



### In this Issue:

- Città's Steady, Deliberate Approach to Sustainable Building
- Built Green Canada Issued Fifth Annual Challenge to Municipalities
- All Weather Windows: Weathering Tariffs in the Building Industry
- Built Green in Your Community
- Meet the Technical Standards Committee

- Energy Advised: Dave Turnbull, Enerspec Consulting
- Incentives & Rebates
- Program Updates
- Training: CPD and Master Builder Credits
- Managing Construction Waste: Tips for Greening Your Site
- Product Catalogue Connection

### A Steady, Deliberate Approach to Sustainable Building

*Città Group's solid foundations encourage ongoing innovation*



With the new millennium, forecasted concerns over computer bugs, financial chaos, and even drinking water shortages were alleviated. Back then, geopolitical events and natural disasters directly and

indirectly contributed to the global energy crisis, while the demand for fossil fuels increased, and public and private sectors pushed for the development of environmentally friendly technology.

While technological innovations continued to progress, builders were faced with many of the same challenges the industry faces today—labour shortages, regulatory changes, rising costs, and more. Today, innovations related to sustainable building practices, alongside the industry's commitment to building better, are enabling the building sector to move forward. Without progressive builders, who Built Green affectionately refer to as mavericks, this progress would not be possible.

For some of these builders, there's a confluence of factors which results in a defining moment that changes the trajectory of a business; for others, the clarity comes from a series of factors over time. And for **Città Group**, their journey was steady and deliberate. "The move to building sustainably definitely involved a learning curve, but we embraced this," says Mike Dalton, Vice-President at Città Construction.

Reflecting on this time, Dalton cites some key projects that influenced their way of thinking. One being their work on a straw bale, solar-assisted house in 1998. Another included the use of reused timber from a hanger blown down in a storm around the same time. "These projects really kick-started our thinking. From there, we got the bug—we wanted to challenge the status quo!"



Photos courtesy of Città Group.

Under the leadership of Bill Patterson, president and CEO, their adoption was a deliberate, slow process to ensure time was taken to think through, learn, and understand how they would approach sustainable building. For years, the Città Group has accepted and believed that sustainability and protection of the environment is a vitally important business issue and a crucial element of sound business practice. [Read more here.](#)

### Built Green Canada Issued Fifth Annual Challenge to Municipalities

*Industry leads the way in climate mitigation ahead of regulation, while all orders of government increase commitment to sustainable building*



Concurrent with National Environment Week, Built Green Canada announced its fifth annual challenge to municipalities across the country to raise awareness of the importance of sustainable building practices, to challenge municipalities to encourage green building, and to shine a light on those builders leading the way.

The challenge was marked by a growing number of municipalities who proclaimed June 6 as BUILT GREEN® Day. This included Campbell River, Chestermere, Comox, Courtenay, Duncan, Edmonton, Estevan, Fort Saskatchewan, Kelowna, Ladysmith, Langford, Moose Jaw, Nanaimo, North Vancouver, Okotoks, Penticton, Port Coquitlam, Prince Albert, Regina, Saanich, Saskatoon, Sooke, St. Albert, Strathcona County, Victoria, Whistler. Meanwhile, others offered their support to BUILT GREEN® Day and sustainable building—Brandon, Grande Prairie, Lacombe, Leduc, Kimberley, Vancouver—and Collingwood proclaimed Built Green Canada Day. Lethbridge marked the day by lighting up City Hall with green LEDs.

This marks the growing concern faced by public and private industry on climate change and the heightened expectations of the municipality's role in addressing this social problem. In response to meeting environmental targets, all orders of government are developing climate mitigation strategies, and

for those working in the residential building industry, increased energy performance and other standards continue to change.

The increased stringency of codes and standards is increasing costs for the industry: the unintended consequence is the further deterioration of housing affordability. With the intersection of these two social problems, there is possibility for further collaborative actions between government and industry—collaboration that considers the environment, costs, and the pace of change—given realizing sustainability targets... [read more here](#).

## Featured Sponsor: All Weather Windows

### Weathering Tariffs in the Building Industry

*All Weather Windows has decades of commitment to quality products and Canadians*

While the economy slowly but steadily improves, mounting tariffs from our neighbours have many choosing to re-double their commitment to Canadian products. All the while, there are companies committed to being socially responsible who find ways to put resources back into the community—an effort that remains invaluable to Canadians working to make ends meet.



