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Ros an Mhíl DWQ under construction

Harbour Office
Location for Rainfall Intensity data
95,900mE 225,100mN (Irish Gd)

Google Earth

[illegible]

- o a 1 in 50-year rainfall storm event
- o storm duration of 30 minutes
- o rainfall depths for durations and return periods to be taken from Met Eireann Depth Duration Frequency (DDF) model 2023 (extract above).
- o to slow the influx of water to interceptors and pipework, temporary surface ponding of up to 20mm depth is acceptable at gullies after the extreme storm duration considered of 30 mins
- o The rainfall depth is indicated as 21.5mm for the 1:50 yr and 30 minute duration storm.

| Model Reference | Flow (l/s) | Peak Flow Rate (l/s) | Discharge area (m ²) Based on UK rainwater flow | Storage Capacity (litrs) | Storage Capacity (Litrs) | Length (mm) | Diameter (mm) | Access Shaft Diameter* (mm) | Base Inlet Invert (mm) | Base to Outlet Invert (mm) | Standard Fall Across (mm) | Min Inlet Invert (mm) | Standard Pipework Diameter (mm)** |
|-----------------------------------|------------|----------------------|---|--------------------------|--------------------------|-------------|---------------|-----------------------------|------------------------|----------------------------|---------------------------|-----------------------|-----------------------------------|
| | | | | | | | | | | | | | |
| - | - | - | - | Silt | Oil | - | - | - | - | - | - | - | - |
| Polyethylene Chamber Construction | | | | | | | | | | | | | |
| NSBP003 | 3 | 30 | 1670 | 300 | 45 | 1700 | 1350 | 600 | 1760 | 1660 | 100 | 500 | 315 |
| NSBP004 | 4.5 | 45 | 2500 | 450 | 60 | 1700 | 1350 | 600 | 1760 | 1660 | 100 | 500 | 315 |
| NSBP006 | 6 | 60 | 3335 | 600 | 90 | 1700 | 1350 | 600 | 1760 | 1660 | 100 | 500 | 315 |
| GRP Chamber Construction | | | | | | | | | | | | | |
| NSBE010 | 10 | 100 | 5560 | 1000 | 150 | 2072 | 1220 | 750 | 1450 | 1350 | 100 | 700 | 315 |
| NSBE015 | 15 | 150 | 8335 | 1500 | 225 | 2950 | 1220 | 750 | 1450 | 1350 | 100 | 700 | 315 |
| NSBE020 | 20 | 200 | 11111 | 2000 | 300 | 3896 | 1220 | 750 | 1450 | 1350 | 100 | 700 | 375 |
| NSBE025 | 25 | 250 | 13890 | 2500 | 375 | 3576 | 1420 | 750 | 1680 | 1580 | 100 | 700 | 375 |
| NSBE030 | 30 | 300 | 16670 | 3000 | 450 | 4266 | 1420 | 750 | 1680 | 1580 | 100 | 700 | 450 |
| NSBE040 | 40 | 400 | 22222 | 4000 | 600 | 3230 | 1920 | 600 | 2185 | 2035 | 150 | 1000 | 500 |
| NSBE050 | 50 | 500 | 27778 | 5000 | 750 | 3960 | 1920 | 600 | 2185 | 2035 | 150 | 1000 | 600 |
| NSBE075 | 75 | 750 | 41667 | 7500 | 1125 | 5541 | 1920 | 600 | 2235 | 2035 | 200 | 950 | 675 |
| NSBE100 | 100 | 1000 | 55556 | 10000 | 1500 | 7661 | 1920 | 600 | 2235 | 2035 | 200 | 950 | 750 |

