

Touch-free Urinals with Hybrid and Waterfree Technology

For Water Conservation and Sustainability



Presenters



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Agenda

- Why Waterfree and Hybrid urinals?
- Sloan products and how they work
- Water conservation and hygiene benefits
- Selecting the right technology for your application
- Case Studies
- Summary and Q&A



Sloan HYB-1000-RET hybrid Retrofit urinals at Los Angeles International Airport. Image courtesy D. David.

Why Waterfree and Hybrid Urinals?



Touch-free



Maximum Water Savings



Multiple Designs for Retrofit and New Construction



Hygienic and Odor-free

Types of Urinals



Flushing (Washdown)



Hybrid Retrofit



Hybrid

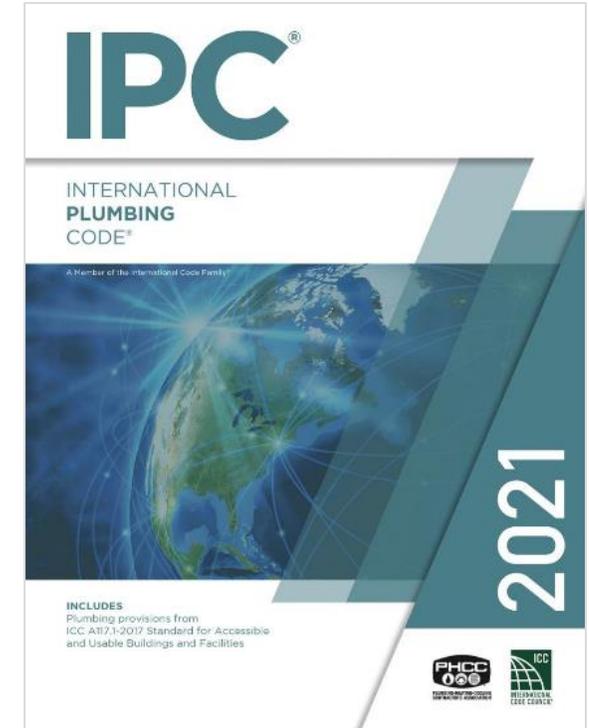
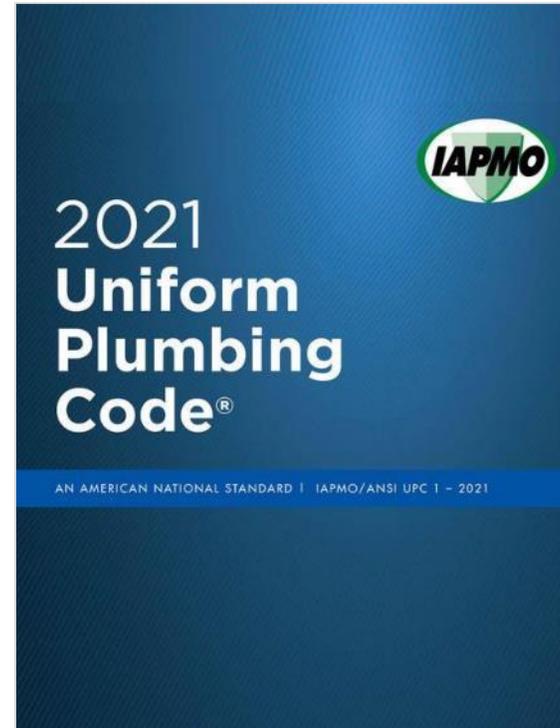


Waterfree



Waterfree and Hybrid Codes

- UPC and IPC permitted fixtures - since 2012
- ASME A112.19.19 ANSI approved consensus standard for non-water urinals (including Hybrid)



High Efficiency Urinals (HEU)

An HEU is a urinal with a maximum flush volume of 0.5 gpf (1.9 Lpf) or less, and must meet the performance requirements of ASME 19.2/CSA B45.1.