Photo of Vantage patio door, courtesy of All Weather Windows.

Companies such as Canadian-made-and-managed **All Weather Windows**, known for its high-performance windows and doors created specifically to withstand our Canadian climate. Now a 40-year-old company, All Weather Windows continues

to expand its award-winning product lines—and was recently named the 2018 recipient of the ENERGY STAR Canada Sustained Excellence award for products.

In line with their history of offering durable, energy efficient products, they've launched their new Vantage patio door. The Vantage's PVC frame allows for better corner weld retention and strength, reducing heat loss and adding to overall performance. With triple-fin weather strips, interior glazing, and the option to upgrade to triple-pane glass, this gorgeous patio door lends to superior energy efficiency and soundproofing. A 10-year warranty comes with it, along with acrylic wrap colour application, offering more aesthetic value to go with its improved performance.

The company's history goes beyond quality products. For decades, All Weather Windows has worked hard to open doors for Canadians in the communities in which they do business. Their efforts take a four-pillar approach: strengthening families; providing shelter; supporting education; as well as health and wellness—achieved through partnerships with worthy organizations.

One such partner is Habitat for Humanity, an organization that helps low-income families get themselves into homes with interest-free mortgages, set according to the family's income level. It's an effort creating much-needed pathways to affordable homeownership—and is supported by many volunteers and product donations including windows and doors from All Weather Windows.

On a company-wide level, All Weather Windows staff have grabbed their hardhats and lent their hands to Habitat builds across the country. Meanwhile, the company donates much-needed building products for these homes under construction; with contributions totaling nearly one million dollars... annually.

Though Habitat is one of All Weather Windows' most significant partnerships, it is one of many—including Kids Help Phone, BC Children's Hospital, Junior Achievement of Northern Alberta, University of Alberta's USchool, Mental Health Foundation, and more.

The company's long-term commitment to supporting sustainable building is evidenced by its sponsorship of Built Green Canada, an organization offering holistic sustainable building programs to residential builders. These home certification programs reward the use of products and building practices that contribute to a more energy efficient, durable home with improved air quality, ventilation, waste management, and water conservation, while the programs encourage responsible business practices for the builder and their manufacturers.

Though the uncertain trade atmosphere has many taking inventory of what's Canadian and what's not, in the sustainable building community this is not a new theme. Locally sourced products and services are a smart, sustainable choice to support local economy, to reduce the environmental footprint that comes with transporting goods thousands of kilometers, and in some cases, to be more prudent. Built Green Canada has long encouraged this, and through its programs' Business Practices section, rewards builders for using locally sourced products.

All Weather Windows is Canada's largest privately-owned window and door manufacturer. With solution centres in eight cities, over 600 dealers across the country, and a leading-edge manufacturing plant in Edmonton, the company produces a full range of energy efficient and sustainable window and door products that contribute to a more durable, efficient home.

### Featured Tweet



**Partners Development Group:** Environmentally responsible townhomes fit well with the @townofokotoks sustainable and thoughtful planning. Learn more about our @BuiltGreenCan homes at The Landing

## Built Green in Your Community

### Built Green Delivers Technical Workshop: Building Envelope, Mechanical Heating Systems, and HRVs



Scott Thomas from Cascade Aqua-Tech and Sean McStay at SIGA.

On April 23, Built Green held a technical workshop on the North Shore as industry readied itself for the BC Building Code – Step 3, which came into effect on July 1st on the North Shore. Close to 100 members of the industry attended.

The workshop took place at a **Blackfish Homes**’ build-in-progress slated to achieve Step 3 of the BC Energy Step Code, as well as BUILT GREEN®

Platinum certification. It focused on Step 3 of the BC Energy Step Code: energy performance requirements on the North Shore; a review of SIGA system as a solution for a tighter building envelope, mechanical heating systems with a Heat Recovery Ventilation products review—another component of improved performance, as well a healthier home, and wrapped up with a question and answer period. Live demonstrations were provided by **Cascade Aqua-Tech** and **Emco Ltd.**

For those in attendance, this workshop was eligible for two CPD points through **BC Housing** and two CPL units through the **Planning Institute of British Columbia.**

A special shout out to David Adair, Director at Blackfish Homes and Built Green Canada’s Immediate Past Chair. He’s photographed here between John Friswell (left), **CCI Renovations** and Built Green Board Director and Greg Hasler (right), **Hasler Homes**, Built Green member.



