



## Quick5 Standard Chambers in New Brunswick

The purpose of this design sheet is to provide the minimum design and installation information for the use of Quick5 Standard chambers in the province of New Brunswick. This design sheet shall be used in conjunction with the *Design and Installation Manual for Quick4® Chambers in New Brunswick, Canada (February 2009)* and the New Brunswick Technical Guidelines for On-site Sewage Disposal Systems. Exceptions and changes may be made, but should be confirmed by Infiltrator Water Technologies (Infiltrator) and the Regional Public Health Septic Inspector. This design sheet provides a brief description of Quick5 Standard chambers with their sizing specifications as they pertain to the Provincial Regulation 2009-137 for on-site sewage disposal systems. For more detailed design information, please contact Infiltrator at 1-800-221-4436 or your local maritime Infiltrator representative.

The Quick5 Standard chambers can be installed in 900 mm (3 ft) wide trenches. Infiltrator chambers are approved for replacement of pipe and stone in conventional 900mm (3 ft) wide trenches. According to this approval, each row of Infiltrator chambers is 50% of the required length of conventional trenches. There are a variety of system inletting options to choose from, with and without a distribution box.

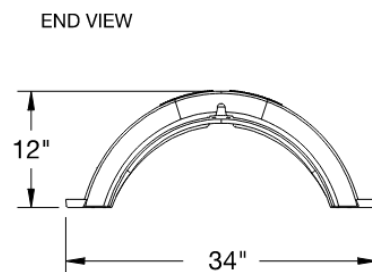
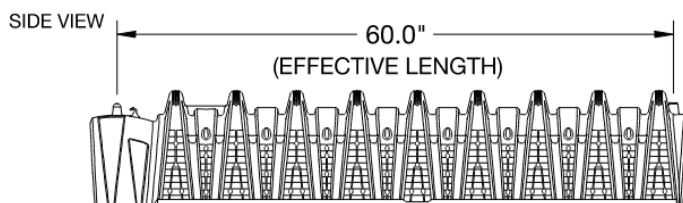
### Quick5 Standard Chamber Nominal Specifications

|                  |                           |                   |
|------------------|---------------------------|-------------------|
| Size (W x L x H) | 86 cm x 165 cm<br>x 31 cm | (34" x 65" x 12") |
| Storage Capacity | 216 L (57 U.S.gal)        |                   |
| Invert Elevation | 20 cm (8")                |                   |

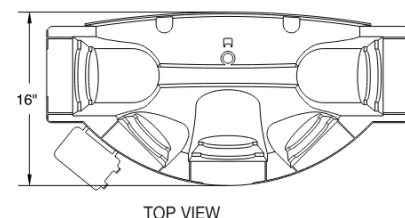
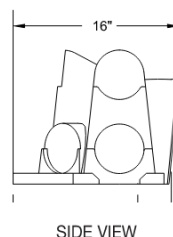
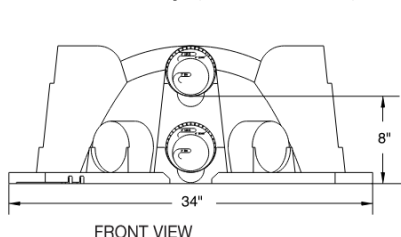


Quick5 Standard Chamber

### Quick5 Standard Chamber Side and End Views (Not to Scale)



### MultiPort EndCap (Not to Scale)



## Determining the Number of Quick5 Standard Chambers Required

To determine the number of chambers required for the Quick5 Standard Chamber System design, the following items must be identified:

1. Estimated sewage flow into the system in liters per day
2. Minimum lot size
3. Minimum lot width

Once this information is identified, use Table 1 below to determine the total number of Quick5 Standard chambers required for the system.

**Table 1- Quick5 Standard Chambers**

|                                                                                                           | Estimated Sewage Flow |                     |                     |                     |
|-----------------------------------------------------------------------------------------------------------|-----------------------|---------------------|---------------------|---------------------|
|                                                                                                           | 0-1365 l/d            | 1366-2730 l/d       | 2731-4090 l/d       | 4091-5460 l/d       |
| Working Capacity of Tank                                                                                  | 2275 liters           | 4090 liters         | 6136 liters         | 8180 liters         |
| Min. Lot Size                                                                                             | 4000 m <sup>2</sup>   | 5350 m <sup>2</sup> | 6700 m <sup>2</sup> | 8050 m <sup>2</sup> |
| Min. Lot Width                                                                                            | 54 meters             | 59 meters           | 63 meters           | 68 meters           |
| Total minimum number of Q5 Standard chambers in relation to maximum ground percolation rate in min/2.5 cm |                       |                     |                     |                     |
| 0-5 min/2.5 cm                                                                                            | 19                    | 28                  | 40                  | 54                  |
| 5-10 min/2.5 cm                                                                                           | 20                    | 39                  | 59                  | 79                  |
| 10-20 min/2.5 cm                                                                                          | 28                    | 56                  | 82                  | 111                 |
| 20-30 min/2.5 cm                                                                                          | 34                    | 68                  | 100                 | 134                 |

**Notes:**

*Chamber rows shall be no less than 2.0 meters (6.5 ft) on center and a maximum trench length of 15 meters (50 ft).*

*All chamber rows shall be equal in length, therefore, total number of chambers may be required to be increased to provide equal length of trenches.*

*Where the percolation rate of the existing soil exceeds 30 min/2.5 cm absorption trenches must be constructed in approved fill material in the form of a mound.*

## Quick5 Standard Chambers Installation Instructions

Quick5 Standard Chambers may be installed in trench or mound configurations. They shall be installed in accordance with the previously approved Quick4 Chambers Installation Instructions for trench or mound configurations.