

**STERN**

MAXIMIZING YOUR LEED



*Stern*

**STERN ENGINEERING LTD.**  
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**stern**  
STERN ENGINEERING LTD.

# STERN. Always committed to green building and water-efficient products

Stern Engineering gives high priority to products that address today's water conservation concerns, as well as water quality and accessibility. With more than two and a half decades of specialization and experience, Stern's technology leads and set the industry norms.

Alongside the technological development, Stern plays a central role in reinventing the role of electronic faucets: from hygienic and water-saving products designed for public washrooms to reliable, safe and green products for the public and residential sphere.

We are committed to providing smart water delivery solutions that maximize water savings without sacrificing the users' experience or the products' durability and lifespan.

Stern is proud to partner with the Israel Green Building Council (ILGBC), a partnership designed to conserve the scarce water supply and promote water efficiency and conservation.



## What is LEED?

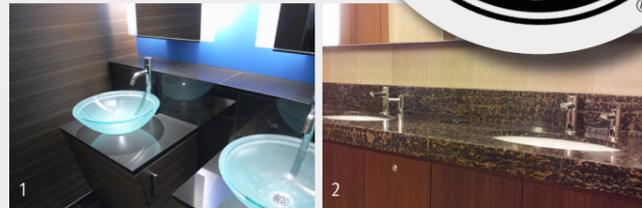
LEED, Leadership in Energy and Environmental Design, is a third party certification developed by the USGBC, US Green Building Council. LEED has the nationally accepted benchmark for the design, construction, improvement and operation of high-performance green buildings.

The certification system encourages global adoption of sustainable practices by setting performance criteria for key human and environmental health issues: sustainable site development, water and energy efficiency, material selection and indoor quality.

The LEED system applies to a wide variety of buildings: from commercial and office buildings, universities and schools, hospitals, hotels, warehouses to family houses and residential complexes. Each has custom rating system. The LEED program awards cumulative points for all aspects of green design, including water conservation and energy efficiency.

## Earning points and levels of certification

Stern's products greatly contribute towards a LEED certification. In the water-efficiency category of the New Construction rating scale, 20% reduction in interior aggregate water consumption is the prerequisite for LEED qualification. Two LEED points are credited for achieving a 30% percent reduction; an additional point is earned for a 35% reduction; and a final point for 40% percent reduction.



Based on the total number of points earned, LEED awards one of four levels of certification: Certified, Silver, Gold and Platinum. All certified projects receive a LEED plaque, the nationally recognized symbol of a profitable, healthy and environmentally-responsible building.

## Products that LEED the way

From faucets and showerheads to state-of-the art aerators, Stern has hundreds of water-efficient products. All are designed to help environmentally-conscious developers, property owners, architects, contractor and builders to conserve water and lower energy costs.

Stern faucets and flush valves products constantly reach maximum LEED scores for water conservation. Our water-efficient solutions maintain the habits of the population without sacrificing design – all while increasing efficiency, performance and reliability.

1. New Otani Hotel, Tokyo, Japan
2. Novena Hospital, Singapore

## Stern products and LEED points

Source: LEED v4, updated: July 1, 2015

Products	Energy Policy Act of 1992	LEED 2015 prerequisite	LEED 30% (2 points)	LEED 35% (3 points)	LEED 40% (4 points)	STERN's best solutions
Flush valves for toilets	6.0 lpf 1.6 gpf	4.80 lpf 1.26 gpf	4.20 lpf 1.10 gpf	3.90 lpf 1.00 gpf	3.60 lpf 0.95 gpf	3.37 lpf 0.89 gpf 44% Reduction
Flush valves for urinals	3.8 lpf 1.0 gpf	3.04 lpf 0.80 gpf	2.66 lpf 0.70 gpf	2.47 lpf 0.65 gpf	2.28 lpf 0.60 gpf	1.89 lpf 0.50 gpl 50% Reduction
Shower heads	9.5 lpm 2.5 gpm	7.60 lpm 2.00 gpm	6.65 lpm 1.75 gpm	6.17 lpm 1.62 gpm	5.7 lpm 1.5 gpm	5.70 lpm 1.50 gpm 50% reduction
Faucets	8.3 lpm 2.2 gpm	6.64 lpm 1.76 gpm	5.81 lpm 1.54 gpm	5.39 lpm 1.43 gpm	5.00 lpm 1.32 gpm	4.00 lpm 1.05 gpm 48% Reduction

lpf – Liters Per Flush / gpf – Gallons Per Flush | \*lpm – Liters Per Minute / gpm = Gallons Per Minute\*

