the edmonton Specifier

Construction Specifications Canada is an organization representing diverse interests in the construction industry and related professions. It is dedicated to improving the quality and flow of information between these interests, whether in the form of specifications, contract administration or marketing.

September 2025 Edition

Editor: Tracey Stawnichy

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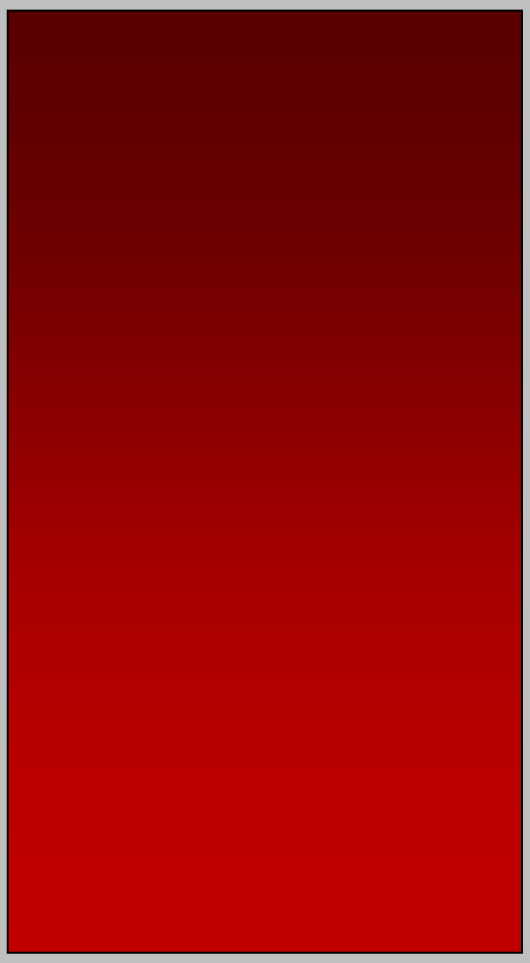

Simplifying Steel Cladding Specifications

Date: Thursday, September 18, 2025
Time: 11:30am – 1:00pm
Place: Matrix Hotel, Amber A Room
10640 100 Avenue NW, Edmonton, AB T5J 3N8

Major issues have come up with information contained in specifications across Canada. This leads to increased project costs, delays, confusion at tendering, and the reluctance of experienced contractors to bid on projects with ambiguous specifications. In the hope of improving concise, accurate and current standards for performance-based specifications - David Forsey from Westman Steel will be presenting information in Section 07 42 13 Formed Metal Wall Panels, current standards, product availability in the Canadian market, and industry support. This will provide simple information required to edit a master and provide a clear performance-base specification that applies across multiple Canadian manufacturers.

Simplifying Steel Cladding Specifications Tickets, Thu, Sep 18, 2025 at 11:30 AM | Eventbrite

Director	Andrew Brassington	780 222 6732
Chair	Dylan Leclair	587 335 9552
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Secretary	Jessica Prosser	587 340 7169
Treasurer	Cam Munro	780 231 1739
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Engineer	Jamie Murphy	780 983 0288
General Contractor	Position Open	
Interior Design	Nicole Bird	780 686 2452
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Owner's Rep	Cam Munro	780 231 1739
Sustainability	Position Open	

Chapter Sponsor

Reach out to us for more information at
edmonton@csc.dcc.ca

Student Sponsor

Reach out to us for more information at
edmonton@csc.dcc.ca

Meeting Sponsor

$50 for Individual (personal) Sponsor
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FOR FURTHER INFORMATION

Contact any member of the Executive, attend one of our Chapter Meetings, send your name and address to CSC Edmonton Chapter, PO Box 35093 Mid Town PO. Edmonton, AB T5J 0B7, or go to edmonton.csc-dcc.ca for additional contact information.

