Protection of Floors with Partial Sprinkler Systems

Does the International Residential Code (IRC) permit a partial sprinkler system to protect the underside of lightweight floors in lieu of a ceiling membrane? Partial sprinkler systems complying with IRC P2904 are permitted in dwellings which are not already required to have a full residential sprinkler system (Section P2904.1). Since both the 2012 and 2015 editions of the IRC permit sprinkler protection of the underfloor space as an alternative to the membrane protection required by Section R501.3 (Section R302.13 in the 2015 edition), a partial sprinkler system complying with P2904 could fulfill this requirement. AWC has published information on the proper installation of partial sprinkler systems, which can be found here: http://awc.org/pdf/codes-standards/publications/archives/AWC-SprinklerGuide-1404.pdf.

Wanted: Code Official Feedback

WoodPost, now in its 6th year of publication, is a bi-weekly email intended to provide code officials with concise information to help them perform their duties. Over the years, WoodPost has covered a wide range of code issues such as fire resistance, deck design, collar ties, shear walls, and energy provisions. Is there a topic you would like to see addressed? Please send your idea to codeconnections@awc.org.

Upcoming Educational Events
Throughout the world there are great examples of historic wood structures that have withstood the test of time and exposure to various climates. One of the challenges that code officials and designers face for modifying existing wood structures is determining what design properties to use. This webinar will address methods used to establish recommended allowable design properties for structural wood members in existing buildings. Examples from several interesting projects will be presented including buildings under renovation and waterfront structures such as piers.

Learning Objectives

On completion of this course, participants will:

1. Understand methods used to identify wood species used as structural members in existing buildings.
2. Understand methods used to visually grade structural wood members in existing buildings.
3. Understand methods used to establish allowable design properties for visually graded lumber in existing buildings.
4. Understand methods used for condition assessment of in-service wood including quasi-nondestructive evaluation methods and equipment.

Education Credits will be available.

Complimentary Registration
Cross-laminated timber (CLT) has been in use worldwide for over 15 years, but most notably in Europe. Building with CLT has increased in popularity for many reasons including: just-in-time fabrication and job site delivery, speed and efficiency in construction, reduced job site noise and on-site labor force, substitution of high embodied materials with a renewable resource that sequesters carbon, and creating a living or work space that has the aesthetics of exposed wood.

Now, with the recent introduction of CLT in the 2015 National Design Specification® for Wood Construction (NDS®) and the 2015 International Building Code, it has opened up an exciting new chapter in wood construction. The use of CLT alone or in combination with other mass timber elements, such as glued laminated timber (GLT), nail laminated timber (NLT), or structural composite lumber (SCL), is becoming more common in buildings complying with the current code. There is also an effort underway by the International Code Council (ICC) to recognize the use of mass timber elements in taller, combustible construction through the work of the ICC Tall Wood Ad Hoc Committee. This presentation will provide an introduction to CLT including relevant design standards and code references. Examples of various mass timber buildings around the world will be provided and potential future code provisions relating to mass timber will also be discussed.

Learning Objectives

On completion of this course, participants will:

1. Define cross-laminated timber
2. Be aware of code and standard updates relevant to CLT and other mass timber elements
3. Be aware of notable mass timber structures around the globe
4. Learn about current tall wood building projects and resources

Education Credits will be available.

Complimentary Registration
Date: March 28-30, 2017

The International Mass Timber Conference is a leading conference and expo on the use of cross-laminated (CLT) and other mass timber in global construction and is one of the largest gatherings of CLT and mass timber experts in the world.

Registration

AWC is pleased to offer eCourses. Simply watch a video, take a quiz, and earn your certificate.

Recent additions include:

- **NEW!** DES413-3 Calculating ASD Shear Wall Capacities per 2015 SDPWS Using the Equal Deflection Approach
- **NEW!** DES220 2015 NDS Example Problems for Beams, Columns, & Beam-Columns
- DES600-A Historical, Current, and Future Tall Wood Buildings
- GB700-A Building Materials Matter

Click on any of the links above to take a course, or visit the eCourses webpage to see other available courses. Simply scroll to the desired course and click on the eCourse icon.

In order to register, you will need to create an account or login to an existing account.

AWC is approved as a Preferred Provider through ICC’s education Preferred Provider Program (PPP). 50% of the CEUs required for certification renewal must be earned from training by ICC or an ICC Preferred Provider.

If you are interested in learning more about free educational opportunities that AWC can provide for your organization, visit our website or email us: education@awc.org

Social Media
Follow us @woodcouncil on Twitter. Search for the group American Wood Council on LinkedIn and request to join.

@woodcouncil, Jan 14
Timber building to show off resilience of #masstimber panels with an expected lifespan of close to 200 years. http://bit.ly/2hRBtOy

@woodcouncil, Jan 17
There are many reasons why a builder might choose #masstimber over other materials. Including poor soil conditions. http://bit.ly/2hQHtVi

@woodcouncil, Jan 24
@STRUCTUREmag: Wood industry design standards lay the groundwork for resilience: http://bit.ly/2iph9Ut

@woodcouncil, Jan 25
Check out our Span Calculator to determine the max span of wood joists & rafters: http://bit.ly/1f6XS5 #architecture #construction

@woodcouncil, Jan 30
AWC provides monthly #webinars on topics such as #masstimber, #decksafety, #firesafety, #greenbuilding & more! http://bit.ly/1uHooEu

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**New Code Official Connections**

Welcome to AWC's newest code officials!

- Craig Bybee, Viola, KS
- Bill Carr, Cazenovia, NY
- Brad Claussen, Manhattan, KS
- Lloyd Clements, Andover, KS
- Jake Farrell, Blue Springs, MO
- Tony Fischione, Depew, NY
- James Haehnel, Sanford, FL
- David Holland, Orchard Park, NY
- Andrew Kulp, Philadelphia, PA
- Tobias Lucerno, Bernalillo County, NM
- Lawrence Medina, Bend, OR
- Kimberly Moody, Carroll County, VA
- Gregory Schott, Harford County, MD
- Angeline Sickler, Monterey County, CA
- Bill Williams, Chaves County, NM
- David Yount, Lower Allen Township, PA
- David Zafuto, Buffalo, NY

Code Official Connections is a free program offered to qualified building and
fire officials. Feel free to pass this newsletter along to colleagues and encourage them to sign up here to receive WoodPost along with other benefits. WoodPost is an electronic newsletter from the American Wood Council (AWC), written specifically for US building and fire code officials. WoodPost is published biweekly and contains timely news stories of interest to code officials. AWC develops numerous standards, publications, and design aids for use in building design and construction.

WoodPost
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AWC
The American Wood Council (AWC) is the voice of North American wood products manufacturing, representing over 75 percent of an industry that provides approximately 400,000 men and women in the United States with family-wage jobs. AWC members make products that are essential to everyday life from a renewable resource that absorbs and sequesters carbon. Staff experts develop state-of-the-art engineering data, technology, and standards for wood products to assure their safe and efficient design, as well as provide information on wood design, green building, and environmental regulations.

Core Values
On behalf of the industry it represents, AWC is committed to ensuring a resilient, safe, and sustainable built environment. To achieve these objectives, AWC contributes to the development of sound public policies, codes, and regulations which allow for the appropriate and responsible manufacture and use of wood products. We support the utilization of wood products by developing and disseminating consensus standards, comprehensive technical guidelines, and tools for wood design and construction, as well as providing education regarding their application.

Contact
We welcome and appreciate all comments and questions regarding WoodPost. Please contact codeconnections@awc.org.

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