# G125 GUTTER

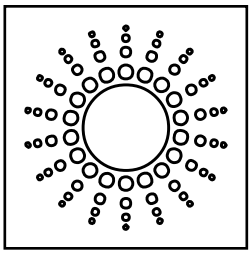
## INDEX



## 1. CODE REGISTRY

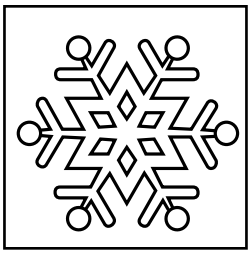
| Code | Description | Lenght (m) | Weight | Colour | Pkg / Pallet |
|---|---|---|---|---|---|
| GRO01-3100M3 | G125 Gutter | 3 | 15,00 kg/pc. | Brown | 10 pc. (30 m) / 20 box |
| GRO01-3100R3 | G125 Gutter | 3 | 15,00 kg/pc. | Copper | 10 pc. (30 m) / 20 box |

**MATERIAL** Realizzata in PVC resistente ai raggi U.V.

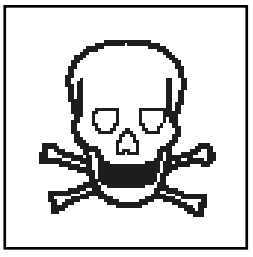


Heating resistance

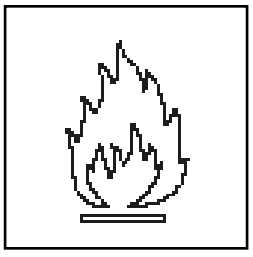
Weatherproof



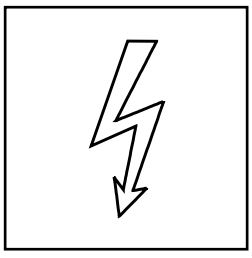
Frost resistance



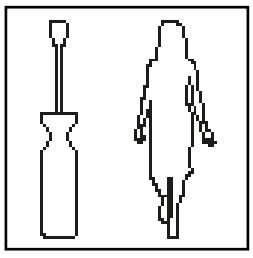
No toxic material



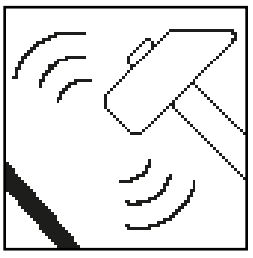
No flammable material



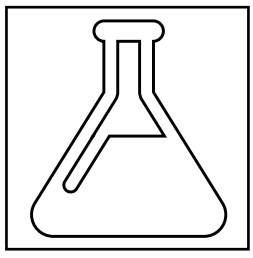
No conductive material



Easy mounting



High resistance

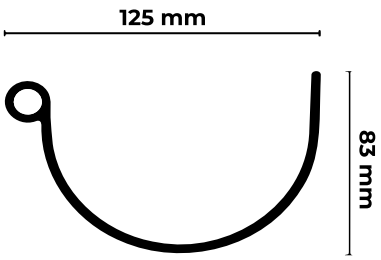


Acids and alkalis resistance

# G125 GUTTER

## 2. FEATURES

| GENERAL FEATURES | REQUIREMENTS | | | |
|---|---|---|---|---|
| Material | PVC | | | |
| Colour | CIELAB L, a, b | GRO01-3100M3 brown | GRO01-3100R3 copper | EN 607 |
| ΔE | | Max 2,00 | | |

| DIMENSIONAL DATA | Unit | Value | | Tolerance | |
|---|---|---|---|---|---|
| | | GRO01-3100M3 brown | GRO01-3100R3 copper color | GRO01-3100M3 brown | GRO01-3100R3 copper color |
| **Wall thickness** | mm | 1,30 | | ± 0,20 | |
| **Rectification** | mm | 222,00 | | ± 0,20 | |
| **Flash diameter** | mm | 13,75 | | ± 0,5 | |
| **Weight per meter** | g/m | 490,00 | 550,00 | ± 0,30 | ± 0,25 |
| SECTION | |  | | | |



| PHYSICAL AND MECHANICAL CHARACTERISTIS | Condizioni di Test | Valore | Metodo |
|---|---|---|---|
| **Gloss** | - | > 40 | DIN 67530 |
| **Heat reversione** | 100°<br>30 min. in air | <3% | Method B<br>EN ISO 2505 |
| **VICAT point (VST)** | 50° C/h<br>50N | ≥ 75° C | EN ISO 2507 |

## GUTTER SYSTEM REQUIREMENT

### - UV Rays Resistance

Gutters are exposed to UV rays for 1.600 hours and to rain/evaporation cycles. After the Test, ageing of colors and thermal shock resistance must follow the norme values.

