

CASE STUDY

PONTARDAWE

- Pontardawe is a community leisure centre run by Celtic Leisure Trust on behalf of Neath Port Talbot Council.
- The centre has a 25 metre 6 lane main pool and a smaller teaching pool.
- The main pool water was filtered using the original horizontal filter.
- In 2017 examination of the main pool filter showed that it had reached the end of its useful life and needed to be replaced.
- The problem was that there was no way that new steel or fibreglass filters could be got into the plant room without major building work. The only access was down a narrow passageway.



Restricted access to plantroom



Six membrane system installed



Assembled in what was effectively a passageway

Celtic Leisure decided to look at using the Danish ceramic membrane filters marketed by Total Pool Limited in UK. They knew these filters were being widely used in Scandinavia. These filters were more expensive than conventional sand filters but were fully automatic and had superior performance to sand filters. However, the main advantage was that they were modular and could be assembled in the plant room; also, they had a much smaller footprint than the sand filters so they could be installed in a small available space whilst keeping the old sand filter operating, so there would be no interruption to service and no loss of revenue.

A six-membrane system was installed in February 2017.

It was carried in by Total Pool Limited installation team in sections and assembled in what was effectively a passageway.

The system is completely automatic and requires no input from the on-site staff at all. It is continuously monitored over the internet by Total Pool Limited.

Nathaniel Davis, manager of Pontardawe leisure center says "Since we installed the Ceramiflo filters the water has been absolutely

sparkling. Also, we have dramatically reduced both the water usage and chemical usage. Because the units are fully automatic there is no need for staff to back wash the filters after bathing for the day has been completed saving overtime".

Anthony Pugh of Celtic Leisure says "Part of the reason for choosing the Ceramiflo filters is that if we get the go ahead for a new pool at Pontardawe the filters can be stripped down and re-assembled at the new pool".

Summary of benefits that Ceramiflo achieves over traditional sand filtration:

- Footprint of only 1/3 compared to sand filters so plant rooms can be much smaller
- Save up to 70% of water
- Save up to 50% of chemicals
- Fully automatic backwashing, so no on-site operative required
- Remotely monitored
- Better performance than sand filters with 3-micron filtration as opposed to 10 micron
- No degradation in performance after backwashing
- Lower energy usage due to low pressure drop across the filters
- Crystal clear pool water (0.2 NTU)



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