HEU options:

- 0.5 gpf / 1.9 lpf
- 0.25 gpf / 0.95 lpf
- 0.125 gpf / 0.47 lpf
- Hybrid: ZERO**
- Waterfree: ZERO**



Sloan HYB-1000 Waterfree urinals at ArcLight Cinemas Hollywood on Sunset Boulevard

Benchmarks for Compliance



Maximum Use (mandatory for new construction)

Closets	1.28 gpf
Urinals	0.125 gpf
Hybrid	
Waterfree	
Faucets	0.5 gpm
Metering Faucets	0.2 gpc
Shower Heads	1.8 gpm + WaterSense

Maximum Use (aligned with CalGreen except for metering faucets)

Closets	1.28 gpf
Urinals	0.125 gpf
Hybrid	
Waterfree	
Faucets	0.5 gpm
Metering Faucets	0.25 gpc
Shower Heads	1.8 gpm + WaterSense

Updated State Plumbing Codes

Closets	1.28 gpf
Urinals	0.5 gpf
Georgia, New York, Nevada, Oregon, Texas, Washington	

Baseline

Closets Tank	1.28 gpf max single flush
Flushometer	1.28 gpf max 1.0 gpf min
Urinals	1.0 gpf max
Faucets Private	1.5 gpm
Public	NA
Shower Heads	2.0 gpm

LEED v4 Credits for Water Conservation

Baseline	
Must reduce by 20% or more to achieve LEED certification and 25% or more to achieve LEED points	
Water Closet	1.6 gpf
Urinal	1.0 gpf
Faucet	0.5 gpm
Shower heads	2.5 gpm



Sloan Hybrid, Hybrid Retrofit, and Waterfree Urinals are able to qualify for maximum water reduction percentage points.

NOTE: The examples in this webinar reference a BD+C project. LEED points are awarded on an aggregate savings throughout an entire project and are not awarded solely due to the installation of a high performance fixture or fitting.

BD+C Building Design and Construction		
Percent Reduction	Points (BD+C)	Points (Schools, Retail, Hospitality, Healthcare)
25%	1	1
30%	2	2
35%	3	3
40%	4	4
45%	5	5
50%	6	-

ID+C Interior Design Construction			
Percent Reduction	Points (Commercial Interiors)	Points (Retail)	Points (Hospitality)
25%	2	2	2
30%	4	4	4
35%	6	6	6
40%	8	8	8
45%	10	10	10
50%	12	-	11

O+M Building Operation and Maintenance		
Percent Reduction	Points (Except Data Centers)	Points (Data Centers)
10%	1	1
15%	2	2
20%	3	3
25%	4	4
30%	5	-

WELL v2 credit



Water Concept - *Hygiene Support Section*

Enhanced Bathroom Accommodations: 1 point for “hands free flushing” (or in the case of Hybrid and Waterfree, “no flushing”)



What Sustainability Tools does Sloan Provide?



[Sustainability Calculator](#)



[Green Product Finder](#)



[Compliance Filter](#)



[Product Rebate Finder](#)

