

TUBEdek™ delivers robust Lamella Settlement solution



Northampton, UK 28th November, 2011 – **GEA 2H Water Technologies** wastewater treatment equipment contractors have delivered an innovative water treatment solution for Wessex Water's Poole sewage treatment plant.

Nathan Parkinson, Small Schemes Project Manager, Wessex Water said *"Problems with an existing settlement application fitted with a plate type lamella system were causing by-pass issues and made the settlement system difficult to operate and maintain and this led to the review of the water treatment system being used."*

GEA Water Technologies Ltd were invited to site by Wessex Water in their search for a more robust solution that would prevent the by-passing and improve the longevity of their installation. The evaluation resulted in a recommendation by GEA 2H for their TUBEdek™ type FS41.84. This was accepted as a solution to provide the optimum treatment and robustness required. The media was ordered to completely fill one of the three duplex treatment lanes on site as a full scale trial. Each duplex channel receives a flow of 1440m³/h between the two tanks 8m long x 4.5m wide.

The performance of the TUBEdek™ type FS41.84 media fulfilled all the expectations of Wessex Water and the media to fill the second lane has been ordered and will be installed early in 2011.

Richard Manning, MD GEA 2H stated *"TUBEdek™ system is a lamella settlement clarification system comprising modules of interlocking plastic tube settlers which allows the efficient separation of solids from liquids, an essential part of sedimentation plant."*

The modules supplied were custom sized to the same width as those removed to ensure that they would fit on the existing media supports.

Design Highlights

The FS41.84 TUBEdek™ **Lamella Separators** comprises interlocking (tongue and groove) profiles which are assembled to form modules for installation into the clarification system - the module shape encourages laminar flow and all modules being connected provides a robust solution.

When assembled these profiles ensure the most efficient laminar flow to deliver a high level of water solid separation

Once the solids are separated out, the 'V' shaped profile of the tubes facilitates counter-current flow allowing the flocculated solids to settle out and gravitate to the base of the tank whilst the clean water rises through the modules to be drawn off for further treatment. This configuration also provides easier access for cleaning and maintenance.

More information on **Lamella Settlement Treatment** <http://www.gea-2h.co.uk/lamella-settlement/>
Learn more about our **Design Service** <http://www.gea-2h.co.uk/contact-us/design-advice/>
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GEA 2H Water Technologies Ltd (GEA 2H) is the UK's leading manufacturer of plastic media for water management plant. Its applications are for utilities, such as electricity generation, water supply and waste water; general industrial water cooling and commercial and domestic storm water control and attenuation. GEA 2H sell direct and indirectly via agents and builders merchants and work closely with specifiers, architects and civil engineers in the design and installation of a wide range of industrial projects.

During its 30 years in business, GEA 2H has built an outstanding reputation for quality products and services. GEA 2H comprises the former Environmental Control Division of Munters, Ranik and 2H Aqua operations. GEA 2H supports customers in the UK, Eire and Middle Eastern countries.

GEA 2H Water Technologies is part of the GEA Group AG, one of the largest suppliers of process technology and components for the food and energy industries. As an international technology group, the Company focuses on sophisticated production processes. In 2010, GEA generated consolidated revenues in excess of EUR 4.4 billion, 70 percent of which came from the food and energy sectors, which are long-term growth industries. The group employed about 23,000 people worldwide as of March 31, 2011. GEA Group is a market and technology leader in its business areas. It is listed in Germany's MDAX stock index (G1A, WKN 660 200).