

# GRONDA G80



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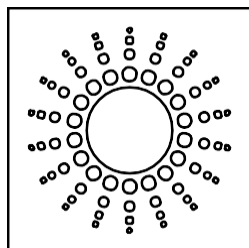
- 1. Data and Documentation
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## 1. DATA AND DOCUMENTATION

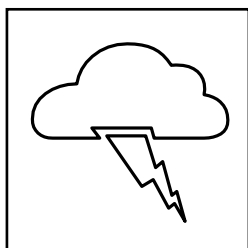
Code	Description	Measurements (m)	Weight	Colour	Pkg / Pallet
GRO01-3100M8	Gutter G80	4	20.00 kg/pc.	Brown	10 pcs. (40 m) / 20 cf.

### MATERIAL

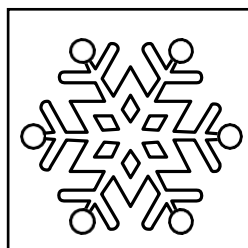
Made of UV-resistant PVC.



Heat Resistance



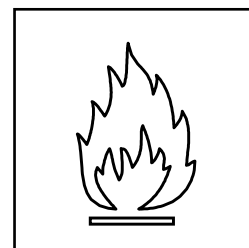
Weather resistance



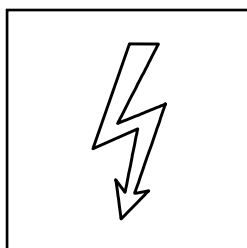
Frost resistance



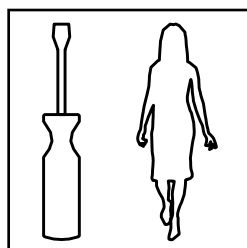
Non-toxic material



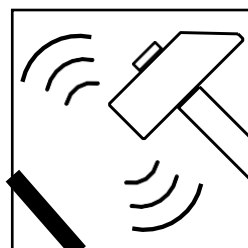
Non-flammable material



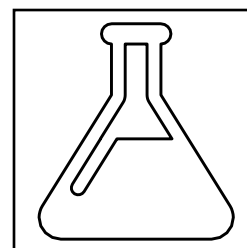
Non-conductive material



Easy to install



Extremely resistant



Resistance to acids and Alkali

# GRONDA G80

## GUTTER SYSTEM REQUIREMENTS

### - UV Resistance

The gutters are exposed to ultraviolet radiation and rain/evaporation cycles for 1,600 hours. After the test, colour ageing and shock resistance must not exceed the values required by the standard.

### - Resistance to Atmospheric Agents

The test consists of 5 consecutive cycles during each cycle hot water at 50 °C for 15 minutes and immediately cold water at 15 °C for 10 minutes. After this test the gutter must not show any cracks.

### - Frost resistance

To check frost resistance, a mechanical shock test is carried out after ice water has run through the gutter for one hour or is left for four hours at a temperature of 0° C.

## Physical-Mechanical Characteristics of Gutter Profiles

CHARACTERISTICS	REQUIREMENTS-TEST PARAMETERS	TYPE OF TEST
Impact resistance by hammer (type of test)	No breaks or cracks visible without magnification Temperature (0 ± 2) °C	EN 607 Annex B
Breaking load (test type)	≥ 42 N/mm2 Speed 5 mm/min	EN 638
Elongation at break (type of test)	≥ 100 % Model type type 2,3 or 5a according to EN ISO 527-2	EN 638
Impact resistance ≥	500 kJ/m2 Speed 5 mm/min according to EN ISO 527-2	EN ISO 8256
Heat return (type of production and control tests)	≤ 3 % Model type type 2,3 or 5a according to EN ISO 8256 Temperature (23 ± 2) °C	EN 743
Temperature of Vicat softening (type test)	≥ 75 °C Test temperature (100 ± 2) °C Time (30 ± 2) min	EN 743
Return of Heat (type of production and control tests)	≤ 3 % Test temperature (100 ± 2) °C Time (30 ± 2) min	EN 743
Temperature of Vicat softening (type test)	≥ 75 °C Compliant with EN 727EN 727	
Polymethyl methacrylate elements		EN 607 - EN 12200

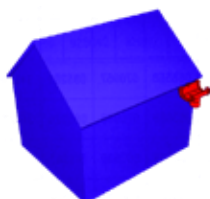
# GRONDA G80

## SELECTION GUIDE

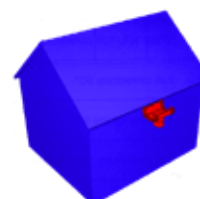
The methods for calculating the dimensions of gutters and downpipes are defined in EN 12056-3.

