

The image features a close-up of a vibrant green leaf with a single, clear water droplet hanging from its tip. The background is a soft-focus blue sky with a bright sunburst effect. The ZURN logo is prominently displayed on the leaf. The logo consists of the word "ZURN" in a bold, white, sans-serif font, with a registered trademark symbol (®) to its right. This text is set against a blue, horizontally-oriented oval background.

ZURN®

**Zurn USGBC LEED
2009 Qualifications**

Quick Reference Product Guide



Zurn Industries, LLC Quick Reference Products Guide USGBC LEED® 2009 Qualification

The Leadership in Energy and Environmental Design (LEED®) Green Building Rating System represents the U.S. Green Building Council's (USGBC) effort to provide a national standard for what constitutes a "green building." Through its use as a design guideline and third party certification tool, it aims to improve occupant well-being, environmental performance, and economic returns of buildings using established innovative practices, standards, and technologies.

Application for LEED credits starts with the owners, architects, and other building designers. Through the use of carefully calculated floor plans, environmentally friendly building materials, energy efficient products, managed construction impact, and innovative system designs, buildings can obtain a high ranking LEED certification. That certification process can produce buildings that are not only great environments to be in, but will save energy and resources every day they are in use.

LEED is a point-based rating system. In April 2009, the USGBC updated its guidelines, streamlining them to make them more user-friendly. The USGBC also introduced more prerequisites to enhance the minimum efficiency of the buildings registered under their revised rating system.

| LEED 2009 For New Construction and Major Renovations | |
|---|-------------|
| Total Possible Points** | 110* |
| <i>Sustainable Sites</i> | 26 |
| <i>Water Efficiency</i> | 10 |
| <i>Energy and Atmosphere</i> | 35 |
| <i>Materials and Resources</i> | 14 |
| <i>Indoor Environmental Quality</i> | 15 |
| *Out of a possible 100 points + 10 bonus points | |
| **Certified 40+ points, Silver 50+ points Gold 60+ points, Platinum 80+ points | |
| Innovation in Operations | 6 |
| Regional Priority | 4 |

| LEED 2009 For Core and Shell Development | |
|---|-------------|
| Total Possible Points** | 110* |
| <i>Sustainable Sites</i> | 26 |
| <i>Water Efficiency</i> | 10 |
| <i>Energy and Atmosphere</i> | 37 |
| <i>Materials and Resources</i> | 13 |
| <i>Indoor Environmental Quality</i> | 12 |
| *Out of a possible 100 points + 10 bonus points | |
| **Certified 40+ points, Silver 50+ points Gold 60+ points, Platinum 80+ points | |
| Innovation in Operations | 6 |
| Regional Priority | 4 |

| LEED 2009 For Schools New Construction and Major Renovations | |
|---|-------------|
| Total Possible Points** | 110* |
| <i>Sustainable Sites</i> | 24 |
| <i>Water Efficiency</i> | 11 |
| <i>Energy and Atmosphere</i> | 33 |
| <i>Materials and Resources</i> | 13 |
| <i>Indoor Environmental Quality</i> | 19 |
| *Out of a possible 100 points + 10 bonus points | |
| **Certified 40+ points, Silver 50+ points Gold 60+ points, Platinum 80+ points | |
| Innovation in Operations | 6 |
| Regional Priority | 4 |

New construction and Major Renovation, Core and Shell Development, and Schools New Construction and Major Renovations guidelines have been combined into one rating guide to cover all new construction LEED activities.

| LEED 2009 For Existing Buildings: Operations and Maintenance | |
|---|-------------|
| Total Possible Points** | 110* |
| <i>Sustainable Sites</i> | 26 |
| <i>Water Efficiency</i> | 14 |
| <i>Energy and Atmosphere</i> | 35 |
| <i>Materials and Resources</i> | 10 |
| <i>Indoor Environmental Quality</i> | 15 |
| *Out of a possible 100 points + 10 bonus points | |
| **Certified 40+ points, Silver 50+ points Gold 60+ points, Platinum 80+ points | |
| Innovation in Operations | 6 |
| Regional Priority | 4 |

Existing Buildings: Operations and Maintenance guidelines is separate from any of the new construction guidelines and covers all LEED activities for pre-existing buildings.

The LEED program provides education and training for all industry professionals – owners, architects, facility managers, engineers, interior designers, construction managers, landscape architects, and government officials. The program also includes LEED Professional Accreditation Programs (LEED AP's) which encourage individuals to gain the knowledge of the LEED® certification process and skills required to oversee a green building design and implementation. LEED awards buildings with a plaque at the end of the certification process. This plaque is recognized nationwide as proof that a building is environmentally responsible and has provided its occupants with a healthy, safe place to live and work.

Going Green

What does “Green” mean? “Green” has become the shorthand term for the concept of sustainable development as applied to the building industry. Also known as high-performance buildings, green buildings are intended to be environmentally responsible, economically profitable, and healthy places to live and work. (Source: USGBC www.usgbc.org)

The USGBC does not certify or endorse products of individual companies. Products and services play a role in helping projects achieve LEED certification. However, Zurn is continuing to provide architects many water conservation products so they can design “green” and earn as many LEED points as possible.



