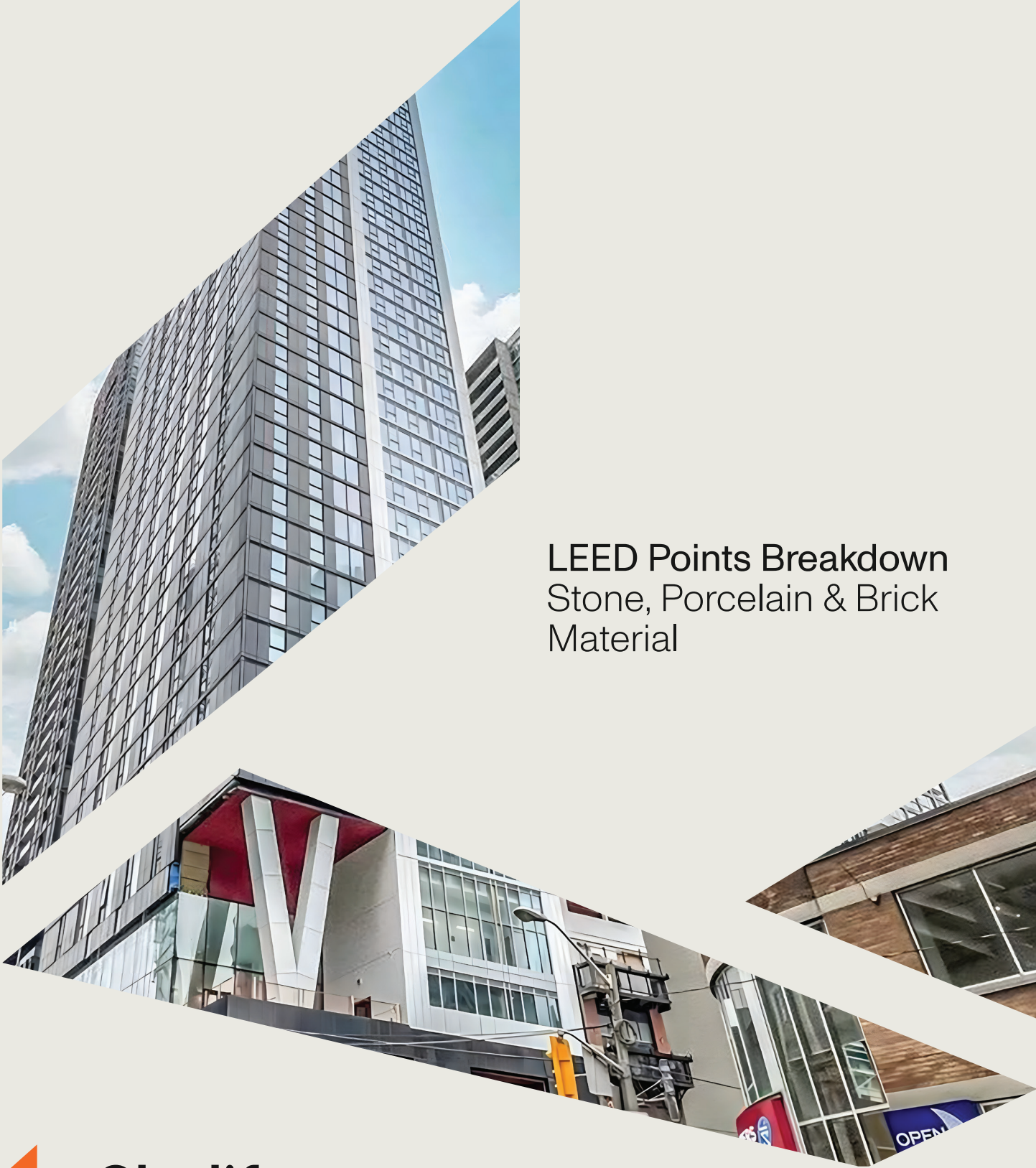




LEED Points Breakdown Stone, Porcelain & Brick Material



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1. About LEED (Leadership in Energy and Environmental Design)

LEED (Leadership in Energy and Environmental Design) is a green building certification program developed by the U.S. Green Building Council (USGBC). It provides a framework for designing, constructing, operating, and maintaining environmentally sustainable buildings. This report is based on LEED v4.1 Building Design and Construction for New Construction but can be interpreted for other LEED criteria.

LEED certification is based on a point system where projects earn points for incorporating various sustainable design and construction strategies. The more points a project earns, the higher the level of LEED certification it can achieve.

There are four levels of certification:

- Certified: 40-49 points
- Silver: 50-59 points
- Gold: 60-79 points
- Platinum: 80+ points

LEED evaluates building performance across eight categories, known as LEED credit categories. Each category addresses specific aspects of building sustainability.

