



## BMV-1, GREEN ROOF GARDENS SUBSTRATE

The new residential areas, as well as the new transport facilities, make clear the need of recovering green space to improve our environment's health and our quality life.

The green covers can reduce locally the impact of the constructions, as well as offering plenty of economical and ecological benefits:

- Use and administration of rain water
- Energy saving: thermal isolation and protection against direct insulation
- Decrease of the "urban heat island" effect
- Creation of a more harmonious and pleasant working and living environment
- Increase of the useful life of the covers' membranes

To enjoy all the advantages of a green cover it's necessary to choose the right species to grow on it and, of course, the right substrate to allow a proper growth.

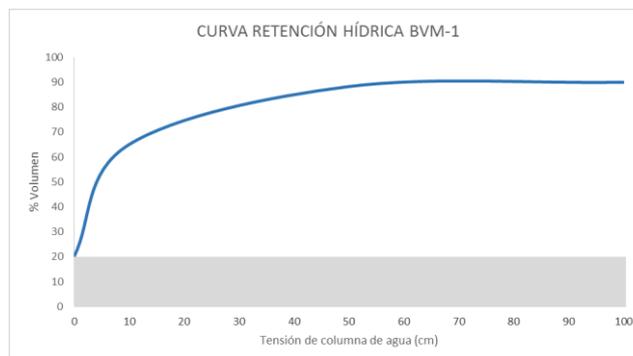
**BURÉS** has a wide offer of substrates specially designed for green covers, adapted to the needs of different projects.

### properties

The substrates for green covers of **BURÉS** are made out of high-quality prime materials, and designed to have the optimal aeration, water retention capacity and density values.

The **BVM-1** is an **organic** GRWOING MIXTURE SUBSTRATE obtained from vegetal mulch and volcanic rocks. This product allows both for extensive farming of low-watering needs plants as for intensive farming.

With extensive farming, the BVM-1 supports plant growth with layers less than 10cm deep. This reduces the amount of substrate used, thus reducing both the cost of the cover and its weight. Concerning intensive farming, a layer of at least 10cm deep of BVM-1 must be used.



### composition

The BVM-1 is made out of vegetal much (of composting origin) and volcanic sand of 0-6mm.

The vegetal compost has all the properties of a vegetal amendment: the organic matter increases water retention, maintains the substrate's structure and slowly releases nutrients.

On the other hand, the volcanic sand has a high aeration and is very stable, giving stability to the mix. It's also chemically inert, letting the wonderful chemical properties of the vegetal compost stand out.

Furthermore, the substrate includes a base fertilizer that helps the root fixing and supports the beginning of the plant growth.

The physical and chemical properties of this substrate are shown below.

PARAMETER	UNIT	VALUE
WATER RETENTION	%	30-35
ORGANIC MATTER	% s.m.s.	30-35
pH (1:5)	-	7,0-8,0
CONDUCTIVITY (1:5)	μS/cm	90-100
APARENT DENSITY	kg/m <sup>3</sup>	580±10%
SATURATION WIEGHT	kg/m <sup>3</sup>	1350±10%
TOTAL POROUS SPACE	%	70-80



This product has several advantages compared to others in the market:

- High water retention capacity
- Excellent drainage
- High porosity
- Low apparent density
- High covering capacity and decrease of undesired plants' growth.

The whole producing processes, as well as the final product, is under our accurate quality controls based by "Normas" ISO-9001 and 14001, with the aim of guaranteeing the satisfaction of our clients as well as a deep respect towards the environment as in all our activities.

## product presentation

The **BMV-1** substrate is in bulk and in 1m<sup>3</sup> big-bags.