

# VEGETATION BAGS AS-GREEN SLOPE

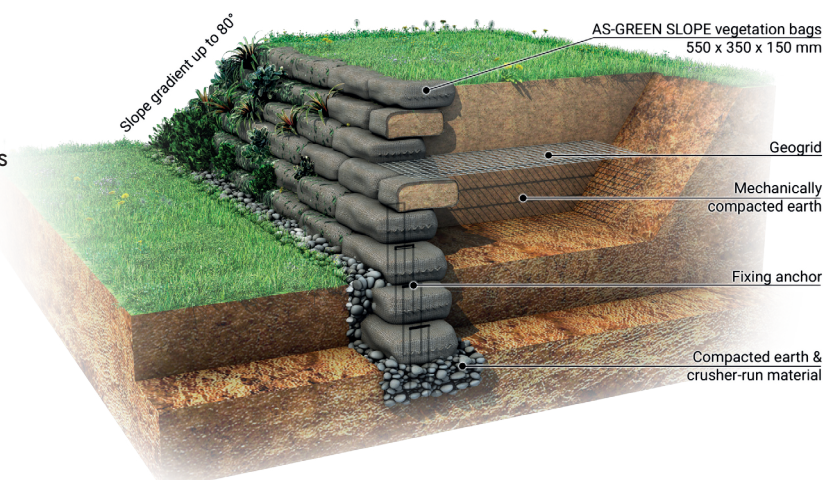
This is a system solution of stabilization of various slope types with vegetation bags, due to which it is easily possible to form a stable green slope. In order to bridge height differences or slope reinforcements, various concrete blocks or other masonry solutions are often used, but they are not ideal for their high bulk weight, minimum water penetration or low noise attenuation. **AS-GREEN SLOPE** vegetation bags represent an ideal alternative to these conventional solutions.

**AS-GREEN SLOPE** vegetation bags are sewn of especially breathable fabric with sewn-in strips for tying-up. The material (100% recyclable) is based on non-woven textile and it is fully permeable for water and plant roots; the material is UV-resistant. The bags enable growing through of plant roots without impairing the bag structural properties. The textile is able to withstand even significant mechanical loading without any negative effects to its strength.

**AS-GREEN SLOPE** represents a suitable solution for reinforcements of various slope types or rock garden modifications. The vegetation bags are systematically used for water stream rehabilitation projects, where the breathability of bags improves the interaction between riverbeds and neighbouring ground, which supports underground water replenishment. Revegetation of slopes increases not only their aesthetic appearance, but it serves also as another element improving the local microclimate. In addition, it minimises the need for draining system installations in larger slope areas and brings water to roots of planted vegetation.

## Advantages of AS-GREEN SLOPE bags

- ✓ Wide solution flexibility – possibility to adapt the slope gradient and shape but also use various vegetation species (from grass to shrubs)
- ✓ Simple installation even at inaccessible places
- ✓ Easy transport of empty bags
- ✓ Recommended slope gradient - 1:0,3 (73°)
- ✓ Water permeability
- ✓ Minimum carbon footprint



For further information see: [www.asio.cz](http://www.asio.cz)



## UTILISATION OF VEGETATION BAGS

The system of **AS-GREEN SLOPE** vegetation bags is ideal for both domestic projects (DIY garden/slope modifications) as well as for large scale commercial applications, such as stabilisations of slopes, revitalisation of water streams, creation of foundation slabs or other environmental solutions. Vegetation walls provide an opportunity for large range of architectural designs; in larger projects it is possible to use geogrids for slope stabilisation purposes depending on the slope size and gradient.

In cases of walls higher than 1.5 m, it is recommended to consult the project with a structural engineer or a designer. In this case, design documents and building warrant might be needed. The system of **AS-GREEN SLOPE** vegetation bags make possible to create vegetation walls up to the gradient of 1:0,3 (73°).



## BAG SIZES

<b>Dimensions of filled and compacted bag</b>	<b>550 x 350 x 150 mm</b>
Weight (depending on charge)	20 to 40 kg
<b>Filled bag volume</b>	<b>0.029 m<sup>3</sup> = approx. 29 litres</b>
Empty bag dimensions	750 x 460 mm, 175 g
<b>Consumption per 1 m<sup>2</sup> wall area</b>	<b>12-13 pieces</b>
Average speed of construction	45 m <sup>2</sup> /day/ 4 persons

## WALL SETTING UP USING AS-GREEN VEGETATION BAGS

- ✓ vegetation bags with sewn-in strips for tying-up
- ✓ fixing anchors (2 pcs per bag)
- ✓ geogrids are used at higher walls improving the slope stability (above approx. 0.6 m)
- ✓ bags are filled with earth, in ideal cases the earth locally excavated, and mixed with sand/gravel/soil, as suitable
- ✓ plants – climbing plant, low shrubs, perennials

According to the developer's job description, ASIO NEW, spol. s r.o. can prepare an informative scheme for the vegetation bag layout, and the use of reinforcing geogrids as necessary, as well as an itemised budget or price offer. Over and above the basic framework, the company can recommend an experienced designer or garden architect, as necessary for the best result.



**ASIO NEW, Ltd.**  
Kširova 552/45, 619 00 Brno  
Czech Republic



+420 548 428 111



asio@asio.cz



www.asio.cz