

LORO-X rain water drainage systems

LORO-X scupper direct rain water drainage systems of the silent gravity class

Fig. 2 & 3

The drains shown in Fig. 2 & 3 are particularly interesting for areas with a thin heat insulation layer or other solutions, where the installation of the drain in the surface is difficult: Here, the roof surface (heat insulation) will not be penetrated and the drain will achieve a drainage performance of 0.8 l/sec (DN 70) or 1.2 l/sec (DN100), respectively, at a water height of 35 mm.

- **lowest possible depth of penetration (0 mm)**

Fig. 4 & 5

Having a collecting tank and a depth of penetration of approx. 52 mm, the drains shown in Fig. 4 & 5 have considerably higher drainage performances of 2.3 l/sec (DN 70) or 3.0 l/sec (DN100), respectively, at a water height of 35 mm. Please note that the higher capacity of the smaller diameter will be achieved by the gutter's higher degree of filling.

- **increased drainage performance**

Fig. 6

With the drainage performance of 4.5 l/sec conforming to the standard and a minimized depth of penetration (52 mm) in addition to that, the double pipe drain shown in Fig. 6 is suitable for applications, where the roof surface is not to be penetrated deeper.

- **drainage performance of 4.5 l/sec conforming to standard**
- **low depth of penetration**

Fig. 7

Only one pipe is connected to the collecting tank and installed lower (depth of penetration 103 mm) will achieve a drainage performance of up to 4.5 l/sec at a water surface level of 35 mm. This conforms to the discharge performance for flat roof drains with gravity drainage required by DIN EN standard 1253-1 (2003) and will be the result of the water being accelerated in two-steps within the drain.

- **drainage performance of 4.5 l/sec conforming to standard**

