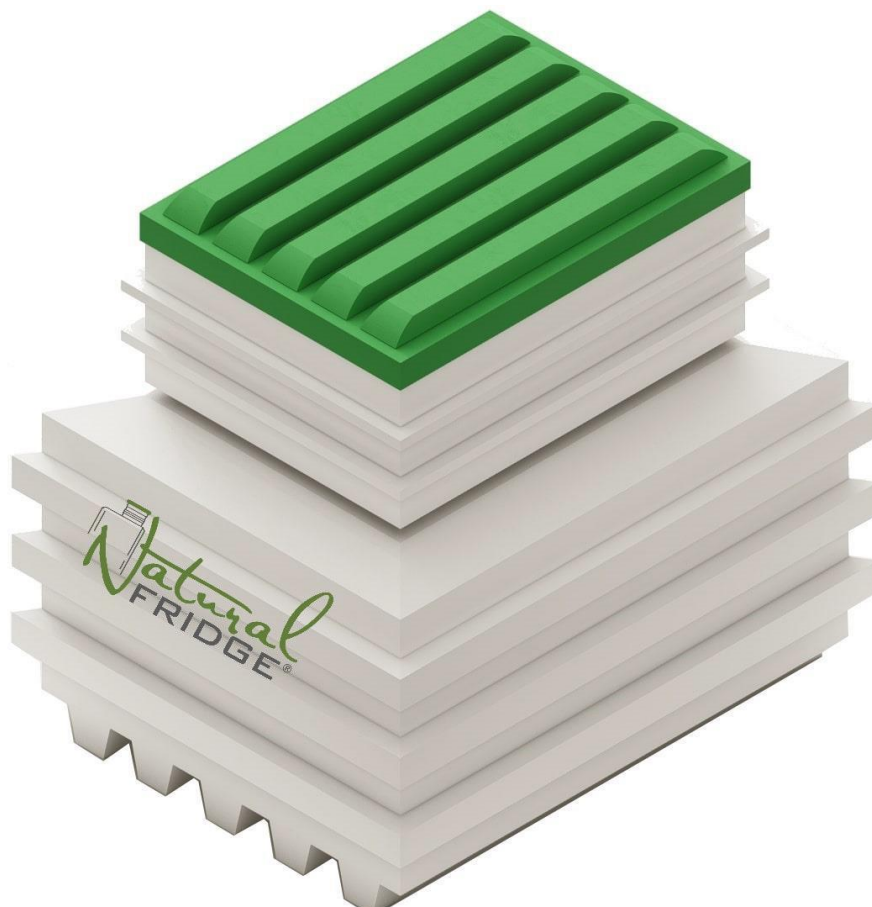




# Technical Specification Sheet for the Cellar 120x160 Natural Fridge®





This card contains a description of the basic technical characteristics of the Cellar 120x160 Natural Fridge made of plastic with a top entrance, as well as the method of assembly and use.

Plastic cellars are intended for storing vegetables, fruits, liquids, beverages, and various types of food in packaging.

The cellar is delivered ready to be embedded in the ground

The cellar is made of food-grade polyethylene as a monolithic structure in the technology of rotomolding. It does not require additional sealing.



Length 160 cm

Width 120 cm

Height 140 cm

Volume 2.0 m<sup>3</sup>

Weight 195 kg

Entrance dimensions 70 x

100 Shelf area 1.6 m<sup>2</sup>

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Dimensions may vary by  $\pm 3\%$  due to different shrinkage of polyethylene.

