



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, blue-grey and graphite-grey. RHEINZINK titanium zinc is declared as an environmentally friendly building product by the German Institute of Construction and Environment (Institut Bauen und Umwelt e.V.), based on ISO 21930 and ISO 14025 Type III.

Why RHEINZINK?

- Sustainable
- Recyclable
- Corrosion Resistant
- Natural Material
- 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 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 prePATINA bright rolled*, 48 for PROTECT blue-grey* and 45 for PROTECT graphite-grey*.

SS Credit 7.2 –

Heat Island Effect – 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 prePATINA bright rolled*, 48 for PROTECT blue-grey* and 45 for PROTECT graphite-grey*

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



**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 Solare Thermie systems for building heating and by utilizing 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 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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