

2.0 SMARTDITCH PRODUCT INFORMATION

2.1 Product Data

The SmartDitch system is a corrugated section of HDPE sheet formed in a predetermined shape. In the thermoforming process, the plastic sheet is heated to forming temperatures, allowing it to conform to the mold. The minimum formed thickness in all of the channels is 55 mil.

The versatility of this manufacturing process provides Penda with unmatched in-house forming capabilities that enable us to deliver greater production efficiency on a full range of projects.

Penda supports your operation at every level, right from the start. Our world-class design/engineering capabilities allow us to partner with you to meet virtually any need.

2.1.1 Product Attributes, Dimensions & Weights

SmartDitch offers water management channels in the following specific depth/sizes:

- Trapezoidal design
 - 12" depth series
 - 24" depth series
- Semi-circular design
 - 24" depth series

See *Figures 1 and 2* for basic SmartDitch product dimensions and weights.

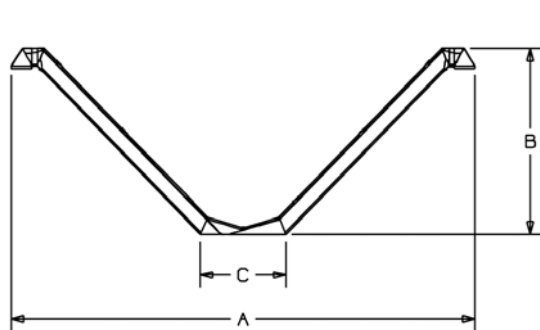


Figure 1

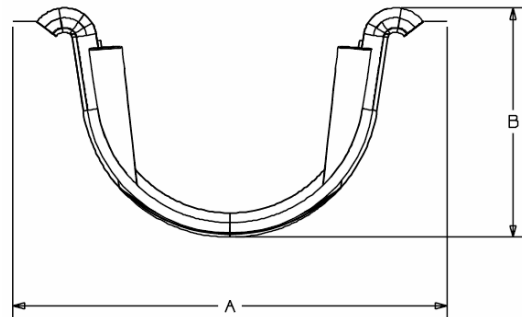
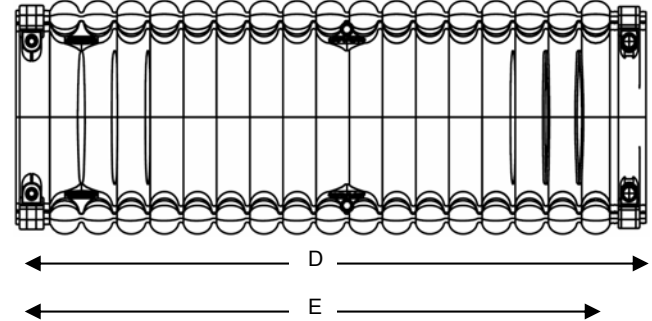
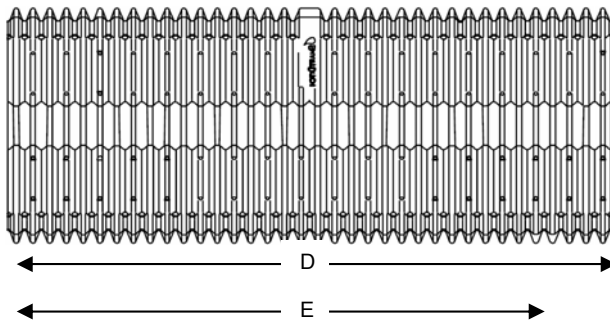


Figure 2



Item Description	Item #	12" Depth Trapezoidal	24" Depth Trapezoidal	24" Depth Semi-Circular
Overall exterior width	A	50.00 in / 1270.00 mm	76.00 in / 1930.40 mm	39.00 in / 990.60 mm
Overall exterior height	B	16.25 in / 412.75 mm	29.50 in / 749.30 mm	19.00 in / 482.60 mm
Bottom channel exterior width	C	10.00 in / 254.00 mm	14.00 in / 355.60 mm	N/A (Rounded Bottom)
Overall exterior length	D	120.00 in / 3048.00 mm	113.00 in / 2870.20 mm	93.00 in / 2362.20 mm
Lay length	E	112.00 in / 2844.80 mm	100.00 in / 2540.00 mm	88.00 in / 2235.20 mm
Weight Per Part	n/a	52.00 lb / 23.59 kg	89.00 lb / 40.37 kg	36.00 lb / 16.33 kg

Note: measurements above are overall part dimensions and are not representative of actual flow areas or earthen fill area.