

Temporal Pattern

To produce a suitable rainfall event from a total depth and duration it is necessary to add a shape, or profile, to a storm which is characteristic of the geographical location. These shapes are usually expressed as a Temporal Pattern. If you combine an average intensity read from the User Defined table with a Temporal Pattern, the result is a rainfall profile (hyetograph) which shows the variation of rainfall throughout the whole storm. This can then be used by the analysis to produce a result for the given system.



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New Temporal Pattern

Profile Type: 48 Hour storm - 30 Minute interval

Time (mins)	Absolute	Cumulative
30	0.000	0.000
60	0.006	0.006
90	0.012	0.018
120	0.000	0.018
150	0.008	0.026
180	0.011	0.037
210	0.009	0.046
240	0.029	0.075
270	0.131	0.206
300	0.192	0.398
330	0.318	0.716
360	0.557	1.273

Rain (%)
Depth (mm)
Intensity (mm/hr)

Repeat
Clear

Toolbar

New

Allows a new Temporal Pattern to be created.

Load

Allows an Temporal Pattern to be loaded from file. These include:

- IDF File (.xptpx) - The xpdrainage file format for Temporal Patterns.
- Text File (.csv,.txt) - Allows a Temporal Pattern to be loaded from comma separate files via the [Universal Importer](#).
- Excel File (.xls,.xlsx) - Allows a Temporal Pattern to be loaded from Microsoft Excel format.

Save

Save the current Temporal Pattern to a .xptpx file so it can be reused elsewhere.

Buttons

Repeat

Repeats the currently selected value down the spreadsheet.

- Custom Minute - Allows the information to be entered in non uniform time intervals. Note: The length entered will dictate the storm duration that can be created.
- Custom Dimensionless - Allows the information to be entered in non uniform percentage intervals. Note: ANY storm duration can be created with this format.
- 24 Hour storm - 10 Minute interval - Allows the information to be entered to describe a 24 hour storm at a 10 minute interval. Note: The storm duration that can be created will be limited to 24 hours.
- 24 Hour storm - 15 Minute interval - Allows the information to be entered to describe a 24 hour storm at a 15 minute interval. Note: The storm duration that can be created will be limited to 24 hours.

Workflow - What's next...?



Connect **Inflows** to your **Stormwater Control**, specify **Inlets** or **Outlets** or connect to another **Stormwater Control** or **Junction**.

- 24 Hour storm - 30 Minute interval - Allows the information to be entered to describe a 24 hour storm at a 30 minute interval. Note: The storm duration that can be created will be limited to 24 hours.
- 48 Hour storm - 30 Minute interval - Allows the information to be entered to describe a 48 hour storm at a 30 minute interval. Note: The storm duration that can be created will be limited to 48 hours.
- 7 Day storm - 1 Hour interval - Allows the information to be entered to describe a 7 day storm at a 1 hour interval. Note: The storm duration that can be created will be limited to 7 days.
- Dimensionless - 1% interval - Allows the information to be entered at a 1% interval. Note: ANY storm duration can be created with this format.
- Dimensionless - 2% interval - Allows the information to be entered at a 2% interval. Note: ANY storm duration can be created with this format.

Name

This is the label given to the temporal pattern.

Profile Type

The information can be entered in a variety of different profiles types. These are:

Value Options

The Temporal Pattern can be entered as 3 different values: Rainfall percentage, Rainfall Depth or Rainfall Intensity. Select the option that is appropriate for the data to be entered.

Spreadsheet**Time**

The time that value applies to.

Absolute

The value for the given time.

Cumulative

The cumulative total of all the values to this point.