GOALS OF CSC

Construction Specifications Canada is a multi-disciplinary non-profit association dedicated to the improvement of communication, contract documentation, and technical information in the Construction Industry. CSC is a national Association with Chapters in most major Canadian Cities.

To this end, CSC pursues the study of systems and procedures that will improve the coordination and dissemination of information relevant to the construction process.
We seek to enhance the quality of the design and management aspects of the construction activity through programs of publication, education, and professional development, believing that by so doing, we can contribute best to the efficiency and effectiveness of the construction industry as a whole.

OBJECTIVES OF CSC

To foster the interest of those who are engaged in or who are affected by the compilation or use any forms of specifications for the construction industry.

To publish literature pertaining to the construction industry.

To engage in activities to improve procedures and techniques related to the construction industry.

The opinions and comments expressed by the authors do not necessarily reflect the official views of Construction Specifications Canada. Also, appearance of advertisements and new product or service information does not constitute an endorsement of those featured products or services.

Announcements:

If you are interested in becoming a mentor or a mentee for CSC, please hit the link!
MentorCity - Mentoring Software

Chair's Message

Dylan Leclair, CSC Edmonton | Chapter Chair

Greetings Edmonton Chapter,

Hope you all had an amazing summer break. Over the last couple months, the Executive has been hard at work to preplan most of our 2025-2026 Program. Thank you, Cherisse, for spearheading this initiative and working with the Program Committee to put this all together, it's shaping up to be an exciting year! As all these items are planned in advance, we are hoping that this will allow us to fit in a few more that may come up in the year and offer more to you, our membership.

Keep your eyes open in the next few weeks, as we are getting ready to launch sign-up for our Education Courses. We are looking at offering Principles of Construction Documentation (PCD), Certified Construction Contract Administrator (CCCA), and Specifier courses. If you have any questions about the course offering, please feel free to reach out to the Executive.

I would like to take this opportunity to welcome Nicole Bird who will be our new Interior Design Representative. We are excited to be working with her to offer more events/seminars with an emphasis on Interior Design. Nicole brings a wealth of knowledge of the industry and has numerous plans and ideas to open up our offerings.

As an Executive we are excited for the year ahead and hanging out with you!

Membership in CSC

Dave Lawrence

In the construction industry's fast-paced environment, the need for and value of Construction Specifications Canada is greater than ever. CSC brings together individuals from all segments of the construction industry. All who have a vested interest in Canada's largest industry are invited to join CSC. When you join CSC, you become part of the only association that brings together professionals from all aspects of the construction industry.

DESIGN TEAM

CSC offers members of the Design Team the opportunity to meet with other members and exchange information. It also affords you the chance to help improve technology and its management, and the means to improve ways in which your ideals are translated into clear, concise, and complete documentation.

BUILDING TEAM

If you are a member of the Building Team, CSC offers you the opportunity to become involved in formulating specifications. Your valuable input into the programs can help generate time and cost savings, as well as improve performance.

SUPPLY TEAM

The multi-disciplinary composition of CSC allows members of the Supply Team to meet with other members of the construction team. CSC programs in data filing and information retrieval are geared to present convenient and concise information on your products for proper evaluation and specification.

THE STUDENT

If you are a student of architecture, engineering, or construction technology, CSC will provide you with a greater exposure to, and a better understanding of, the construction industry, giving you an excellent opportunity if you plan a career in the construction field.

People and Places – Welcome to new and past CSC Edmonton Chapter Members!

Fresh Faces (New Members) – new

Matthew Murphy
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Doug Rutherford
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Eric Irion
Contract Administrator
DIALOG Design and Architecture
100, 10237 – 104 Street NW, Edmonton, AB T5J 1B1
P: (780) 429-1580
E: eirion@dialogdesign.ca

Yes, We've Moved (Contact / Mailing Address Update) – new

David Watson, CSP, FCSC
Retired
P: (780) 758-4147
E: dave@yellowthunder.ca

Previous Members Re-Joining / Re-Activated

None this month.