Pipe diameter mm

37.5 cm ▾

Material mm

Plastic ▾

Roughness coefficient mm

150

Pipe lengths mm

30 m ▾

Drop mm

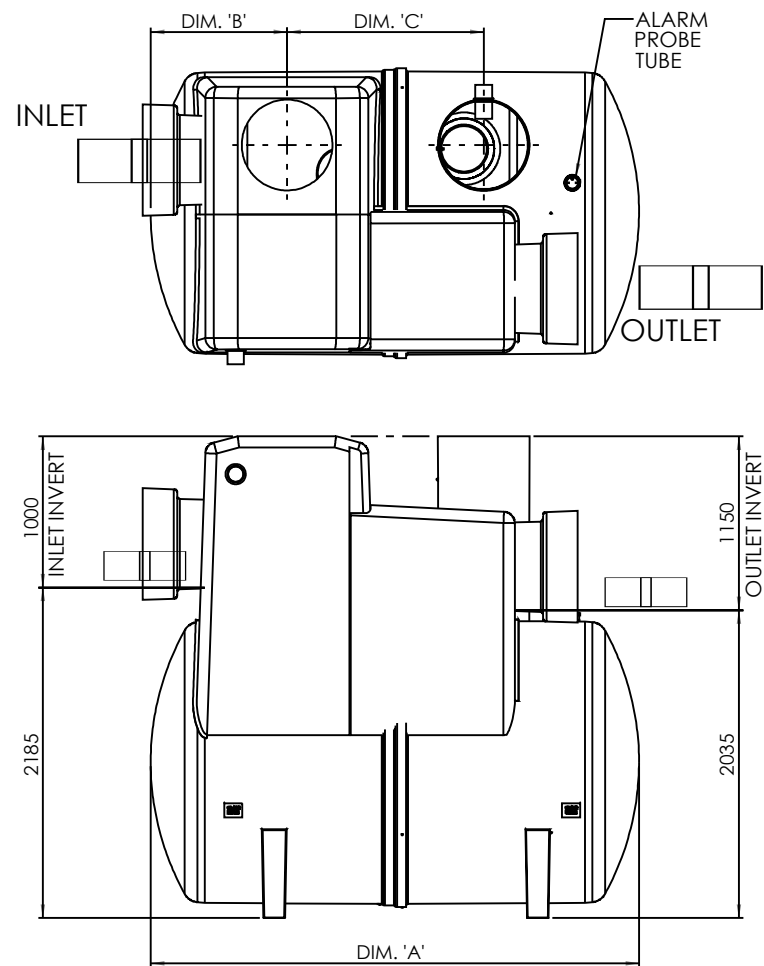
0.3 m ▾

Flow velocity

2.364 m/s ▾

Flow discharge

0.2633 m³/s ▾



| UNIT | NOMINAL FLOW (l/sec.) | DIM.'A' | DIM.'B' | DIM.'C' | STD. PIPE Ø | APPROX. EMPTY WEIGHT (kg) | FALL ACROSS UNIT |
|---------|-----------------------|---------|---------|---------|-------------|---------------------------|------------------|
| NSBE050 | 50.0 | 3960 | 1243 | 1325 | 600 | 782 | 150 |

Technical drawing of the rear view of the 3185 unit. The drawing shows a circular base with a diameter of $\varnothing 1920$. A vertical pipe with a diameter of $\varnothing 600$ extends from the center. Two $\varnothing 110$ PVCu vent pipes are located on the left and right sides, each with a height of 250. The total height of the unit is 3185.

KLARGESTER BYPASS SEPARATOR – NSBE050

| | | | | | | | |
|---|------|--------------------------------|--|-------------|--|--------------|--|
| [21 11 25] | | ISSUED FOR PLANNING | | JK | | CF | |
| REV | DATE | DESCRIPTION | | BY | | APP | |
| PROJECT: | | | | | | | |
| ROS AN MHÍL DEEP WATER QUAY | | | | | | | |
| TITLE: | | | | | | | |
| STORM DRAINAGE DESIGN INFORMATION | | | | | | | |
| CLIENT: | | | | | | | |
| DEPARTMENT OF AGRICULTURE, FOOD & THE MARINE | | | | | | | |
| <div><div>MWP</div><div>ENGINEERING AND ENVIRONMENTAL CONSULTANTS</div><div>CORK TRALEE LONDON LIMERICK</div><div></div><div>mwp.ie</div></div> | | | | | | | |
| DRAWN: | | CHECKED: | | APPROVED: | | | |
| JK | | CF | | CF | | | |
| PROJECT NUMBER: | | DATE: | | SCALE @ A1: | | | |
| 24984 | | NOVEMBER 2025 | | AS SHOWN | | | |
| AUTHORISATION CODE: | | PURPOSE OF ISSUE | | | | PURPOSE CODE | |
| S | | ISSUED FOR PLANNING PERMISSION | | | | P3 | |
| DRAWING NUMBER: | | | | | | REV: | |
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