Sloan Products and How They Work

Sloan Urinal Configurator Tool

Filters × Reset All

Flush Method

- Hybrid
- Washdown
- Waterfree

Urinal Type

- Designer
- Small
- Standard

Fixture Connection

- Rear
- Top

SloanTec® Hydrophobic Glaze

- Yes

Compliances & Certifications

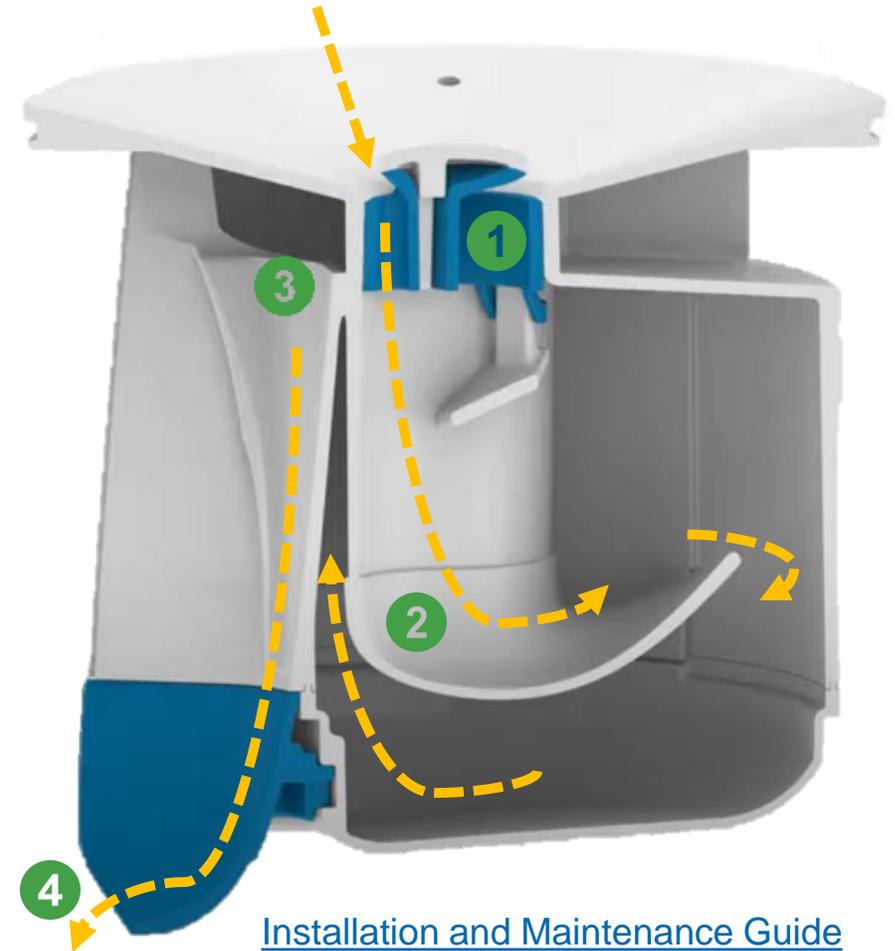
- ADA Compliant
- BREEAM Materials Credit
- BREEAM Water Credit
- CEC Compliant
- CalGreen Compliant
- Carbon Neutral
- Carbon Offset
- Declare
- EPD
- Green Globes Materials & Resources Credit
- Green Globes Water Credit
- HPD
- LBC Credit
- LEED Materials & Resources EPD Credit
- LEED Materials & Resources HPD Credit
- LEED V4 Water Efficiency Credit
- Red List Free
- Satisfies LEED Credits
- UPC Certified
- WaterSense Listed
- cUPC Certified
- cUPC Green Certified

 <p>HYB-1000 Vitreous China Hybrid Urinal</p>	 <p>HYB-1000-RET Vitreous China Retrofit Hybrid Urinal</p>	 <p>HYB-4000 Vitreous China Hybrid Urinal</p>	 <p>HYB-7000 Vitreous China Hybrid Urinal</p>
 <p>SU-1009 Vitreous China Washdown Urinal</p>	 <p>SU-1019 Vitreous China Washdown Urinal</p>	 <p>SU-1209 Vitreous China Retrofit Washdown Urinal</p>	 <p>SU-7006 Vitreous China Washdown Urinal</p>

[Sloan Urinal Configurator Tool](#)

How the WES-150 Waterfree Cartridge Works

1. New cartridge is filled with water and a floating sealant that forms an odor barrier
2. Urine is slowed by baffles
3. Urine passes up and over a trap, leaving some sediment behind
4. Accelerating stream flows out to drain
5. When cartridge starts draining slowly or blue indicators are no longer visible, cartridge is ready to change



[Installation and Maintenance Guide](#)

NOTE: cartridges should be replaced after long periods of inactivity like COVID shut-downs or off-seasons

Waterfree Urinals



WES-1000
"Standard"



WES-4000
"Small"



