

# LEED DESIGN GUIDE

Irrigation Solutions for Building Design and Construction

USGBC LEED v4.1 Certification

Hunter®



*“Our mission is to transform the way buildings and communities are designed, built, and operated through LEED — enabling an environmentally and socially responsible environment that improves the quality of life.”*

— U.S. Green Building Council

# EARNING POINTS FOR WATER EFFICIENCY (WE) CREDITS *through irrigation practices*

**LEED v4.1** is a roadmap for sustainable construction and maximizes outdoor water use efficiency for single-family residential projects. Project applicants can choose to earn landscape irrigation points through Total Water Use or Outdoor Water Use credits.

## Water Efficiency (WE) Credit: Outdoor Water Use Reduction

**Intent:** To reduce outdoor potable water consumption and preserve no- and low-cost potable water resources.

Reduce outdoor water use through one of the options listed below. Non-vegetated surfaces, such as permeable or impermeable pavement, should be excluded from landscape area calculations. Athletic fields and playgrounds (if vegetated) and food gardens may be included or excluded at the project team’s discretion.

Projects associated with the LEED Building Design and Construction include:

- Core and shell
- Data centers
- Distribution centers
- Healthcare
- Hospitality
- New construction
- Retail
- Schools
- Warehouse

## HUNTER SMART IRRIGATION SOLUTIONS

*Offering a suite of control solutions to meet the needs of LEED projects*



The **Solar Sync® Sensor** offers on-site climate monitoring to provide automatic controller adjustments and increase irrigation efficiency.



The **Hydrawise Platform** is available for a range of EPA WaterSense certified controllers that automatically adjust run times based on local weather data sourced from the internet.

There are two options to receive points for the building design and construction water use credit.

**OPTION 1**

**Water Efficiency (WE) Credit: No Irrigation Required, 2 points except Healthcare and CS, 1 point Healthcare, 3 points CS**

**Intent:** Show that the landscape does not require a permanent irrigation system beyond a maximum two-year establishment period.

**Hunter temporary irrigation solutions:** Offering a suite of application and control devices for temporary irrigation needs.



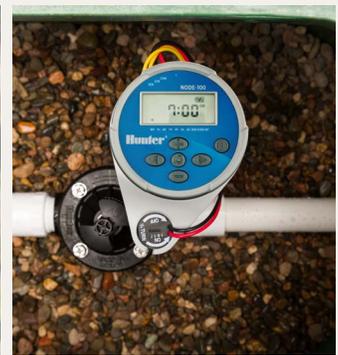
**MP Stake Kit**  
Designed for easy use with any water-efficient MP Rotator® Nozzle.



**PGP® Rotor**  
Unsurpassed reliability, durability, versatility, and value for establishing landscapes.



**XC Hybrid Controller**  
Manage landscapes where electricity is unavailable with this battery- or solar-powered controller.



**NODE Battery-Operated Controller**  
Discreet battery-powered automatic irrigation control for temporary irrigation sites.

**OPTION 2**

**Water Efficiency (WE) Credit: Reduced Irrigation, 1-2 points except Healthcare and CS, 1 point Healthcare, 3 points CS**

Reduce the project’s landscape water requirement (LWR) by at least 50% from the calculated baseline for the site’s peak watering month. Reductions must first be achieved through plant species selection and irrigation system efficiency as calculated in the Environmental Protection Agency (EPA) WaterSense Water Budget Tool. Additional reductions beyond 30% may be achieved using any combination of efficiency, alternative water sources, and smart scheduling technologies.

Points for Reducing Irrigation Water			
Percentage reduction from baseline	Points (except Healthcare)	Points (Healthcare)	Points (CS)
50%	1	1	1
75%	—	—	2
100%	2	—	3

To calculate outdoor water use savings, use the **EPA WaterSense Water Budget Tool** available at [epa.gov/watersense/water-budget-tool](http://epa.gov/watersense/water-budget-tool).

# HUNTER IRRIGATION SOLUTIONS

*to meet and exceed the needs of LEED projects*

## Application Devices

Water conservation you can see. These application devices deliver maximum water-saving results.



### MP Rotator Nozzle

Deliver targeted irrigation with multi-stream, multi-trajectory technology from 6' to 35'.



### I-40 Rotor

Provide efficient large-space coverage for radius ranges from 15' to 103'.



### Hunter Dripline

Maximize irrigation efficiency with direct water application.

## Pressure Regulation

Allows application devices to work at peak performance and efficiency.



### Pro-Spray® PRS30 and PRS40 Sprinkler Bodies

Easily identifiable 30 PSI and 40 PSI regulated heads provide precise inlet pressure to application devices.



### Accu Sync® Pressure Regulator

Pressure regulation at the valve ensures downstream efficiencies.

