

Comparison Hydrorock versus Infiltration crates - 1500 litres

The ecologically responsible infiltration block

K-Value = Soil performance in meters per 24 hours

Converted to liters per m² per hour.

K = 5,0	= 208 l / m ² / hour	Soil / filling sand / street sand
K = 2,5	= 104 l / m ² / hour	Fine sand
K = 1,0	= 42 l / m ² / hour	Sand
K = 0,5	= 21 l / m ² / hour	Sandy loam
K = 0,3	= 13 l / m ² / hour	loam
K = 0,1	= 4 l / m ² / hour	Moor
K = 0,05	= 2 l / m ² / hour	Boulder clay

9x Hydrorock 170 infiltration blocks (Type D or BD) versus 5x infiltration crates of 300 liter

Infiltration provision: 3.6 m long x 1.3 m wide x 0.5 m high / Volume 1500 liter.

Calculated value: rainfall / 35 liters / per m² / per hour. (heavy rain)

Soil Type	Infiltration surface	Capacity/Hour	Empty time/Hour	Paving surface
K-value	HYDROROCK / CRATE	HYDROROCK / CRATE	HYDROROCK / CRATE	HYDROROCK / CRATE
5,0 / 208 l/m ² /hour	7,74 m ² / 4,5 m ²	3100 l / 2400 l	2,0 hour / 2,6 hour	90 m ² / 69 m ²
2,5 / 104 l/m ² /hour	7,74 m ² / 4,5 m ²	2300 l / 1950 l	3,0 hour / 4.0 hour	66 m ² / 56 m ²
1,0 / 042 l/m ² /hour	7,74 m ² / 4,5 m ²	1825 l / 1700 l	5,5 hour / 8,5 hour	52 m ² / 48 m ²
0,5 / 021 l/m ² /hour	7,74 m ² / 4,5 m ²	1665 l / 1600 l	10 hour / 16 hour	48 m ² / 45 m ²
0,3 / 013 l/m ² /hour	7,74 m ² / 4,5 m ²	1600 l / 1565 l	16 hour / 24 hour	46 m ² / 44 m ²
0,1 / 004 l/m ² /hour	7,74 m ² / 4,5 m ²	1530 l / 1520 l	48 hour / 76 hour	44 m ² / 43 m ²
0,05/002l/m ² /hour	7,74 m ² / 4,5 m ²	1515 l / 1510 l	96 hour / 150 hour	43 m ² / 43 m ²

Resume

Because Hydrorock infiltrates the water from five sites (including the soil) in the ground, the absorption capacity is larger. The emptying time of the Hydrorock solution is faster as a result of this same principle. In fact, in practically all cases a smaller dimensioned infiltration solution is sufficient if Hydrorock blocks are applied.

NB: for a soil type with a K-value below 0.1 (pot clay / moderately heavy clay), it is advisable to provide an overflow facility on the sewer system.

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