

Continuing Education Library

Videos

AIBD-California Society

Send order and payment to AIBD-CA society, 1731 Howe Ave. #101, Sacramento, CA 95825. Call Cathy Murnighan, CA executive director, if more information is needed, at (916) 944-4935 or email at info@aibdca.org (sorry credit cards not accepted).

- Energy Efficient Building Design, #97-003, \$20. **(3 CE hrs)**
- Modern Hydronic Heating, #97-004, \$25. **(4 CE hrs)**
- Design & Engineering Steel Frame Construction, #94-901b, \$20. **(3 CE hrs)**
- Techniques to Expanding your Design Business, #93-701, \$20. **(4 CE hrs)**
- Designing a Wine Cellar, #00-601, \$30. **(4 CE hrs)**

Peters Building Videos

Home Study Programs

- **Basic Roof Framing:** Clearly demonstrates the complete, actual construction of each of the following roof designs: hip, gable, gambrel and shed roofs. You will also understand how to build valleys and fake valleys. Learn the details on hip jacks and valley jacks plus much, much more. **(2 CE hrs)** \$85.90 including shipping.
- **Advanced Roof Framing:** Visualize the complete, actual construction of the more complex roof designs: octagons, complex hips and complex gable roofs. Master hip-to-valley extensions, hip-to-valley jacks and irregular angled rafters plus much, much more. **(2.5 CE hrs)** \$85.90 including shipping.
- **Super Advanced Roof Framing:** The super advanced video clearly explains the techniques for complex roof designs on multiple plate heights. Like the previous videos, Steve carefully takes the time to explain clearly and demonstrate each step of the actual construction process. **(3.5 CE hrs)**

All three videos may be purchased for \$288.90 including shipping. Call 1-888-887-3902 or order on line at www.roofbuilding.com.

Written Correspondence Courses

American Institute of Building Design

Home Study Programs

- **Copyright Basics exam:** a precise manual by David E. Bennett, JD, on US Copyright law, with forms and instructions. \$20.00. **Order** from the AIBD national office 1-800-366-AIBD or aibdnat@aol.com. The self-study exam based on this manual is free to AIBD members who order the manual. **(3 CE hrs)**
- **AIBD Leadership Manual exam:** based on the black 3-ring welcome binder (which explains the goal, policies and procedures of the association) is a self-study test. Call the AIBD national office to receive this exam.

FREE to each member **(there may be a charge for a replacement binder)**. **(3 CE hrs)**

CertainTeed

CertainTeed product knowledge/installation courses. For example:

- CertainTeed Vinyl Siding Master Craftsman Workbook & test; CertainTeed Vinyl Siding Carpentry Installation Guide. **(5 CE hrs)**
- Wolverine Master Craftsman Workbook and test; Wolverine Fit'n Finish Installation Guide. **(6 CE hrs)**
- WeatherBoards Master Craftsman Workbook and test; WeatherBoards Installation Guide. **(2 CE hrs)**
- Boardwalk Master Craftsman Workbook and test; Boardwalk Composite Decking & Railing Installation Guide. **(1 CE hr)**
- Insulation Course Graduate (only this one part needed to earn CE credit). **(4 CE hrs)**
- Roofing Quality Master and Master Shingle Applicator. **(Both courses must be taken for a total of 10 CE hrs)**

FREE or minimal fee. Call 1-800-233-8990 to order these two-part (1, product knowledge; 2, installation) brochures/tests.

Goodwin Heart Pine

Wood Floor Finishes and Maintenance. PowerPoint/MSWord course material will be mailed to you along with an 8-question "open book" quiz. Return quiz only to: ATTN: Carol Goodwin, Goodwin Heart Pine, 106 SW 109 Pl, Micanopy FL 32667. A completion certificate will be mailed back to you, which you can submit to the AIBD national office for CE credit. Call 1-800-336-3118 or email goodwin@heartpine.com to receive this CE material. FREE to AIBD members. **(2 CE hrs)**

Simpson Strong-Tie

Designing for a continuous load path multiple-choice test. A ten-question, one-page test based on the "Developing a Continuous Lateral Load Path for Wood Construction" article by Evon Ballash, PE. Order article and test from the AIBD national office 1-800-366-AIBD. FREE to AIBD members only. **(1 CE hr)**

Seminars, Lectures, Plant Tours and Conferences

Air Vent, Inc. (a Gibraltar company)

Offered throughout the United States. FREE; buffet included! **(2 CE hrs)**

Air Vent's "Attic Ventilation: Ask the Expert"TM is a two-hour technical seminar that reviews the principles of attic ventilation, gives installation tips, calculates how much ventilation is needed and answers frequently asked questions. A question and answer session with an Air Vent engineer is then included; also sample case studies showing "before" and "after" photography. Seminars are offered nationwide each winter. Visit www.airvent.com for the 2006 schedule, email ventilation@gibraltar1.com or call 1-800-AIR-VENT.

