

USGBC LEED-New Construction v3 is a comprehensive Sustainable Building program for commercial projects covering the following design and process categories:

- Sustainable Sites
- Water Efficiency
- Energy & Atmosphere
- Materials & Resources
- Indoor Environmental Quality
- Innovation in Design
- Regional Priority

Each category contains multiple credit point guidelines for a project team to consider during design, construction, and function of the building. The credit points are then compiled in order to achieve one of four levels of certification; Certified, Silver, Gold and Platinum. Andersen patio doors and windows can be leveraged as part of the design team strategy to pursue the following USGBC LEED-New Construction credits:

Energy & Atmosphere

- **EA Prerequisite 2 Minimum Energy Performance**
Design the building project in order to demonstrate a 10% improvement in the proposed building performance rating for the new buildings, or a 5% improvement for major renovations to existing buildings, compared with the baseline building performance. Calculate the baseline building performance rating according to Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007.

Andersen product having acceptable U-values and SHGC can help to achieve minimum required energy performance as calculated in computer modeling for whole building energy simulation.

- **EA 1 Optimize Energy Performance**
Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use. Demonstrate a percentage improvement in the proposed building performance rating compared to the baseline as calculated according to Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007.

Andersen product having acceptable U-values and SHGC can help to exceed minimum required energy performance as calculated in computer modeling for whole building energy simulation. Points are awarded for building performance at specific percentage levels above baseline requirement.

- **EA 2 On-site Renewable Energy**

Encourage and recognize increasing levels of on-site renewable energy self-supply in order to reduce environmental and economic impacts associated with fossil fuel energy use.

Andersen products utilized in passive solar design can help reduce the overall energy requirements for the building and therefore aid at increasing the overall contribution percentage of on-site energy production based on the reduced total need.

- **EA 6 Green Power**

Encourage the development and use of grid-source, renewable energy technologies on a net zero pollution basis.

Andersen products utilized in building design to reduce heating/cooling requirements could potentially reduce overall need for grid power and therefore increase green grid power percentage.

Materials and Resources

- **MR 2.1 Construction Waste Management**

Recycle and/or salvage at least 50% of non-hazardous construction and demolition debris.

Andersen packaging materials are recyclable or have minimal non-recyclable components, helping to reduce landfill contributions during construction.

- **MR 2.2 Construction Waste Management**

Recycle and/or salvage at least 75% of non-hazardous construction and demolition debris.

Andersen packaging materials are recyclable or have minimal non-recyclable components, helping to reduce landfill contributions during construction.

- **MR 4.1 Recycled Content**

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

Andersen 200 series, 400 series and Architectural series products have independent certifications for percentage of Pre-consumer recycled content based on NFRC sizes. Materials meeting definition of "Pre-consumer" content are glass and Fibrex components. Percent of Pre-consumer recycle content is applied to the sold cost of product(s) and added to an overall total recycled content value of contributing project materials. This credit requires 10% recycled content value based on a total of Post-consumer recycle content value plus ½ Pre-consumer recycled content value.

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- **MR 5.1 Regional Materials**

Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Projects within 500 miles of Bayport, Minnesota can utilize the value of glass and Fibrex content to help achieve this credit. Glass and Fibrex components used in Andersen 200 and 400 series products are made of material extracted and manufactured within 500 miles of final unit assembly. The percentage of glass and Fibrex content, by weight, would be applied to the sold cost of the product(s) and then added to the Regional Materials total value. This credit requires 10% minimum Regional Materials value as a percentage of total project materials value.

- **MR 5.2 Regional Materials**

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Projects within 500 miles of Bayport, Minnesota can utilize the value of glass and Fibrex content to help achieve this credit. Glass and Fibrex components used in Andersen 200 and 400 series products are made of material extracted and manufactured within 500 miles of final unit assembly. The percentage of glass and Fibrex content, by weight, would be applied to the sold cost of the product(s) and then added to the Regional Materials total value. This credit requires 20% minimum Regional Materials value as a percentage of total project materials value.

