

The Masonry Society

Sustainability E-News

Decreasing Carbon Footprints

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SPONSORED EDITION

From The Editor

The terms 'carbon footprint' or 'zero carbon' or any of the related terms can have many meanings depending on what is being discussed. In the building industry measuring carbon refers to emissions associated with energy use either during manufacture of a product or during operation of the building. This edition includes several articles on the topics of carbon accounting and energy codes for buildings, all with the aim of improving on current practices. Do you have an idea of how to improve status quo? The JBC Masonry Innovation Competition is looking for ideas on how to create more resilient communities with masonry. Check out the article below for more information.

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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

There are so many tools out there right now to assess carbon footprint of buildings and products. The blog from BUILDING ENCLOSURE ONLINE provides a summary of many of them. ~Tina

Masonry Innovation Competition announced

INTERNATIONAL MASONRY INSTITUTE

The International Masonry Institute (IMI) is challenging practicing and aspiring architects and engineers to advance the future of masonry design and construction with the JBC Masonry Innovation Competition. Registration is now open, and it's quick, easy, and free to register and enter. How will you help create more resilient, healthy, just, and equitable communities? What ideas do you have that could change the way we design and build with masonry? [Explore the competition and register](#) for your chance at \$30,000 in prizes!

Report: Construction needs decarbonization targets
WORLD ECONOMIC FORUM

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Architects need to do much more to assess the whole-life carbon emissions of their buildings if the construction industry is to contribute meaningfully to the fight against climate change, according to a report by the World Business Council for Sustainable Development. With construction currently accounting for 38% of global carbon emissions, [the report](#) urges the industry to develop clear goals for decarbonization.

Defining a whole-building embodied carbon workflow **BUILDING ENCLOSURE ONLINE**

With the increasing awareness of the embodied carbon impact of the built environment on global warming potential, a variety of tools and resources have emerged in the marketplace. [This blog](#) explores some common ones.

Construction groups set new carbon emission standards **RICS.ORG**

The Royal Institution of Chartered Surveyors has published the first global international standard for reporting carbon emissions in all areas of construction. Following consultation with environmental groups, final standards, which will be released in November, seek to help communities reach net-zero carbon emissions by 2050. [Read more.](#)

CODES and STANDARDS NEWS

One of the challenges with the ever-evolving energy codes is their complexity. In an effort to address the challenges of thermal bridges in a way that is easy to understand, The Masonry Society (TMS) and the American Concrete Institute (ACI) have developed a new standard - ACI/TMS 122Y. You can download a copy of the public comment draft at the link below. ~Tina

Public comment period open for new energy standard for concrete and masonry **CONCRETE.ORG**

ACI/TMS Joint Committee 122 on Energy Efficiency of Concrete and Masonry Systems has developed a new proposed standard ACI/TMS 122.Y, Thermal Bridge Mitigation for Buildings having Concrete and Masonry Walls and Masonry Veneer—Code Requirements and Commentary. To view the proposed standards, [visit ACI's Public Comment website](#). Comments from the public on the proposed changes will be accepted through August 23, 2021.

Future of energy codes workshop held **ENERGYCODES.GOV**

The U.S. Department of Energy (DOE) Building Energy Codes Program hosted a stakeholder workshop June 22 & June 24, 2021 to highlight leading advancements in building energy codes and bring together energy efficiency stakeholders from across the building industry. The Workshop was not recorded, however, presentation materials can be found [here](#).

Environmental Product Declarations (EPD) in Buy Clean and other North American procurement policies **CARBON LEADERSHIP FORUM**

A growing number of local, state, and federal procurement policies require environmental product declarations (EPDs) for reporting the embodied carbon of eligible products. Procurement policies such as Buy Clean aim to leverage the purchasing power of government agencies to incentivize transparency and a shift toward lower-carbon

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options in the broader construction materials market. However, there are limitations on the use of EPDs for comparison. Policies aiming to compare products across categories (such as between concrete and steel) should consider a building-scale approach and use whole building life cycle assessment (LCA), not EPDs. Read more [here](#).

GREEN PRODUCT NEWS

Portland cement alternative gets US patent approval CONCRETE PRODUCTS

Hoffman Green Cement Technologies' H-EVA patent, presented as a substitute to portland cement for ready-mixed concrete, mortars and plaster, has been validated by the US Patent Office. The technology uses flashed clay sludge, natural or synthetic gypsum and chemical activators to produce one-fifth the carbon footprint of portland cement. [Read more](#).

EDUCATIONAL NEWS

TMS plans to continue Masonry Night School this fall with a series on [Existing Masonry](#). In the meantime, check out these links. ~Tina

Check out the TMS Masonry Education Hub

THE MASONRY SOCIETY

The Masonry Society (TMS) has launched the Masonry Education Hub, a Learning Management System that allows designers, professors, students, and other users to obtain on-demand masonry education. The [Masonry Education Hub](#) provides a central location for excellent and accessible training sessions on a variety of masonry topics from sustainability to strength design and more.

Fire Safety Webinar, September 8 at 1 pm ET

THE MASONRY SOCIETY

Come learn from Kevin Cavanaugh, of Cavanaugh & Associates / Arcosa Lightweight / cfiFOAM about the Balanced Fire Safety Design concept and the crucial role that passive masonry firewalls play in it. Requirements in the building codes will be reviewed along with those in ACI/TMS 216 Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies. [Click here](#) for additional information on this helpful new webinar and to register.

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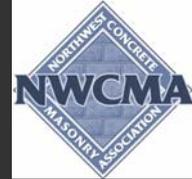
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