American Forest & Paper Association/American Wood Council (AWC)

Seminars, workshops, lectures offered at major US centers nationwide. Locations determined by request. AWC is the wood products division of the American Forest & Paper Association, a non-profit organization composed of a broad industry representation of the US forestry, wood and wood fiber sector of the national economy. AWC has been an AIA and IACET-accredited education provider for many years, offering partial-day to two-day seminars. AF&PA is also a major sponsor and educational program delivered at Wood Solutions Fairs. Some seminar/workshop examples:

- Wood Design Seminar. **[7 CE hrs]**
- Wood Frame Construction in the IBC with Comparisons to the UBC. **[3 CE hrs]**
- Design of Wood Frame Buildings Workshop. **[7 or 14 CE hrs]**
- Wood Construction and the International Codes. **[7 hrs]**

More seminar details can be found here [<http://www.awc.org/HelpOutreach/seminars/sem-otln.html>] and coming seminar event information is updated frequently here [link: <http://www.awc.org/HelpOutreach/seminars/awrd-sem.html>].

For program costs, more information contact Robert J. Taylor at 1-202-463-2766 or awc_education@afandpa.org.

APAwood.org

Offered throughout North America numerous times per year. **One-day seminar**, "Build your knowledge-design solutions with engineered wood." Minimal program cost with lunch included. Call Kim Sivertsen at 1-253-620-7429 for time and place schedules. **7 CE hours.** Fill out seminar certificate of completion after taking this seminar.

Azek Trimboard

Offered throughout the United States and Canada upon request. FREE. Have your firm or AIBD society schedule a breakfast seminar or lunch & learn hour! **"Cellular PVC and the Changing Face of Trim Products"** is an in-depth study of cellular PVC, how it is manufactured, the different types of cellular PVC and the uses for each. A screen and electrical power are required. The Azek facilitator will provide a laptop and LCD projector to run the PowerPoint presentation. Contact Ms. Robin Baker at 1-877-ASK-AZEK (275-2935) or robin.baker@azek.com to schedule this seminar. **(1 CE hr)**

CertainTeed

Offered throughout the United States upon request. FREE. Five-ten attendees, minimum, needed to schedule a seminar.

- Principles of Attic Design (1 CE hr)
- Up on the Roof: asphalt shingles (1 CE hr)
- Vinyl Siding: the basics and beyond (1 CE hr)
- Designing an Effective Attic Ventilation System (1 CE hr)
- Fundamentals of Clay Roof Tile (1 CE hr)
- A Systematic View of the Exterior Wall (1 CE hr)
- Basics of HVAC Ductwork Design (1 CE hr)
- Growth and Design Potential of Fiber Cement (1 CE hr)
- Innovations in Decking and Railing Systems (1 CE hr)
- Bituminous Membrane Roof Systems and BURs (1 CE hr)
- Windows: a new way of looking at things (1 CE hr)

Presented by CertainTeed representatives. Call 1-800-233-8990 to schedule.

Dino Eliadis, Inc.

Business of Design™ courses. Accelerating Profits with Innovative Solutions. Program outline includes:

- Strategic Planning (4 hours)
- Developing Your Service Brand Position (1 hour)
- Locating New Opportunities While Managing Existing Business (1 hour)
- Increasing Quality Delivery Through Pre-Planning (1 hour)
- How to Improve Your Price & Profitability (1 hour)
- How to Improve Small Project Management (1 hour)
- How to Profit from Strategic Partnerships (1 hour)
- Understanding Financial Management (1 hour)
- Creating Your Tactical Marketing Plan (2 hours)
- Managing Your Marketing Messages (1 hour)
- How to Create Sales Predictability (1 hour)
- Learn How to Shorten the Collection Cycle (1 hour)
- Finding and Keeping Quality Employees (1 hour)
- Managing Your Technology Resources (1 hour)
- Beef up Your Networking Skills (1 hour)

For pricing and more information please contact info@dinoeliadis.com or go to www.dinoeliadis.com. Executive Coaching also available.

