

## Rainwater: Siphon & Gravity

### P-144

Design of Roof and Balcony Rainwater Systems such as:

- Gravity System (EN12056)
- Siphon System
- Overflow System (VDI 3806)

Design of piping system according to different Standard System:

- EN1519 Plastic Piping (Welded)
- EN1561 SML Piping
- EN1123 Galvanized Steel Piping (Sleeve and Clamp assembled)
- EN1124 Stainless Steel Piping (Sleeve assembled)

#### Frost Protection

Design of Heat Trace for Drain Wells plus first meter of piping. Design with MCC/Cable Project and LCP/BMS control specification

#### Overflow Discharge

Design and sizing of Rainwater Sprouts (DK: "udspyr") according to Building Permits and General Regulations.

#### Instrumentation

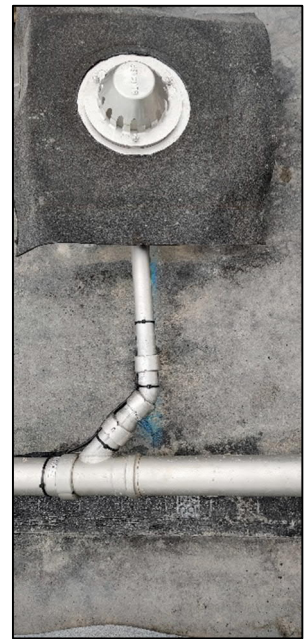
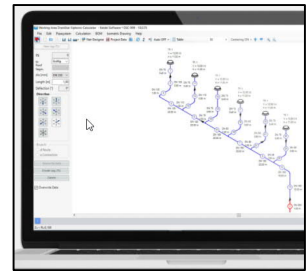
Surveillance of High-High level on for example the Roof as well as congestion in the Main Downcomer that will disrupt the siphon effect.

P-Engineering uses e.g.

- [AVEVA PDMS](#) Software for 3D design
- [Keidel DrainStar](#) Siphonic System Sizing

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*Pictures of Keidel DrainStar and Siphon System made with Blucher Stainless Steel Piping fitted with Heat Trace for Frost Protection.*