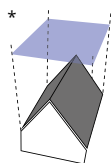


Dimensioning sheet for rainwater tanks

Otto Graf GmbH Kunststofferzeugnisse Produktmanagement Carl-Zeiss-Straße 2 – 6 DE-79331 Teningen Tel.: +49 7641 589-0 Fax: +49 7641 589-50 mail@graf.info www.graf.info	Object address:	Builder: Name: Street: Postal code Town: Phone: Fax: Email:
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Dimensioning of the rainwater yield

Collection area* m ²	x	Drain coefficient**	x	Precipitation height l/m ²	=	Rainwater yield
m ²	x		x	l/m ²	=	Litres/year



** The drain coefficient indicates the loss through the roof material as a correction factor:
 0.9| Slate, concrete, plastic, metal (sheet), baked glazed brick, roofing felt (bitumen)
 0.8| Tile, bulk gravel
 0.4| Green roof

Calculation of the water demand

Consumer	Water consumption* in litres/day person	x	Number of persons	x	Time in days	=	Water consumption in litres/day person
Toilet with cistern for domestic use	37	x		x	365	=	
Toilet for office use	12	x		x	365	=	
Toilet in schools	6	x		x	365	=	
Urinal	2	x		x	365	=	
Washing machine	15	x		x	365	=	
Cleaning water	7	x		x	365	=	

*in accordance with DIN 1989-100

Water consumption ① = Litres/year

Consumer	Annual demand* in litres/m ²	x	Area in m ²	=	Water demand in litres/day person
Garden	150	x		=	
Sports facilities	200	x		=	
Green areas	250	x		=	
Miscellaneous		x		=	

*in accordance with DIN 1989-100

Water demand ② = Litres/year

Send the form sheet to mail@graf.info or fax it to +49 7641 589-50. We will check sizing or compile your initial quote speedily. We look forward to receiving your query!

Dimensioning sheet for rainwater tanks

Result Rainwater yield		Litres/year
Total water consumption^① + water demand^②		Litres/year

If your rainwater yield is less than your water demand, please check if you can connect further roof areas for rainwater collection.

We recommend planning on a safety reserve for your rainwater use due to dry periods during the summer months. Please select a bridging capacity for a dry period of 20, 30, or 40 days:

Water demand*	x	20/30/40 days**	=	Storage volume
		365 days		
	x	Days**	=	
Litres		365 days		Litres

* Always use the smaller value according to the standard (yield/demand)

**The factor considers bridging of a dry period; we recommend a safety margin of 30 days.

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