

The Masonry Society

Sustainability E-News

Designing for Resilience

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From The Editor

Resilience is defined in many ways. Kim Cowman's article, included in this edition of *Sustainability E-News*, frames resilience in terms of 4 R's: robustness, resourcefulness, rapid recovery, and redundancy. She also discusses both natural and human-caused disasters and tools available to help plan for them. Overall, the article is an excellent review of the many facets of resilience and designing for it.

For an overview of how resilience relates to building codes, I hope you will join me for a [webinar on May 12, 2022](#). Attendees will learn more about what base building codes do and do not provide in terms of resilience and tools and recommendations for designing more resilient buildings.

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NOTE: Inclusion in this newsletter is not an endorsement of the products and materials featured, nor have these products been evaluated by TMS or the editor. Furthermore, the views expressed in the articles featured are those of the article authors.

GREEN BUILDING NEWS

Being thoughtful in how buildings are designed and constructed can yield multiple benefits from more resilient buildings to reducing construction waste. Read more in the links that follow. ~Tina

How to design for worst-case scenarios

BUILDING DESIGN + CONSTRUCTION

Four R's define what makes for resiliency in buildings -- robustness, resourcefulness, rapid recovery, and redundancy. [In this article](#), Kim Cowman, national director of engineering at Leo A Daly, explores how these can be achieved against site-specific threats posed by natural and human-caused disasters using prevention-conscious and high-performance design and by minimizing grid dependency.

Builder manages to cut over 90% of waste material

FAST COMPANY

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Concrete Masonry Association of California & Nevada ***

A close watch kept on construction materials at two New York City sites helped CNY Group save more than 90% of materials from going to waste. The company also kept a close eye on material purchases on one end of the process while at the other end employed waste haulers qualified to ensure that recyclable materials went to recycling facilities. [Read more.](#)

Thrive Home Builders' Gene Myers reflects on Colorado's Marshall Fire

ENTREPRENEUR.COM

In a recent [article for Entrepreneur](#), Thrive Home Builders' CEO Gene Myers reflects on the recent Marshall Fire, one of the most destructive fires in Colorado's history. During the fire, local builders in the area watched anxiously to see what would become of their customers and houses. But after the fire, Myers was left asking himself "how much of our resilience was due to luck and how much was due to our building practices, which are centered on ensuring the health and safety of occupants?" As natural disasters continue to intensify, builders must prioritize resiliency, climate adaptation, and green building in all new-home construction.

CODES and STANDARDS NEWS

The FORTIFIED standard contains provisions for designing and detailing for high wind hazards. It is good news to see it expand to multifamily buildings. ~Tina

Multifamily buildings now covered by FORTIFIED standard

BUILDING DESIGN + CONSTRUCTION

The Insurance Institute for Business and Home Safety is expanding its FORTIFIED resiliency standard to cover multifamily housing. The standard offers methods that go beyond current building codes to help homes withstand severe weather. Read more [here](#).

GREEN PRODUCT NEWS

The federal government is moving toward limits on carbon footprint of building materials they procure, modeled on the California Buy Clean provisions. ~Tina

US task force to seek lower-emission building materials

THE HILL

The Biden administration plans to establish a Buy Clean Task Force to promote the use of greener construction materials by the federal government. The task force will span a number of agencies and focus on sourcing lower carbon dioxide versions of materials such as steel and concrete and bringing down life cycle emissions of buildings in the Federal inventory. Read the [full story](#).

Analysis: US joins the PLC movement

GLOBAL CEMENT

Europe has been using portland limestone cement since the 1960s, and the US is starting to catch up as the American subsidiaries of Argos and LafargeHolcim continue their transitions to PLC production, David Perilli [writes](#). The transition dovetails with the Portland Cement Association's efforts to support the growth of PLC in the US, including the publication of a dedicated website and a new environmental product declaration.

Read a related article about Argos' efforts [here](#).



International Masonry Institute***



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Portland Cement Association **



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Spec Mix **

EPD complete for alternative SCM

CONCRETE PRODUCTS

Juno C33, an advanced alternative supplementary cementitious/fine aggregate material developed by Surface Tech, now has a complete Environmental Product Declaration. Surface Tech says the product can be easily integrated into plant operations and can help producers save money. [Read more.](#)

Bronze Level



ACME Brick ***



Cast Stone Institute ***



Nelson Testing Laboratories **



North Carolina Masonry Contractors Association *



Northwest Concrete Masonry Association *



Pennsylvania Concrete Masonry Association ***



EDUCATIONAL NEWS

Register Now for The Masonry Society Spring

Meetings

MASONRYSOCIETY.ORG

Registration is now open for the TMS Spring Meetings to be held at the Sheraton DFW Airport Hotel in Dallas, TX, **April 7-9**. Join us for TMS business and committee meetings (including TMS 402/602 meetings) and networking with other masonry professionals at TMS social events. For more information, [click here](#).

Achieving Resilience - How Masonry Supports Resilient Designs

THE MASONRY SOCIETY

Learn from Christine "Tina" A. Subasic, P.E., LEED A.P. about resilient design and how masonry can be used to enhance the resilience of buildings. During this **May 12 webinar**, Subasic will review the use of 'above-code' standards to strengthen buildings, and the role of masonry construction in meeting resilient design goals. For more information [visit the TMS website](#).

Masonry Educators' Workshop to be Held Virtually

THE MASONRY SOCIETY

Mark your calendars! The Masonry Society is planning a Virtual [Masonry Educators' Workshop](#) (MEW) for June 21-23. The workshop is targeted towards professors and educators teaching undergraduate and graduate design and construction management classes on masonry and seeks to assist them on teaching future designers and construction professionals.

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Masonry Institute of Washington*

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