CSC Education:

Kevin Osborne, CET

Principles of Construction Documentation

The PCD course is an introductory course that will enable the student to have a better understanding of construction documentation (specifications, drawings, and schedules), products, bidding procedures, and contracts**. It is also a prerequisite to all the other CSC education courses.**

Specifier 1

Specifier 1 is an intermediate level course that will take the individual beyond the concepts previously introduced in the PCD Course. Although some of the same topics are included, the depth of comprehension

and explanation exceed that of the PCD course. The Specifier 1 is a prerequisite for the Certified Specification Practitioner (CSP) designation from CSC. Successful completion of the course may be credited toward the experience component requirements for the Registered Specification Writer (RSW) designation.

Technical Representative
The TR course provides a better understanding of contract documents and bidding procedures, product representation, professionalism, and ethics, and will provide a new depth of understanding and explanation of concepts beyond what was previously introduced in the PCD course. The course is designed for the individual involved in the supply section of the construction industry, such as manufacturer representatives, agents, or distributors of products. The student will have successfully completed the PCD course.

Contact Kevin for all your education needs. kosborne@jtas.ca

EDUCATION COURSES

Upcoming Classes:

Principals of Construction Documentation (PCD) – Sept 8, 2025 / Jan 5, 2026
Specifier – Nov 7, 2025 / Feb 27, 2026
Construction Contract Administration (CCA) – Nov 7, 2025 / March 6, 2026
Technical Representative (TR) – TBD

Upcoming Classes Online:

Principles of Construction Documentation (PCD) – Sept 8, 2025 / Jan 5, 2026
Construction Contract Administrator (CCA) – Nov 7, 2025 / March 6, 2026
Specifier – Nov 7, 2025 / Feb 27, 2026
Technical Representative (TR) – Nov 7, 2025 / March 6, 2026

Upcoming Virtual Classes:

Principles of Construction Documentation (PCD) – Sept 5, 2025 / Jan 9, 2026
Construction Contract Administration (CCA) – Nov 7, 2025 / March 6, 2026
Specifier (SP) – Nov 7, 2025 / Feb 27, 2026
Technical Representative (TR) – Nov 7, 2025 / March 6, 2026

Social Media:

Check us out:

Articles of Interest

AI-Powered Robotics Support Rebuilding Homes in Los Angeles Fire Zones

Sourced from: https://archdaily.com / Reyyan Dogan

ABB Robotics and US-based construction technology company Cosmic Buildings have deployed a mobile robotic microfactory in Pacific Palisades, California, to support the rebuilding of homes destroyed by the 2025 Southern Californian wildfires. Designed as a temporary, on-site manufacturing facility, the system aims to reduce construction time, costs, and material waste while producing housing that meets high standards of safety and sustainability. By combining AI-powered automation with modular construction techniques, the collaboration demonstrates how robotic manufacturing can be adapted to remote and disaster-affected locations. The companies suggest that such approaches could become a key tool in delivering resilient, affordable housing on a large scale.

Housed within a large tent on a vacant plot, Cosmic's microfactory centers around an ABB IRB 6710 robotic arm integrated with the company's proprietary AI-driven Building Information Model (BIM) platform and Robotic Workstation Cell. The setup uses ABB's RobotStudio digital twin software to simulate and optimize each stage of the building process before fabrication begins. On site, the robot assembles standardised wall panels by joining two-by-six-inch lumber boards into frames, attaching plywood sheathing, and preparing the components for immediate installation. Two workers support the process, feeding raw materials to the robot and removing finished panels.

Each panel takes around 20 minutes to produce, enabling the frame of a house to be completed in approximately 10 days. The remaining construction, including exterior cladding, flooring, and roofing, is carried out off-site before final assembly. According to the companies, this approach reduces build time by up to 70% and overall costs by around 30% compared to conventional methods.

