



RHEINZINK AND LEED™ - v4

SUSTAINABLE BUILDING WITH RHEINZINK



Edmonton International Airport, Edmonton, Alberta, Canada – LEED™ Silver
 DIALOG Architects, Edmonton, AB, Canada
 Application: Flat Lock Tiles, RHEINZINK-prePATINA blue-grey



Loyola Marymount University (LMU), Los Angeles, CA, USA
 LEED™ Gold – CO Architects, Los Angeles, CA, USA
 Application: Perforated, RHEINZINK-prePATINA blue-grey

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, bluegrey 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

BUILDING DESIGN and CONSTRUCTION

SS CREDIT: RAINWATER MANAGEMENT

Intent – To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region.

Solution – Use RHEINZINK rainwater goods for storm water management and Low impact development.

SS CREDIT: HEAT ISLAND REDUCTION

Intent – To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.

Solution – Use RHEINZINK sheets and coils for architectural shade devices, roofing, or covered parking.

SS CREDIT: SITE MASTER PLAN

Intent – To ensure that the sustainable site benefits achieved by the project continue, regardless of future changes in programs or demographics.

Solution – Use RHEINZINK rainwater goods for rainwater management and/or RHEINZINK sheets and coils for shade devices, roofing, or covered parking.

WE CREDIT: OUTDOOR WATER USE REDUCTION

Intent – To reduce outdoor water consumption.

Solution – Use RHEINZINK rainwater goods for irrigation water collection to reduce outdoor water consumption.

WE CREDIT: INDOOR WATER USE REDUCTION

Intent – To reduce indoor water consumption.

Solution – Use RHEINZINK rainwater goods for rainwater harvesting to reduce indoor water consumption.

WE CREDIT: COOLING TOWER WATER USE

Intent – To conserve water used for cooling tower make while controlling microbes, corrosion, and scale in the condenser water system.

Solution – Use RHEINZINK rainwater goods for rainwater harvesting to reduce potable water use for cooling towers.



RHEINZINK-prePATINA bright rolled, RHEINZINK-prePATINA blue-grey and RHEINZINK-prePATINA graphite-grey

MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION – SOURCING OF RAW MATERIALS

Intent – To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Solution – Use RHEINZINK sheets, coils, and drainage goods which have been declared an environmentally friendly building product by the Institut für Bauen und Umwelt e.V.

MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION – MATERIAL INGREDIENTS

Intent – To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project

teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

Solution – RHEINZINK rainwater goods and sheets and coils have been certified at Bronze Level of Cradle to Cradle Version 3.

MR CREDIT: PBT SOURCE REDUCTION – LEAD, CADMIUM, AND COPPER

Intent – To reduce the release of persistent, bioaccumulative, and toxic (PBT) chemicals associated with the life cycle of building materials.

Solution – Use lead free RHEINZINK sheets and coils for roofing and flashing.

INTERIOR DESIGN and CONSTRUCTION

WE CREDIT: INDOOR WATER USE REDUCTION

Intent – To reduce indoor water consumption.

Solution – Use RHEINZINK rainwater goods for rainwater harvesting to reduce indoor water consumption.

MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION – SOURCING OF RAW MATERIALS

Intent – To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

Solution – Use RHEINZINK sheets, coils, and drainage goods which have been declared an environmentally friendly building product by the Institut für Bauen und Umwelt e.V.



Laurance Rockefeller Preserve, Grand Teton National Park, Wyoming, USA
 LEED™ Platinum Certified – Carney Logan Burke Architects, Jackson, WY, USA
 Application: Double Standing Seam Panels, RHEINZINK-prePATINA graphite-grey

MR CREDIT: BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION – MATERIAL INGREDIENTS

Intent – To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

Solution – Use RHEINZINK rainwater goods and sheets and coils which have been certified at Bronze Level of Cradle to Cradle Version 3.

BUILDING OPERATIONS and MANAGEMENT

SS CREDIT: RAINWATER MANAGEMENT

Intent – To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region.

Solution – Use RHEINZINK rainwater goods for storm water management and Low impact development.

SS CREDIT: HEAT ISLAND REDUCTION

Intent – To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.

Solution – Use RHEINZINK sheets and coils for architectural shade devices, roofing, or covered parking.

SS CREDIT: SITE IMPROVEMENT PLAN

Intent – To preserve and improve ecological integrity while supporting high-performance building operations.

Solution – Reduce indoor and outdoor water consumption with RHEINZINK gutters and downspouts.

WE CREDIT: OUTDOOR WATER USE REDUCTION

Intent – To reduce outdoor water consumption.

Solution – Use RHEINZINK rainwater goods for irrigation water collection to reduce outdoor water consumption.

WE CREDIT: INDOOR WATER USE REDUCTION

Intent – To reduce indoor water consumption.

Solution – Use RHEINZINK rainwater goods for rainwater harvesting to reduce indoor water consumption.



*Simcoe County Admin Building,
Midhurst, ON, Canada – LEED™ Gold
Teeple Architects, Toronto, ON, Canada,
Application: Vertical Reveal Panels,
RHEINZINK-prePATINA graphite-grey*



*Williamson College of Business Administration, Youngstown State University, Youngstown, OH
LEED™ Gold – Perkins+Will, Minneapolis, MN and Strollo Architects, Youngstown, OH
Application: Angled Standing Seam Panels, RHEINZINK-prePATINA graphite-grey*

HOME DESIGN and CONSTRUCTION

SS CREDIT: RAINWATER MANAGEMENT

Intent – To reduce rainwater runoff volume from the site.

Solution – Use RHEINZINK rainwater goods for stormwater management and Low impact development.

WE CREDIT: TOTAL WATER USE

Intent – To reduce demand for water through high-efficiency fixtures and efficient landscaping practices.

Solution – Reduce indoor and outdoor water consumption with RHEINZINK gutters and downspouts.

WE CREDIT: INDOOR WATER USE REDUCTION

Intent – To minimize indoor demand for water through high-efficiency fixtures and fittings.

Solution – Use RHEINZINK rainwater goods for rainwater harvesting to reduce indoor water consumption.

NEIGHBORHOOD DEVELOPMENT

GIB CREDIT: OUTDOOR WATER USE REDUCTION

Intent – To reduce outdoor water consumption.

Solution – Reduce outdoor water use by harvesting rainwater with RHEINZINK gutters and downspouts.

GIB CREDIT: RAINWATER MANAGEMENT

Intent – To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region.

Solution – Reduce runoff volume by harvesting rainwater with RHEINZINK gutters and downspouts.

GIB CREDIT: HEAT ISLAND REDUCTION

Intent – To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.

Solution – Use RHEINZINK sheets and coils to provide shade with architectural devices or structures.

Title page photo:

Jackson Laboratories, Farmington, CT, USA – LEED™ Gold

Centerbrook Architects, Centerbrook, CT, USA

Tsoi Kobus, Cambridge, MA, USA

Application: Flat-Lock Tile System, RHEINZINK-prePATINA blue-grey



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