### Habitat for Humanity’s 2018 Women Build

On May 17, Built Green Canada joined the movement of women empowering one another. We know that one third of Habitat homeowners are single moms. By raising funds and building homes together, we’re helping other women achieve strength, stability, and self-reliance. Women Connect. Women Give. Women Build. **2018 Women Build.**



Jenifer Christenson (centre), CEO at Built Green Canada, alongside other participating women.

### P.R. Building Green Community. Build Green. Live Green. LTD. Project Goes Solar

**P.R. Building Green Community. Build Green. Live Green.** LTD’s project in Powell River will be BUILT GREEN® certified and is earning points for renewable energy in the Business Practices section of our program with checklist items 7.5: 50% (2 points) or 100% (4 points) of electricity used by homeowner during first year of occupancy is generated by wind power or an equivalent renewable energy supply (prepaid by builder), as well as 7.6: Manufacturers and/or suppliers purchase 50% or more solar, wind, or renewable electricity (1 point per supplier to a maximum of 3).



Pip (Matt) Elliott, Director, Co-Founder of P.R. Building Green Community. Build Green. Live Green. LTD.

In fact, the project’s hydro bill for March and April was only \$13.21 by using solar power! The intention is to cover all electrical loads for the units and the development itself (irrigation and lighting).

### Alfred Nikolai, President and Chief Executive Officer of Habitat for Humanity Edmonton Retires

Habitat Edmonton’s president and CEO, Alfred Nikolai, who has led the charity for the past 13 years retired from his position on June 30th. The charity’s growth has been exponential over those years and today, **Habitat for Humanity Edmonton** is the largest Habitat in Canada, based on the number of families served annually.

Recently the charity hosted the **Carter Work Project** and put Habitat Edmonton’s role in building affordable housing on the world stage.

“Alfred Nikolai’s exceptional leadership has been a major contributing factor to Habitat Edmonton’s success. His passion and commitment to the cause of providing affordable housing to those in need has resulted in the charity going from building one or two homes annually to building entire communities. He exudes the spirit of neighbour-helping-neighbour. Alfred’s remarkable achievements with Habitat Edmonton, as well as his contributions to the Habitat program across the country have improved the lives of many families over the years,” said Oryssia Lennie, Board Chair, Habitat Edmonton. “He has played a significant role in breaking down barriers and building stronger, healthier communities, which greatly advanced the Habitat for Humanity program.”



Alfred Nikolai

## Basecamp Canmore a Throwback to Community's Mining Days



Big Moose Realty's Basecamp buildings, located on Bow Valley Trail, are an architectural homage to the bygone days of the former mining community and are an interpretation of the traditional mountain cabin.

The two linear building masses are composed of archetypal 'cabins' that reference historical building typologies seen during the early days of settlement in Canmore. With a different roof pitch and varied window placement, each accommodation is unique from the exterior, allowing guests to identify their 'cabin' during their stay at Basecamp.

Materials used on the exterior, including the whitewashed and stained cedar cladding and rundle stone masonry, are locally sourced and are in keeping with the regional mountain vernacular; premanufactured wall systems and roof trusses reduced construction time during the winter work, reducing



Photos courtesy of Mission Green Buildings.

energy usage for construction heating; and ENERGY STAR Zone 3-rated windows, with high R-values of 4.7 for increased energy efficiency.

Mission Green Buildings is the project's BUILT GREEN® Verifier.

## Dual Certification Build Atop Horseshoe Bay Cliff



Vancouver Total Construction is once again bringing it all to the table. Their newest project in West Vancouver's beautiful Horseshoe Bay is slated to become an impressive, high performance, third-party certified home.

With a lot size of 31,000 square feet and a proposed building square footage of 12,500, this Madrona Crescent project is going for double certification—aiming for BUILT

GREEN® Platinum and intended to go through the Net Zero program. At this point, the Vancouver Total Construction team has poured 250 tons of concrete for the deck (made of 32 MPa small rock concrete), suspended 25' high above the cliff, as well as the lower level foundation walls, using Quad-Lock for the step footing sitting right on the bedrock edge, where they've drilled 3' deep into the rock for stability. This build will be a remarkable engineering feat.



Photos courtesy of Vancouver Total Construction.