### - Frost Resistance

A mechanical test is done after using frozen water for one hour inside the Gutter or after having left the Gutter for four hours at 0° C temperature.

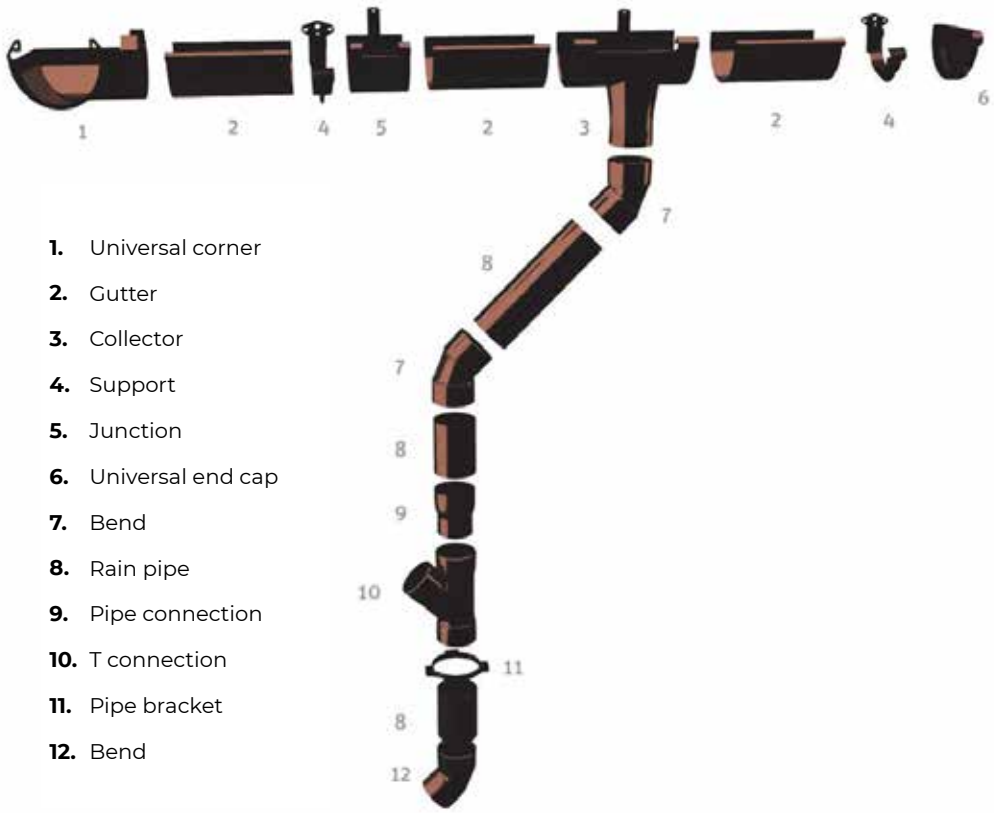
### - Atmospheric Agents Resistance

The Test consist in 5 consecutive cycles. In every cycle the Gutter must resist to hot water (50°C) for 15 minutes and immediately after with cold water (15 °C) for 10 minutes. After the Test the Gutter must be free of cracks.

# G125 GUTTER

## Physical-Mechanical Features of the Gutters Profiles

| FEATURES | REQUIREMENTS | TEST PARAMETERS | | TEST TYPE |
|---|---|---|---|---|
| Hammer impact resistance (type test) | No break or crack visible without zooming | Temperature | (0 ± 2) °C | EN 607 Annex B |
| Tensile strength (type test) | ≥ 42 N/mm² | Speed | 5 mm/min | EN 638 |
| | | Model type | type 2,3 or 5ª conforming to EN ISO 527-2 | |
| Elongation at break (type test) | ≥ 100 % | Speed | 5 mm/min | EN 638 |
| | | Model type | type 2,3 or 5ª conforming to EN ISO 527-2 | |
| Tensile impact strenght (type test) | ≥ 500 kJ/m² | Model type | type 2,3 or 5ª conforming to EN ISO 8256 | EN ISO 8256 |
| | | Temperature | (23 ± 2) °C | |
| Heat reversion (type and production control test) | ≤ 3 % | Test temperature | (100 ± 2) °C | EN 743 |
| | | Time | (30 ± 2) min | |
| Vicat softnening temperature (tipe test) | ≥ 75 °C | Conforming to EN 727 | | EN 727 |
| Polymethyl methacrylate elements | | | | EN 607 - EN 12200 |