### Faucets

All of Stern's faucets meet WaterSense criteria and provide six or four liter per minute flow rate (standard flow rate is 8 LPM) without sacrificing performance.

The result is up 50% water conservation, higher than the maximum LEED rating. Stern offers an effective way to reduce the costs of water

dispensing in public areas by minimizing the amount of wasted water. Unlike manually-operated faucets, that are often left running or only partially shut off, electronic faucets automatically stop after use. This ensure water conversation and saving on water expenses, generating 70% more water saving than regular faucets.

Stern faucets also include a Security Time limiter, adjustable by remote control. The Security time control prevents continuous flow of water. By default, if the sensor is covered for more than 90 seconds, the water flow will stop automatically. This security feature can be used to reduce the actual water flow as well. For example, a security time of 20 seconds using a six l/m aerator will dispense a cycle of only two liters.

### Aerators

Faucet aerators are simple add-ons that make any public faucet compliant with many program certification standards. For example, faucet aerators force air into the water stream to maintain pressure with less water. Stern's aerators reduce the flow from the standard eight liters per minute to four or six liters per minute while maintaining performance. Effectively you expect, effectively using up to 50% less water.

### Shower Heads

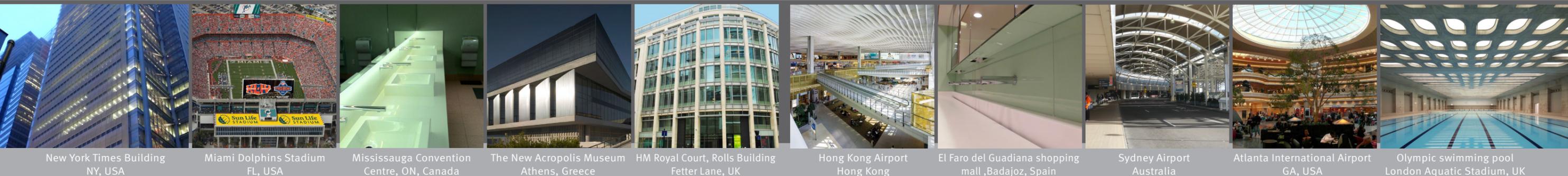
Stern's showerheads help maximize LEED point with a 9 liter flow and use up to 30% less water. Stern offers electronic shower control and vandal-resistant showerheads, which compose a durable, reliable, water-saving product.

### DUET – Dual flush Infrared system

DUET delivers three liters of water for liquid waste and six liters for solid waste. To achieve more LEED points, Stern can supply a 4.5 liter flush for solid waste. With the reduced full flush liters, the average flush is reduced to about 3.37 liters (based on an approximate ratio of three "half" flushes for every "full" flush), thus saving 44% more water than a standard six-liter toilet flush valve. Flush time can also be adjustable by remote control.

Save water, save money. Save the environment.

Some of the notable buildings which feature STERN products



New York Times Building  
NY, USA

Miami Dolphins Stadium  
FL, USA

Mississauga Convention  
Centre, ON, Canada

The New Acropolis Museum  
Athens, Greece

HM Royal Court, Rolls Building  
Fetter Lane, UK

Hong Kong Airport  
Hong Kong

El Faro del Guadiana shopping  
mall ,Badajoz, Spain

Sydney Airport  
Australia

Atlanta International Airport  
GA, USA

Olympic swimming pool  
London Aquatic Stadium, UK