

Sizing form for attenuation systems

(attenuation basin)



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Property type	<input type="checkbox"/> Private	<input type="checkbox"/> Industrial/commercial	<input type="checkbox"/> Municipal	<input type="checkbox"/>
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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

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, brick, roofing felt	0.9 – 1.0	
		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 cultivat- ed land with potential rain run-off to drainage system	Flat terrain	0.0 – 0.1	
	Steep terrain	0.1 – 0.3	
Permitted discharge in l/s	l/s		
Volume per m ² of roof area	l/m ²		
Area available for attenuation (length x width in m)			x

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.