Energy & Environmental Building Association

Workshop sessions held in multiple locations throughout the US

Annual conference held with various lectures and workshops offered.

For more information/registration see website at www.eeba.org [1CE hr per hour spent at educational event]

- Three solid days of education and ideas. (Traditional EEBA Conference format)
- National and regional experts presenting over 70 educational sessions
- Over 80+ exhibitors
- EEBA Applied - Hands-on educational demonstration stage

Goodwin Heart Pine

Offered throughout Florida, and for groups of 30 or more in the rest of the USA. FREE. (2 CE hrs per seminar)

- **Presentation for building professionals.** Shows how to evaluate variations in grades and know what to anticipate when specifying antique woods. Learn to compare the characteristics of antique woods with more available standing timber. Analyze manufacturing variations to insure that specs simplify installation.
- **Wood Floor Finishes and Maintenance.** Aligning client expectations with performance. This seminar educates designers in the variety of finish systems and guides designers on the selection, terminology and description of how each class of wood floor finish works. Group discussion is encouraged.

Contact Carol Goodwin at 1-352-466-0339 or go online to www.heartpine.com

Graphisoft

One-day live support seminar offered, FREE, throughout the United States and Canada when purchase of ArchiCAD software (\$3,950) is made. Learn how to work in the virtual building environment and use both 2-D and 3-D tools to efficiently produce construction drawings. All training will be virtual building model specific. Training information is preset and is not to be altered in any way. Although ArchiCAD will be the product that is used, no product specific information will be given. Contact Patty Mello, Graphisoft U.S., Inc. at 1-800-344-3468, extension 233 or pmello@graphisoft.com (8 CE hrs)

ALSO: see, under the Interactive Correspondence Courses Online heading: for a free one-hour introduction to ArchiCAD and the virtual building process contact Josh Bone, licensed Graphisoft trainer, at 1-770-424-2613 or josh@designintegrations.com.

HB & G

Offered in Troy, Alabama. FREE. (2 CE hrs)

Manufacturing plant tour. Contact Dudley Powell at 1-407-897-0827.

ALSO:

Offered throughout the United States and Canada. FREE. (2 CE hrs each seminar)

- Installation of Columns.
- Design Possibilities.
- Uplift Solutions.
- Synthetic and wood column manufacturing processes.

To schedule seminars contact Dudley Powell at 1-407-897-0827 or dudleypow@aol.com

Hanley Wood Exhibitions

Offered in four different cities each year. [each hour of course time = 1 CE hr]

The Journal of Light Construction (JLC), a Hanley-Wood publication, presents the **JLC LIVE Residential Construction Show**: puts you in direct contact with solutions, education and critical resources you and your crew need to get the job done right. Hands-On Job-Site expo (FREE: entirely new experience in interactive training, without costly callbacks and other job-site "gotchas") and conference (FEE BASED: you get a CE attendance certificate). For details, visit www.jlclive.com or call 1-800-261-7769.

Surfaces is held annually in Las Vegas, Nevada and is the floor covering industry's main event bringing together the largest gatherings of buyers and sellers in the marketplace. Presently, Surfaces Conference program offers over 41 seminars and workshops, plus seven live demonstrations. Courses are offered in the following tracks: Business, Design, Installation, Marketing and Sales. For additional information visit www.surfacesexpo.com or call (800) 547-3477 or (972) 536-6400.

Hughes & Associates

Offered nationwide FREE (1 CE)

Lectures, Seminars and "Luncheon Brown Bags" on exterior products, siding, shakes, composite trim, windows, PVC fence, deck and rail, stucco. To schedule contact Yancey Hughes at (901) 751-0943 or yhughes@hughesspec.com. For more information go to www.hughesspec.com.

Icynene, Inc.

Offered throughout the United States and Canada. FREE. Breakfast meeting for smaller groups! (1 CE hr)

The system approach to thermal performance: prevention of condensation and mold in buildings. This slide/PowerPoint presentation highlights the developments in building science with an emphasis on use of insulation and its relationship to the durability and air quality problems that many buildings seem to be experiencing. Contact Sue Poremski at 1-800-758-7325 or sporemski@icynene.com.

