DATABASE

The experimental results are stored in an open-source relational database using SQLite. To interact with the database, it is recommended use the GUI client DB Browser for SQLite, which is a free, open-source, cross-platform tool that allows to browse, edit, and manage SQLite databases.

The database includes:

- Results of the experiments on unitary roofs, hereinafter **Roof Tests**, presented in Sañudo et al. (2022) where only roof tests were carried out.
- Results of the experiments using the complete facility, hereinafter **Block Tests**, where tests were carried out on roofs, surface, and drainage network.

Main points of the **Roof Tests**:

- Results for tests for wet (R01 to R06) and dry (R07 to R09) antecedent conditions are provided.
- For dry antecedent conditions only hyetographs H1, H2 and H3 in Roof 2 and Roof 3 were tested.
- The results include:
    - Discharges on roof outlets, e.g., "Roof_1_mh[m3/s]"
    - Depth at three points in each gutter, e.g., "Roof_1_gut_1[m]"

Main points of the **Block Tests**:

- Results are presented for Set 1 (T01 to T06) and Set 2 (T07 to T12) where only the rainfall simulator and the rainfall simulator plus runoff generators were used, respectively.
- The results include:
    - Discharges on roof outlets, e.g., "Roof_1_mh[m3/s]"
    - Flow captured by the inlets, e.g., "Inlet_1[m3/s]"
    - Flow captured by the manholes, e.g., "In_Manhole_1[m3/s]"
    - Outfall discharges, e.g., "Outfall[m3/s]"
    - Depths at surface, e.g., "d_gauge_01[m3/s]"
- Flow captured by manholes and by the downstream grate (Inlet 5) were measured in steady conditions only for H1, H2 and H3 (● in Table 1)

The list of tests stored on the database for Roof and Block experiments are shown in Table 1.

Table 1. Experiments summary

Legend: ● = green marker, 🟠 = orange marker

Group	Experiment	Roof_1_mh[m3/s]	Roof_2_mh[m3/s]	Roof_3_mh[m3/s]	Roof_4_mh[m3/s]	Roof_1_gut_1[m]	Roof_1_gut_2[m]	Roof_1_gut_3[m]	Roof_2_gut_1[m]	Roof_2_gut_2[m]	Roof_2_gut_3[m]	Roof_3_gut_1[m]	Roof_3_gut_2[m]	Roof_3_gut_3[m]	Roof_4_gut_1[m]	Roof_4_gut_2[m]	Roof_4_gut_3[m]	Inlet_1[m3/s]	Inlet_2[m3/s]	Inlet_3[m3/s]	Inlet_4[m3/s]	Inlet_5[m3/s]	Outfall[m3/s]	In_Manhole_1[m3/s]	In_Manhole_2[m3/s]	In_Manhole_3[m3/s]	In_Manhole_4[m3/s]	d_gauge_01[m]	d_gauge_02[m]	d_gauge_03[m]	d_gauge_04[m]	d_gauge_05[m]	d_gauge_06[m]	d_gauge_07[m]	d_gauge_08[m]	d_gauge_09[m]
Roof Tests	R01_exp_post_roofs_wet_H1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R02_exp_post_roofs_wet_H2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R03_exp_post_roofs_wet_H3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R04_exp_post_roofs_wet_H4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R05_exp_post_roofs_wet_H5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R06_exp_post_roofs_wet_H6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																			
	R07_exp_post_roofs_dry_H1		●	●																																
	R08_exp_post_roofs_dry_H2		●	●																																
	R09_exp_post_roofs_dry_H3		●	●																																
Block Tests	T01_exp_post_block_wet_H1	●	●	●	●													●	●	●	●	🟠	●	🟠	🟠	🟠	🟠	●	●	●	●	●	●	●	●	●
	T02_exp_post_block_wet_H2	●	●	●	●													●	●	●	●	🟠	●	🟠	🟠	🟠	🟠	●	●	●	●	●	●	●	●	●
	T03_exp_post_block_wet_H3	●	●	●	●													●	●	●	🟠	●	●	🟠	🟠	🟠	🟠	●	●	●	●	●	●	●	●	●
	T04_exp_post_block_wet_H4	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T05_exp_post_block_wet_H5	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T06_exp_post_block_wet_H6	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T07_exp_post_block_runoff_H1	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T08_exp_post_block_runoff_H2	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T09_exp_post_block_runoff_H3	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T10_exp_post_block_runoff_H4	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T11_exp_post_block_runoff_H5	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●
	T12_exp_post_block_runoff_H6	●	●	●	●													●	●	●	●		●					●	●	●	●	●	●	●	●	●