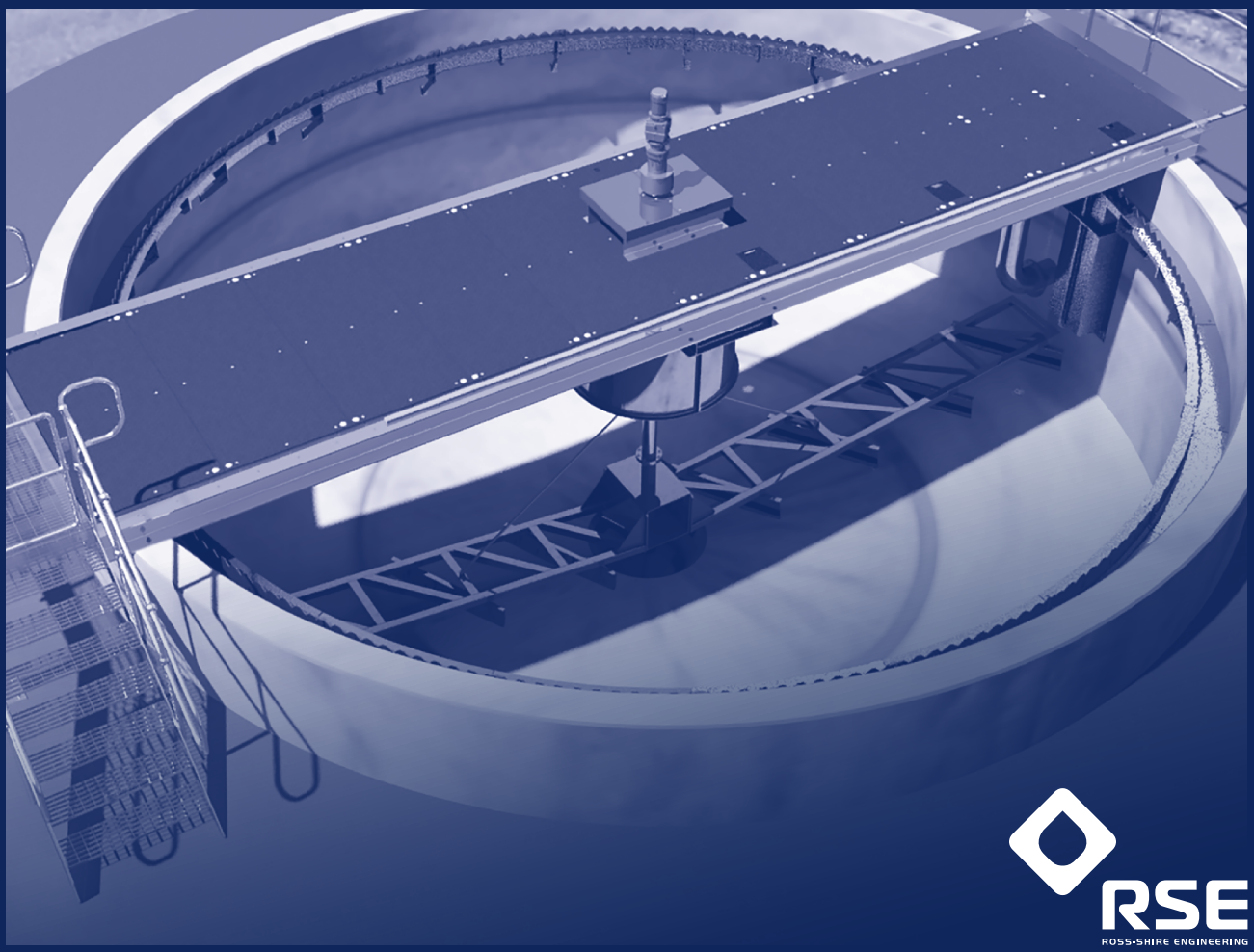
RSE Product Documents
February 2021

Fixed Bridge Thickeners and Tank Systems

Waste Water Treatment Range

www.ross-eng.com



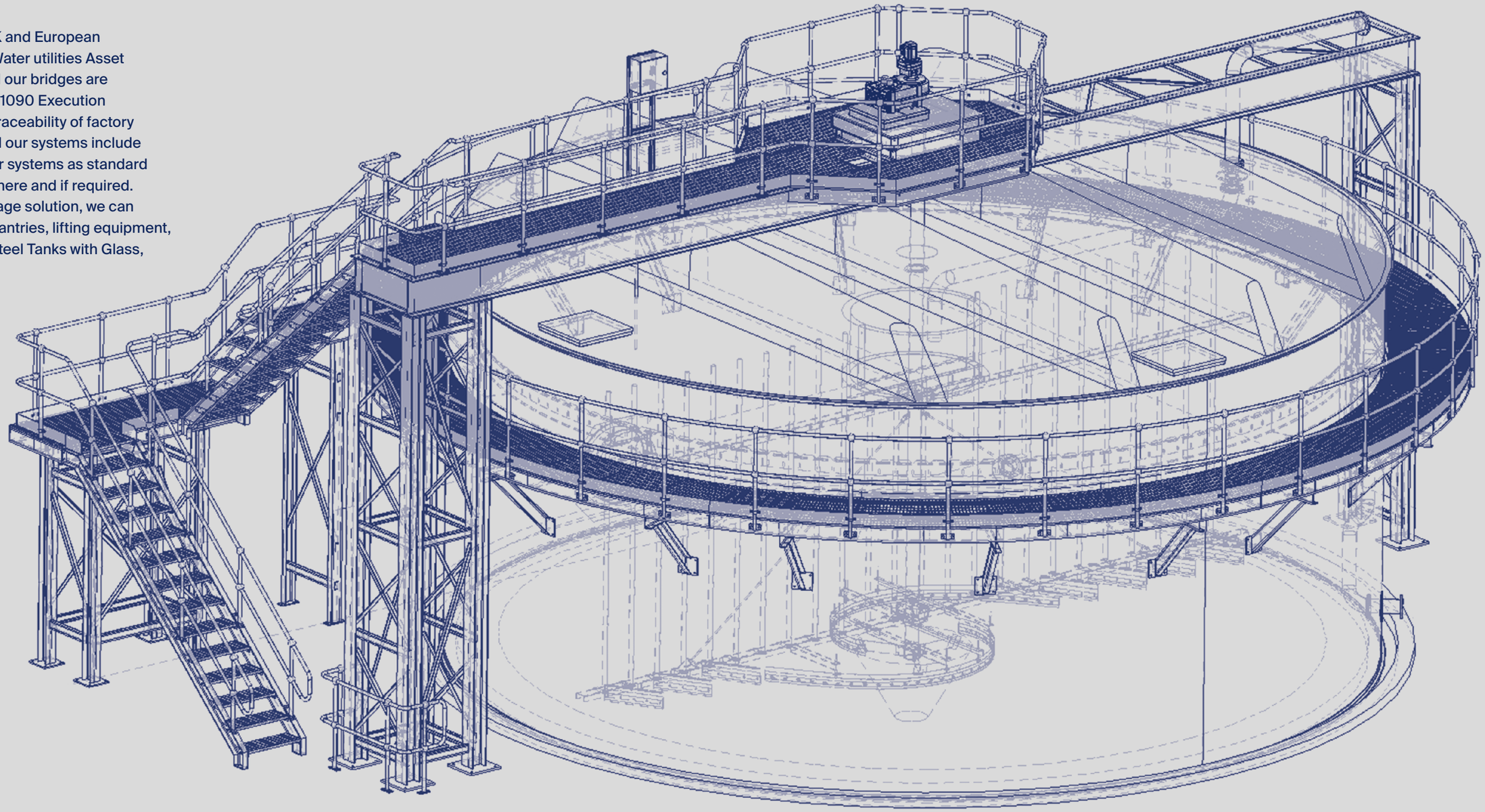
RSE
ROSS-SHIRE ENGINEERING

i.

About our Fixed Bridge Thickeners and Tank Systems

i.i Introduction

Fully compliant with UK and European Legislation, WRc and Water utilities Asset engineering criteria. All our bridges are manufactured to BSEN1090 Execution class 2 along with full traceability of factory production controls. All our systems include Stainless steel Launder systems as standard and associated GRP where and if required. As part of our full package solution, we can also offer associated gantries, lifting equipment, Pre-cast concrete or Steel Tanks with Glass, or Epoxy lining.