Category	Description	Maximum Points Available	Points Cladify Can Contribute
Location And Transportation	This category encourages projects that are located in sustainable sites, promote alternative transportation options, and minimize the impact on ecosystems and water resources.	16	0
Sustainable Sites	This category focuses on the design, construction, and maintenance practices that minimize the impact on the site and its surroundings. It addresses issues such as site selection, storm water management, and landscaping.	10	0
Water Efficiency	This category promotes strategies for reducing water consumption, improving water efficiency, and using alternative water sources. It covers areas such as water-efficient fixtures, irrigation systems, and water metering.	11	0
Energy And Atmosphere	This category emphasizes energy performance, energy efficiency, and the use of renewable and clean energy sources. It includes criteria for building systems, equipment, and energy modeling.	33	Up To 13
Materials And Resources	This category focuses on sustainable material selection, waste reduction, and recycling practices. It addresses issues such as construction waste management, recycled content, and life-cycle assessments.	13	Up To 11
Indoor Environmental Quality	This category promotes a healthy and comfortable indoor environment by addressing factors such as indoor air quality, lighting, and thermal comfort. It includes criteria for ventilation, low-emitting materials, and occupant comfort.	16	Up To 3
Innovation	This category recognizes innovative strategies and practices that go beyond the existing LEED requirements. It encourages projects to push the boundaries of sustainability and environmental performance.	6	Up To 2
Regional Priority	This category allows regions to identify and prioritize specific environmental issues that are unique to their location. It encourages projects to address these priorities and earn additional points.	4	0
Cladify Cladding Contribution		Up To 29 Points	

2. Cladify And LEED Points

The Cladify cladding product can contribute to the following categories: EA, MR, EQ and IN.

2.1 Energy and Atmosphere:

Optimize Energy Performance (Up to 13 Points):

Intent: Optimize Energy Performance credit is aimed at promoting energy efficiency in building design and operation. The number of points awarded for this credit depends on the percentage improvement in energy performance achieved compared to a baseline building.

Requirements: Points are awarded based on two metrics. This is the percentage improvement in energy performance based on cost (9 points) and based on green house gas emissions (GHG) (9 points). Generally, higher levels of energy efficiency lead to more points.

For Cost:

- 1 point: 5% improvement
- 2 points: 10% improvement
- 5 points: 25% improvement
- 9 points: 45% improvement

For GHG:

- 1 point: 5% improvement
- 2 points: 10% improvement
- 5 points: 32% improvement
- 9 points: 80% improvement

Solution: The flexible cladding system with thermal breaks can accommodate varying thicknesses of insulation to improve the energy performance of the building and thereby grant additional credits.

2.2 Material and Resources:

Building Life-Cycle Impact Reduction (Up to 5 Points):

Intent: The objective is to promote the adaptive reuse of materials and maximize the environmental performance of products, fostering sustainability and resource optimization.

Requirements: By reusing a percentage of existing walls, floors and roof by a project area, points are awarded. Point allocation is as follows:

- 1 point: 15%
- 2 points: 30%
- 3 points: 45%
- 4 points: 60%
- 5 points: 75%

Solution: Cladify cladding is lightweight and can be applied over existing walls. In this sense, the existing walls are reused.

Environmental Product Declarations (Up to 2 Points):

Intent: To encourage use of products with documented life-cycle information and positive environmental, economic, and social impacts, while rewarding selection of manufacturers with verified sustainability improvements.

Requirements: Use at least 10 products from 3 manufacturers with applicable environmental product declarations for one point. Use at least 5 products from 3 manufacturers with a compliant embodied carbon optimization report for another point.

Solution: Verified EPD in progress.

Construction and Demolition Waste Management (Up to 2 Points):

Intent: The purpose of this is to reduce construction and demolition waste disposed in landfills and incineration facilities.

Requirements: Two points can be achieved by diverting at least 50% of all renovation and demolition waste and generating less than 10lbs/ft² or 50kg/m² of waste from all construction activities.

Solution: Cladify cladding is a prefabricated product which generates minimal construction waste. This cladding is predominately made of aluminum and stone which can be recycled. Stone can also be crushed and used on site as filler. The panels can also be cut on site to minimize weight and enhance flexibility.

- Energy performance by accommodating thicker or higher quality insulation
- Design flexibility

3. Conclusion

In total, **Cladify cladding can contribute up to 29 points** to LEED certification.

Sourcing of Raw Materials (Up to 1/2 Points):

Intent: To promote the adoption of products and materials with accessible life cycle information, ensuring they possess environmentally, economically, and socially beneficial impacts throughout their life cycle. Additionally, incentivize project teams for choosing products verified to be responsibly extracted or sourced.

Requirements: For 1 point, use products sourced from three different manufacturers which meet at least one of the responsible sourcing and extraction criteria for at least 15% by cost of the total value of permanently installed building products.

Solution: A typical 2" honeycomb panel will help qualify for 1 point as the recycled content is at least 15%.

