



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^{PRO} blue-gray" and "preweathered^{PRO} graphite-gray", 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

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

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 bioswales 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-PV Solar 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.

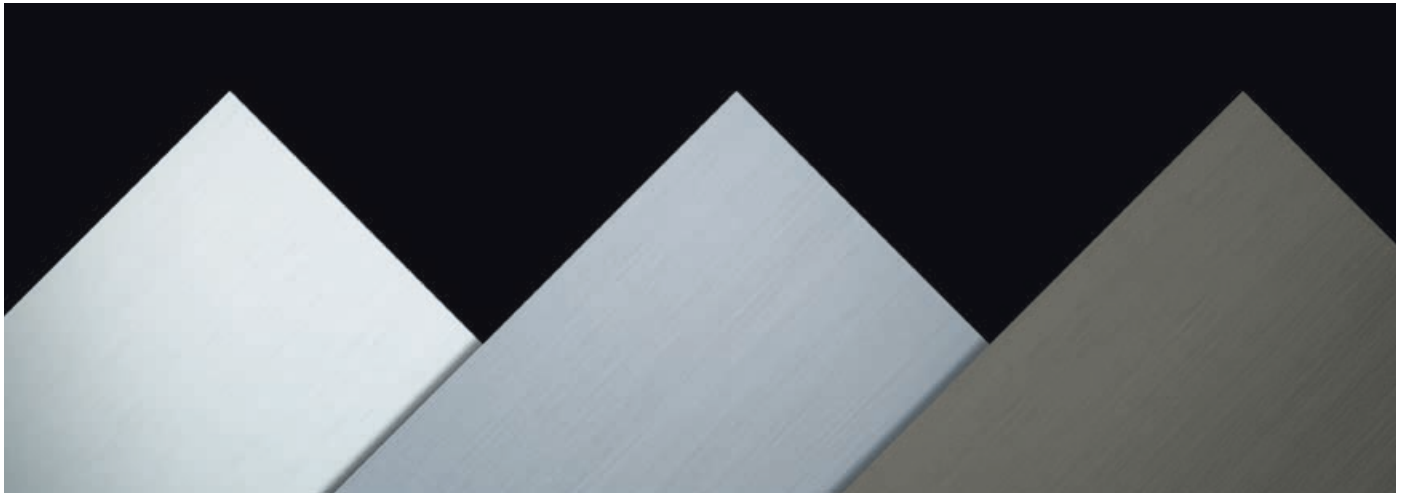
WE Credit 1 –

Water Efficient Landscaping

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

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

*ASTM 1980 testing method



RHEINZINK-bright rolled

RHEINZINK-“preweathered^{pro} blue-gray”

RHEINZINK-“preweathered^{pro} graphite-gray”

**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 Solare Thermie systems for building heating and RHEINZINK Photo Voltaic Roof 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 Photo Voltaic Roof 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.



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