

Picket Fence Thickeners

Response Group

Equipment
Data Sheet #: 28



Half Bridge
Scrapers

Picket Fence
Thickeners
(PFT)

Grit Traps

Recent Installations

- Monasterevin WWTP
- Templemore WWTP
- Ballina WWTP
- Wexford Co-op ETP
- Kildare Chilling ETP

Response Group manufacture Picket Fence Thickeners (PFTs) for the initial treatment of sludges in the wastewater industry. The Picket Fence Thickener is designed to promote agglomeration of the sludge particles and produce a post-clarifier sludge with higher solids concentration. The Picket Fence Thickener as the name suggests comprises a series of vertical posts supported on a structure that spans the consolidation tank. As the picket fence rotates slowly about the centre of the tank a series of vertical passageways are generated which permit the movement to the surface of separated water and micro-bubbles released from the floccs. The Picket Fence Thickener is a fixed bridge structure.

The basic PFT includes the bridge structure, drive unit and motor, central drive shaft, diffuser box and picket fence assembly with scraper blades. In situations where desludging is likely to create odour nuisance a removable GRP roof can be supplied for odour containment prior to filtration.



Key Features

- Galv. MS Bridge Structure
- Galv. MS Open Flooring
- Galv. MS Diffuser Box
- Galv. MS Central Shaft
- Galv. MS PFT Assembly
- Galv. MS V-notch Weirs
- Galv. MS Scum Removal Unit
- 3 Coat Epoxy to all Galv. MS
- Central Drive Unit
- Electrical Torque Protection
- Emergency Stop Button
- IP 55 Protection

Optional Features

- Variable Speed Drive
- Side-wall Scrapers
- Automatic Desludging
- Park Position Switch
- Bridge Access Ladder
- AL or GRP Weir Plates
- Aluminium Bridge Decking
- Removable GRP Roof
- Rotary Channel Brushes
- Pressure Channel Washers
- Polyelectrolyte Dosing Unit

Dissolved Air
Flotation (DAF)
Units

Surface Rotors
/ Aerators

Rotating Bar
Interceptors
(RBI)

Tipping
Buckets

Dissolved
Aerations

Penstocks /
Stoplogs

Packaged
Pump Stations

Further information on our full range of products can be obtained at our website www.response-group.ie