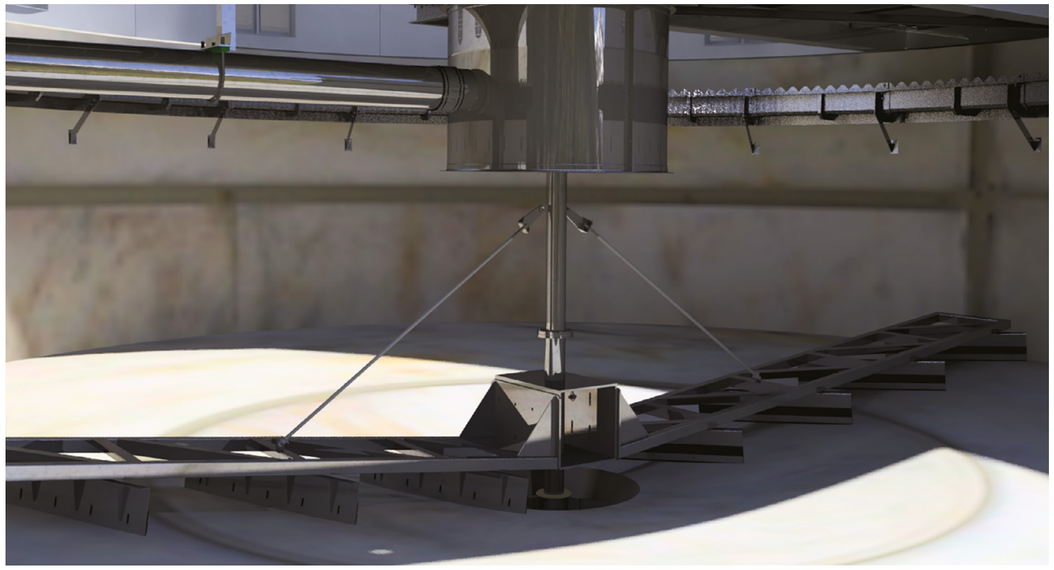
1.

Rotational Picket Fence and Thickener and Tank Systems

1.1 RSE design, manufacture and install

Standard and Bespoke Picket Fence Thickener systems ranging from 5M to 40M diameter.

All our systems include Stainless steel Launder systems as standard and associated GRP where and if required. As part of our full package solution, we can also offer associated gantries, lifting equipment, Pre-cast concrete or Steel Tanks with Glass, or Epoxy lining, with Stainless Steel or GRP roofing as required.



2.

Rotational Centre Drive Thickener Systems

2.1 RSE design, manufacture and install

Standard and Bespoke centre drive Sludge thickeners 5M to 40M diameter.

Designed to Client specification with size appropriate materials to ensure functionality over the asset life cycle, with BIM level compliant output available for review.

Support Service

BIM 360 & C360 Project Design & Paperless Solutions Approach

Compliant BIM Models and Paperless review solutions.

RSE provides BIM Compliant 3D data including preliminary and known technical data, shared through BIM360 project specific portals, initially to BIM level 1 however, Level 2 and 3 data can be prepared upon request.

Supply of both Standard product and Site specific E-manuals on Technical documents can be either submitted separately or integrated to IFC format data for Life cycle asset management for an additional fee.

Client data will be passed over to the RSE Design team for more detailed configuration development. This data forms the primary basis of the final design ready for any feedback or amendments submitted to the project team thereby allowing for improved revision turn around times and utilisation of 3D design review. The aim is to reduce overall project delivery time from enquiry to installation reflecting design changes and as built modifications in as short a time as possible. Traditional 2D drawings can also be made available if required and shared the same way to suit clients' in house software and capabilities.

What BIM can offer

1

BIM Level 1 Simplified 3D data models can be supplied compatible with various 3D and 2D software to incorporate into wider systems. These include, but are not exclusive to Navisworks, AutoCAD and Solid works.

2

Project documentation can be submitted in EPUB, 3D PDF, and 2D PDF, along side traditional hard copies to In-house or Client document standard.

3

BIM compliant Tendering Tools via an online portal to Framework clients allowing them to preconfigure Half or Full span PST, HST, and FST systems up to Ø50m spans, options to both our verified structural bridge designs and/ or Client specifications automatically.

4

A variety of peripheral equipment options and Material in line with project requirements, to suit client requirements and review proposed solutions.

5

Finite Element Analysis video output allows client to see the stress and strain as they are applied to the design, and visually see the potential reactions as the load or pressure builds.

6

Video studies can be used to collaboratively discuss design solutions that evolve between concept and design.

7

and **final supply**, with key understanding as to what has changed and why, the reliability of the solution is assured.

Along side our High quality system we also offer

1. Offsite monitoring of our equipment which enables notifications to our database and end client as an option.
2. Centre Bearing assemblies situated above the walkway to enable easier maintenance without having to drain the tank or access into the tank.
3. In-house manufacturing, load testing and Pre-site assembly, to ensure our products are fully compliant and to the highest quality before delivery and installation.
4. Full support through design, installation and commissioning, with structural design calculations and FEA Analysis with Video simulation output.

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