## NEW!

NOW AVAILABLE

- Diameter of 750 mm (30 in)
- Length of $9 \mathrm{~m}(29.5 \mathrm{ft})$


FINALLY
A CULVERT THAT PROVIDES FLOW CONDITIONS SIMILAR TO A CREEK

## 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

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

THIS PATENTED PRODUCT IS EXCLUSIVELY AVAILABLE FROM SOLENO, IN DIAMETERS OF $450 \mathrm{~mm}, 600 \mathrm{~mm}$ 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)

The decrease in velocity in the culvert reduces erosion at the outlet, which
promotes slope conservation and stability
THE CORRUGATED INTERIOR WALL REDUCES the water velocity and flow

## 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 connector | Soil tight connectors HDPE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | in | mm | in | mm | in | m | ft | n | kPa | Minimum |  | Maximum |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | m | pi | m | pi | PE | BC | SC |
| 450 | 18 | 461 | 18.1 | 543 | 21.4 | 6 | 19.7 | 0.021 | 210 | 0.4 | 1.3 | 10 | 32.8 | X | X | X |
| 450 | 18 | 461 | 18.1 | 543 | 21.4 | 9 | 29.5 | 0.021 | 210 | 0.4 | 1.3 | 10 | 32.8 | X | X | X |
| 600 | 24 | 605 | 23.8 | 722 | 28.4 | 6 | 19.7 | 0.022 | 210 | 0.4 | 1.3 | 8 | 26.2 | X | X | X |
| 600 | 24 | 605 | 23.8 | 722 | 28.4 | 9 | 29.5 | 0.022 | 210 | 0.4 | 1.3 | 8 | 26.2 | X | X | X |
| 750 | 30 | 748 | 29.4 | 884 | 34.8 | 6 | 19.7 | 0.022 | 210 | 0.4 | 1.3 | 12.4 | 39.3 | X | X | X |
| 750 | 30 | 748 | 29.4 | 884 | 34.8 | 9 | 29.5 | 0.022 | 210 | 0.4 | 1.3 | 12.4 | 39.3 | X | X | X |

*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 strips

LEGEND
PE: plain end
BC: bell with clips $\quad$ REV 0015.2019.05.10A