## Lakepoint One at Westhills – Verity Construction



Verity Construction's latest build is Lakepoint One; it is a landmark building for the area of Westhills in Langford, British Columbia. This BUILT GREEN® certified project was artistically designed by the

award-winning Hoog & Kierulf and masterfully constructed by Verity Construction with 42 units over six storeys.

Lakepoint One offers spectacular views of Langford Lake and the Westhills community and was thoughtfully conceived to include kayak and paddle board storage, a pet wash, a car wash, a rooftop terrace, along with a commitment to encouraging shared transportation: Westhills has included a secured, underground parking area providing easy access to individual bike racks—one per suite—along with an electric car charging station.

Verity Construction Ltd., one of the earliest adopters of BUILT GREEN®, is committed to building architecturally innovative and environmentally conscious high efficiency projects. This multi-award winning company has been recognized for their work in commercial and residential construction, handling various office, retail, residential and commercial projects on Vancouver Island.



Photos courtesy of Verity Construction.

Interested in the breakdown of our single family certifications for the first quarter?

- 12% Bronze
- 37% Silver
- 41% Gold
- 10% Platinum

## Platinum Certifications



Congratulations to all those who achieved Platinum certification during this quarter, including:

Amity Construction Inc. (1), Colbray Homes Ltd. (2), GNB Builders Inc. (1), Island Outlook Developments Ltd. (1), Landmark Homes (21), Naikoon Contracting Ltd. (3), Natural Balance Development Group Inc. (1), Partners Development Group Ltd. (2), PCD Pacific Concept Developments Ltd. (2), Rosecrest Homes Ltd. (2), Sterling Homes Ltd. (7), TRF Woodcrafts Ltd. (1), Tye Homes (2), and Upland Developments Ltd. (1).

## Meet the Technical Standards Committee

The Technical Standards Committee advises Built Green Canada on matters related to the technical standards of our programs for environmentally responsible building practices, energy use, products, and standards compliance. Committee members bring needed expertise to ensure that program checklists are appropriate and working in accordance with the interests of Built Green Canada and that audit processes ensure program integrity.



Matt Grace



Niels Anthonson



Roger Chayer



Charles Fay



John Friswell



Bard Golightly



Robert Griesdale



Einar Halbig



Erik Heck



Bill Patterson



Robert Prybysh

- Matt Grace, **Mission Green Buildings**, Chair
- Niels Anthonson, **Enerlytics Engineering Ltd.**
- Roger Chayer, **Talus Green Building Consulting**
- Charles Fay, **Jayman BUILT**
- John Friswell, **CCI Renovations**
- Bard Golightly, **Christenson Group of Companies**
- Robert Griesdale, **Blackfish Homes**
- Einar Halbig, **E3 Eco Group Inc.**
- Erik Heck, **Mission Green Buildings**
- Bill Patterson, **Città Construction**
- Robert Prybysh, **Arrow Engineering Inc.**

Thank you to all Technical Standards Committee members for their support and dedication. Some of these members have been on the committee since the early days of Built Green Canada.

## Did You Know?

We are currently reviewing our programs for updates to the 2019 checklists. We value industry input, which helps to keep our programs relevant, rigorous, and achievable.

We welcome your contributions: [www.builtgreencanada.ca/checklist-change-request-form-single-family](http://www.builtgreencanada.ca/checklist-change-request-form-single-family) / [www.builtgreencanada.ca/checklist-change-request-form-high-density](http://www.builtgreencanada.ca/checklist-change-request-form-high-density)

## Energy Advised

*Dave Turnbull, Enerspec Consulting*



With building code changes and increased emphasis on sustainable building, of which energy efficiency is a key component, the role of an Energy Advisor has become ever more important. Experts in energy efficiency, they're licensed by Natural Resources Canada to deliver the EnerGuide Rating System—a key component of our Single Family and Renovation programs.

Energy Advisors have honed strong energy advising skills through years of related practice, and their role is invaluable in sustainable building practices. We encourage you to fully utilize them in your build process; they have so much to offer you and your customers.

Dave brings over 30 years of experience in the construction industry—the last 10-plus years with one of Canada's leading energy efficient builders, along with thousands of successful builds. Having spent the last number of years focused on energy efficiency and sustainable building, Dave offers a practical, no-nonsense approach to building better, sensibly.