WES-7000
"Designer"

Hybrid Urinals



HYB-1000-RET
“Standard”
Retrofit



HYB-1000
“Standard”

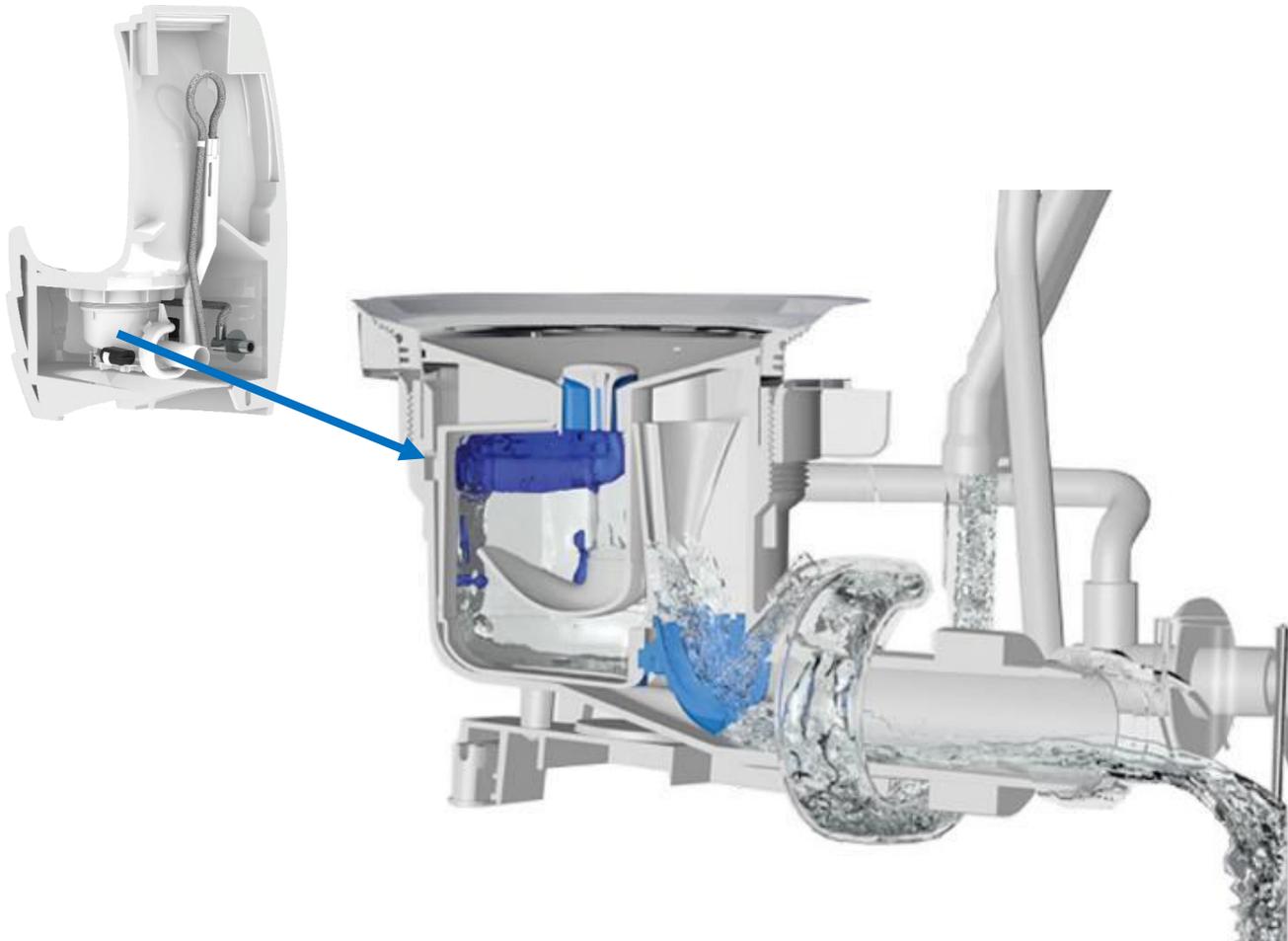


HYB-4000
“Small”



HYB-7000
“Designer”

How Do Sloan Hybrid Urinals Work?