Zurn has obtained GreenSpec Listed status on a number of its products from the Environmental Business News as a result of this endeavor. GreenSpec Listed means that Environmental Business News' Building Green organization recognizes that a product is a “green” product and lists it on their site for members to view. Those listed products should be used in building design to promote energy and natural resource conservation.

Qualifying Zurn Products for LEED 2009 Credits

Qualification For LEED Credits WE 3.1 and WE 3.2 – Water Use Reduction

Using Zurn Commercial Brass products that are rated below the baseline fixture performance requirements as stated by the Energy Policy Act of 1992 would contribute to the following credits as long as the building as a whole reduces water consumption below the baseline by the given percent. For example, the building installs all faucets with 0.5 GPM aerators, HET 1.28 GPF closet fixtures, and 0.5 GPF, 1/8th gallon or waterless urinal fixtures would help contribute to the desired credits below.

LEED-NC Prerequisite – Water Use Reduction: 20%

LEED-NC Credit 2 – Innovative Wastewater Technologies

LEED-NC Credit 3 – Water Use Reduction (30% - 40%)

LEED-EB Credit 1 Prerequisite – Minimum Indoor Plumbing Fixture and Fitting Efficiency

LEED-EB Credit 2 – Additional Indoor Plumbing Fixture and Fitting Efficiency (10% - 30%)

LEED 2009 Water Efficiency Categories – LEED NC

LEED for New Constructions (LEED-NC, SC, CS) awards up to 10 points for water efficiency with schools receiving the opportunity for an additional point if the schools incorporate process water systems.

| Credit | Title | Description | NC | Schools | CS |
|-------------------|------------------------------------|---|--------------|--------------|--------------|
| WE Prerequisite 1 | Water Use Reduction | Use 20% less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act, 1992, for fixture performance requirements. | Required | Required | Required |
| WE Credit 1 | Water Efficient Landscaping | Reduce potable water consumption for irrigation by 50% (2 pt) from a calculated mid-summer baseline case OR use no potable water for irrigation (4 pt). | 2 - 4 Points | 2 - 4 Points | 2 - 4 Points |
| WE Credit 2 | Innovative Wastewater Technologies | Reduce potable water use for sewage conveyance by 50% through use of water conserving fixtures or non-potable water technologies OR treat 50% wastewater onsite. | 2 Points | 2 Points | 2 Points |
| WE Credit 3 | Water Use Reduction | Use 30% (2 pt), 35% (3 pt), or 40% (4 pt) less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act, 1992, for fixture performance requirements. | 2 - 4 Points | 2 - 4 Points | 2 - 4 Points |
| WE Credit 4 | Process Water Use Reduction | Maximize water efficiency within buildings to reduce burden on municipal water supply and wastewater systems by making efficient the schools' refrigeration, dishwashers, ice machines, food steamers, pre-rinse sprays, etc. | NA | 1 Point | NA |

Baseline Calculations Using EAct Standards (LEED-NC)

Baseline calculations, as referenced in the requirements to achieve LEED Water Efficiency Credits, assume that all fixtures in the building are performing according to EAct national standards. The U.S. Energy Policy Act, 1992, was designed to save water through normal fixture replacements. Using tools such as water usage calculators, the design team can compare the efficiency of water fixture systems and specify the right system for a project. Projected water use covers the water use of an entire building, not just specific areas. It is this amount that is compared to the baseline calculation. Many manufacturers can deliver innovative products and solutions which perform better than the national standard.

The EAct sets the national standard and requires that all fixtures manufactured in the U.S. restrict maximum flow rates, as identified in the chart below.

| Fixture | Maximum Flow Rate |
|----------------------|------------------------------------|
| Toilets | 1.6 GPF |
| Urinals | 1.0 GPF |
| Shower Heads | 2.5 GPM @ 80 PSI; 2.2 GPM @ 60 PSI |
| Faucets – Commercial | 0.5 GPM @ 60 PSI |
| Faucets – Standard | 2.2 GPM @ 60 PSI |
| Metering Faucets | 0.25 GPC @ 80 PSI |

GPF = gallons per flush; GPM = gallons per minute;
PSI = pounds per square inch, GPC = Gallons Per Cycle

LEED 2009 Water Efficiency Categories – LEED EB

LEED for Existing Buildings (LEED-EB) rating systems both award up to 14 points in the Water Efficiency Category.

