## Model Details

**Storage is Online Cover Level (m) 78.000**

## Tank or Pond Structure

**Invert Level (m) 76.750**

| Depth (m) | Area (m²) | Depth (m) | Area (m²) | Depth (m) | Area (m²) | Depth (m) | Area (m²) | Depth (m) | Area (m²) |
|---|---|---|---|---|---|---|---|---|---|
| 0.000 | 136.0 | 0.300 | 197.0 | 0.600 | 267.0 | 0.900 | 346.0 | 1.200 | 434.0 |
| 0.100 | 156.0 | 0.400 | 219.0 | 0.700 | 292.0 | 1.000 | 374.0 | 1.250 | 450.0 |
| 0.200 | 176.0 | 0.500 | 243.0 | 0.800 | 319.0 | 1.100 | 404.0 | | |

## Hydro-Brake® Optimum Outflow Control

| | |
|---|---|
| Unit Reference | MD-SHE-0102-5000-1250-5000 |
| Design Head (m) | 1.250 |
| Design Flow (l/s) | 5.0 |
| Flush-Flo™ | Calculated |
| Objective | Minimise upstream storage |
| Application | Surface |
| Sump Available | Yes |
| Diameter (mm) | 102 |
| Invert Level (m) | 76.750 |
| Minimum Outlet Pipe Diameter (mm) | 150 |
| Suggested Manhole Diameter (mm) | 1200 |

| Control Points | Head (m) | Flow (l/s) | Control Points | Head (m) | Flow (l/s) |
|---|---|---|---|---|---|
| Design Point (Calculated) | 1.250 | 5.0 | Kick-Flo® | 0.772 | 4.0 |
| Flush-Flo™ | 0.370 | 5.0 | Mean Flow over Head Range | - | 4.4 |

**The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated**

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|---|---|---|---|---|---|---|---|
| 0.100 | 3.4 | 1.200 | 4.9 | 3.000 | 7.5 | 7.000 | 11.2 |
| 0.200 | 4.7 | 1.400 | 5.3 | 3.500 | 8.1 | 7.500 | 11.6 |
| 0.300 | 5.0 | 1.600 | 5.6 | 4.000 | 8.6 | 8.000 | 12.0 |
| 0.400 | 5.0 | 1.800 | 5.9 | 4.500 | 9.1 | 8.500 | 12.3 |
| 0.500 | 4.9 | 2.000 | 6.2 | 5.000 | 9.6 | 9.000 | 12.7 |
| 0.600 | 4.7 | 2.200 | 6.5 | 5.500 | 10.0 | 9.500 | 13.0 |
| 0.800 | 4.1 | 2.400 | 6.8 | 6.000 | 10.4 | | |
| 1.000 | 4.5 | 2.600 | 7.0 | 6.500 | 10.9 | | |