- Adds a JetRinse™ function to replace manual janitorial rinses
- Vigorously injects ~1 gallon/1.8 liters of water through housing and down the drain of the urinal automatically every 72 hours. (Still considered “water-free” for sustainability calculations.)
- 6V lithium battery on solenoid lasts for 8+ years
- Prevents struvite build up in drain nipple that potentially cause most clogs & odors
- Uses only about 100 gallons/380 liters of water per year for JetRinse™
- Connects to 1/2” or 3/8” supplies that plumbers are very familiar with

Hybrid Retrofit Urinals

- Retrofit Hybrid same as Standard Hybrid except:
 - A hole has been added to the top of ceramic
 - 5 piece retrofit kit is packed inside in a corrugated box
- Existing supply stop used as water source for hybrid
- Familiar water connection for plumbers
- Allows seamless replacement of installed flushing urinals





Water Conservation and Hygiene Benefits

Sustainability Calculator

Enter your Sloan product

Type your material number (min 3 chars)

Only sustainable products are being used for the calculator, please check out our [products with lower gallons per flush/minute](#)

_____ Or _____

Product Type
-- Select Type --

Product
-- Select Product --

Water unit
Gallons

Water usage
-- Select Water Usage --

Add another product ⊕

Continue

[Sloan Sustainability Calculator](#)



Enter your project details

Flushometer SOLIS 8186, 0.125 gpf

Number of products
50

Water and sewer costs in dollars (\$) per 1000 gallons/3785.41 Liters
7
National average is \$7

Days of occupancy per year
260
Average number of business days is 260

Number of occupants
50

Daily uses per person
3
LEED Baseline is 3, excluding showerheads

ZIP code of project (for potential water cost savings and incentives)

Calculate

Proprietary and Confidential

Results

SOLIS 8186, 0.125 gpf

Your building's water usage compared to the LEED baseline

	Your Building	LEED Baseline
Gallons per use	0.125	1.6
Uses per day	3	1
Water use (gallons/day)	938	12,000
Water use (gallons/year)	243,750	3,120,000

Your annual product savings



Product specifications

Flushometer SOLIS 8186, 0.125 gpf

Number of products	50
Product type	Flushometer
Product	SOLIS 8186
Days of occupancy per year	260
Number of occupants	50

Start a new calculation

Sustainability Calculator

[Link to Calculator](#)



Assumptions	
Number of Occupants	500
Number of Urinals	50
Annual Occupancy	260 Days (national average)
Water and Sewer Cost per 1,000 gal/3,800 Ltr	\$7 (national average)
Uses Per Day	3 (LEED Baseline)
Postal Code	60131 (Franklin Park, IL)

Savings compared to the 1.0 gpf/3.8 Lpf LEED baseline

	1.0 gpf/3.8 Lpf LEED Baseline	0.125 gpf/0.47 Lpf *	Hybrid	Waterfree
Gallons/Liters Saved Per Year	0 / 0	17,062,500/ 64,588,588	19,500,000/ 73,815,530	
Dollars Saved Per Year	\$0	\$119,438	\$136,500	
Baseline Percentage Reduction	0%	88%	100%	
Potential LEED Points	0 LEED points	6 LEED points	6 LEED points	
Product Positioning	GOOD	BETTER	BEST	

*Sloan SU1204 Urinal w GEM
0.125 XL SF5M Combo 0.125 gpf

What Makes Hybrid and Waterfree Urinals Hygienic?

1. Touch-free

Reducing contact with potentially contaminated surfaces is a proven method for reducing infection.

2. Less wet surfaces

Dry surfaces reduce potential contaminant growth.

3. Splash reduction

Eliminates potential splashing during user flushes.