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## Check Valves

Prevent low-head drainage, landscape damage, and water waste.



### Factory-Installed

Order emission devices with preinstalled check valves.



### Field-Installed

Add check valves to laterals or emission devices.

## Advanced Control

Advanced irrigation controllers manage multiple water sources and adjust schedules to on-site weather conditions.



### ACC2 Controller

Top choice for complex water management to drive water conservation.



### Flow Management

Flow sensors and master valves monitor and react to real-time system flow dynamics.

# INSTALL WATER METERING

*to conserve water and maximize efficiency*

## Water Efficiency (WE) Credit: Water Metering, 1 point

**Intent:** To support water management and identify opportunities for additional water savings by tracking water consumption.

### Meter Water Subsystems, 1 point

Install permanent water meters for two or more of the following water subsystems, as applicable to the project:

- **Irrigation:** Meter water systems serving at least 80% of the irrigated landscaped area. Calculate the percentage of irrigated landscape area served as the total metered irrigated landscape area divided by the total irrigated landscape area. Landscape areas fully covered with xeriscaping or native vegetation that requires no routine irrigation may be excluded from the calculation. *See Hunter Water Metering section below.*
- **Indoor plumbing fixtures and fittings:** Meter water systems serving at least 80% of the indoor fixtures and fitting described in WE Prerequisite Indoor Water Use Reduction, either directly or by deducting all other measured water use from the measured total water consumption of the building and grounds.
- **Domestic hot water:** Meter water use of at least 80% of the installed domestic hot water heating capacity (including both tanks and on-demand heaters). A single makeup meter may record flows for multiple water heaters.
- **Boilers:** A single makeup meter may record flows for multiple boilers.
- **Reclaimed water:** Meter reclaimed water, regardless of rate. A reclaimed water system with a makeup water connection must also be metered so that the true reclaimed water component can be determined. *See Reclaimed Water Solutions section on page 7.*
- **Other process water:** Meter water use of pools, and other significant water uses.
- **Cooling towers:** Meter cooling towers.

### Hunter Water Metering

Robust metering solutions for easy management of potable and reclaimed irrigation.



#### HC Flow Meter

Detect, monitor, and report critical flow data and total system flows with this robust flow sensor with flows from 0.22 to 132 GPM. Combine with Hydrowise Software to generate reports and accurately track landscape water use.

# RECLAIMED WATER SOLUTIONS

*to meet and exceed agency requirements*

Using reclaimed water offsets potable water use in the landscape and accounts for water savings in the Total Water Use credit. Hunter provides a suite of reclaimed water products marked with purple identifiers.



## Rotors

A high-visibility purple cap identifies these rotors as using reclaimed water.



## Spray Heads

From a shrub riser to 12" pop-up, these spray heads are all available with purple caps.

## Valves

Built with robust diaphragms and purple identifiers, these valves can handle the tough conditions brought by reclaimed water.



## Drip Control Zone Kits

Reclaimed identification on both the valve and filter.



## Dripline

Purple stripes to discreetly identify reclaimed water use.

## RECYCLED MATERIAL INCLUSION

Hunter products can help meet the requirements for recycled material with potential LEED certified projects. Recycled Content Credits are recorded within the Materials and Resources (M+R) Credits section, which requires a minimum amount of recycled material. LEED specifically excludes mechanical, electrical, and plumbing components from the recycled content calculations since they are considered minor, removable materials.

Although Hunter products are excluded from this credit, we include recycled material in our products to help decrease our environmental footprint. Our goal is to maximize the amount of recycled material inclusion without jeopardizing product quality or durability.



### ABS Plastic

Products manufactured with ABS black plastic contain up to 13% recycled material.



### Dripline

Hunter Dripline is manufactured with up to 75% recycled material.



### Subsurface Irrigation

Synthetic fleece products like the Eco-Mat® and Eco-Wrap® Systems are manufactured with 100% recycled material.



### Rotor Keys and Wrenches

Plastic portions of rotor keys are manufactured with 100% recycled material.

Hunter Industries manufactures and supplies best-in-class products that provide irrigation efficiency through application, control, and management features ideal for projects seeking LEED certifications. Partner with Hunter Industries to maximize your points and achieve real water efficiency.

Learn more about USGBC LEED Certification at: [usgbc.org/leed](https://usgbc.org/leed)

Learn more about the EPA WaterSense Budget Tool at: [epa.gov/watersense/water-budget-tool](https://epa.gov/watersense/water-budget-tool)

**Website** [hunterindustries.com](https://hunterindustries.com) | **Customer Support** 1-800-383-4747 | **Technical Service** 1-800-733-2823

Helping our customers succeed is what drives us. While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.

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Gene Smith, President of Landscape Irrigation and Outdoor Lighting