

Dartford Hilton Goes Waterless with Urinals From The Rodin Group

Location

Hilton Hotel, Dartford, Kent

Objective

To save water by replacing 6 traditional flushing urinals with 4 Falcon waterless urinals.

Background

Before re-furbishment the gentlemen's toilets just off the reception area had 6 urinals but Maintenance Manager Ashton Woodley decided that 4 were more than enough to meet the demand from the nearby lounge and café area. The Rodin Group supplied their Falcon Flax ceramic urinals which are available as either a bottom drain version or, as in this case, a back drain version. Installation proved very straightforward as there are no mains water connections needed, just a simple connection to the drain.

The Advantages of Waterless Urinals

Using water to dispose of urine (which is 97% water) makes no economic sense and waterless urinals save in a number of important ways.

1) The absence of a flushing mechanism reduces the purchase price and also makes them cheaper to purchase and install. All you need is a drainage outlet, approximately 1 hour for the actual installation and 3 to 5 minutes to install the waterless cartridge. Urine passes into the cartridge through the Allseal sealant which is less dense than both water or urine. This forms a barrier on the surface allowing urine to pass through and flow through the cartridge into the drain. The cartridge then collects uric sediment translating into an odour-free washroom and zero water waste.

2) They reduce energy costs. No water means you save 100 per cent of the water charges associated with old style urinals and also enjoy reduced sewage charges. Wider environmental savings include the elimination of the energy costs associated with pumping water to and from the fixture as well as the energy necessary to treat approximately 150,000 litres of diluted urine per fixture per year.



3) There are reduced maintenance costs. Maintenance for a Falcon waterless urinal amounts to periodic changing of the touch free cartridge and the same standard clean up associated with traditional urinals. No flush means no stuck or broken valves and since no hard water runs through the sewage lines they remain free of calcification and that means reduced costs associated with pipe cleaning. Daily cleaning is also faster as there is no need to scrub

The Rodin Group Ltd
the water friendly company



The Oast, 62 Bell Road
Sittingbourne, Kent, ME10 4HE
T: 01795 423400 F: 01795 436070
E: info@therodingroup.co.uk W: www.therodingroup.co.uk

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minerals left behind by water. As well as the flush controls, sensors and valves, the system removes most of the other equipment associated with such installations, including pipework and cisterns. These are not only costly to initially install but also incur annual maintenance costs. In addition faulty elements can lead to urinals either leaking continually or flushing more regularly than required. In a waterless urinal installation none of these things can occur.

4) Washrooms are more hygienic with lower bacteria levels when waterless urinals are installed. Without flushing water, there are no bacteria-spreading flush plumes. This means that the area around the waterless urinals and the entire washroom is cleaner and more hygienic.

5) Falcon waterless urinals also reduce washroom odours by providing an effective barrier from the drain by using the waterless patented urinal cartridge, housing and Allseal sealant. The cartridge's airtight seal combined with the Allseal liquid is estimated to be 500 times more effective than conventional P-traps.

Design

The Falcon Waterfree system consists of a vitreous china or stainless steel urinal bowl with a patented cartridge that locks into the housing at the base of the urinal. The design of the urinal bowl and use of nonporous materials ensure that the surface dries quickly after use. The Falcon touch free, waterless, patented urinal cartridge is made out of non-stick, non-porous material and is designed to provide a barrier between the washroom and the drain.

The Falcon cartridge also features an O ring which provides an airtight barrier between the cartridge and the urinal itself. The only maintenance required is routine cleaning of the fixture and an easy change of the cartridge, two to four times per year (depending on the use).



Conclusion

One year on, Ashton Woodley and his team at the Dartford Hilton are very happy with their decision to install them. "We've had no issues since the installation and we're continuing to look for innovative ways to save even more water."

The Rodin Group was established in 1992 and has grown by identifying products that address environmental and cost issues in relation to water treatment and water consumption. Their product range includes commercial scale inhibitors, back-wash filters and disinfection systems as well as water conserving showers, taps and urinals.

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