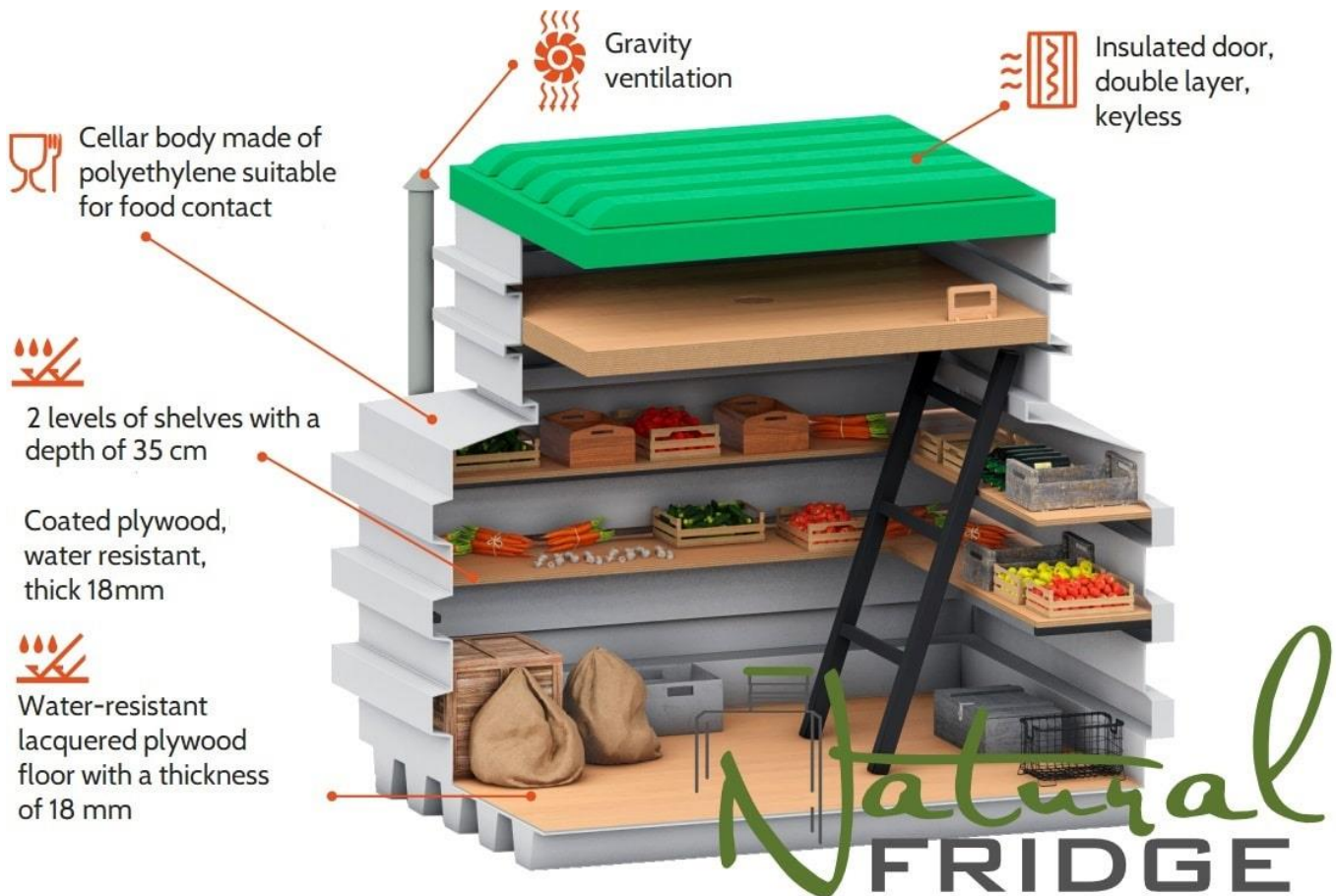
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## Equipment

### Interior equipment:

1. Shelves made of waterproof plywood - 2 rows,

2. Floor made of waterproof plywood,
3. Telescopic ladder - 1 pcs,
4. Air inlet ventilation - 1 pcs,
5. Double cover (lid) - 1 pcs.



## Assembly and usage instructions

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The body of the cellar is made of food-grade polyethylene reinforced with ribbing. Inside the cellar, a strong steel frame is installed, which also serves as reinforcing ribbing for the body. The object does not require additional sealing or protection against corrosion.

The lower part of the cellar should be buried at a depth of about 135 cm below the ground surface. At such depth, very large soil pressure forces act on the body of the cellar. These forces can be even higher in the case of high groundwater levels or in the case of clay soils, which



may move during freezing. Therefore, the cellar installation must be carried out in accordance with these instructions. Thanks to this, the aesthetic and practical cellar will serve for many years.

**Before starting the cellar installation, it is necessary to determine the groundwater level and the type of soil on site.**

### **Required materials**

Materials needed for the installation/assembly of the cellar:

- mix of dry concrete B15-B25 - 2 m<sup>3</sup>
- polystyrene (styrofoam) for foundations - 12-14 sheets

### **Excavation Size**

The width and length of the excavation for the installation/assembly of the cellar should be 20 cm larger than the width and length of the cellar on each side. The excavation should be deep enough so that after placing the cellar on a dry concrete sub-base, the lower edge of the hatch cover is 5-10 cm above ground level. This is to prevent rainwater or meltwater from entering the interior of the cellar. The walls of the excavation should be made vertically, maintaining the appropriate dimensions throughout the height. This will greatly facilitate the enclosure of the cellar walls with dry concrete.