The modular designs produced through the microfactory incorporate non-combustible materials, solar panels with battery storage, and water independence through greywater recycling and renewable water generation systems. Each unit is designed to exceed California's wildfire resilience and energy efficiency requirements. Cosmic plans to construct 100 homes by 2027 using the mobile factory model, with the current site expected to operate for two to three months. The system was conceived in response to the Palisades and Eaton fires, which destroyed over 16,000 structures earlier this year. The microfactory itself was assembled in about 30 days, offering a rapidly deployable solution for disaster recovery. ABB and Cosmic position it as a prototype for broader applications in the construction industry, addressing challenges such as labor shortages, high costs, and environmental impact.

Recently, the Eames House, Case Study House No. 8, reopened to visitors following a five-month closure caused by smoke damage from the Palisades Wildfire. In other Los Angeles news, the City Council has approved BIG's Mesquit Street mixed-use complex, and the first photographs of the long-anticipated David Geffen Galleries at the Los Angeles County Museum of Art (LACMA) have been released.

Engineers Shake Tallest Steel Structure for Quake Resilience

Sourced from: https//www.globalconstructionreview.com / Rod Sweet

Engineers at the University of California San Diego have earthquake-tested a 10-story, 100-foot-tall

steel structure, saying it's the tallest steel structure ever tested with an earthquake simulator, also known as a "shake table".

The goal was to test a 100-foot-tall structure made from cold-formed steel (Still from a University of California San Diego video)

The shake table used is one of the three biggest in the world and the only one located outdoors.

Their goal was to test the seismic resilience of a structure made from cold-formed steel, a lightweight material made up to 70% from recycled metal.

Building codes currently limit this type of structure to 65 feet, or six storeys, and researchers want to know if the limit could be raised to 100 feet or 10 storeys in seismically active areas.

The shake table moves up and down, side to side, and in rolling, pitching and yawing motions to simulate a real earthquake.

"The building performed very well," said Tara Hutchinson, the project's lead and a structural engineering professor.

"Despite 18 earthquake tests of increasing intensity – including three very large at and above what design engineers must consider in designing a building – the load-bearing structural system retained its integrity."

Researchers expected some damage to the building's non-structural components, but the stairs – crucial for evacuation – remained functional.

They installed nearly a thousand sensors to measure to measure the structure's responses.

That led to what Hutchinson called "an outstanding set of data to analyse and digest, and ultimately to help improve building codes and support the design communities' desire to use this excellent material in the construction of taller, lightweight, more resilient buildings".

This 'Superwood' is Stronger Than Steel. It's Coming to a Building Near You

Sourced from: https://www.fastcompany.com / Jesus Diaz

Steel has long anchored modern construction, but its environmental toll is staggering: producing a single ton emits nearly two tons of CO2. Steel is also complex to manage in construction processes, which prevents smaller contractors and projects from using it.

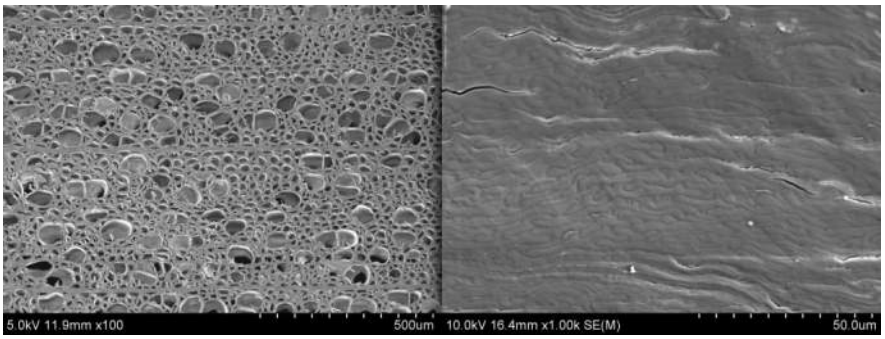
A material invented at the University of Maryland will soon offer a radical alternative. Called Superwood, it has a 50% greater tensile strength than steel and a strength-to-weight ratio that's 10 times better. It's lighter, tougher, and also locks away carbon. After seven years of development, the startup commercializing the technology will begin mass production this summer.