- Aluminum Weight: 35%
- Post Consumer Recycle Content: 12.5%
- Pre-Consumer Recycle Content: 65%

Total (100% post consumer + 50% pre consumer recycle content): 15.75%

2.3 Indoor Environmental Quality:**Low-emitting materials (Up to 3 Points):**

Intent: The goal is to reduce concentration of chemical contaminants that can damage the air quality and environment.

Requirements: 3 points can be achieved by having 3 product categories at the 90% threshold or by having 4+ categories above 75%. The categories that apply to our product are the wall panels and insulation.

Solution: All our products are inherently non-emitting sources. As the panel preassembled, there are no adhesives or harmful VOCs which could be introduced onsite which could be caused by paint, coatings, or adhesives.

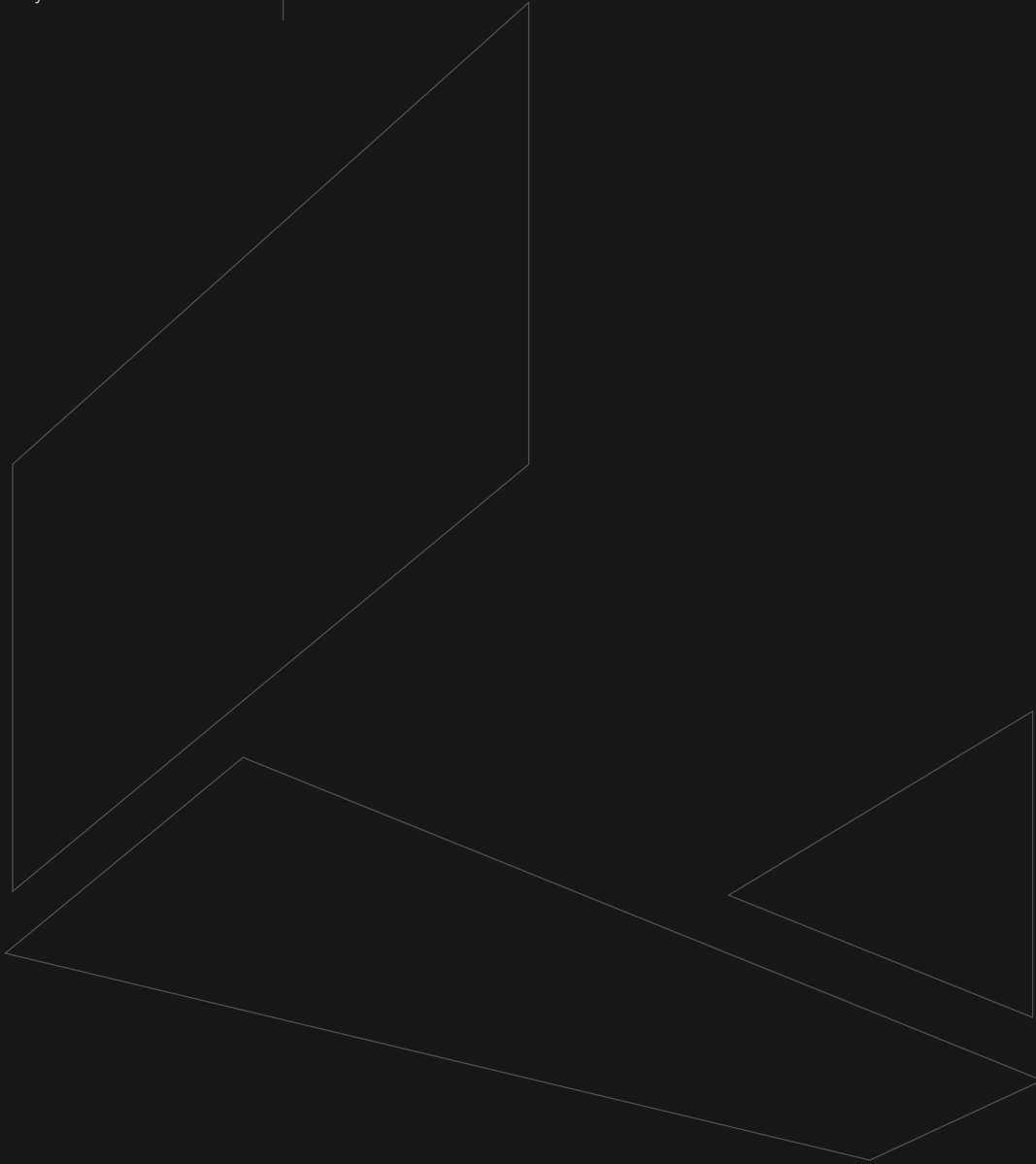
2.4 Innovation:**Innovation (Up to 2 Points):**

Intent: The objective is to promote exceptional or innovative performance in projects to enhance human and environmental health, equity, and foster LEED expertise across building design, construction, and operation while encouraging collaboration to address project priorities.

Requirements: Exceptional performance from existing categories can contribute two points.

Solution: Cladify can contribute in multiple areas.

- Structural optimization by minimizing the weight of panels
- Material optimization by minimizing the volume of stone and the ability to cut on site
- Enhanced durability



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