| Credit | Title | Description | EB |
|-------------------|---|---|--------------|
| WE Prerequisite 1 | Minimum Indoor Plumbing Fixture and Fitting Efficiency | Reduce potable water use of indoor plumbing fixtures and fittings to a level equal to or below the LEED 2009 for Existing Buildings: Operations and Maintenance baseline, calculated assuming 100% of the building indoor plumbing fixtures and fittings meet the plumbing code requirements as stated in the 2006 edition of the Uniform Plumbing Code (UPC) or International Plumbing Code (IPC) pertaining to fixture and fitting performance. Fixtures and fittings included in the calculations for this credit are water closets, urinals, shower heads, faucets, faucet replacement aerators and metering faucets. | Required |
| WE Credit 1 | Water Performance Measurement | Whole Building Metering (1 pt) or Sub metering (2 pt) Have in place permanently installed water metering that measures the total potable water use for the entire building and associated grounds. OR Have permanently installed the above as well as sub meters for irrigation, indoor plumbing fixtures, cooling towers, domestic hot water use, as well as other process water use. | 1 - 2 Points |
| WE Credit 2 | Additional Indoor Plumbing Fixture and Fitting Efficiency | During performance period, have in place strategies and systems that in aggregate produce reduction in indoor plumbing fixture and fitting potable water use from the calculated baseline established. 10% = 1pt; 15% = 2 pt; 20% = 3 pt; 25% = 4 pt; 30% = 5 pt | 1 - 5 Points |
| WE Credit 3 | Water Efficient Landscaping | Reduce potable water or other natural surface or subsurface resource consumption for irrigation compared with conventional means of irrigation. 50% = 1 pt; 62.5% = 2 pt; 75% = 3 pt; 87.5% = 4 pt; 100% = 5 pt | 1 - 5 Points |
| WE Credit 4 | Cooling Tower Water Management | Option 1 (1 pt) – Chemical Management (Develop and implement a water management plan for the cooling tower that addresses chemical treatment, bleed-off, biological control, and staff training as it related to cooling tower maintenance.) OR Option 2 (1 pt) – Nonpotable Water Source Use (Use makeup water that consists of at least 50% nonpotable water, such as harvested rainwater, harvested storm water, air-conditioner condensate, swimming pool filter backwash, etc.) OR Option 3 (2 pt) – Both of the Above | 1 - 2 Points |

Baseline Calculations Using EPA Standards (LEED-EB)

In regard to LEED water efficiency credits for Existing Buildings, the initiative is to reduce fixture potable water usage to a level equal to or below water use baseline:

- For a plumbing system substantially completed in 1993 or later throughout the building, the baseline is calculated at 120% of the water usage that would result if 100% of the total building fixture count were outfitted with plumbing fixtures that meet the Energy Policy Act of 1992 fixture performance requirements. A simple example is that a building that had a plumbing system installed in 1998 and uses an average of 2,000 gallons of water a day with 3.5 gpf flush valves, the building would need to install new flush valves to reduce its daily water consumption to under 1,097 gallons per day. $(2,000 \text{ gal}/3.5 \text{ gpf} = 572 \text{ fixtures} \times 1.6 \text{ gpf (new water saving fixtures)} \times 120\% \text{ baseline} = 1,097 \text{ gallons of water per day.})$
- For a plumbing system substantially completed before 1993 throughout the building, the baseline is calculated at 160% of the water usage that would result if 100% of the total building fixture count were outfitted with plumbing fixtures that meet the Energy Policy Act of 1992 fixture performance requirements.

A simple example is that a building that has had a plumbing system installed in 1975 and uses an average of 2,000 gallons of water a day with 3.5 gpf flush valves, the building would need to install new flush valves to reduce its daily water consumption to under 1,137 gallons per day. $(2,000 \text{ gal}/4.5 \text{ gpf} = 444 \text{ fixtures} \times 1.6 \text{ gpf (new water saving fixtures)} \times 160\% \text{ baseline} = 1,137 \text{ gallons of water per day.})$

If the building does not have separate metering for each water use (fixture use, process use, irrigation and other uses), the water use reduction achievements can be demonstrated with calculations. At least one meter for the overall building water use is required and metering for cooling towers and other process water uses are encouraged but not required.

LEED 2009 Credits Zurn Products Do Not Qualify For

MR Credit Metrics – LEED-NC 2009

The below reference chart is from the current LEED Reference for Green Building Design and Construction 2009 reference guide.

| Material | Mrc1: Building Reuse | MRC2: Construction Waste Management | MRC3: Materials Reuse | MRC4: Recycled Content | MRC5: Regional Materials | MRC6: Rapidly Renewable Materials | MRC7: Certified Wood |
|---|-------------------------|---|--|--|-----------------------------|--------------------------------------|---|
| CSI Divisions 3 thru 10 | Based on area. | Based on weight or volume. Include demolition and construction waste. | Based on replacement value. | Based on cost of qualifying materials as a percent of overall materials cost for division 3 - 10 (\$). | | | Based on FSC wood as a percentage of all new wood (\$). |
| Mechanical | NA | | NA | NA | NA | NA | NA |
| Plumbing | | | | | | | |
| Electrical | | | | | | | |
| Furniture & Furnishings (CSI Division 12) | | | May be included with Divisions 3 - 10, if done consistently for credits 3 - 7. | | | | |

Plumbing, mechanical, and electrical components are not applicable (NA) for most of the Material Reuse (MR) credits as of November 1, 2006.