### **Installation in sandy soil**

In sandy soils and with a low groundwater level (at least 1.5 m below the surface), the installation of the cellar on a layer of dry concrete with a height of 10-15 cm is allowed. The body of the cellar is surrounded with dry concrete to a height of 50-60 cm from the bottom, ensuring a minimum layer thickness of 20 cm around each wall. Then, the cellar is covered with sand.

### **Installation at a high groundwater level**

If the groundwater is already at a depth of 1 m below the surface or in clay soil, the cellar is set up earlier



Pouring at the bottom of the excavation a reinforced concrete slab and securing it to the slab with coupling straps (not included in the equipment). The cellar should be centrally placed on the reinforced concrete slab. Then, secure it to the slab with coupling straps or a rope and surround it on all sides with dry concrete. Each layer of concrete, 25 cm in height, should be moistened with water to allow the dry concrete to harden faster. The body of the cellar is surrounded with dry concrete up to a height of 50-60 cm from the bottom, ensuring a minimum layer thickness of 20 cm around each wall. Then, the cellar is covered with sand.

If groundwater quickly enters the excavation, the cellar can be mounted on a concrete slab on the ground surface, secured with straps, and introduced into the excavation along with the concrete slab. The bottom of the excavation should be leveled horizontally.

### **Installation of the upper part**

To reduce temperature fluctuations inside the cellar, it is recommended to use an insulating material with a thickness of 5-10 cm (styrodur or similar) on the vertical entrance side surfaces, on the upper plane of the cellar body, and on the side surfaces of the cellar body up to a height of 0.5 m from the bottom of the cellar. The thermal insulation should be covered with geotextile.

The ventilation pipe should be extended to a height of 50-60 cm above ground level.

In winter, at very low temperatures (below  $-25\text{ }^{\circ}\text{C}$ ) and in summer at high temperatures (above  $+30\text{ }^{\circ}\text{C}$ ), the airflow (inlet opening) should be restricted to reduce the flow of cold and warm air (closing the air supply).

### **Attention**

When backfilling the cellar body with soil, construction machinery must not be used within a distance of less than 1 m from the body. Vehicle movement within a distance of less than 1 m from the cellar along its entire perimeter is prohibited.

Within a few weeks after installation, the polyethylene walls of the underground cellar will be pressed against the steel frame and the shelves of the cellar under the pressure of the surrounding soil.



Slight bulging of the walls may occur, especially on longer sections between scaffolding elements.

In case of large temperature differences, condensation may appear on the entrance doors or walls. The condensation evaporates after some time and does not need to be specifically removed. At very low temperatures, frost may appear on the inside of the entrance flap. If this phenomenon occurs frequently, it is recommended to insulate the door from the inside with a layer of insulating foam.

## Warranty Conditions

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During the warranty period, the buyer has the right to free repair of the product due to defects resulting from manufacturing errors.

The warranty covers the functionality of the equipment, the quality of food-safe material, the floor and shelves, as well as mechanical and welded connections.

### **Damages not covered by the warranty include those caused by**

The manufacturer's warranty is strictly limited to manufacturing defects and does not cover the following cases:

- Normal wear and tear of all parts and components, natural aging, and damage to paint and surfaces caused by normal use and environmental influences, including aggressive substances in the atmosphere, industrial pollution, chemicals, plant juices, stones, salt, etc.
- Minor geometric deviations that do not affect the quality of the plastic cellar or its components (e.g., slight deviations from the structural dimensions specified in this product passport, caused by the characteristics of products made using the rotational molding process).
- Damage caused by natural disasters, fires, household effects, and other force majeure actions.



- Damage caused by third-party actions, including during delivery or installation of the product, which were carried out in violation of the installation instructions for the plastic cellar.
- Damage and deformations of products resulting from changes in geometric dimensions that occurred after the completion of assembly works and caused by a change in the product design.
- Corrosion caused by scratches and paint chips on frames as well as various parts and connections.

The warranty becomes void if the product has been repaired or attempted to be repaired by persons (companies) without prior consultation with the manufacturer.

**Warranty period: 24 months.**

Expected lifespan: at least 50 years.

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**Product manufacturer**

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