The industry is changing and with this there are new building code requirements that bring challenges and potential unintended consequences. Dave is committed to working in partnership with his clients, helping them negotiate through these changes successfully, with proven methodologies to improve the way projects are delivered.

He's passionate about keeping it simple, with a core belief that it shouldn't cost a fortune to build better. "There's a misconception that building sustainably is expensive; however, it has been our experience that it is one of the most affordable options you can add to a home. People also think it is complicated, and we want to change that."

Enerspec is dedicated to helping homebuilders and homeowners make good decisions, whether they're building or renovating. Beyond providing basic service for receiving an EnerGuide label from Natural Resources Canada on existing or new homes, Dave's company offers other services, including building science consultation, Built Green consulting, and energy literacy for sales. They offer a number of tools to diagnose problems and offer solutions including modeling, airtightness testing, and Infrared Thermography.

Looking ahead, Dave is encouraged by how far the industry has come, the leadership shown from within the industry, and the opportunity to work alongside builders wanting to build better. For more information email [davet@enerspecconsulting.ca](mailto:davet@enerspecconsulting.ca), phone 780.966.0023, or visit [www.enerspecconsulting.ca](http://www.enerspecconsulting.ca).

For a list of Energy Advisors in your area, please contact the Built Green Canada office.

## PROGRAM UPDATES

### Single Family Project Verifications

*Added credibility for your projects*

As a component of our quality assurance process, a random selection of projects undergo our Single Family Verification process on “visibly inspectible” items, conducted by the Energy Advisor at the time of the blower door test.

Notifications of Single Family Verifications were issued during last quarter to builders and their respective Energy Advisors, and the verifications have begun coming in. This is an additional verification step to increase the rigour of the BUILT GREEN® certification process; it adds another level of credibility to the program, and therefore, your home certification.

### Training is Eligible for CPD Points / Master Builder Training Credits

Built Green Canada believes training is essential. One of the requirements for membership is that training is taken every two years. Builders and renovators must be trained in BUILT GREEN® practices, policies, and procedures prior to building their BUILT GREEN® projects. Contracted trades and / or suppliers are also encouraged to take our training, as are non-members interested in our programs.

Our two online training programs (detailed below) are eligible for CPD credits with BC Housing as well for Master Builder training credits with the Professional Home Builders Institute: [www.builtgreencanada.ca/training](http://www.builtgreencanada.ca/training)

**BUILT GREEN® Program Fundamentals** focuses on the fundamental aspects of the program to orient participants on how to work with Built Green; introduce them to the administrative and technical requirements; prepare them to successfully navigate our quality assurance processes; and offer resources to help them be successful at building BUILT GREEN® homes.

Training credits:

**3 CPD points** through BC Housing, and **Master Building training credits** through Professional Home Builders Institute.

**Construction Technology for BUILT GREEN®** places emphasis on building science and building better, addressing the house as a system concept; the role of sustainable development in construction; how building science affects building durability and occupant comfort; the signs, symptoms, and solutions for good indoor air quality; building envelope details and how they contribute to heat, air, and moisture flows; and mechanical systems. There are 14 online modules, each with a downloadable study guide.

Training credits:

**20 CPD points** through BC Housing, and **Master Building training credits** through Professional Home Builders Institute.

## Display Your Two-In-One Home Certification

The BUILT GREEN® home certification seal is usually affixed to the furnace or electrical panel, along with the EnerGuide label from Natural Resources Canada.

These two labels offer validation to the energy efficiency and green features of the home and reinforce to the homebuyer that they've purchased their home from a quality builder.

*EnerGuide is an official mark of Natural Resources Canada; it's used with permission.*



## More Ways to Showcase Your Home's Certification



Did you know we have metal plaques for purchase to ramp up your home's certification: [builtgreencanada.ca/built-green-metal-plaques](http://builtgreencanada.ca/built-green-metal-plaques).

These can also be used as a book weight on a coffee or side table, as a magnet on the fridge, or as a focal point in a door wreath!

A plaque provides a conversation starter and reinforces the home's third-party certification—beyond the EnerGuide label and BUILT GREEN® seal, which are usually affixed to the home's furnace or electrical panel.

These metal plaques are available in bronze, silver, gold, platinum, and generic (no level identified).

## Save Your Customer 15% on Mortgage Insurance

Buying sustainable homes offers savings, making energy-efficient homes even more affordable for homebuyers. Single family new homes certified through Built Green Canada are automatically eligible for a partial mortgage loan insurance premium refund of 15%.

