

Caversham Weir Reading Hydroelectric Project

Construction Materials

Document Control

Version	Date of Issue	Author(s)	Reviewed by
01	February 20	Matt Lomax	Rich Spurr

Contents

1	INTRODUCTION	2
2	MATERIALS	2
	REINFORCED CONCRETE	2
	INTAKE SCREENS	2
	ARCHIMEDES SCREW TURBINE	3
	COVERS AND OTHER METALWORKS	3
	GENERATOR HUT	3
	FENCING	5
	EEL TILES AND FISH BRUSHES	5
	BAT BOXES	5
3	EXAMPLE OF TWIN ARCHIMEDES SCREW PROJECT IN PERSHORE, GLOUCESTERSHIRE	6

1 Introduction

- 1.1 This document outlines the proposed materials to be used in the construction of the Caversham Weir Hydro project.

2 Materials

Reinforced concrete

- 2.1 The proposed walls and main structure is for reinforced concrete – similar to shown below:



Intake screens

- 2.2 Stainless steel intake bars – similar to shown below.



Archimedes Screw turbine

2.3 Archimedes Screw turbines are powder coated metal usually in black or dark green.



Covers and other metalworks

2.4 The screw turbines will have metal gratings to ensure no access to the rotating blades by humans or animals.

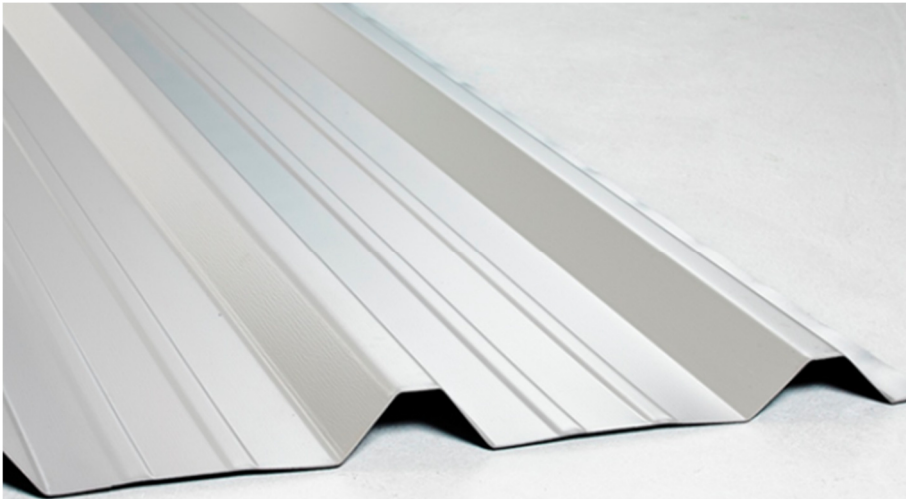


Generator Hut

2.5 Building structure – pre fab concrete panels, concrete blocks or similar..



2.6 Roof – box profile roofing sheets in light grey (goosewing grey RAL 0807005 or similar)



2.7 Door – double personnel access door powder coated.



Fencing

2.8 Palisade fencing, 1.8m tall in Green RAL6005 or similar.



Eel tiles and fish brushes

2.9 The fish bristles and eel tiles will look similar to the below:



Bat Boxes

2.10 A number of wooden bat boxes will be fitted to the outside of the generator hut and distributed around surrounding trees.



3 Example of twin Archimedes Screw project in Pershore, Gloucestershire

