

BROOKLINN MILL HYDROELECTRIC PROJECT



Project name:	Brooklinn Mill
Country:	Scotland
Location:	Blairgowrie, Perthshire
Description	27 metres of 800mm pipe below ground & 23 metres of 800mm pipe above ground pressure 6 bar
Application	Hydroelectric
Transported medium	River water
Working pressure	6 bar
Type of project	New Installation
Design standards / specifications / approvals	AWWA - M45
Special requirement on pipe-system	Pipe system was produced to follow the layout of the existing Mill Race.
Chosen pipe system	Purepipe Pressure
Pipe production technology	Discontinuous Helical Filment Winding
Other materials in this project	None
Reasons for choosing our product	Light Weight, Corrosion Resistance, Flow Characteristics, Fast Jointing Time (20mins per joint), Mechanical Properties, Price, Delivery
Client	Brooklinn Mill Ltd.
Consultant / engineer	Mr Tim Copeland
Contractor	JML Contracts, Auchterarder, Scotland

Pipe Details - Material 1:	
Total pipeline length	50 metres
Diameter DN min / max (mm)	DN 800
Pressure PN min / max (bar)	PN6
Stiffness SN min / max (N/m²)	SN 1250
Joint types	Standard Bell & Spigot - Single 'O' Ring
Fittings used	Flange, Elbows & Teekay Coupler

Installation Details (Buried):	
Type	Closed Trench
Native soil type:	Rock
Backfill soil type / compaction	Rounded Granular Pea Gravel 95% compaction
Thrust Blocks / Lock Joints	Thrust Blocks
Deflection min / max	0.5/2.5°
Year start / end	March 2011 / May 2011

Installation Details (Above Ground):	
Type	Open Trench
Supports	Concrete Saddles
Thrust Blocks / Lock Joints	Thrust Blocks
Deflection min / max	0.5/2.5°
Year start / end	March 2011 / May 2011