Photos: InventWood

“We’ve spent years perfecting our molecular reconfiguration process to maintain the extraordinary properties demonstrated in the lab, while making the process commercially viable,” Alex Lau – cofounder and executive chairman of InventWood – tells me over email.

The company was founded in 2016 by Dr. Liangbing Hu at the University of Maryland, after he developed the first transparent wood as a better insulating alternative to glass. “What began as pioneering academic work evolved through several breakthrough iterations,” Lau says. Hu turned his research into Superwood in 2017. The work was documented in a 2018 Nature paper that revealed a method of transforming ordinary wood into a substance rivaling titanium alloys. The discovery held the promise of a sustainable, CO2 negative construction material that was better than steel, but it was far from commercialization.

Magnified images of (left) untreated wood and the same wood treated by a new process (right) invented by UMD engineers that compresses the natural structures of wood into a new material five times thinner. (Images courtesy of University of Maryland)



During this time, Dr. Hu focused on further refining the technology and bringing manufacturing costs down. Then, in 2021, Lau recognized that the technology had reached sufficient maturity for full-scale commercialization. “At that point, I helped pull together a complete team to kick off the manufacturing process,” he says. “Since 2021, we’ve been intensely focused on creating a scalable process and ensuring the quality standards necessary to bring SuperWood to market.”

How Superwood is made

Making Superwood is a complex process, but it requires two primary steps. First, lignin – a polymer that stiffens wood and gives it its brown hue – is partially dissolved using food-grade chemicals. As Orlando J. Rojas, a professor at Finland’s Aalto University, noted back when the discovery came out in 2018, the trick is to remove just enough lignin to maximize hydrogen bonding between cellulose fibers without compromising its structural integrity. Next, the wood is compressed at 150°F, collapsing its cellular structure into a dense matrix. The result is a material five times thinner than the original, but 12 times stronger and 10 times tougher.

This molecular reconfiguration eliminates wood’s inherent weaknesses. Natural wood is porous and prone to rot, but Superwood’s tightly packed cellulose fibers create a barrier against moisture, termites, and fungi. Its Class A fire rating – achieved without chemical flame retardants – stems from its density, which starves flames of oxygen. Lab tests proved its ballistic resistance: A projectile pierced untreated wood, but it lodged halfway through a same-thickness Superwood block. Unlike steel or carbon fiber, it requires no energy-intensive smelting or synthetic resins.

Initially, it took weeks to make a single plank of Superwood, but Inventwood’s team streamlined the process to just a few hours, enabling bulk production of the material.

Lau tells me that the company's first facility in Frederick, Maryland, will produce one million square feet of Superwood annually starting this summer, focusing initially on interior finishes for commercial and high-end residential projects. A second phase in fall 2025 will introduce exterior-grade panels for siding and roofing. He envisions structural beams and columns within a few years, pending certification. Their plan is to build "a larger facility that will scale to over 30 million square feet, enabling use in infrastructure and large developments," Lau says.

If you are wondering about how architects and crews can actually use this to build, you are not alone: If it's stronger than steel, does it require special tools? According to Lau, contractors can cut, drill, and fasten Superwood with standard woodworking tools, though its density may demand adjusted techniques. "No specialized tools are required, making adoption straightforward," Lau says. The material's stability minimizes warping, and polymer coatings enable outdoor use without sacrificing aesthetics. Its compressed fibers deepen natural grain patterns, yielding finishes akin to tropical hardwoods.

"World's First" 3D-Printed Railway Station Built in Japan in Six Hours

Sourced from: https://www.dezeen.com / Amy Peacock

A mandarin orange relief features on the station's exterior

Japanese company Serendix has completed what it claims is the world's first 3D-printed railway station in Arida, Japan, which was constructed in the hours between the last and first train services.