Selecting The Right Product for Your Facility

Which One – Hybrid, Hybrid Retrofit, or Waterfree?

	Hybrid	Hybrid Retrofit	Waterfree
Touch-free	✓	✓	✓
Maximum Water Savings	✓	✓	✓
Odor Free	✓	✓	✓
JetRinse™ Function	✓	✓	
Existing Facility (Retrofit)		✓	
New Construction	✓		✓
Number of Designs	3	1	3
Potential LEED Points	6	6	6
Potential WELL Credits	1	1	1





Sites and Case Studies

Office Buildings



Century Plaza Towers Los Angeles, CA

Three HYB-7000
Designer Hybrid Urinals
for the men's rooms on
every floor



Vanke Centre Shenzhen, China

The first building in
China to receive LEED
Platinum certification



Merritt 7 Corporate Park Norwalk, CT

23 Waterfree Urinals cut
water usage by 858,000
gallons annually



USGBC Headquarters Washington, DC

The first building in the
USA to receive LEED
Platinum certification

Stadiums and Arenas

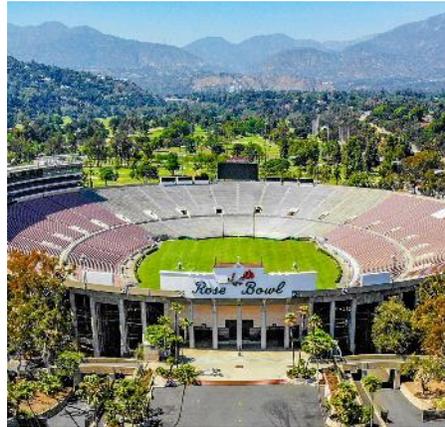


[Charlotte Motor Speedway Charlotte, NC](#)

“Over 100 Waterfree Urinals installed. Fans have readily accepted them.”



Dodger Stadium
Los Angeles, CA



Rose Bowl Stadium
Pasadena, CA



Santa Barbara Bowl
Santa Barbara, CA



[Atlanta Motorsports Park Dawsonville, GA](#)

AMP uses Waterfree Urinals in all men's restrooms

Educational and Cultural Facilities



[School District
Corona – Norco, CA](#)

The fastest growing school in Southern California



[High School
Eagle River, WI](#)

The first LEED Gold certified high school in the United States



[Municipal Buildings
Culver City, CA](#)

A three month study at 6 largest locations documented an average 35% water use reduction



[Museum of Science & Industry
Chicago, IL](#)

Waterfree Urinals and other water-efficiency systems save 1.1 million gallons of water annually

Transportation and Convention Centers



[Michigan DOT
Public Rest Areas](#)

165 Waterfree Urinals in
18 facilities serving 40
million visitors annually



[LAX Airport
Los Angeles, CA](#)