The Institute of Classical Architecture

Lectures, Seminars, Workshops, Architectural Tours, Slide/PowerPoint presentations.

Go to www.classicist.org for costs, dates, places. [each hour of course time = 1 CE hr]

Ingersoll Rand Security Technologies

Lectures and Slideshow/PowerPoint presentations offered at nationally throughout the United States. Courses offered count for 1 CE.

Course Information

- Automatic Doors
- ADA Entrance Accessibility
- Specifying Electrified Hardware
- Intro to Biometrics
- Specifying Electrified Hardware (1.5 CE's)
- The Complete Door Opening
- Improved Hazard Mitigation
- Safe Schools Perimeter Security
- Healthcare Hardware – Problems and Solutions

Contact Information:

Cheri Flanagan
CE Curriculum Development Manager
6810 Hillsdale Court
Indianapolis, IN 46250
317-715-4459
Cheri_flanagan@irco.com

Marvin Windows and Doors/Integrity Windows and Doors

Various Seminars, Workshops, Architectural/Facility tours, Slide/PowerPoint presentations

- AAMA 2605-02 [1 CE hr]
- Architectural Design Software [1 CE hr]
- Changing Codes Impacting Your Life? [1 CE hr]
- Controlling Sound Transmission [1 CE hr]
- Designing with Light [1 CE hr]
- Glazing: Options&Styles [1 CE hr]
- Integrated Performance Standards [1 CE hr]
- Understanding Energy-Efficient Windows&Doors [1 CE hr]
- Architectural Tour [8 CE hrs]
- Cardinal Tour [2 CE hrs]

For additional information contact Ryan Jasienski at (651) 686-2433 or ryanj@marvin.com. You can also visit www.marvin.com or www.integritywindows.com to obtain further details.

PGT Industries – PGT University

Slideshow/PowerPoint presentations offered at the PGT plant in Nokim, FL and other locations off-site from New York to Florida.

Course Information

- Wind-Borne Debris Protection – 2 CE's
- International Residential Code – Window, Door and Opening Protection – 2 CE's
- Making an Impact with Wind-Borne Debris – 1 CE

Contact Information:

Kim Simes
PGT University Manager
1070 Technology Drive
Nokim, FL 34725
800-282-6019, ext. 22338
ksimes@pgtindustries.com

Sealoflex

The objective of this course is to provide information on the use of coatings in roofing and waterproofing and energy savings using reflectivity of coatings. A demonstration of various product applications will follow the classroom lecture portion. A total of **6.5 CE hours** is available from taking this course. For more information contact Janet W. Fincannon, at 843-554-6466 or jfincannon@sealoflex.com. www.sealoflex.com.

Simpson Strong-Tie

Full-day workshops (includes lunch) at each of the six training centers and at public facilities across the United States. FREE. (7 CE hrs) **OR, take a course or two on an individual hour-by-hour basis.**

- Design Professionals Workshop (1 CE hr)
- Strong-Tie Anchor Systems (1 CE hr)
- High Wind Design (1 CE hr)
- High Wind Design - Level 2 (1 CE hr)
- Contractors, Builders and Developers (1 CE hr)

For the latest information on course dates and locations call 1-800-999-5099 or go online at www.strongtie.com

SoftPlan

Offered throughout the United States and Canada. (6 CE hrs each course)

SoftPlan Introductory, Intermediate and SoftList classes: training programs consisting of various levels of instruction tailored to the individual user's background and experience with SoftPlan. Qualified instructors will travel to various cities around the country to offer 1-day training. For the latest information on course dates, costs and locations call 1-800-248-0164 or online at www.softplan.com

Southern Pine Council

Offered nationwide, but generally concentrated in the southern states. FREE [1 CE hr per seminar]

Programs taught by a staff comprised of trained professionals in the wood industry, including an architect and civil engineer. The Southern Pine Council is a non-profit trade association, representing members who are manufacturers of Southern Pine lumber products. The seminars do not promote a particular company product or service. Some program titles:

- * Southern Pine Lumber Basics.
- * Design-Specify-Build.
- * Raised Floor Foundations.
- * Mold and Moisture.
- * New Treatments for Durable Wood Construction.
- * Protecting Structural Wood Framing.
- * Pressure Treated Southern Pine CCA Transition.
- * Permanent Wood Foundations-Design and Construction.
- * Guidelines for Residential Framing with Wood.
- * Lifetime Framing-Designing for Permanence.