Please note that if a building does happen to fall under previous version of LEED Certification, the Specifications Development Department can provide the above information to help a building qualify for those credits.

Comparison of LEED 2009 Guidelines to Old V2.2 (2006-2008)

The following guidelines only pertain to LEED V2.2 (2006-2008) rules. The LEED for New Construction (LEED-NC), Existing Buildings (LEED-EB), and Commercial Interiors (LEED-CI) rating systems are arranged in four certification levels:

| Rating System | Points Required LEED V2.2 | | |
|-----------------------|---------------------------|-----------------------|-----------------------|
| | LEED-NC™ | LEED-EB™ | LEED-CI™ |
| Certified Level | 26 - 32 points | 32 - 39 points | 21 - 26 points |
| Silver Level | 33 - 38 points | 40 - 47 points | 27 - 31 points |
| Gold Level | 39 - 51 points | 48 - 63 points | 32 - 41 points |
| <i>Platinum Level</i> | <i>52 - 69 points</i> | <i>64 - 85 points</i> | <i>42 - 57 points</i> |

LEED Water Efficiency Categories LEED V2.2

The LEED for New Construction (LEED-NC) and LEED for Existing Buildings (LEED-EB) rating systems both award up to 5 points in the Water Efficiency Category. The LEED for Commercial Interiors (LEED-CI) only awards up to 2 points for water efficiency. Water conservation fixture systems would contribute to credits WE 3.1, WE 3.2, and depending upon how much water is saved overall in a building, WE 2, as it can be considered an innovation.

| Credit | Description/Point Value | Requirements |
|----------------------------------|--|---|
| WE Prerequisite | NA | Not part of LEED V2.2 |
| WE 1.1 (LEED-NC) (LEED-EB) | Water Efficient Landscaping 1 point | Reduce potable water consumption for irrigation by 50% from a calculated mid-summer baseline case. |
| WE 1.2 (LEED-NC) (LEED-EB) | Water Efficient Landscaping 1 point | Achieve WE 1.1 and 95% to no potable water use for irrigation or no irrigation. |
| WE 2 (LEED-NC) (LEED-EB) | Innovative Wastewater 1 point | Reduce potable water use for sewage conveyance by 50% through use of water technologies conserving fixtures or non-potable water OR treat 50% wastewater onsite. |
| WE 3.1 (LEED-NC) | Water Use Reduction 1 point | Use 20% less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act, 1992, for fixture performance requirements. |
| WE 3.2 (LEED-NC) | Water Use Reduction 1 point | Use 30% less water than the water use baseline calculated for the building (not including irrigation) after meeting the Energy Policy Act, 1992, for fixture performance requirements. |
| WE 3.1 (LEED-EB) | Water Use Reduction 1 point | Attain a 10% reduction in fixture water use from baseline calculation of the building. |
| WE 3.2 (LEED-EB) | Water Use Reduction 1 point | Attain a 20% reduction in fixture water use from baseline calculation of the building. |
| WE 1.1 (LEED-CI) | Water Use Reduction 1 point | Based on tenant occupancy requirements, employ strategies that in aggregate use 20% less water than the water use baseline calculated for the tenant space (not including irrigation) after meeting Energy Policy Act of 1992 fixture performance requirements. |
| WE 1.2 (LEED-CI) | Water Use Reduction 1 point | Based on tenant occupancy requirements, employ strategies that in aggregate use 30% less water than the water use baseline calculated for the tenant space (not including irrigation) after meeting Energy Policy Act of 1992 fixture performance requirements. |

LEED Credits Zurn Products Qualify For Under LEED V2.2

Qualification For LEED Credits WE 3.1 and WE 3.2 – Water Use Reduction

Using Zurn Commercial Brass products that are rated below the baseline fixture performance requirements as stated by the Energy Policy Act of 1992 would contribute to the following credits as long as the building as a whole reduces water consumption below the baseline by the given percent. For example, the building installs all faucets with Zurn 0.5 GPM aerators, Zurn HET 1.28 GPF closet fixtures, and 0.5 GPF, Zurn 1/8th gallon or waterless urinal fixtures would help contribute to the desired credit below.

LEED-EB Credit 3.1 – Water Use Reduction: 10%

LEED-NC Credit 3.1 – Water Use Reduction: 20%

LEED-EB Credit 3.2 – Water Use Reduction: 20%

LEED-CI Credit 1.1 – Water Use Reduction: 20%

LEED-NC Credit 3.2 – Water Use Reduction 30%

LEED-CI Credit 1.2 – Water Use Reduction 30%

Using Zurn products can contribute up to 2 points toward LEED Certification for New Construction or Existing Buildings.

Zurn Product Offerings for LEED 2009 Certification (Not All Inclusive)

The following are various Zurn products from different divisions that can help earn credits for a building's LEED certification.

Zurn High Efficiency Toilet (HET) Using EcoVantage® Technology



The Z5615 system comes complete with exposed ZTS6200EV high efficiency flushometer valve and vitreous china wall-hung toilet. The system is designed to perform to industry standards with as little as **1.28 gallons per flush**. The sensor flush valve and toilet are an engineered system designed to provide optimal performance and 20% water savings over 1.6 GPF conventional toilets.