*Canada Mortgage & Housing Corporation and Genworth Canada offer a premium mortgage insurance refund of 15% to borrowers who either buy or build through Built Green Canada.*



For more information on how you can save by choosing a BUILT GREEN® home, you may visit the [CMHC Green Home Program / Genworth Canada's Energy-Efficient Housing Program](#).

Please direct your homebuyers to contact the Built Green office to obtain their

Building Certificate of Authenticity from Built Green Canada: [info@builtgreencanada.ca](mailto:info@builtgreencanada.ca) or toll-free 855.485.0920.

## Managing Construction Waste

Built Green Canada has an entire section of its programs devoted to waste management. Section 5 deals with the handling of waste materials on the construction site and encourages recycling.

According to Construction Specifications Canada, construction and demo waste make up 23 percent of society's overall waste and is the greatest producer of wood waste in North America. More than half of construction and demolition-related debris is recyclable or reusable and doesn't need to end up in landfills. Builders may assume that environmentally friendly practices will hurt their bottom line, but waste diversion can reduce disposal costs by up to 30 percent!



Photo courtesy of [Blackfish Homes](#), showing Sea to Sky's recycling stations.

### Tips for Greening Your Construction Site

- 1. Set up a designated recycling station.** Dedicate bins or a site area for diverting materials such as metal, cardboard, plastics, drywall, clean wood, and reusable building materials. Not only does taking metal to the scrap yard keep it out of the landfill, but you'll generate funds to help pay for end-of-the-week beers or treats for the crew. Win-win!
- 2. Encourage designs that create less waste.** Raise awareness of expected environmentally conscious waste management practices at the beginning of the project; we need to lead by example. Use standard sizes and qualities of materials and always plan ahead to reduce cut-offs and over-ordering, unless used items can be returned or donated.

### 3. Think twice before you toss it.

Could it be reused? Usable lumber up to 4 feet can be taken to not-for-profits like Habitat for Humanity ReStore—extra dimple mat or blue rigid insulation is also a great material to donate. Give them a call, and they will be sure to answer all of your donation questions!

**4. Deconstruction is the future.** Dismantle buildings rather than knock them down to increase the amount of undamaged materials that can be salvaged and donated.

### 5. Reusable mugs and bottles DO make an impact.

Invest in reusable mugs or bottles for your crew, since nearly half of the garbage collected on construction sites are from disposable coffee cups and single-use containers. As an extra step, supply a water service for your site.

**6. Be a recycling hero!** Take the lead on-site. Your provincial recycling association offers valuable resources and tools on waste reduction.

Small acts create big impact towards keeping your construction site clean and green! Plus, keeping recyclables out of landfills reduces waste management costs.

These tips are courtesy of Built Green Canada Supporting Member, [Sea to Sky Removal](#), the first waste hauling company in Canada to implement award-winning on-site recycling stations. Each station can divert nearly half a tonne (300 pounds) from the landfill, and their crews hand sort every load to ensure the maximum of recyclables are diverted. They donate reusable materials to non-profits, such as Habitat for Humanity ReStore. Builders can request a waste audit and photo documentation, so they know where their materials end up.

## Built Green in the News

Over the second quarter of 2018, related media coverage was picked up by a number of outlets, including the following:

BC Building Info x 2, Burnaby Now, Calgary Herald x 2, Collingwood Today, Construction Links x 2, Digital Journal, EIN News, Financial Post, Global Newswire, [www.homebuildercanada.ca](http://www.homebuildercanada.ca), Kelowna Now, Marketwatch, Montreal Gazette, NonProfit News, Powell River Peak, Rentfaster, [www.rosspavl.com/blog/go-green-with-calgary-green-homes.html](http://www.rosspavl.com/blog/go-green-with-calgary-green-homes.html), Stockguru.com, Sustainable Building & Design Magazine, The Glave Report, The Star Phoenix, Vancouver, Sun, Yahoo Biz, and Windsor Star.

## Supporting Members Can Help You

Supporting members are those working in the sustainable building sector, with similar goals as our builders: they could end up being collaborative partners, so be sure to check them out and make mutually beneficial connections!

They are responsible for products and services for the residential building industry and are required to meet membership criteria to be part of the Built Green Canada community.