Contact Melissa A. Miranda, 504-443-4464 ext. 226 or email her at mmiranda@sfpac.org for more information.

USP Structural Connectors (a United Steel Products company)

Offered nationwide. FREE. Can be brought into a firm, AIBD society meeting or public facility.

- Course 1: structural lumber connector designs & specification. (1 CE hr)
- Course 2: structural lumber connector design & specification. (3.5 CE hrs)
- Course 3: Introduction to Seismic Design of Low-Rise Wood Frame Structures and the Seismic Provisions of the International Codes (1 CE hr)

For information on seminar and slide/PowerPoint presentation dates and locations call Paula Novak at 1-800-328-5934 ext. 238 or go online to www.uspconnectors.com

Interactive Correspondence Courses Online:

NOTE: AIBD members have no membership numbers. If any CE provider web site asks for a membership number just type in "11111".

American Forest & Paper Association/American Wood Council (AWC)

AWC's eCourses [link: <http://www.awc.org/HelpOutreach/eCourses/index.html>] are free to explore and learn and range in information about the latest in wood design standards to varied subjects on wood building design, such as: fire, connections, structural behavior, shear walls and diaphragms. Many courses do, however, require a basic understanding of engineering principles that can be found in textbooks in many public libraries. To start an available course, click on a highlighted course number (the course numbering does not imply prerequisites). Or, click on the books under the course number for a free downloadable scripted PDF file with color images for the respective course. Continuing

Education Unit (CEU) or Professional Development Hour (PDH) course credit will be awarded on successful completion of a short quiz on course material. When the quiz feature is available, you will need to register and pay for the quiz. AWC is an AIA, AIBD, and IACET -accredited education provider. For program costs, more information contact Robert J. Taylor at 1-202-463-2766 or awc_education@afandpa.org. Submit verification of passed course to the AIBD national office with the AIBD CE form.

AEC Daily Corporation (Cyberstaff America Ltd)

AEC Daily's Online Learning Center (www.aecdaily.com/olc) offers downloadable courses twenty-four hours a day, seven days a week. Learners are required to read the material and take/pass a test after each course. A certificate can be printed by the user after the course is passed.

Courses are 1-1.5 CE hours and are also approved and registered by the AIA/CES. These self-directed courses are offered free of charge through a professional courtesy provided by the sponsors. For more information, including a full course listing, go online to <http://www.aecdaily.com/olc> or contact:

Ivan Martinovic
(877) 566-1199, ext. 87
www.aecdaily.com

CertainTeed, Building Solutions

FREE courses (as below and more!). Go to www.certainteed.com/continuinged. No AIBD CE form to send to national office! CertainTeed submits list of members who have passed these courses right to national!

- The Attic: A course designed to aid in the integration of components for moisture and thermal control that influence attic performance. **(1.5 CE hrs)**
- New Dimensions in Asphalt Shingles: A course on the key aspects of shingle design and the related components of roof systems. **(1.5 CE hrs)**
- Design With Siding: A course to assist design professionals in discerning the appropriate use of vinyl siding and accessories on the continuum of exterior cladding options. **(1.5 CE hrs)**
- Principles of Attic Ventilation: A course that provides an in-depth examination of the year-round benefits of attic ventilation with emphasis on design and specifications issues. **(1.5 CE hrs)**
- Clay Roof Tile: An Ancient and Enduring Building Material: A course to provide professionals with an in-depth examination of clay roof tiles. **(1.5 CE hrs)**

CertainTeed product knowledge/installation courses. For example:

- CertainTeed Vinyl Siding Master Craftsman Workbook & test; CertainTeed Vinyl Siding Carpentry Installation Guide. **(5 CE hrs)**
- Wolverine Master Craftsman Workbook and test; Wolverine Fit'n Finish Installation Guide. **(6 CE hrs)**
- WeatherBoards Master Craftsman Workbook and test; WeatherBoards Installation Guide. **(2 CE hrs)**
- Boardwalk Master Craftsman Workbook and test; Boardwalk Composite Decking & Railing Installation Guide. **(1 CE hr)**
- Insulation Course Graduate (only this one part needed to earn CE credit). **(4 CE hrs)**
- Roofing Quality Master and Master Shingle Applicator. **(Both courses must be taken for a total of 10 CE hrs)**

FREE or minimal fee. Go to www.certainteed.com or call 1-800-233-8990 to take these two-part (1, product knowledge; 2, installation) tests.