The Z5655 system comes complete with exposed ZTS6200EV high efficiency flushometer valve and vitreous china floor-mount toilet. The system is designed to perform to industry standards with as little as **1.28 gallons per flush**. The sensor flush valve and toilet are an engineered system designed to provide optimal performance and 20% water savings over 1.6 GPF conventional toilets.



The Z5665 system comes complete with exposed ZTS6200EV high efficiency flushometer valve and vitreous china floor-mount toilet. The system is designed to perform to industry standards with as little as **1.28 gallons per flush**. The sensor flush valve and toilet are an engineered system designed to provide optimal performance and 20% water savings over 1.6 GPF conventional toilets. This system is ADA compliant.

Zurn Ultra Low Flow "Pint" Urinal



Zurn Commercial Brass 1/8 Gallon Urinal – Z5798

Zurn's new Z5798 1/8 Gallon Urinal is a marvel of water saving efficiency that provides an 88% savings of water over the standard 1.0 gallon urinal or 75% savings of water over the 0.5 gallon urinals in use today.

Alternate Styles

- Z5738 – The Small Pint. Small Footprint 0.125 Urinal
- Z5758 – The Retrofit Pint. Top Spud Enlarged Retrofit 0.125 Urinal
- Z5759 – The Retrofit Pint. Back Spud Enlarged Retrofit 0.125 Urinal
- Z5799 – Back Spud Pint Urinal
- Z5708 – The "Nano" Pint
- Z5792 – The Full Stall Pint



Zurn Waterless Urinal



Zurn Commercial Brass Z5795

The Z5795 waterless urinal is a wall-hung vitreous china urinal with integral trap and drain line connection. The Zurn green sealant used maintains a sanitary, environmentally friendly and odor free installation.

Alternate Style

- Z5796 – Small Footprint Waterless Urinal



Zurn Sensor Faucets



Z6915-F

Sensor faucets like the Zurn Z6915 and Z6920 battery-powered sensor faucets with optional hardwire capability contribute to significant water savings when used in conjunction with the -F 0.5 GPF aerator. Just switching aerators from standard 2.2 GPM to 0.5 GPM on sensor faucets is a great way to save up to 77% water when users wash their hands.

Switching faucet aerators of 1.5 GPM to 0.5 GPM aerators would save up to 67% of water and up to 50% of water if switching from 1.0 GPM aerators.

Also, sensor technology allows for hands-free use while washing giving the user additional cleanliness over manual faucets. Coupled with sensor flush valves and sensor hand dryers, the user has little to worry about in regard to germ contact.



Z6920-F

Zurn Dual Flush Handle



Zurn Commercial Brass P6000-M-ADA-DF

The Dual Flush Handle can either flush at full capacity for the evacuation of solid waste by pushing down or at 30% water saving reduction for the evacuation of liquid waste by pulling up. The Dual Flush handle is also available as a retrofit kit that comes with a 1.6 GPF AquaVantage® diaphragm repair kit.

This handle can be placed on the following flush valves:

Z6000AV-DF for 3.5 GPF/2.6 GPF flush

Z6000AV-WS1-DF for 1.6 GPF/1.1 GPF flush

Zurn High Efficiency Toilet (HET) Using EcoFlush™ Technology



Zurn Commercial Brass and Fixtures Z5561

1.0 GPF ADA vitreous china pressure assisted High Efficiency Toilet (HET) using EcoFlush™ technology with a chrome handle and elongated front rim. These fixtures offer improved water conservation, superior line carry and bowl cleaning due to the pressure involved from its innovative pressurized tank technology. The tank requires no external power source nor increased line size. These fixtures are designed for ADA stall use. This fixture provides a 40% savings over traditional fixtures.



Zurn Commercial Brass and Fixtures Z5562

Dual 1.6 GPF or 1.0 GPF ADA designed vitreous china pressure assisted High Efficiency Toilet (HET) using EcoFlush™ technology with a chrome handle and elongated front rim. These fixtures offer improved water conservation, superior line carry and bowl cleaning due to the pressure involved from its innovative pressurized tank technology. The tank requires no external power source nor increased line size. It also offers the user to take part in water conservation by allowing them the opportunity to make a choice to save water depending on use. The user can operate down for 1.0 GPF flush saving 40% water. These fixtures are designed for ADA stall use.



Zurn Commercial Brass and Fixtures Z5571

1.0 GPF vitreous china pressure assisted High Efficiency Toilet (HET) using EcoFlush™ technology with a chrome handle and elongated front rim. These fixtures offer improved water conservation, superior line carry and bowl cleaning due to the pressure involved from its innovative pressurized tank technology. The tank requires no external power source nor increased line size. This fixture provides a 40% savings over traditional fixtures.