Part of a modernization
project to help serve 75
million passengers
annually



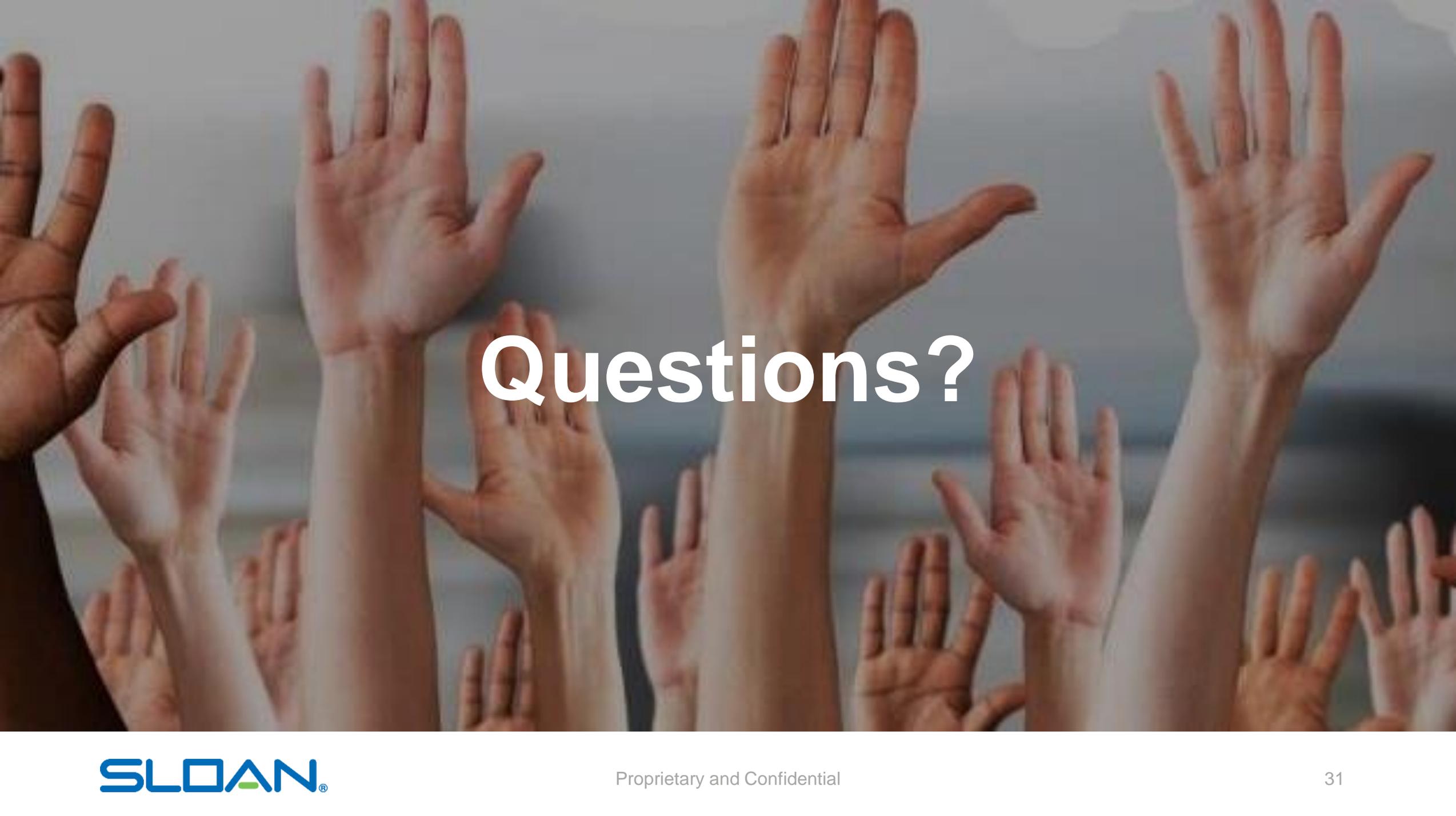
[Convention Center
Los Angeles, CA](#)

Hybrid Urinals helped
achieve LEED Gold
certification

Summary

- Touch-free hygiene
- Maximum achievable water savings
- Multiple designs
- New construction or retrofit
- Odor free
- Rebate opportunities
- Easy maintenance
- LEED points and WELL credit





Questions?

Find your local Sloan representative for more information

Sloan Rep Locator tool

- Local code knowledge
- Familiarity with existing sites
- Product knowledge
- Available for onsite consultation

Sloan Customer Care Center

Phone: 800.982.5839

Hours: 7:00 AM - 5:00 PM (CST) Monday – Friday
customer.service@sloan.com

Sloan Technical Support

P: 888.756.2614

F: 800.737.3061

techsupport@sloan.com



Upcoming Sloan Training Webinars



February 11th

[Coronavirus Relief Funding for
Commercial Restroom
Infrastructure and Hygiene](#)



February 25th

[Sloan Flushometer Care and Service
\(Part 4\) – Side Mount Sensor
Flushometers](#)

Training Comments, Questions, or Suggestions?

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