Graphisoft

FREE one-hour (live presentation over the telephone and the web) introduction to ArchiCAD and the virtual building process. Contact Josh Bone, licensed Graphisoft trainer, at 1-770-424-2613 or josh@designintegrations.com.

Ron Blank and Associates, Inc.

FREE courses (over 25 as of 12/31/03). **[1 CE hour per course unless noted otherwise.]** The professional is required to read the course material and take/pass a final exam after each course. The exam is graded automatically. Once the exam is passed each person must print their certificate for their records AND provide a copy, with a completed AIBD CE form, to the AIBD national office for posting of CE hours. All courses offered comply with the guidelines of the AIA/CES program. The only branding occurs on the first and last slide of the course, which is allowed by the AIA. Submit verification of passed course to the AIBD national office with the AIBD CE form.

Go to www.ronblank.com and click on the continuing education icon. A sample of courses:

- AWP06D. Fire Rated Wood - Interior and Exterior;
- NYS05A. Aluminum Expansion Joint Covers;
- DAV03A. Integrally Colored Concrete;
- BIG03A. Pre-Molded - Bell Footing Form System;
- MOR04A. Assuring Water Resistance of Masonry Construction;
- ULT05A. Pedestrian Cable Railings (guardrails with cable in-fill);
- TOT15C. The Greening of the Water Closet;
- SET10B. Wayfinding Through Signage.

Whirlpool Corporation

FREE course. Go to www.aecdaily.com and click on "online learning center." Scroll down until you see the course title: "The Greening of White Goods: Environmental Considerations for Specifying Appliances" or "Principles of Universal Design in Housing and Home" and follow instructions. You must register and obtain a password.

This course will also be held on the Whirlpool web site, www.insideadvantage.com. Submit verification of passed course to the AIBD national office with the AIBD CE form. **[1 CE hour each course]**

WoodUniversity.Org (a service of APA)

FREE courses, but you must register and obtain a password. Go to <http://WoodUniversity.org> and register. No AIBD CE form to send to AIBD national office. Wood University submits list of members who have passed these courses right to national.

- **Understanding Engineered Wood Products:** introduces the engineered wood product family: categories, characteristics and quality standards. **(1 CE hr)**
- **Selling Engineered Wood:** explains engineered wood product features, as they relate to system applications. **(1 CE hr)**
- **Structural Wood Panel Grades and Applications:** explains the information shown in the APA trademark and how it relates to floor, wall, and roof construction. Also explains APA Performance Rated Panels, span ratings, exposure durability, grades and specialty panel definitions. **(1 CE hr)**
- **Glulam Basics:** primer on glued laminated timber, one of the oldest engineered wood products. Explains specification and application of APA EWS Trademarked Glulam. **(1 CE hr)**
- **Understanding I-Joists:** primer on the composition, specification and application of APA Performance Rated I-Joists. **(1 CE hr)**
- **Introduction to Wall Bracing:** covers prescriptive wall bracing requirements according to the International Residential Code. **(1 CE hr)**

Interactive Correspondence Courses On CD ROM:

American Forest & Paper Association/American Wood Council (AWC)

American Wood Council online eCourses in addition to other AWC publications are available free on CD-Rom that is distributed only at live contact AWC seminar events, or at Wood Solutions Fairs nationwide. Click here [\[http://www.awc.org/HelpOutreach/seminars/awrd-sem.html\]](http://www.awc.org/HelpOutreach/seminars/awrd-sem.html) to find current seminar offerings or Wood Solutions Fairs near you. For more information, contact Robert J. Taylor at 1-202-463-2766 or awc_education@afandpa.org.

Goodwin Heart Pine

FREE. **CD Rom automated course includes wood cross-match quiz and case study and final exam.** Presentation for building professionals shows how to evaluate variations in grades and know what to anticipate when specifying antique woods. Learn to compare the characteristics of antique woods with more available standing timber. Analyze manufacturing variations to insure that specs simplify installation. Contact Carol Goodwin at 352-466-0339 or go online at www.heartpine.com **(2 CE hrs)**