



*Clearly the best.®*

1/26/2018

Milgard® Products can help earn LEED v 4 credits in the categories below.

## **ENERGY & ATMOSPHERE**

### **EA Prerequisite 2 MINIMUM ENERGY PERFORMANCE**

All Milgard® Vinyl and Fiberglass Products can meet the ASHRAE/IESNA Standard 90.1-2010. All Milgard products have Milgard's SunCoat® low-E glass, and additional energy upgrades are available to meet or exceed the minimum standard. Milgard window and door performance values are NFRC certified.

### **EA Credit 2 OPTIMIZE ENERGY PERFORMANCE**

Milgard offers many products that meet or exceed LEED v4 energy requirements in each of the climate zones. In addition, Milgard offers energy package upgrades that meet or exceed ENERGY STAR® qualifications with dual and triple glazed windows. For specific u-factor and SHGC performance values of all Milgard products, contact your sales representative or visit the Energy Calculator section on Milgard.com.

### **EA Credit 5 RENEWABLE ENERGY PRODUCTION**

As referenced above, Milgard window and door performance values are NFRC certified and can be used in building envelope modeling to achieve desired goals of this section.

1/26/18

## **MATERIALS AND RESOURCES**

### **MR Prerequisite 2 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PLANNING**

Milgard packaging materials are recyclable or have minimal non-recyclable components, helping to reduce landfill waste disposed of during construction.

### **MR Credit 3 and 4 BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION**

For all Milgard® windows and doors, glass is 42% -72% of the weight of the average window or door. The majority of glass used in fenestration contains cullet, or in-process recycled glass, which does not contribute toward the recycled content calculations (as it is considered Industrial recycled content and would not normally enter the waste stream).

The majority of glass is sourced locally to our window manufacturing facilities. Please see your local Milgard rep for estimations of locally extracted products based on your project location.

Milgard Vinyl Windows contain 8%-10% pre-consumer recycled content of vinyl. Vinyl is approximately 35% of the weight of the average window and 31% of the weight of the average door. Therefore, as a weighted percentage, Milgard vinyl windows contain 2.8-3.5% in pre-consumer recycled content in windows and 2.4%-3.1% pre-consumer recycled content in doors.

Milgard currently manufactures windows and doors in 3 facilities in the Pacific Northwest (Tacoma, WA and Portland, OR), 3 facilities in California (Sacramento, Simi Valley and Temecula CA), 1 facility in Aurora (Denver Metro Area), CO and 1 facility in Texas (Dallas/Fort Worth Metro Area). This geographical footprint covers approximately more than 25% of the nation in terms of sourcing of Regional Materials for LEED projects.

### **MR Credit 5 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT**

Milgard packaging materials are recyclable or have minimal non-recyclable components, helping to reduce landfill waste disposed of during construction.

1/26/18

## **INDOOR ENVIRONMENTAL QUALITY**

### **EQ Prerequisite 1 MINIMUM INDOOR AIR QUALITY PERFORMANCE**

Including operable windows in a building may assist in meeting the Indoor Air Quality Performance prerequisite of ASHRAE standard 62.1-2010.

### **EQ Credit 1 ENHANCED INDOOR AIR QUALITY STRATEGIES**

Operable windows can play an integral role. In order to receive credit for including specific strategies for naturally ventilated spaces.

### **EQ Credit 2 LOW-EMITTING MATERIALS**

Milgard fiberglass Ultra™ products are delivered with factory applied water based paint with low VOCs, meeting Green Seal Standard GS-11.

Milgard Essence™ products are finished using a dry Powder Coat process, specifically developed for fiberglass products. The powder is a Zero VOC emissions finish that provides products with an attractive and extremely durable surface.

Milgard vinyl products do not off-gas.

### **EQ Credit 5 THERMAL COMFORT**

Milgard operable windows can play an important role in contributing to earning this credit. Milgard products certified for thermal performance that are utilized in the building design can help occupants have greater thermal control.

### **EQ Credit 7 DAYLIGHT**

Milgard windows and doors play an integral role in achieving this credit and maximizing daylighting.

### **EQ Credit 8 QUALITY VIEWS**

Milgard windows and doors play an integral role in achieving a direct line of sight to the outdoors via vision glazing.

### **EQ Credit 9 ACOUSTIC PERFORMANCE**

Milgard windows and doors are tested for Sound Transmission Class (STC) and Outdoor/Indoor Transmission Class (OITC) ratings. For specific STC and OITC performance ratings of all Milgard products, contact your sales representative.