Zurn Commercial Brass and Fixtures Z5572

Dual 1.6 GPF or 1.0 GPF vitreous china pressure assisted High Efficiency Toilet (HET) using EcoFlush™ technology with a chrome handle and elongated front rim. These fixtures offer improved water conservation, superior line carry and bowl cleaning due to the pressure involved from its innovative pressurized tank technology. The tank requires no external power source nor increased line size. It also offers the user to take part in water conservation by allowing them the opportunity to make a choice to save water depending on use. Like the Z5562 above, the user can push down for a full 1.6 GPF flush, and save 30% water when the handle is pushed upward (1.12 GPF). This unit does not meet ADA requirements.



Zurn 0.5 Gallon Urinal Flush Valves



Zurn Commercial Brass Z6000AV-HET Series

AquaVantage® Exposed Flush Valve with Top Spud Connection for 1" toilets with 1.28 GPF diaphragm kit. They provide not only water savings, but very low maintenance costs as well as improved cleanliness for restroom users. These flush valves provide a savings of 20% over 1.6 GPF baseline toilets today.

This series can be fitted for almost any application:

ZER6000AV-HET-CPM – Sensor Battery Powered

ZEMS6000AV-HET – Sensor Hardwired For Concealed Applications

ZEMS6000AV-HET-IS – Sensor Hardwired for Exposed Applications



Zurn Commercial Brass ZER6003AV-EWS

AquaVantage® Battery Powered Sensor Operated Exposed Flush Valve with Top Spud Connection for 3/4" Urinals with 0.5 GPF diaphragm kit. They provide not only water savings, but very low maintenance costs as well as improved cleanliness for restroom users. These flush valves provide a savings of 50% over 1.0 GPF and 67% over 1.5 GPF. Please check with china manufactures' recommendations for washdown and trap exchange requirements prior to lowering flush volumes.



Zurn Commercial Brass ZER6003-EWS

Aquaflush Battery Powered Sensor Operated Exposed Flush Valve with Top Spud Connection for 3/4" Urinals with 0.5 GPF diaphragm kit. They provide not only water savings, but very low maintenance costs as well as improved cleanliness for restroom users. These flush valves provide a savings of 50% over 1.0 GPF and 67% over 1.5 GPF. Please check with china manufacturers' recommendations for washdown and trap exchange requirements prior to lowering flush volumes.



Zurn 0.5 Gallon Urinal Diaphragm Kits



Zurn Commercial Brass P6000-EUA-EWS

0.5 gallons per flush AquaVantage® drop-in urinal repair kit. This kit is also made of an innovative chloramine resistant material providing superior longevity and its triple filtered bypass system offers reduced maintenance costs against line debris clogs. These kits provide a savings of 50% over 1.0 GPF and 67% over 1.5 GPF. Please check with china manufacturers' recommendations for washdown and trap exchange requirements prior to lowering flush volumes.



Zurn Commercial Brass P6000-EUR-EWS

0.5 gallons per flush Aquaflush drop-in urinal repair kit. This kit is also made of an innovative chloramine resistant material providing superior longevity. These kits provide a savings of 50% over 1.0 GPF and 67% over 1.5 GPF. Please check with china manufacturers' recommendations for washdown and trap exchange requirements prior to lowering flush volumes.



Zurn Low-Flow Shower Heads



Zurn AquaSpec® Z7301-SS-MT-S9

1.5 gallon chrome-plated single handle pressure balancing mixing shower unit with ceramic control cartridge and polished nickel chrome-plated surface. Saves 40% water as compared to normal shower valves at 2.5 GPM at 80 PSI.



Zurn AquaSpec® Z7302-SS-MT-S9

1.5 gallon chrome-plated single handle pressure balancing mixing shower valve with tub spout diverter and ceramic control cartridge that comes with a nickel chrome-plated surface. Saves over 40% water as compared to normal shower valves at 2.5 GPM at 80 PSI.





Zurn AquaSpec® Z7000-S8 (1.75 GPM) and Z7000-S9 (1.5 GPM)

1.75 gallon and 1.5 gallon chrome finish deluxe shower head with brass ball joint connector and volume control with integral tamper resistant flow control. Saves 30% to 40% water as compared to normal shower valves at 2.5 GPM at 80 PSI.



Zurn AquaSpec® Z7301-SS-MT-DV2P-HW-1.50-S9

1.5 gallon chrome hand-wall shower unit with metal hose, tamper resistant water conserving handset. Saves 30% to 40% water as compared to normal shower valves at 2.5 GPM at 80 PSI.

Zurn Temp-Gard® Hand/Wall Shower



Zurn Temp-Gard® Z7000-HW-1.75

Hand/wall shower unit consisting of hand held shower head with swivel connection, 60" flexible metal hose, 24" mounting bar wall connection, with supply elbow and flange. Non-adjustable spray pattern, with 1.75 GPM pressure compensating flow-rate regulator. This shower saves 30% of water compared to regular 2.5 GPM showers at 80 PSI (i.e. $1 - 1.75/2.5 = 30\%$).

