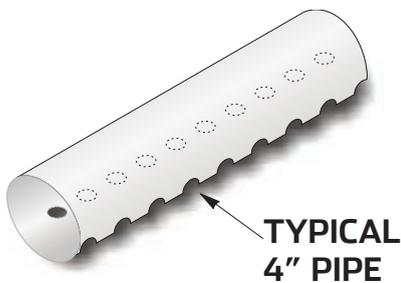




COLLECTION CAPACITY

PREFABRICATED STRIP VS. PIPE & STONE

AWD prefabricated strip drains are designed to collect significantly more water than perforated pipe and stone systems without the addition of aggregates. Calculations of collection capacity for perforated pipe without aggregate versus AWD strip drain are provided as follows:

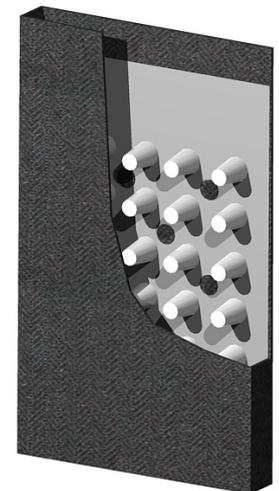


PERFORATED PIPE:

For perforated pipe, collection capacity per foot is equal to the cross sectional area of the perforations times the number of perforations per linear foot. For a standard 4" perforated pipe, there are approximately eight holes (0.5" diameter) which provide 1.6 in² of open area per linear foot of pipe. This provides approximately 1.1% open space to allow water to enter into the collection system. To increase the collection capacity and strength for the perforated pipe, a large volume of aggregate must be added to the system as well.

AWD STRIP DRAIN:

AWD strip drains are two-part geocomposites that allows water entry from both sides. The polymeric core act as a pipe and is manufactured to compressive strengths that eliminate the need for aggregate backfill. The core is fully wrapped with a geotextile filter fabric which retains soil particles while allowing water to freely enter the drainage core. The fabric is securely bonded to both sides to prevent soil intrusion into the water flow channel. AWD strip drains have a total open area of 188 in² per linear foot, which is over 60% open space for water to filtrate into the collection system. This gives the AWD strip drain product the potential to collect 50 times more water*, or collect the same amount of water 50 times faster*, than a standard perforated pipe over the same period of time.



*Up to the maximum drainage core flow capacity of 21 gpm/ft-width at a hydraulic gradient of 0.1.

AWD STRIP DRAIN

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