AIA Continuing Education Provider

The American Institute of Architects Continuing Education System

AIA/CES Registered Provider Program Summary Handout

Provider: Huber Engineered Woods LLC, Provider Number K094

Program: **HEW 306 Magnesium Oxide (MgO) Floor Panels in Multifamily Buildings:** A streamlined approach to achieve acoustics and fire-resistance.
Length: 1-hour
Credits: 1-LU/HSW Credit

Description: All multifamily buildings must meet code requirements for fire-resistance between dwelling units and meet requirements for acoustical performance.

This course looks more closely at designing and constructing with MgO panels. We begin with a description of the material and its properties, and its code compliance characteristics related to fire resistance. The sound attenuation capabilities are also reviewed. Its installation, particularly compared to wet-laid gypsum underlayment, is presented. MgO panels are an option for the design of multifamily projects around the country.

Learning Objectives: After completion of this course, participants will be equipped to:

1. Identify the physical characteristics of magnesium oxide (MgO) panels in terms of their make-up and basic performance for use in floor assemblies in multifamily projects.

2. Investigate the fire-resistance capabilities and testing standards that demonstrate the ability for MgO panels to provide fire safety in buildings.

3. Assess the acoustical capabilities of MgO panels in terms of meeting or exceeding code requirements for multifamily buildings on certain tested assemblies in dwelling separations.

4. Compare and contrast the use of MgO structural panels with other floor underlayment options, particularly wet-laid gypsum, in order to specify MgO panel appropriately in multifamily floor assemblies.

Delivery Method: Instructor-led, either in-person or via video call.

Target Audience: Designers, specifiers, and builders of wood-framed construction with basic construction knowledge recommended.

Facilitator Qualifications: All HEW presenters are trained in AIA/CES guidelines.

Cost: This program is offered at no charge.

For more information about Huber Engineered Woods' AIA Continuing Education Program, please contact Kristin Ratnofsky at kristin.ratnofsky@huber.com.

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Prerequisite Knowledge: Participants should have a basic understanding of Type III and Type V construction, including acoustical and fire-resistance requirements. Prior experience in specifying acoustical and fire-rated assemblies is beneficial.

HSW Justification: Effective sound management is essential for occupant comfort in residential spaces, while fire resistance is critical for safety in high-density housing such as apartments and multifamily buildings. This CEU explores the use of MgO in building systems that address both sound control and fire protection requirements.

Category: Project Planning & Design

Subcategory: Building Systems, Materials & Assemblies

Keywords: Multi-family, Magnesium Oxide (MgO), Type III Construction, Type V Construction, Sound Attenuation, Acoustics, Fire Resistance, Fire-Rated Assemblies, UL, Underwriters Laboratories