Zurn Temp-Gard® Z7000-HW-1.5

Hand/wall shower unit consisting of hand held shower head with swivel connection, 60" flexible metal hose, 24" mounting bar wall connection, with supply elbow and flange. Non-adjustable spray pattern, with 1.5 GPM pressure compensating flow-rate regulator. This shower saves 40% of water compared to regular 2.5 GPM showers at 80 PSI (i.e. $1 - 1.5/2.5 = 40\%$).

Additional products or configurations available.



Zurn Pre-Rinse Unit



Zurn AquaSpec® Z80000-PR1 Commercial “Jet Spray” Washer

Self-closing 1.24 GPM @ 60 PSI (4.7 l/min @ 400 kPa) pre-rinse valve. Save up to \$1,000 every year or up to 80% water use reduction. Its vigorous spray pattern increases performance and water saving efficiency over older models. The Zurn Jet Spray Washer uses only 1.24 gallons per minute compared to standard 2 to 6 GPM valves.

| Usage | Hours of Spray Valve Usage | Water Savings (Gallons Per Day) | Wastewater Savings (Gallons Per Day) | Gas Savings (Therms Per Day) | Annual Dollar Savings |
|--------|----------------------------|---------------------------------|--------------------------------------|------------------------------|-----------------------|
| Light | 2 hours per day | 100 | 100 | 0.7 | \$300 - \$400 |
| Medium | 4 hours per day | 200 | 200 | 1.3 | \$700 - \$900 |
| Heavy | 6 hours per day | 300 | 300 | 2 | \$1,000 - \$1,300 |

Zurn 0.5 Gallon Aerators



Zurn AquaSpec® G62620

3F manual faucet female 0.5 GPM vandal-resistant aerator.



Zurn AquaSpec® G63507

3M manual faucet male 0.5 GPM vandal-resistant aerator.



Zurn Commercial Brass P6900-20F

Sensor faucet 0.5 GPM vandal-resistant aerator.



Zurn Commercial Brass P6900-20F-GN

Sensor faucet 0.5 GPM gooseneck vandal-resistant aerator.

Additional Zurn “Green” Product Offerings

Not all products contribute enough to justify LEED certification points. However, the building is certified as an overall entity and every savings opportunity helps. Zurn has other low water consumption products available for the Green conscious building owner.

Zurn Energy Efficient Hand Dryer – Reduces Dry Time by Over 50%



Zurn Commercial Brass Z6704

This energy efficient hand dryer is a sensor operated hot air hand dryer and incorporates an internally mounted infrared sensor and electric heating element. Its energy efficient motor delivers a powerful blast of heated air at a much lower energy cost as compared to other sensor hand dryers. It is also quieter than other existing models.



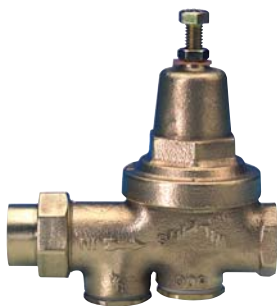
Zurn Energy Efficient Hydro-Electric Power Generator



Zurn's new AquaSense® Hydro-electric Power Generator for sensor faucets is an inline power generator that connects between the faucet shank and solenoid box and generates power while faucet is in use. When used in conjunction with Zurn low flow aerators the sensor faucet can provide substantial water savings and energy savings over standard faucets and even standard sensor faucets that use either battery or hardwire power. The generator has a 10-year battery life and can save as many as 40 batteries per faucet over that time, thus reducing maintenance waste and/or landfill issues arising from battery disposal.



Wilkins Pressure Reducing Regulator



Wilkins pressure reducing valves can reduce water usage up to one third for landscaping.

Wilkins direct acting pressure regulator models BR4, 70, 600, and 500 all contribute to water conservation. Wilkins' pilot operated control valve model ZW109 will also contribute for this water saving credit. Wilkins manufactures regulators from 1/2" to 12".

Start the Water Conservation Revolution With Zurn EcoVantage® Products

How Zurn Can Save You Water and Money Easily

- Urinals – 1.0, 1.5, 3.0 GPF*** When a facility replaces or retrofits its existing urinals with 1/8 GPF, waterless urinals or 0.5 GPF flush valve diaphragm kits in pre-existing urinals, they can save up to almost 90% water over their standard urinal fixtures.
- Toilets – 1.6 GPF*** When a facility replaces or retrofits its existing 1.6 GPF toilets with 1.28 or 1.0 GPF EcoVantage toilets, their average savings can reach 20% to almost 40% savings over standard toilet fixtures. If an existing building still uses 3.5 GPF fixtures, these savings can exceed 70%.
- Faucet Aerators*** When a facility replaces or retrofits its existing faucet aerators with 0.5 GPM or 1.0 GPM aerators, they can swiftly save over 50% to 75% of their water use over the current 2.2 GPM standard aerator faucets.
- Faucets*** When a facility replaces or retrofits its existing manual faucets with low-flow consumption metering faucets or low-flow sensor consumption faucets, not only will the facility see immediate water savings, but the overall cleanliness of the restroom will increase.
- Flush Valves*** Installing sensor retrofit kits on a facility's manual flush valves or even installing dual-flush handles or HET diaphragms are great ways to save water and money. Sensor Flush Valves have evolved so they can be easily retrofitted onto your existing valves for enhanced cleanliness and provide consistent water conservation. Dual-flush handles give the user the power to save water and gives them a sense of contribution.
- Food Services
Pre-Rinse Devices*** Replacing existing pre-rinse devices with a 1.24 GPM @ 60 PSI pre-rinse unit for commercial kitchen sinks is an impressive water saver. Most standard pre-rinse units use between 2 and 6 gallon per minute at 60 PSI. The savings is more than 80% and still provides impressive cleaning capabilities.