Collaborating with JR West Japan Group and Japanese architecture studio Neuob, Serendix created a 3D-printed shelter with an arched roof for Hatsushima Station, which replaced a wooden structure built in 1948.

Serendix said its design is the "world's first 3D-printed station building". It was constructed from four elements that were 3D printed in a factory and assembled at Hatsushima Station in under six hours.

Station buildings and construction near railway lines are typically carried out at night when trains are not running, often leading to long construction timeframes.

At Hatsushima Station, Serendix constructed the shelter and its foundations in the six-hour time window between the last train service and the first service the next morning.

It was made from four prefabricated parts – a roof, a back wall, and two corner elements forming the side walls and floor – which were made in seven days in a factory.

A robotic arm and nozzle 3D printed the shell of the four parts in a specially-designed mortar that dries faster than standard mortar. Rebar and concrete were then poured into the 3D-printed parts to increase their strength.

The station shelter is made up of four hollow elements that were filled with concrete

According to Serendix, the four elements were assembled on the train station site in around two hours. Metal rods were then inserted into fixing holes, and adhesive was added to secure the structure.

The Hatsushima Station shelter measures 6.3 metres wide and 2.1 metres deep, and its arched roof reaches 2.6 metres tall.

Its back wall features a 3D-printed mandarin orange design on one side and a cutlassfish on the other, representing Arida's popular produce.

"Rounded designs are costly and difficult to achieve with concrete construction using formwork," Neuob founder Hiroshi Ota told Dezeen. "We chose curved, soft shapes to take advantage of this benefit."

"Furthermore, to reflect local characteristics, we expressed the local specialities, mandarin oranges and cutlass fish, in relief, which is another feature uniquely possible with 3D printing."

Serendix 3D printed the four elements vertically rather than horizontally, resulting in the buildup of printed layers creating a striped vertical pattern.

"While 3D printed architecture typically has horizontal layering, in this case, we conducted extensive technical studies to rotate the output 90 degrees after printing, resulting in vertical layering," Serendix told Dezeen.

"This reduces the visibility of rain streaks and improves the building's maintenance properties."

The station will be open for use in July, following the completion of external works and the installation of ticket gates.

Serendix hopes to build more 3D-printed stations like Hatsushima Station in the future, claiming the short construction period offers an affordable way to build.

"Typically, building a station of the same size using reinforced concrete would take one to two months," said Serendix.

"Additionally, in Japan, there is a notable shortage of workers in the construction industry, resulting in soaring labour costs and difficulties in securing construction personnel," it continued.

"While the 3D-printed station is made of robust and durable concrete, the assembly of the structure was completed in just two hours – this speed enables more affordable and numerous station constructions."

Earlier this year, construction technology company ICON completed a 3D-printed home in Texas and announced it is working on another 3D-printed housing development with Michael Hsu.

ASSOCIATION LINKS

- **Alberta Construction Safety Association (ACSA)**
  www.acsa-safety.org
- **Alberta Building Envelope Council North (ABEC)**
  www.abecnorth.org
- **Building Information Modeling (BIM) Forum**
  https://bimforum.org/
- **Biomimicry Guild**
  https://biomimicry.net/
- **Canadian Green Building Council (CaGBC)**
  www.cagbc.org
- **CCDC Documents**
  ccdc.org
- **International Construction Information Society (ICIS)** www.icis.org
- **Architecture 2030**
  www.architecture2030.org
- **BuildingSMART Alliance** (Canada Chapter of BuildingSMART)
  https://www.buildingsmart.org/community/chapter-directory/buildingsmart-canada/

  BuildingSMART International (formerly IAI)
  https://www.buildingsmart.org/
- **Biomimicry Institute**
  www.biomimicryinstitute.org
- **Building Transformation (CanBIM)**
  https://www.buildingtransformations.org/
- **Construction Specifications Canada (CSC)** www.csc-dcc.ca
- **MasterFormat**
  https://crmservice.csinet.org/widgets/masterformat/numbersandtitles.aspx

