



# RavenWindow®: LEED® V4 DATA SHEET

Make the transition... Intuitive. Logical. Smart.

**Primary use:**

RavenWindow is a thermochromic technology. It is applied at the window fabricator level, on the outboard pane of glass in an insulating glass unit (IGU).

The thermochromic filter is clear in its initial state, but responds to the outdoor temperature to go into a tinted state when solar heat gain is not desired. The set point for the temperature is customizable and is programmed at the time of manufacture.

**Manufactured by:**

RavenBrick LLC | 3950 Kearney Street | Denver, CO 80207 | 303-984-7490

**Energy and Atmosphere**

**Credits**

**LEED Rating System**

Building Design and Construction (BD+C)  
Operations and Maintenance (O+M)

New Construction (1-19 pts)  
Schools (1-19 pts)  
Core and Shell (3-21 pts)  
Healthcare (1-24 pts)  
Operations and Maintenance (1-18 pts)

**EA Prerequisite Minimum Energy Performance**

**EA Credit Optimize Energy Performance**

The RavenWindow thermochromic filter lowers unwanted solar heat gain on the interior of the building during hot months, but allows for increased solar heat gain during cooler months when it is desired. The technology can as much as double the energy savings of the leading energy-efficient window.

For windows of existing buildings, the existing insulated glass may be retrofitted with units that have the RavenWindow filter in order to improve the energy efficiency of the building.

**Examples of Solar Heat Gain Coefficient\***

**Raven Window Paired with Double Silver low-E**

Clear State = 0.252

Tinted State = 0.155

**Raven Window Paired with Triple Silver low-E**

Clear State = 0.184

Tinted State = 0.104

\*Exact values will depend on the IGU used and the programmed set temperature point for the filter.

### LEED Rating Systems

Building Design and  
Construction (BD+C)  
Operations and  
Maintenance (O+M)

New Construction (1-2 pts)  
Schools (1-2 pt)  
Core and Shell (1 pt)  
Healthcare (1 pt)  
Operations and  
Maintenance (1 pt)

### EQ Credit Thermal Comfort

The Thermal Comfort family of credits in LEED addresses design strategies to create a comfortable interior environment, referencing ASHRAE 55-2010 to address the primary comfort factors, including the mean radiant temperature. The RavenWindow filter helps to maintain a moderate temperature on the surface of the interior glass which enhances occupant comfort by providing an acceptable mean radiant temperature for the space.

Existing buildings, or new construction responding to occupant feedback, can replace existing glazing with RavenWindow insulated units in response to otherwise intractable comfort issues.

### LEED Rating Systems

Building Design and  
Construction (BD+C)  
Operations and  
Maintenance (O+M)

New Construction (1 pt)  
Schools (1-3 pts)  
Core and Shell (1 pt)  
Healthcare (2 pts)

### EQ Credit Daylight (BD+C)

#### EQ Credit Daylight and Quality Views (O+M)

Because the RavenWindow filter manages solar heat gain automatically by changing tints in response to ambient conditions, there is no need for occupants to lower blinds during the hot, sunny months. Daylighting can be achieved year round, without the negative effects of glare or heat gain.

### LEED Rating Systems

Building Design and  
Construction (BD+C)  
Operations and  
Maintenance (O+M)

New Construction (1 pt)  
Schools (1 pt)  
Core and Shell (1 pt)  
Healthcare (1-3 pt)

### EQ Credit Quality Views (BD+C)

#### EQ Credit Daylight and Quality Views (O+M)

Because the RavenWindow filter manages solar heat gain automatically by changing tints in response to ambient conditions, there is no need for occupants to lower blinds during the hot, sunny months. Views can be achieved year round, without the negative effects of glare or heat gain.