What the Savings Mean With Zurn EcoVantage® Products

Zurn 1.28 EcoVantage® Closets Water and Cost Savings



- Industry statistics say the average water closet uses per year:
1.6 gallon – 43,200 gallons
3.5 gallon – 94,500 gallons
- Average cost of water:
\$7.00/1,000 gallons
- Closet cost per year:
1.6 gallons = \$302.00/year
3.5 gallons = \$662.00/year
- Average yearly cost of Zurn 1.28 EcoVantage Closet:
2250 flushes x 12 months x 1.28 gallons = 34,600 gallons
34,600/1,000 x \$7.00 = \$242.20/year
- Average yearly savings with the Zurn 1.28 EcoVantage Closet:

| Cost Savings \$\$\$ | Water Savings |
|---------------------------|----------------|
| Vs. 1.6 gallon = \$60.00 | 8,600 gallons |
| Vs. 3.5 gallon = \$420.00 | 60,000 gallons |

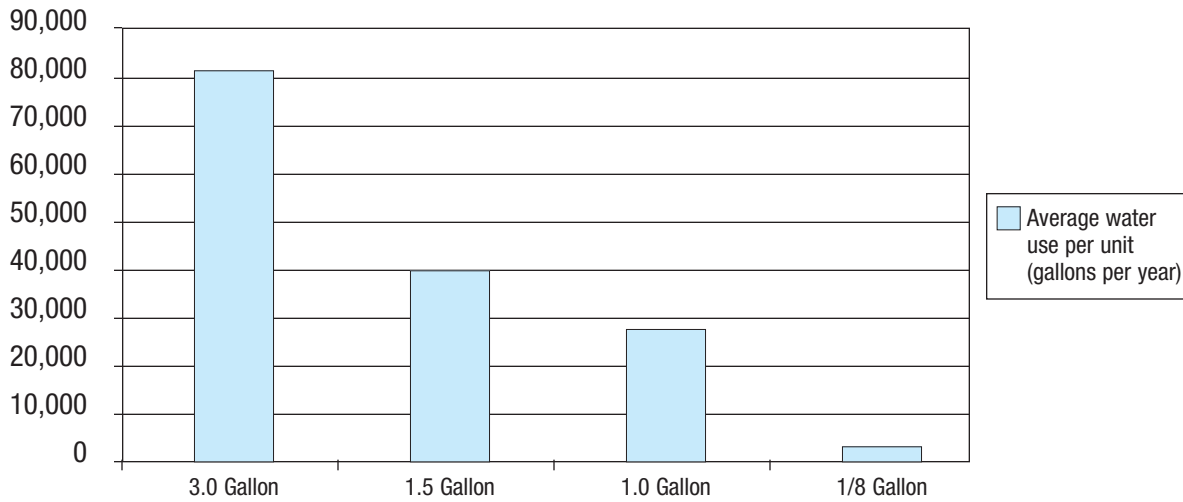
Zurn 1/8 Gallon Urinal Z5798 Water and Cost Savings



- Industry statistics say the average urinal uses per year:
1.0 gallon – 27,000 gallons
1.5 gallon – 40,000 gallons
3.0 gallon – 81,000 gallons
- Average cost of water:
\$7.00/1,000 gallons
- Watered urinal cost per year:
1.0 gallon – \$189.00/year
1.5 gallon – \$283.50/year
3.0 gallon – \$562.00/year
- Average yearly cost of Zurn Z5798 1/8 gallon urinal:
2250 flushes x 12 months x .125 gallons = 3375 gallons
3375/1,000 x \$7.00 = \$ 23.63/year
- Average yearly savings with the Zurn 1/8 gallon urinal:

| Cost Savings \$\$\$ | Water Savings |
|---------------------------|----------------|
| Vs. 1.0 gallon – \$165.00 | 24,000 gallons |
| Vs. 1.5 gallon – \$260.00 | 37,000 gallons |
| Vs. 3.0 gallon – \$543.00 | 78,000 gallons |

Water and Cost Savings Analysis: Urinals



| Compared to This Type of Urinal | Cost Savings Per Year to Use 1/8 Gallon | Water Savings Per Year to Use 1/8 Gallon |
|---------------------------------|---|--|
| 1.0 Gallon | \$165.00 | 23,600 gallons |
| 1.5 Gallon | 259.87 | 37,125 gallons |
| 3.0 Gallon | 542.37 | 77,625 gallons |





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