ASSOCIATION LIAISONS

Alberta Association of Architects (AAA)
http://www.aaa.ab.ca/

Alberta Painting Contractors Association (APCA)
www.apca.ca

Alberta Wall & Ceiling Association (AWCA)
http://awca.ca

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
http://www.ashrae.org/

Alberta Roofing Contractors Association (ARCA)
http://www.arcaonline.ca
info@arcaonline.ca

The Canadian Wood Council (CWC)

Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA)
http://www.apegga.org/

Association of Science and Engineering Technology Professionals of Alberta (ASET)
http://www.aset.ab.ca/

Building Owners and Managers Association (BOMA)
http://www.bomaedmonton.org/ /
Consulting Engineers of Alberta (CEA)
http://www.cea.ca/

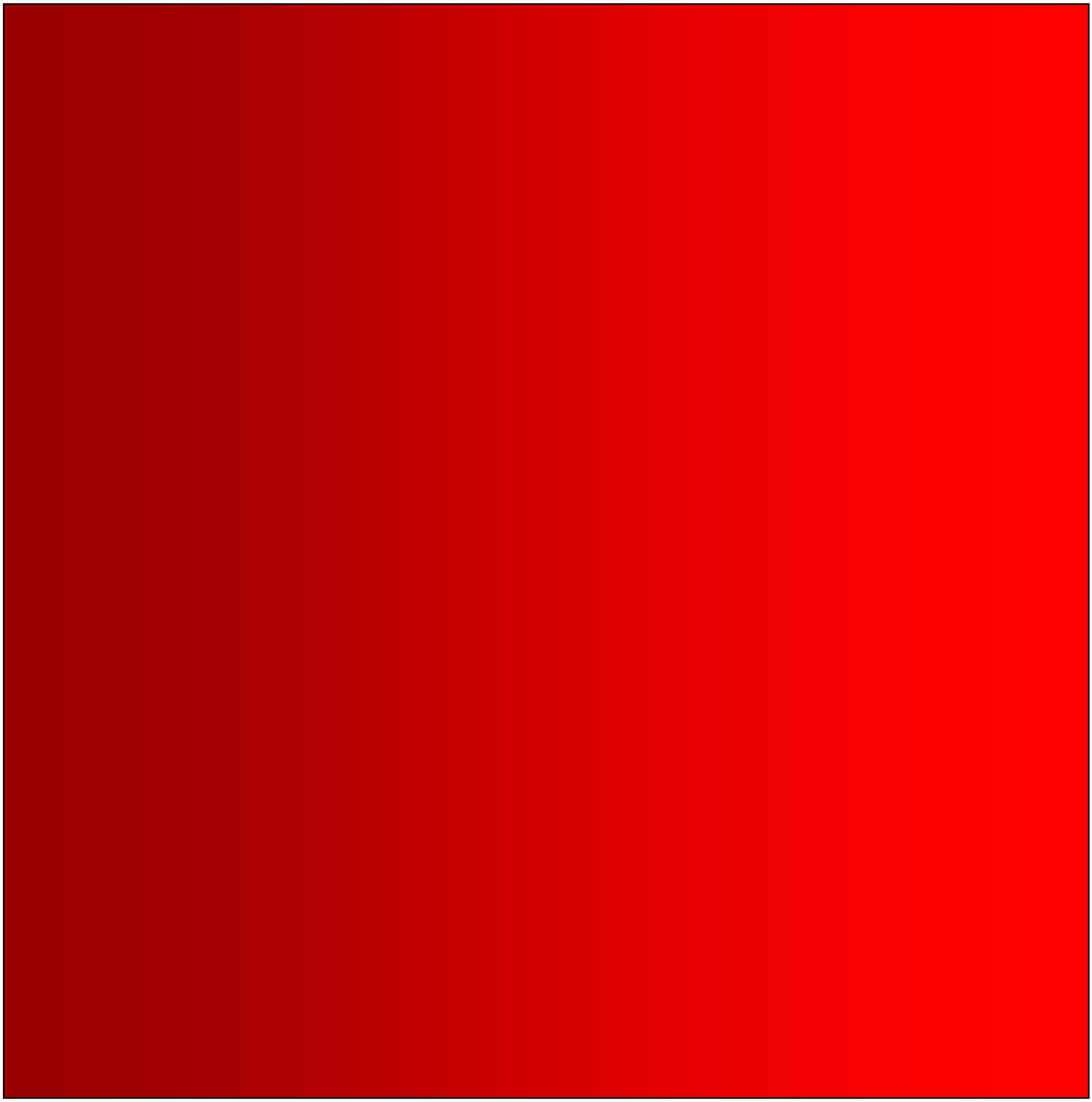
Edmonton Construction Association
www.edmca.com