TYPE OF GRADE		G80	G125
Drainage ("")	Final	30	120
	Central	40	160
Dimensioning (mm)		80	135
Tube Ø (mm)		50	80

Final Discharge



Central Discharge



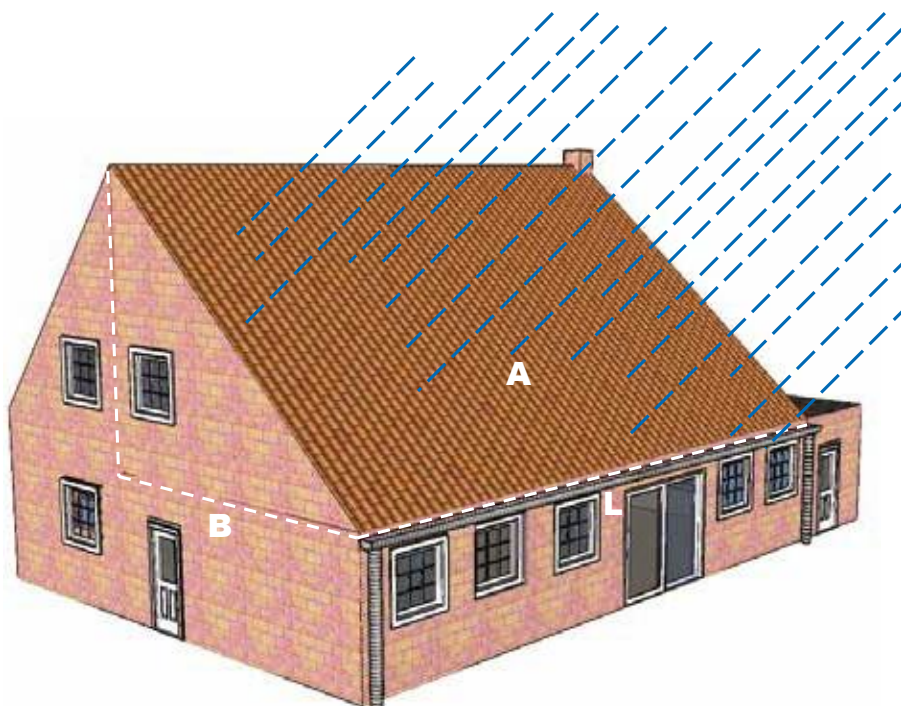
## EXAMPLE

Calculation of the choice of eaves where L and B are known where L is the length of the roof covering to be drained and B is the width of the roof covering from the eaves channel to the ridge. In this case we proceed as follows:

- A = Effective coverage area in m<sup>2</sup>
- L = Cover length
- B = Width of cover from channel to ridge



$A = (L - B)$



**L = 6 m**  
**B = 5 m**

**A = (6 - 5) = 30 m<sup>2</sup>**

**30 m<sup>2</sup> is the effective coverage area**

**In this case the choice of eaves is G80 with final discharge**

# GRONDA G80

DESCRIPTION	NORM REF.	MAX. STRAIGHTNESS	GLOSS MIN	P.S.	VICAT MIN	VICAT MAX
GUTTER G80 BROWN PS (MT 4)	-	0,80	30,00	1,50±0,03	75	2,5

## 2. USE

Used for collecting rainwater from roofs and its disposal.



Fasten the support brackets after determining the position of the drain. Allow for an inclination of approximately 3 mm per metre.



Connect the highest and lowest bracket with a cable, attach the next support bracket every 40 cm or at most every 50 cm. Three support brackets every metre is an optimal size. Of course, in regions where a large amount of snow falls, it is necessary to install several support brackets close together. A balanced fastening is decisive for the stability of the entire roof construction.



Attach accessories as close as possible to the support bracket; observe a minimum distance of 5 cm between the bracket and the fitting.



Insert the gutter into the accessories until you hear the 'click'.



Apply the gutter angle.



Glue the end of the gutter with PVC adhesive.



Attach the stabilisers to the support brackets.

## 3. SPECIFICATION ITEMS

Entry	Description	Unit	Price
<b>Dak.R.GRO01.3100M8</b>	Supply and installation of roof gutters, available in G80 dimensions. Downpipes and accessories adaptable to different sizes. Made of UV-resistant PVC. Used for collecting rainwater from roofs and its disposal.	cf.	-