



# Rainwater Harvesting Tank Volume Sizing Form:

Otto Graf GmbH Kunststoffzeugnisse Produktmanagement Carl-Zeiss-Straße 2 – 6 DE-79331 Teningen  Tel.: +49 7641 589-0 Fax: +49 7641 589-50	Project Address:	Owner: Name: ..... Street: ..... Zip Code: ..... Tel.: ..... Fax: ..... E-Mail: .....
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**Rainfall Calculation:**

**Formular:**

Rainwater Collection Area x Roof Coefficient\* x rainfall per year (mm) = Total amount of available rainwater

x x =

\*Clay Tiles: 0,9; Concrete: 0,8; Flat-Gravel Roof: 0,6

**Required Water Consumption:**

Extraction Point	<input type="checkbox"/> Private	<input type="checkbox"/> Industrial/ Commercial	<input type="checkbox"/> Civil	<input type="checkbox"/> Other.....
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Consumer	Water usage L / day per person**	x of people	x of days used	= Total water consumption L/year
Toilets – Private use	24		365	
Office toilets	12		365	
School toilets	6		365	
Urinals	2		365	
Wash machine	10		365	
Cleaning water	2		365	
<b>Total water consumption<sup>①</sup></b>				..... Liters/Year

Consumer	Annual Consumption (L/m <sup>2</sup> )	x Area in m <sup>2</sup>	= Total water consumption L/year
Garden use	60		
Sport Facilities	200		
Green areas – fast infiltration	200		
Green areas – slow infiltration	150		
Other			
<b>Total water consumption<sup>②</sup></b>			..... Liters/Year

SUM of total water consumption <sup>①</sup> + Total water consumption <sup>②</sup>	..... Liters/Year
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Required Storage Volume: $\frac{\text{Total Rainfall} + \text{Total required Rainwater} \times 21 \text{ days}^*}{365 \text{ Tage}} =$	..... Liter
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\*This calculation takes into account 3 consecutive weeks without rainfall.

\*\*Water consumption per person per day values specific for Germany. Please refer to your local water agency for market specific data.