

**Job Details**

16721 - Proposed Dwelling At Plot 1  
Highstock Lane, Gedney Hill, Lincs.

**Title**

Soakaway Size Calculations

**Calculated Infiltration Rate (m/s)**

1.07E-05

| Design Rainfall - R |      |
|---------------------|------|
| M5-60               | Z1   |
| 0.02                | 1    |
| M10-D               | Z2   |
| 0.02                | 1.24 |

R = 0.0248 m

**Inflow To Soakaway**

| Area (m <sup>2</sup> ) | x | R      |
|------------------------|---|--------|
| 218                    |   | 0.0248 |

Inflow = 6.6064 m<sup>3</sup>

**Outflow From Soakaway**

| Internal SA (50%) | Infiltration Rate | Storm Duration (s) |    |      |
|-------------------|-------------------|--------------------|----|------|
| 12.4              | 1.07009E-05       | 60                 | 60 | 3600 |

Outflow = 0.477688176 m<sup>3</sup>

**Storage Required**

| Inflow - | Outflow  |             |
|----------|----------|-------------|
| 6.6064   | 0.477688 | 6.128711824 |

**Storage Volume With 30% Free (Required)**

7.967325371

**Actual Storage Volume**

7.98

**Soakaway Dimensions**

| Polystorm Crate | Number | Total Lengths | Half Effective |
|-----------------|--------|---------------|----------------|
| Width           | 0.5    | 7             | 3.5            |
| Length          | 1      | 6             | 6              |
| Depth           | 0.4    | 1             | 0.4            |

Internal Surface Area Not Including Base (50% depth)

24.8 m<sup>2</sup>

Storage Volume

7.98 m<sup>3</sup>

Soakaway Has Been Designed For A  
10 Year Storm Of 60 Minute Duration

NB. Actual Storage Volume Needs To Be  
Greater Than Storage Volume + 30%