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Constructive and Technological Features of Using Plants in the Interior Environment

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ABSTRACT

The demand for vertical plants in interiors will contribute to the growth of offers in this area. In addition to horizontal pots for planting plants, the phytomodule can be cube-shaped, pyramid-shaped. These systems are divided into two types: using indoor hydroponics, using land, or conventionally grown. Both options have advantages and disadvantages. The choice depends on the planned financial investments, the time for maintenance and the conditions for installation are briefly mentioned in the article.

Building soil-filled containers takes a lot of weight, but you can use many crops for vertical gardening. Use hydroponics if plants are planted in polymer-based pockets. The advantage of this method of vertical gardening is the ease of installation of the structure itself and its fastening, as well as the simplicity of planting plants. Flowers planted hydroponically need regular fertilization, at least once every 30 days.

Ready phytomodules. The use of ready-made plant modules for indoor vertical gardening of the building makes it easier to care for plants. It depends on the proposed automatic irrigation system. They are very compact, their depth does not exceed 20 cm, so the useful space of the interior remains almost unchanged. Offers models of phytomodules for vertical gardening made of plastic. Sealed backing prevents damp or mold from appearing on the wall. The design does not need additional hydrophobic layers. The vertical base is equipped with cells for planting flowers and is equipped with an automatic drip irrigation system. The equipment of the factory module for vertical gardening includes a device for vertical water supply, a tank for its accumulation and a humidity sensor. The water supply schedule is set using the control panel. An internal sensor responds to the humidity level and, if necessary, starts an automatic watering system, so the interior of the apartment is decorated with healthy and moisture-saturated plants.

Phytomodules for vertical gardening have different sizes. You can change to small sizes with a compact design of 30/30 cm, for one wall composition, 67/104 cm or 80/180 cm products are suitable, the thickness of such phytomodules varies between 15-17 cm.

Ways of making earring. You can decorate the interior of the building with a design for vertical gardening with your own hands. The only difficulty is the lack of automatic watering. There are several interesting models for vertical gardening. The simplest method involves the following steps:

- Two vertical supports made of aluminum pipes or wooden seams are installed at a distance of 50-70 cm from the wall by 5 cm.
- Floor-to-ceiling transverse bars are installed at equal distances between supports.
- Containers are placed in the finished structure and flowers are planted.

Kichik vertikal devor peyzaji uchun, sizga kerak bo‘ladi:

- ✓ PVC panel or board is used for the frame.
- ✓ the waterproof film is designed for greenhouses.
- ✓ thin felt or other materials that do not withstand rotting processes.
- ✓ a narrow container for collecting excess liquid during irrigation.
- ✓ tools for joining materials (stapler, scissors).
- ✓ installation of a structure for vertical greening includes the following steps:
- ✓ mounting the film to the frame with a stapler;
- ✓ formation of pockets that can be installed on the frame;
- ✓ at the last stage, wall mounting is done using self-tapping screws and plastic dowels compared to ready-made plant modules [14].

A panel of succulents or mosses. An interesting option for the interior design of an apartment using a vertical landscape is a panel of succulents. To do this, you will need to prepare a shallow box of suitable sizes, on the bottom of which you have pre-planted in a horizontal position and pasted a pot with ordinary plants. The space between the pots is filled with decorative materials such as moss, ash or straw. This is the easiest way to organize a compact interior landscape. Instead of a pot, a box can be filled with moss as a hydrophobic material and a trellis can be used for proper plant growth.

Design decorated with moss, creating an original element of the interior of the room with the help of vertical landscaping. To do this, it is mixed together with hydrophobic gel and water in a blender, after which the mixture is applied to the wooden surface with a brush. When choosing moss, consider its compatibility with the prepared base. Moss should be watered regularly throughout the day.

Correct organization of vertical gardening ensures competent lighting of plants planted in the interior of the building. Depending on the design, the lamps are installed directly on the module, mounted on the ceiling or on the walls. It is preferable to use energy-saving daylight lamps for vertical landscape lighting.

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