

# RADEMON HYDROELECTRIC PROJECT



<b>Project name:</b>	Rademon Hydroelectric Project
<b>Country:</b>	Northern Ireland
<b>Location:</b>	Crossgar, County Down
<b>Description</b>	400 metres of 1200 & 1400mm pipes, pressure 6 bar and stiffness 5000n/m <sup>2</sup>
<b>Application</b>	Hydroelectric
<b>Transported medium</b>	River water
<b>Working pressure</b>	6 bar
<b>Type of project</b>	New Installation
<b>Design standards / specifications / approvals</b>	AWWA - M45
<b>Special requirement on pipe-system</b>	Pipe system was produced to follow the layout of the existing Mill Race.
<b>Chosen pipe system</b>	Purepipe Pressure
<b>Pipe production technology</b>	Discontinuous Helical Filment Winding
<b>Other materials in this project</b>	None
<b>Reasons for choosing our product</b>	Light Weight, Corrosion Resistance, Flow Characteristics, Fast Jointing Time (20mins per joint), Mechanical Properties, Price, Delivery
<b>Project owner</b>	Killultagh Estates
<b>Consultant / engineer</b>	ARUP, 8th Floor, 32-38 Linenhall Street Belfast BT2 8GH
<b>Contractor</b>	Corramore Ltd

<b>Pipe Details - Material 1:</b>	
<b>Total pipeline length</b>	200 metres
<b>Diameter DN min / max (mm)</b>	DN 1400
<b>Pressure PN min / max (bar)</b>	PN6
<b>Stiffness SN min / max (N/m<sup>2</sup>)</b>	SN 5000
<b>Joint types</b>	Standard Bell & Spigot - Single 'O' Ring
<b>Fittings used</b>	Elbows, Tees & Concentric Reducers

<b>Pipe Details - Material 2:</b>	
<b>Total pipeline length</b>	200 metres
<b>Diameter DN min / max (mm)</b>	DN 1200
<b>Pressure PN min / max (bar)</b>	PN6
<b>Stiffness SN min / max (N/m<sup>2</sup>)</b>	SN 5000
<b>Joint types</b>	Standard Bell & Spigot - Single 'O' Ring
<b>Fittings used</b>	Elbows, Tees & Concentric Reducers

<b>Installation Details:</b>	
<b>Type</b>	Closed Trench
<b>Native soil type:</b>	Rock
<b>Backfill soil type / compaction</b>	Rounded Granular Pea Gravel 95% compaction
<b>Thrust Blocks / Lockjoints</b>	Thrust Blocks
<b>Deflection min / max</b>	Less than 3°
<b>Year start / end</b>	2009 / 2010