- **MR 7 Certified Wood (FSC)**

Encourage environmentally responsible forest management. Use a minimum of 50% of wood-based materials and products, which are certified in accordance with the Forrester Stewardship Council’s (FSC) Principals and Criteria, for wood building components.

Andersen 200 series and 400 series can be manufactured with FSC pine wood-based components. The percentage of the FSC wood-base material, based on weight of an NFRC sized unit, is applied to the sold cost of the product(s) and then added to the project total FSC value.

Indoor Environmental Quality

- **EQ Prerequisite 1 Minimum IAQ Performance**

Establish minimum indoor air quality (IAQ) performance to prevent the development of indoor air quality problems in buildings, thus contributing to the comfort and well-being of the occupants. This can be accomplished through two methods: mechanically ventilated and naturally ventilated. Naturally ventilated buildings must comply with ASHRAE Standard 62.1-2007, paragraph 5.1.

Andersen operating window products can contribute should the project utilize the naturally ventilated method for IAQ during occupancy.

- **EQ 2 Increased Ventilation**

Provide additional outdoor air ventilation to improve indoor air quality for improved occupant comfort, well-being and productivity. This can be accomplished through two methods: mechanically ventilated and naturally ventilated. Naturally ventilated buildings must comply with the Carbon Trust Good Practice Guide 237 (1998).

Andersen operating window products can contribute should the project utilize the naturally ventilated method for IAQ during occupancy.

- **EQ 4.1 Low-Emitting Materials: Adhesives & Sealants**

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well being of installers and occupants. This credit applies to site-applied adhesives and sealants.

Andersen 200 series, 400 series and Architectural series have been independently certified to achieve Scientific Certification System’s “Indoor Advantage Gold”. This rating meets or exceeds CA section 01350 specifications.

- **EQ 4.2 Low-Emitting Materials: Paints and Coatings**

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well being of installers and occupants. This credit applies to site-applied paints and coatings.

The use of factory finished products minimizes risk from site-applied finishes. See note in EQ 4.1.

- **EQ 4.4 Low-Emitting Materials: Composite Wood & Agrifiber Products**

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well being of installers and occupants. This credit applies to urea-formaldehyde to be absent from composite wood and agrifiber products.

Andersen 200 series, 400 series and Architectural series products contain no added urea-formaldehyde wood composite components. See note in EQ 4.1.

- **EQ 6.1 Controllability of Systems: Lighting**

Provide a high level of lighting system control by individual occupants or by specific groups in multi-occupant spaces to promote the productivity, comfort and well-being of building occupants. Credit requires 90% (minimum) of occupants have lighting control.

Andersen products utilized in the building design can promote daylighting and reduce the overall need for lighting. This can help ensure 90% (minimum) of occupants have lighting control.

- **EQ 6.2 Controllability of Systems: Thermal Comfort**

Provide a high level of thermal comfort system control by individual occupants or by specific groups in multi-occupant spaces to promote the productivity, comfort and well-being of building occupants. Credit requires 50% (minimum) of occupants have thermal control. The areas of operable window must meet the requirements of ASHRAE Standard 62.1-2007 paragraph 5.1 Natural Ventilation.

Andersen products and their thermal performance, utilized in the building design, can help to increase overall ventilation and help reduce or enhance the overall heating/cooling requirements. This can help ensure 50% (minimum) of occupants have thermal control.

- **EQ 7.1 Thermal Comfort: Design**

Provide a comfortable thermal environment that supports the productivity and well being of building occupants.

Andersen products and their thermal performance, utilized in the building design, can help to reduce and/or enhance the overall heating/cooling requirements.

- **EQ 8.1 Daylight & Views: Daylight 75% of Spaces**

Provide the building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight into 75% (minimum) of regularly occupied areas of the building.

Andersen products utilized in the building design can help to ensure daylight for 75% (minimum) of regularly occupied areas.

- **EQ 8.2 Daylight & Views: Views for 90% of Spaces**

Provide the building occupants with a connection between indoor spaces and the outdoors through the introduction of views into 90% (minimum) of the regularly occupied areas of the building.

Andersen products utilized in the building design can help to ensure views for 90% (minimum) of the regularly areas.