

LAUNDER CHANNELS

Arm fibre launder channels provide a cost effective, easy to install alternative to steel and concrete channels. Several designs are possible including 'Z' shaped launders bolted directly to the walls of steel tanks or traditional 'U' shaped supported by steel brackets and double weir launders for higher flow rates.



Launder channels must be designed to resist the upthrust generated by tank filling and normal running conditions as well as supporting the weight of maintenance personnel. The loads can cause bending and twisting of the launder section but Arm fibre launders are designed to ensure stresses and deflections are kept within acceptable limits.

Straight and custom design channels are also available.



HOUSINGS

From a customised Instrumentation Box to a fully flexible, full height, fully insulated Machinery Enclosure, Production Glassfibre has the most extensive range of Housings available to the water treatment industry. Available in single or double skin with a moulded external finish in any chosen colour, these housings can accommodate any variety of doors, windows, vents and hatches



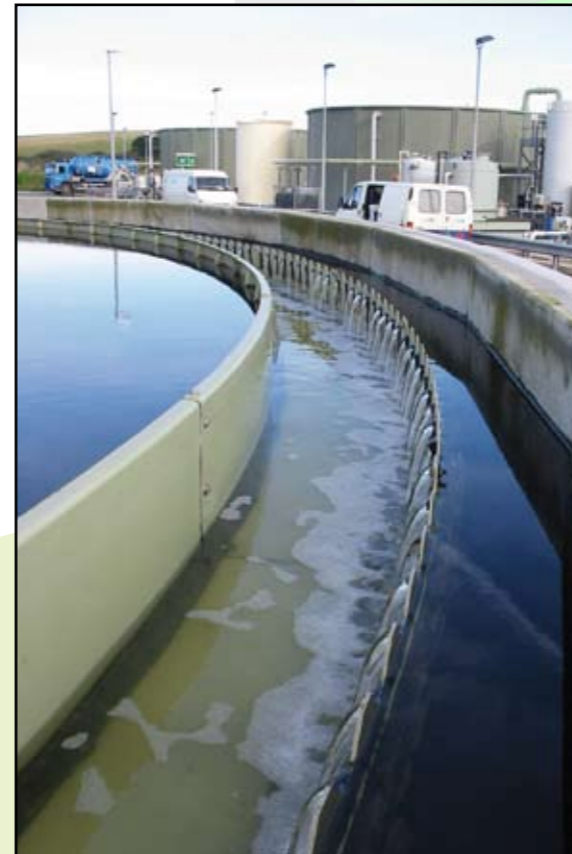
CLADDING

From a simple, single colour, smooth moulded panel to a stone-effect system with metallic soffit surrounding a 45m. diameter rainwater tank, Production Glassfibre has the capability, scale and experience to fulfil any cladding need.



ARMFIBRE ~ WATER TREATMENT PRODUCTS

Arm fibre glass fibre products have been a mainstay of the Water Treatment industry for more than 25 years. With unrivalled design experience and a production capability now unmatched in Europe, our Settlement Tanks, Weir Plates, Scumboards Diffusion Drums and Launder Channels can be found in WT plants the length and breadth of the country.



Employing 250+ people and operating from modern factories in Bedfordshire, Lancashire and Scotland, we are uniquely resourced to provide the highest levels of local service to water sector contractors anywhere in the United Kingdom. **With an experienced design team** utilising the most up to date CAD facilities, in-house pattern & mould making capability at all plants, an extensive range of standard products and a full installation service if required, it's highly likely that an Arm fibre product will be the best option for your project. And because we are the UK's largest glass fibre moulder, our purchasing power and production productivity should ensure that we are also offering the best value in the market.

With its resistance to corrosion, flexibility of design, minimal maintenance requirement and high strength to weight ratio, the headline benefits of glass fibre are well known. By applying our capability and capacity to the materials unique characteristics, water treatment solutions can usually be found to satisfy design, project and value engineering requirements.



production **GLASSFIBRE**

THE UK'S LARGEST GENERAL MOULDER

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CONICAL SETTLEMENT TANKS

The use of upward flow Conical Tanks is well established on sewage treatment works for both primary and secondary settlement.

The major benefit of using Armfibre tanks over conventional reinforced concrete structures is the ease and speed of site construction. Usually, the tanks can be assembled, placed in a prepared excavation and backfilled with concrete all within a single week. Further savings then accrue from our ability to factory fit all accessories including inlet and outlet pipe connections. Thereafter, the material characteristics of glassfibre will ensure its longevity and structural reliability.

Operationally, the inert, smooth internal surface of the tank slopes to the bottom at 60 degrees allowing sludge to be readily collected for removal by whatever system is employed. And unlike rectangular pyramidal tanks, there are no internal corners to trap pockets of sludge.

Design & Specification

All sizes of tank use a common one-piece cone which is heavily reinforced to form a solid platform on to which additional conical and/or sidewall sections are assembled. All joints are externally flanged and bolted; internal sealing is by highly resilient polymer. S/S fixings and washers are used throughout.

All tanks incorporate an integral peripheral launder channel with a suitable outlet, allowing the full surface area of the tank to be used for treatment. V-notch weir plates fixed to the sidewall form the internal wall of the launder.

Twin galvanised mild steel channels are supplied, used to support the central diffusion drum and pipework. They can also be utilised to form a pedestrian access bridge.



V-NOTCH WEIR PLATES

V-Notch Weir Plates are manufactured from 2m. long press moulded GRP sheets to give a dense, void free product with a smooth surface on both sides. Trimming, slotting and cutting is carried out by a CNC process to ensure clean and dimensionally accurate products. The plates incorporate an internal joggle to obviate the need for lap plates, and all fixing is by 50mm slots to give +/- 25mm adjustment.

Flow rates through the notches are calculated using BS6380, and as a guide, flow through a single 90° notch (25mm head) is approximately 0.15 l/s.



THICKNESS	DEPTH	PROJECTION
4	200	100
6	200	110
6	250	150
6	300	150
8	300	200
8	330	200
10	350	250
10	400	250
10	450	250

PRE-CURVED SCUM BOARDS

Developed to overcome the shortcomings of conventional flat scumboards, the curved design creates a smooth regular surface which doesn't distort when in contact with the skimmer blade. The profile means that it is extremely rigid and therefore requires only a single support bracket per board for quick and economical installation.



DIFFUSION DRUMS

Armfibre diffusion Drums are available in diameters up to 10m. Depth can be varied in increments of 250mm, with deeper units being made up of multiple tiers, bolted together. The top flange of the Drum is stiffened to allow bolting to the support structure, with additional ribs incorporated when required. Scum doors and baffles can be added.

