

Sizing form for infiltration systems

(according to ATV-DVWK-A 138):



Otto Graf GmbH Kunststoffherzeugnisse Product management Carl-Zeiss-Strasse 2 – 6 DE 79331 Teningen, Germany Phone.: +49 7641 589-0 Fax: +49 7641 589-50	Project address:	Owner: Name: Street: Postcode, city/town: Country: Phone.: Fax: Email:
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Infiltration type	<input type="checkbox"/> Infiltration module	<input type="checkbox"/> Combined swale and infiltration module	
Property type	<input type="checkbox"/> Private	<input type="checkbox"/> Industrial/commercial	<input type="checkbox"/> Municipal <input type="checkbox"/>
Preferred GRAF products	<input type="checkbox"/> Infiltration Tunnel	<input type="checkbox"/> Infiltration Tunnel Twin	<input type="checkbox"/> Herkules infiltration tank
	<input type="checkbox"/> EcoBloc Inspect flex	<input type="checkbox"/> EcoBloc maxx	<input type="checkbox"/> EcoBloc light <input type="checkbox"/> Rain-Bloc

Installation situation

Distance from groundwater in m (ground level to max. groundwater level)						
Loading capacity	<input type="checkbox"/> Pedestrian	<input type="checkbox"/> Vehicle-loading	<input type="checkbox"/> 12 t / H-10, H-15	<input type="checkbox"/> 30 t	<input type="checkbox"/> 40 t / HS-20	<input type="checkbox"/> 60 t / H-25
Area available for infiltration (length x width)					m x	m

Recommended mean runoff coefficient Ψ m according to ATV-DVWK-A 117 and ATV-DVWK-M 153 (German standards)

Surface type / roof	Type of runoff	Runoff coefficient Ψ m	m ² Area
Pitched roof	Metal, glass, slate, fibre cement,	0.9 – 1.0	
	brick, roofing felt	0.8 – 1.0	
Flat roof (incline up to 3° or approx. 5 %)	Metal, glass, fibre cement	0.9 – 1.0	
	Roofing felt, roofing film	0.9	
	Gravel	0.7	
Green roof (incline up to 15° or approx. 25 %)	Topsoil layer < 10 cm	0.5	
	Topsoil layer > 10 cm	0.3	
Roads, paths and public areas (flat)	Asphalt, jointless concrete	0.9	
	Paving with sealed joints	0.75	
	Solid gravel	0.6	
	Paving with open joints	0.5	
	Loose gravel, gravel lawn	0.3	
	Composite stone with joints, permeable stone	0.25	
	Grass pavers	0.15	
Embankments, verges and trenches with rain run-off to drainage system	Clay soil	0.5	
	Loamy sandy soil	0.4	
	Gravel and sandy soil	0.3	
Gardens, meadows and cultivated land with potential rain run-off to drainage system	Flat terrain	0.0 – 0.1	
	Steep terrain	0.1 – 0.3	

Surface type / soil	Permeability coefficient kf (m/s)	Please tick:
Gravel	1*10 ⁻³	
Medium sand	1*10 ⁻⁴	
Fine sand	1*10 ⁻⁵	
Silt	1*10 ⁻⁶	
Clay	1*10 ⁻⁷	No infiltration possible

If you e-mail this form to mail@graf.info or send it to us by fax, we will calculate the required infiltration or attenuation volume and draw up a free quotation.

