

## Comparison Hydrorock versus Infiltration crates - 5300 litres

### The ecologically responsible infiltration block

#### K-Value = Soil performance in meters per 24 hours

Converted to liters per m<sup>2</sup> per hour.

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

#### 24x Hydrorock 220 infiltration blocks (Type D or BD) versus 18x infiltration crates of 300 liter

Infiltration provision: 4.8 m long x 2.4 m wide x 0.5 m high / Volume 5300 liter.

Calculated value: rainfall / 35 liters / per m<sup>2</sup> / 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 <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	9200 l / 6800 l	2,4 hour / 4,5 hour	263 m <sup>2</sup> / 194 m <sup>2</sup>
2,5 / 104 l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	7250 l / 6050 l	3,7 hour / 8,0 hour	207 m <sup>2</sup> / 172 m <sup>2</sup>
1,0 / 042 l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	6100 l / 5600 l	7,8 hour / 19 hour	174 m <sup>2</sup> / 160 m <sup>2</sup>
0,5 / 021 l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	5700 l / 5450 l	14 hour / 36 hour	163 m <sup>2</sup> / 156 m <sup>2</sup>
0,3 / 013 l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	5550 l / 5400 l	23 hour / 57 hour	159 m <sup>2</sup> / 154 m <sup>2</sup>
0,1 / 004 l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	5375 l / 5330 l	72 hour / 185 hour	154 m <sup>2</sup> / 152 m <sup>2</sup>
0,05/002l/m <sup>2</sup> /hour	18,7 m <sup>2</sup> / 7,2 m <sup>2</sup>	5340 l / 5315 l	142 hour / 370 hour	152 m <sup>2</sup> / 152 m <sup>2</sup>

#### 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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