http://www.cwc.ca

Portland Cement Association
https://www.cement.org/

Terrazzo, Tile & Marble Association of Canada (TTMAC)
http://www.ttmac.com/

Interior Designers of Alberta
https://www.idalberta.ca/



Bulletin Board

Message from the Executive:

We in the Executive are looking for creative-minded individuals who can take on a position and follow through with ideas…if this is YOU, send a message to edmonton@csc-dcc.ca and we will be quick to get back to you!

Open Positions Include:

Sustainability
Contractor's Rep

You don't need to be a member of the Committee to come and participate in our monthly Chapter meetings but watch out if you do! You may find yourself holding a position…maybe even as Chapter Chair…

The Executive

Director  Andrew Brassington, CTR Technical Area Sales Manager Owens Corning | Canada P: 780-222-6732 Andrew.Brassington@owenscorning.com	**Chair**  Dylan Leclair, CTR IKO Commercial P: 587-335-9552 Dylan.leclair@iko.com	**Vice-Chair**  Catherine Osborne, CCCA BR2 Architecture P: 780-423-6606 cosborne@br2architecture.com	**Treasurer**  Cam Munro, CTR Alberta Infrastructure P: 780-231-1739 Cam.munro@gov.ab.ca
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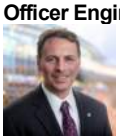
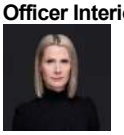
Officer Engineer  Jamie Murphy, RET, P.L. (Eng), CCCA, LEED AP, Principal Read Jones Christoffersen P: 587-745-0266 JMurphy@rjc.ca	**Officer Interior Design**  Nicole Bird, Creative Director RSVP Design Inc. P: 780-686-2452 nicole@rsvpdesign.ca	**Officer Contractor**  Position Open	**Officer Manufacturing**  Mike Lafontaine Expocrete P: 780-962-4010 Mike.Lafontaine@oldcastle.com
Officer Technical Program  Cherisse Zerbin Architectural Sales Timberstone Distribution P: 780-920-4910 Cherisse.z@tsdstone.ca	**Officer Membership**  David Lawrence Retired P: 780-901-7260 davidlawrence@interbaun.com	**Officer at Large**  David Lawrence Retired P: 780-901-7260 davidlawrence@interbaun.com	**Officer Sustainability**  Position Open
Officer Marketing  Jamie Murphy, RET, P.L. (Eng), CCCA, LEED AP, Principal Read Jones Christoffersen P: 587-745-0266 JMurphy@rjc.ca	**Officer Trade Contractor**  Kevin Kramers, CET, CTR, RRO ARCA – Technical Officer P: 587-232-0613 technical@arcaonline.ca	**Officer – Owner's Rep**  Cam Munro, CTR Alberta Infrastructure P: 780-231-1739 Cam.munro@gov.ab.ca	**Newsletter Editor**  Tracey Stawnichy, LEED AP, CCCA Contract Administrator ACI Architecture Inc. P: 780-994-3699 tstawnichy@aci-arch.com