



RHEINZINK AND LEED™

SUSTAINABLE BUILDING WITH RHEINZINK



University of Calgary, Children's Development Centre, Calgary, Alberta, Canada  
LEED™ Platinum Certified – Kasian Architecture, Calgary

Ideal for roofing, façade cladding, and gutter applications, RHEINZINK is an alloyed zinc allowing innovative inspiration while minimizing the project's carbon footprint. Available in bright rolled, "preweathered<sup>PRO</sup> blue-grey" and "preweathered<sup>PRO</sup> graphite-grey", there is no paint or coating to wear away; it is a natural patina that will stand the test of time for generations to come.

#### Why RHEINZINK?

- Sustainable
- Recyclable
- Corrosion Resistant
- Self-healing, natural surface
- Non-combustible
- Low-to-no maintenance

#### Sustainable Sites (SS)

##### SS Credit 6.1 –

##### Stormwater Design – Quantity Control

**Goal** – Limit disruption of natural hydrology from storm water runoff

**Solution** – Use RHEINZINK rainwater goods to harvest storm water for landscape irrigation, fire suppression, toilet flushing, and custodial uses.

##### SS Credit 6.2 -

##### Stormwater Design – Quality Control

**Goal** – Limit disruption and pollution of natural water flows by managing storm water runoff

**Solution** – Use RHEINZINK rainwater goods for an irrigation and treatment strategy that includes collecting rainwater from roofs and distributing it into bio-swales and rain gardens.

##### SS Credit 7.1 –

##### Heat Island Effect – Non Roof\*

**Goal** – Reduce heat islands to minimize impacts on microclimates

**Solution** – Use RHEINZINK sheets and coils with their solar reflectance index (SRI) of 66 for bright rolled\* and RHEINZINK-Solar PV Panels to cover architectural structures that provide shade for sidewalks, courtyards and parking lots.

##### SS Credit 7.2 –

##### Heat Island Effect – Roof

**Goal** – Reduce heat islands to minimize impacts on microclimates

**Solution** – Use RHEINZINK sheets and coils for a roof with a Solar Reflectance Index of 66 for bright rolled\*

##### SS Credit 9 –

##### Tenant Design and Construction Guidelines

**Goal** – Encourage tenants to use environmentally friendly materials and practices.

**Solution** – Use 100% recyclable RHEINZINK sheets and coils, which have substantial recycled content and very low embodied energy.

#### Water Efficiency (WE)

##### WE Prerequisite 1 –

##### Water Use Reduction

**Goal** – Use 20% less water than the water use baseline (not including irrigation).

**Solution** – Use RHEINZINK rainwater goods for capturing rainwater for reuse in flushing toilets, and for custodial uses

Title page photo:

Laurance Rockefeller Preserve, Grand Teton National Park, Wyoming, USA  
LEED™ Platinum Certified – Carney Logan Burke Architects, Jackson, WY, USA

\*ASTM 1980 testing method





RHEINZINK-bright rolled

RHEINZINK-“preweathered<sup>PRO</sup> blue-grey”

RHEINZINK-“preweathered<sup>PRO</sup> graphite-grey”

**WE Credit 1 –  
Water Efficient Landscaping**

**Goal** – Reduce potable water used for irrigation by 50%

**Solution** – Use RHEINZINK rainwater goods for capturing rainwater for landscaping irrigation.

**WE Credit 2 –  
Innovative Wastewater Technologies**

**Goal** – Reduce potable water use for building sewage conveyance by 50%

**Solution** – Use RHEINZINK rainwater goods for capturing rainwater for reuse in flushing toilets.

**WE Credit 3 –  
Water Use Reduction**

**Goal** – Reduce overall potable water use by 30% (1 pt.), 35% (2pts.), or 40% (3pts.)

**Solution** – Use RHEINZINK Rainwater goods to harvest storm water for landscape irrigation, fire suppression, toilet flushing, and custodial uses.

**WE Credit 4 –  
Process Water Use Reduction**

**Goal** – Reduce or eliminate use of potable water for process water

**Solution** – Use RHEINZINK Rainwater goods to harvest storm water for clothes washers, dishwashers, ice machines, food steamers, and HVAC equipment

**Energy and Atmosphere (EA)**

**EA Credit 1 –  
Optimize Energy Performance**

**Goal** – Reduce energy use in building operation through a variety of means

**Solution** – Generate renewable energy with RHEINZINK-SolareThermie systems for building heating and RHEINZINK-Solar PV Panels for building electric power.

**EA Credit 2 –  
On Site Renewable Energy**

**Goal** – Reduce energy use in building operation through on site renewable energy

**Solution** – Generate on site renewable energy with RHEINZINK-Solare-Thermie systems for building heating and RHEINZINK-Solar PV Panels for building electric power

**Materials and Resources (MR)**

**MR Credit 2 –  
Construction Waste Management**

**Goal** – Divert construction and demolition debris from disposal in landfills and incineration facilities through recycling or salvaging

**Solution** – RHEINZINK trimmings are 100% recyclable.

**MR Credit 4 –  
Recycled Content**

**Goal** – Use materials with recycled content such that the value of the recycled content of the materials represents at least 10% of the total value of the materials for 1 point or 20% for 2 points.

**Solution** – RHEINZINK contains at least 10% post consumer recycled content.

**Indoor Environmental Quality (IEQ)**

**IEQ Credit 4.6 –  
Low Emitting Materials –  
Ceiling and Wall Systems**

**Goal** – Reduce the quantity of indoor air contaminants.

**Solution** – Use V.O.C. free RHEINZINK uncoated sheets and coils for interior wall coverings, countertops and ceiling panels.

**Innovative Design (ID)**

**ID Credit 1 –  
Innovation in Design**

**Goal** – Employ sustainable strategies not specifically addressed in other LEED credits

**Solution** – Use RHEINZINK with its ISO 14040 Life Cycle Assessment for all non glazed building envelope surfaces.

Reference: LEED 3.0

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