[www.builtgreencanada.ca/find-a-supporting-member](http://www.builtgreencanada.ca/find-a-supporting-member)

## PRODUCT CATALOGUE CONNECTION

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The **BUILT GREEN® Product Catalogue** is an **online resource for builders and renovators** for use in sustainable construction.

Products have been approved by Built Green Canada, giving builders peace of mind and saving them time sourcing materials. Our programs are based on checklists that guide our builders to achieving BUILT GREEN® home certification, and those materials in our catalogue are tied to specific checklist items.

Below, our featured Product Catalogue contributors are listed with their BUILT GREEN® approved products. If used in your BUILT GREEN® project, these products earn checklist points.

### All Weather Windows

*Earning checklist points in Energy & Envelope and Materials & Methods*

- These windows are designed to suit Canada's climate and accommodate different styles and tastes. AWW's award-winning, quality crafted products are energy efficient (up to R8), cost effective, and CSA certified. (1.1.16, 2.3.4)
- Fiberglass doors insulate better than wood doors, last longer, and resist warping and cracking. (2.3.4)

### Plasti-Fab

*Earning checklist points in Energy & Envelope*

- The Advantage ICF System® is a patented insulating concrete forming system consisting of two layers of expanded polystyrene (EPS) insulation connected with web connectors molded into the EPS insulation. The top and bottom edges of Advantage ICF System® blocks have pre-formed interlocking mechanisms which ensure web connectors align vertically for attachment of surface finish materials. (1.1.3, 1.1.4)
- DuroFoam® insulation is a closed cell and moisture-resistant insulation with a green film laminated to one side, and a silver film on the other side. It is easy to install and can be used in many applications, with an R-value of 3.75/inch. The addition of the laminated film to the top and bottom surfaces of DuroFoam® insulation board provides a more durable product that is less susceptible to damage. (1.1.7, 1.1.8)
- EnerSpan® insulation is a rigid, closed cell, silver-gray insulation manufactured using Neopor® F5300 GPS Plus, a graphite-enhanced expandable polystyrene (GPS) raw material provided by BASF. The graphite within the silver-gray cellular structure of EnerSpan insulation reduces radiation heat transfer and results in an enhanced thermal resistance compared to standard white EPS insulation manufactured to CAN/ULC-S701. (1.1.7, 1.1.8)

### Tremco Barrier Solutions

*Earning checklist points in Materials & Methods*

- Watchdog Waterproofing is a cold applied, polymer modified, asphalt emulsion (water-based). It's spray applied, by certified contractors only, to provide an elastomeric waterproofing membrane to the exterior of foundation walls. Watchdog, with water being the primary carrier, can be successfully applied year round. (2.3.2)

### K2 Stone Quarries

*Earning checklist points in Materials & Methods and Business Practices*

- Ocean Pearl Natural Stone is a long lasting, durable, and natural product. It's quarried locally in Port Renfrew and processed in Nanaimo. Building products consist of thinstone veneer, full bed ledgerstone, and capping. Landscape products consist of flagstone, cobbles, wallstone and others. (2.2.11, 2.3.5, 2.3.9, and in some cases 7.6)

### IKO Industries Ltd.

*Earning checklist points in Materials & Methods, Business Practices*

- At IKO, the best-made shingles start simply, with quality materials and an eye for detail. Built right with solid construction and weather-resistant design, shingles are carefully crafted to highlight a home's beauty. These hardy, fiberglass shingles shield the home against the forces of mother nature. Shingles come with a limited 30-year warranty and are available in a wide range of colors. IKO offers a variety of BUILT GREEN® approved shingles to choose from. (2.3.1)

### Lafarge Canada

*Earning checklist points in Materials & Methods*

- Lafarge Ultragreen™, General Use, Ultragreen Plus, and UltraSustainability use by-products from other manufacturing industry such as fly ash and slag, at a 50% (70% in Ultragreen Plus) cement replacement. This reduces the overall environmental impact of these industry waste by-products, and reduces the overall carbon footprint of the concrete. Lafarge utilizes Portland Limestone Cement, which results in a 10% reduction in carbon dioxide emissions as compared to regular portland general-use cement. (2.1.8, 2.2.4)

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### Save Time On Product Sourcing!

View all products approved for use in our programs by visiting the Product Catalogue: [www.builtgreencanada.ca/product-catalogue](http://www.builtgreencanada.ca/product-catalogue)