RH-L

SIZES

avana paper bags
100 l (0,1 m³)
60 x 15 x 105 cm

WEIGHT

12-14 kg

Supply data

- Supplied on 100 x 100 cm pallet in a variable number from 30 to 36 bags
- Size of the loaded pallet: 100 x 100 x 210 cm
- Average weight of the loaded pallet: 450 kg

INSULATING BIOMASS

Dried and de-dusted vegetable fiber, composed of pure rice husk.

Components

The rice husk is harvested and packed without the need of further treatments, or any additional unnatural additives.

Product description

The rice husk represents the agricultural by-product that derive from the milling process of the raw rice. Rice husk is similar to wood in terms of chemical composition, being mainly composed of cellulose, lignin, minerals and silicates.
It is an excellent material for achieving the energy efficiency of buildings. Its low thermal conductivity value leads to a strong insulating capacity. It guarantees the perfect breathability of the walls in which it is used, in order to prevent superficial condensation and ensuring an excellent comfort in living spaces and a healthier lifestyle. It is extremely good in terms of acoustic insulation and besides, it is a biodegradable material that is renewed annually and does not generate waste. It is easy to manage on site and site management is similar to other natural building materials.
Thanks to its chemical composition and the high silica content, it has high resistance to rottening and mold formation. The low nutrient content also makes it harmful for insects and rodents.

WARNINGS!

Do not expose the bag to the sun for more than 30 days. Store it in intact and closed bags, in a dry and well-ventilated place, away from heat sources, sparks or open flames.
Follow the instructions in this data sheet. If in doubt, consult our technical service at +39 329 1869562.

Technical features

Chemical composition	organic matter 73,87%
	Al_2O_3 1,23%
	Fe_2O_3 1,28%
	CaO 1,24%
	MgO 0,21%
	SiO_2 21,12%
	MnO_2 0,074%
Thermal conductivity	λ 0,036 (W/mK)
Density	120-140 (kg/m³)
Degree of humidity	8-10%
Calorific power	15,2 (MJ/kg)
Porosity	93,4%
Combustion ashes	17%

Quality

The rice husks isolation guarantees excellent qualities of:

- Improvement of the indoor **living comfort** and wellbeing
- **Reducing** indoor **pollution** by subtracting CO2 from the air inside the building's structures
- **Healthiness** of the walls for a maximum well-being
- High **breathability** of the walls
- The high silica content of the husk makes it a **durable** material that **cannot be attacked** by biological agents such as mold and insects
- Its porosity generates a noise-absorbing effect contributing to the increase of the **acoustic comfort**
- It generates an **extremely reduced ecological footprint**
- The product is an **Italian brand** consisting only of raw materials produced in Italy, from a short supply chain
- The use of products deriving from the waste of rice production **reduces the environmental impact** generated during the production, use, and disposal and recycling of the compound to **almost zero**

Characteristics of the natural product

1. Allows the achievement of very high technical performances
The thermal conductivity of 0.036 W/mk allows the rice husk to be classified as a heat insulating material. Thanks to its low density it also has excellent characteristics in terms of acoustic insulation.

2. It is a healthy material, free of glues, paints or any chemical additives
It is an organic, natural and hypoallergenic material. Improves the indoor air quality as it does not emit any harmful substances such as formaldehyde. Combined with natural plasters, it benefit the transpiration of the walls, the regulation of humidity and the absence of dust.

3. Good regulator of humidity
The high silica content prevents from rottening. However, it suffers from stagnant water and it needs to be protected by plastering layer and must be lift off the ground.

4.Harmful for insects
It is not a nourishment for insects, as it does not contain rice or other types of nutrients. The high silica content makes it harmful to insects.

5. It is an investment in the environment
It is a yearly renewable building material: in Italy about 230,000 hectares of land are cultivated with rice every year, and the rice husk is a waste reused in extremely low percentages. The carbon footprint due to the production and the transportation is very low and it produces a minimal impact.

The RiceHouse products, while being easy to apply, are subject to the quality of installation. The installation of the materials that we produce must necessarily be subject to the instructions of our area managers.

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