1. Universal corner
2. Gutter
3. Collector
4. Support
5. Junction
6. Universal end cap
7. Bend
8. Rain pipe
9. Pipe connection
10. T connection
11. Pipe bracket
12. Bend

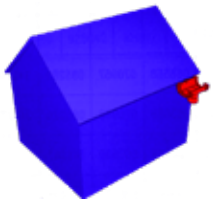
# G125 GUTTER

## MOUNTING INSTRUCTIONS

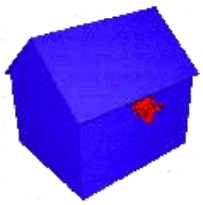
The methods to calculate the Gutters and Pluvial Pipes dimensions are defined in the EN 12056-3 norm.

| GUTTERS TYPE | | G80 | G125 |
|---|---|---|---|
| Drainage ($m^2$) | Final | 30 | 120 |
| | Middle | 40 | 160 |
| Dimensions (mm) | | 80 | 135 |
| Ø Pipe (mm) | | 50 | 80 |

Final Discharge



Middle Discharge



## EXAMPLE

The calculation to choose the Gutter is done by L and B. Where L is the lenght of the roof and B is the distance from the roof top to the Gutter.
In this case we can proceed as follow:

A = Coverage Area ($m^2$)
L = Lenght of the roof
B = Distance from the roof top to the Gutter

**A = (L · B)**


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

**A = (6 · 5) = 30 $m^2$**

**30 $m^2$ is the Coverage Area**

**In this case the choosing for the Gutter is G80 with Final outlet**

# G125 GUTTER

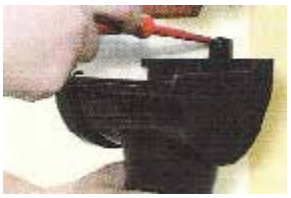
| DESCRIPTION | REFERENCE | MAX STRAIGHTNESS | GLOSS MIN | P.S. | VICAT MIN | VICAT MAX |
|---|---|---|---|---|---|---|
| GRONDAIA G125 MARRONE PS (MT 3) | - | 0,80 | 30,00 | 1,50±0,03 | 75 | 2,5 |
| GRONDAIA G125 RAME +T PS (MT 3) | EN 607 | 0,80 | 30,00 | 1,50±0,03 | 75 | 2,5 |

## 2. USE

Utilizzate per la raccolta delle acque meteoriche dalle coperture e relativo smaltimento.

Fix the gutter brackets after having calculated the correct allignment to the drainage.
Ensure at least a 3 mm slope per meter.

Connect the highest Bracket to the lowest one with a rope and x the following Brackets every 40 cm to 50 cm.
Three Brackets every meter is considered the best solution. It is necessary to x closer Brackets in areas where it snows a lot.
A correct Gutter Bracket xing ensure the stability of roof building.



Fix accessories the closest possible to the gutter brackets (6a); position the junction not more than 5 cm away from the brackets.

Assemble the gutter with the accessories clipping them together until a “click“ is heard.

Install the gutter corner.

Fix the end cap with a proper glue for PVC.

Fix the security bars to the gutter brackets.

## 3. TECHNICAL SPECIFICATION

| Specification | Description | Unity | Price |
|---|---|---|---|
| **Dak.R.GRO01.3100M3** | Supply and installation of roof gutters, available with G125 sizes.<br>Pluvials and accessories adaptable depending on the different sizes.<br>Made of U.V Ray Resistant PVC.<br>Use for the collection of meteoric waters from the covers and relative disposal. | | |
| **Dak.R.GRO01.3100M3** | Brown..... | box | - |
| **Dak.R.GRO01.3100R3** | Cupper..... | box | - |