# NEW! **NOW AVAILABLE** Diameter of 750 mm (30 in) Length of 9 m (29.5 ft) **FINALLY** A CULVERT THAT PROVIDES FLOW CONDITIONS SIMILAR **TO A CREEK** Mastering Storm Water

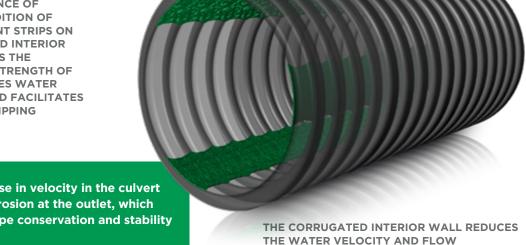
# **TURBULENCE**

## FINALLY, A CULVERT THAT PROVIDES FLOW CONDITIONS SIMILAR TO A CREEK

THE TURBULENCE CULVERT REPRODUCES THE NATURAL BED CONDITIONS OF A CREEK, WITH A MANNING'S N VALUE OF 0.022

THIS PATENTED PRODUCT IS EXCLUSIVELY AVAILABLE FROM SOLENO, IN DIAMETERS OF 450 mm, 600 mm AND 750 mm (18 in, 24 in and 30 in) AND IN LENGTHS OF 6 m (19.7 ft) AND 9 m (29.5 ft)

WITH A RESISTANCE OF 210 kPa, THE ADDITION OF **3 REINFORCEMENT STRIPS ON** THE CORRUGATED INTERIOR WALL PRESERVES THE LONGITUDINAL STRENGTH OF THE PIPE, CREATES WATER **TURBULENCE AND FACILITATES NESTING FOR SHIPPING PURPOSES** 



The decrease in velocity in the culvert reduces erosion at the outlet, which promotes slope conservation and stability

#### ADVANTAGES AND BENEFITS

- The Turbulence culvert pipe meets the Quebec Regulation on Sustainable Forest Management, as it allows the free flow of water and the free movement of aquatic fauna.
- By increasing bed roughness, it eases the passage and counter-current movement by the fish, while serving as a refuge for wildlife and fish fry.
- This lightweight and durable HDPE culvert is easy to install and handle in woodlands, in mining and rural environments, wherever water flow and velocity needs to be reduced.

With a high Manning coefficient (0.022)\*, the flow rate in the Turbulence culvert is 28 % lower than for a corrugated steel pipe, which encourages ecosystem growth and mitigation of erosion.

### **TECHNICAL DATA TABLE**

Nom. dia.		Int. dia.(2)		Ext. dia.		Length		Manning Strength		Backfill			No	Soil tight		
mm	in	mm	in	mm	in	m	ft	n	kPa -	Minimum		Maximum		connector	connectors HDPE	
										m	pi	m	pi	PE	вс	SC
450	18	461	18.1	543	21.4	6	19.7	0.021	210	0.4	1.3	10	32.8	Χ	Χ	Χ
450	18	461	18.1	543	21.4	9	29.5	0.021	210	0.4	1.3	10	32.8	Χ	Χ	Χ
600	24	605	23.8	722	28.4	6	19.7	0.022	210	0.4	1.3	8	26.2	Χ	Χ	Χ
600	24	605	23.8	722	28.4	9	29.5	0.022	210	0.4	1.3	8	26.2	Χ	Χ	Χ
750	30	748	29.4	884	34.8	6	19.7	0.022	210	0.4	1.3	12.4	39.3	Χ	Χ	Χ
750	30	748	29.4	884	34.8	9	29.5	0.022	210	0.4	1.3	12.4	39.3	X	Χ	Χ

\*Calculated for a 600 mm (24 in) diameter pipe. Note 1: Values in the table are approximate and may change without notice Note 2: The inner diameter measurement does not include the thickness of the reinforcement LEGEND PE: plain end BC: bell with clips SC: split coupler

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