canadian Society for Civil Engineering 2023 The contents of this volume focus on the specialty track in structural engineering with topics on bridge design FRP concrete structures innovation in structural engineering seismic analysis and design wind load on structures masonry structures structural optimization machine learning and AI in structural engineering and wood and timber structures among others This volume will prove a valuable resource for researchers and professionals Builder's Guide to New Materials and Techniques Paul Bianchina,1997 A McGraw Hill builder s guide Spine **The Structural Engineer** ,2000 Fundamental Building Materials K. Ward-Harvey,2009 Written by an architect with many years experience in practice and teaching this book is a well illustrated introduction to the great range of materials used in much of the world s building and construction It is the only book of its type on the market and suitable for anyone teaching or studying for building trades architecture building landscape design structural engineering and allied disciplines When first published a reviewer commented This book has filled a large gap in publications available to both students and the building professions The Fourth 2009 Edition is now available incorporating many references to current standard codes research manufacturers and other authoritative information on the internet to expand content further if needed **Wood Reference Handbook** Canadian Wood Council,1991 **Designers' Guide to Eurocode 5: Design of Timber Buildings** Jack Porteous,Alexander Porteous,Peter Ross,Haig Gulvanessian,2013-04-26 Interprets and assists in the use of EN 1995 1 1 structural timber This guide shows typical material properties and dimensions modifiers and structural responses It also explains relationships with other Eurocodes particularly those for EN 1990 Basis of Design **Materials and Joints in Timber Structures** Simon Aicher,H.-W. Reinhardt,Harald Garrecht,2013-09-25 This book contains the contributions from the RILEM International Symposium on Materials and Joints in Timber Structures that was held in Stuttgart Germany from October 8 to 10 2013 It covers recent developments in the materials and the joints used in modern timber structures Regarding basic wooden materials the contributions highlight the widened spectrum of products comprising cross laminated timber glulam and LVL

from hardwoods and block glued elements Timber concrete compounds cement bonded wood composites and innovative light weight constructions represent increasingly employed alternatives for floors bridges and facades With regard to jointing technologies considerable advances in both mechanical connections and glued joints are presented Self tapping screws have created unprecedented options for reliable strong as well as ductile joints and reinforcement technologies Regarding adhesives which constitute the basis of the jointing laminating technology of modern timber products extended options for tailor made bonding solutions have to be stated Apart from melamine urea and phenolic resorcinol adhesives one component polyurethanes emulsion isocyanate polymers and epoxies offer a wide range of possibilities The contributions dealing with experimental and numerical investigations on static cyclic and seismic behavior of structures clearly reveal the enhanced potential of modern timber construction for reliable and sustainable buildings and bridges of the new millennium The book is structured in nine thematic areas being I Structures II Mechanical Connections III Glued Joints and Adhesives IV Timber and Concrete Cement Polymer Composites V Cyclic Seismic Behavior VI Hardwood Modified Wood and Bamboo VII Cross Laminated Timber VIII Properties and Testing of Wood IX Glulam **User Friendly Guide to Timber Bridges** ,199?

Experimental Vibration Analysis for Civil Engineering Structures Maria Pina Limongelli,Pier Francesco Giordano,Said Quqa,Carmelo Gentile,Alfredo Cigada,2023-08-01 This volume presents peer reviewed contributions from the 10th International Conference on Experimental Vibration Analysis for Civil Engineering Structures EVACES held in Milan Italy on August 30 September 1 2023 The event brought together engineers scientists researchers and practitioners providing a forum for discussing and disseminating the latest developments and achievements in all major aspects of dynamic testing for civil engineering structures including instrumentation sources of excitation data analysis system identification monitoring and condition assessment in situ and laboratory experiments codes and standards and vibration mitigation The topics included but were not limited to damage identification and structural health monitoring testing sensing and modeling vibration isolation and control system and model identification coupled dynamical systems including human structure vehicle structure and soil structure interaction and application of advanced techniques involving the Internet of Things robot UAV big data and artificial intelligence *Carpentry Level 1 Trainee Guide 2001 Revision, Perfect Bound* Mick

Anderson,2001-06-14 **Sweet's General Building & Renovation** ,1999 **Advanced Fibre-Reinforced Polymer (FRP) Composites for Structural Applications** Jiping Bai,2022-12-05 Advanced Fibre reinforced Polymer FRP Composites for Structural Applications Second Edition provides updates on new research that has been carried out on the use of FRP composites for structural applications These include the further development of advanced FRP composites materials that achieve lighter and stronger FRP composites how to enhance FRP integrated behavior through matrix modification along with information on pretension treatments and intelligence technology The development of new technology such as automated manufacturing and processing of fiber reinforced polymer FRP composites have played a significant role in

optimizing fabrication processing and matrix formation In this new edition all chapters have been brought fully up to date to take on the key aspects mentioned above The book's chapters cover all areas relevant to advanced FRP composites from the material itself its manufacturing properties testing and applications in structural and civil engineering Applications span from civil engineering to buildings and the energy industry Covers all areas relevant to advanced FRP composites from the material itself its manufacturing properties testing and applications in structural engineering Features new manufacturing techniques such as automated fiber placement and 3D printing of composites Includes various applications such as prestressed FRP FRP made of short fibers continuous structural health monitoring using advanced optical fiber Bragg grating FBG durability of FRP strengthened structures and the application of carbon nano tubes or platelets for enhancing durability of FRP bonded structures

Modern Timber Bridges of West Virginia Barry Dickson,1995 **Building**

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