



Waterco's EcoPure glass media removes 30 per cent more materials and pollutants than sand, which saves time and water

Waterco Case Study | Waterco Leisureland Swimming pool

The benefits of Waterco's EcoPure glass media is as clear as glass

Less maintenance and reduced environmental cost is the name of the game in the complete refurbishment of South Ireland's Leisureland Leisure Centre.

Located in Salthill in Galway, Ireland, Leisureland's large 800m³ indoor concrete main pool and kids' pool are serviced by a total of five steel fabricated filters operating with sand media.

With a bather load of 250,000 per year (approximately 700 people per day) a new filter media solution was needed to reduce the amount of maintenance and lower the cost of regular media replacement.

"As a solution to this problem, we suggested replacing the sand filter media with Waterco EcoPure glass media," says Tony Fisher, managing director of Waterco Europe. "EcoPure Glass media is a high quality recycled glass which is fast becoming the preferred choice of many installers when looking for an alternative to conventional sand.

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says Tony Fisher,
managing director of Waterco Europe.

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“Tom Wheeler, consultant engineer from Noel Lawlor and Associates, was particularly interested in the cost savings in relation to reduced chemical consumption, heating and backwashing.”

Sean Asple of Pool and Spa Ireland, which designs, installs and services swimming pools, worked with Leisureland on the installation, which included a total quantity of 30 tonnes of Waterco EcoPure Glass Media. Two different grades of media were used—a grade three base layer covered the laterals, and one metre bed depth of grade one media was also used.

Previously, the sand media system was causing some headaches for the staff at the centre.

“The media was getting old, and delivering pretty poor filtration, as the media was all blocked up,” explains Tony. “Waterco’s EcoPure glass media removes 30 per cent more materials and pollutants than sand, which saves time and water. It is also much less susceptible to bio-fouling, and lasts much longer than sand without needing replacement.”

Leisureland is a complete entertainment facility, with a fully fitted gym and fitness centre, a mini golf course, outdoor fairground, restaurant and events centre onsite along with the large main pool and kids’ pool.

As a public facility, Leisureland also needed to keep safety and environment in mind.

“Other media can contain variety of contaminants, whereas EcoPure is chemically inert, leaving no nasties in the water,” explains Tony. “It doesn’t contain any crystalline free silica or heavy metals. The media is also made from 100% recycled glass, making it environmentally friendly.”

Waterco’s EcoPure glass media at a glance

- Operates using depth filtration
- Save time and water-less backwashing
- Save money on chemical treatment costs
- Less susceptible to bio-fouling
- Removes 30 per cent more pollutants than sand media
- Less dense than sand-require less media to fill the equivalent filter
- Slow degradation, meaning longer media lifespan and less replacement
- Chemically inert for superior purity
- Made from recycled glass



30 tonnes of Waterco EcoPure Glass Media replaced the sand filter media in five steel fabricated filters.



Waterco’s EcoPure glass media is made from 100% recycled glass, which has undergone a specialised heat treatment process to extend its life span.