

Catchment Area

Area inflows can be applied to the system using the **Area Inflow** type.

Runoff

The screenshot shows a dialog box titled "Catchment Area" with a close button (X) in the top right corner. The "Name" field contains "Catchment Area". Below the name field are four tabs: "Runoff" (selected and highlighted in orange), "Pollution", "Advanced", and "Rainwater Tank". The "Runoff" tab contains the following fields and controls:

- Area (km²): 0.00146
- Preliminary Sizing section:
 - Volumetric Runoff Coefficient: 0.750 (with a calculator icon)
 - Percentage Impervious (%): 100
 - Time of Concentration (mins): 5 (with a calculator icon)
- Dynamic Sizing section:
 - Runoff Method: Time of Concentration (dropdown menu)
 - Volumetric Runoff Coefficient: 0.750 (with a calculator icon)
 - Time of Concentration (mins): 5 (with a calculator icon)
 - Percentage Impervious (%): 100

At the bottom of the dialog box are three buttons: "OK", "Cancel", and "Apply". A "Help" button with a question mark icon is located in the bottom right corner.

Area

An area can be entered directly or calculated automatically from the polygon drawn on the Plan.

Preliminary Sizing

The Area, Volumetric Runoff Coefficient, Percent Impervious and Time of Concentration values shown in the preliminary Sizing tab will be used for initial sizing of pipes and stormwater controls using Rational Method style calculations.

If these values are not entered here, the default values or the values from the current dynamic sizing runoff method will be used.

Volumetric Runoff Coefficients

Used to factor the runoff when the Time Area Diagram, Time of Concentration or Green Roof Runoff Methods are selected.

If a UK Rainfall pattern ([FSR Rainfall](#) / [FEH Rainfall](#)) is selected in the [Analysis Criteria](#), values can instead be specified seasonally. The CVs specified will be used for the Summer and Winter storm analysis, if that type of storm is enabled in the Select Rainfall section within the [Analysis Criteria](#).

A [Runoff Coefficient Calculator](#) is available which allows the **Volumetric Runoff Coefficient** to be calculated from **Land Use** and **Overland Slope**.

Runoff Method

The preferred runoff methods can be selected - select from the methods below for details and required input parameters.



Some of the methods may not be available for your region. For more information, refer to the [Regionalisation](#) topic.

- [Time of Concentration](#)
- [SCS](#)
- [Santa Barbara Urban Hydrograph](#)
- [Laurenson](#)
- [Time Area Diagram](#)
- [FSR Unit Hydrograph](#)
- [FEH Unit Hydrograph](#)
- [ReFH Unit Hydrograph](#)
- [ReFH2 Unit Hydrograph](#)
- [Simplified Modified Rational Method](#)
- [Green Roof Runoff Method](#)