

Collector diameter calculation

Initial data

| DN 50 | №1 Nominal pipe diameter | DN 50 | №2 Nominal pipe diameter |
|-------|--------------------------|-------|--------------------------|
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DN 80 №3 Nominal pipe diameter **DN 80** №4 Nominal pipe diameter

Calculation results

 $S = 0.25 *3.14 *50^2 + 0.25 *3.14 *50^2$

... + 0.25 *3.14 *80^2 + 0.25 *3.14 *80^2

... = 13973 mm2

(4 *13973 / 3.14)^0.5 = 133 mm

DN 150 mm

Total area of holes of pipes connected to the collector

Minimum calculated inner diameter of the collector

The nearest nominal diameter is greater than the minimum value

