

# TECHNICAL DATA SHEET **CANNAHABITAT**®

## hemp hurds y and hemp light- mortar

<b>Description:</b>	<b>Flat and extended particles of variable dimensions of 2-25 mm</b>
<b>Packaging:</b>	<b>Voluminous sacks of 20 kg</b> (palets of 24 sacks; 0,80m x 1,20m x 2,80m)
<b>Application range:</b>	<b>- like loose filling</b> (in walls with air chamber and ceilings) <b>- to make insulating mortars</b> (for base floor slabs, first floor slabs, roofs, cupolas, vaults, render and plaster)
<b>Chemical composition:</b>	Water: 9-10% Dry material: 90-91%, of which: Total organic material: 95-98%, of which: Gross cellulose: 45-55% Lignin: 15-25% Hemicellulose: 15-20% Minerals: <ul style="list-style-type: none"><li>- Calcium: 1,5-3%</li><li>- Magnesium: 0,006-0,02%</li><li>- Phosphorus: 0,2-0,5%</li><li>- Potassium: 0,2-0,5%</li><li>- Total nitrogen: 0,4-1%</li><li>- Carbon: 487 g/kg</li><li>- C/N: 46</li><li>- Ashes: 2-5%</li></ul> PH in suspension a 10%: 7,2
<b>Physical properties:</b>	Mass: <b>100-110 kg/ m3</b> (according to environmental humidity) Thermal conductivity: <b>0,048 W/ m·K</b> Specific warmth coefficient: <b>2,109 J/ g·K *</b> Thermal inertia: <b>232 kJ/ m³·K *</b> Inferior calorific power: <b>3715 cal/ g</b> Superior calorific power: <b>4055 cal/ g</b> Absorbive power: <b>210-250%</b> (french norm NFV 19002) Absorbive power of the mineral elements: <b>24meq/ 100g en bruto</b> Capacity of water retention: <b>415%</b> (test of Westinghouse) * tested by Cannabric
<b>Microbiological characteristics:</b>	Total flora: 5760000 ufc/g Yeasts: 136000 ufc/g Anaerobic germs: 8000 ufc/g Lactic bacteria: 5700 ufc/g

### Light mortars of hemp hurds and hydraulic lime, designed by CANNABRIC:

#### **SRUCTURAL MORTAR of hemp hurds, NHL5 lime and sand**

(renders and plasters, floor slabs, compacted walls, roofs, vaults, cupolas):

Mass, completely dry: **1000 kg/ m3 \***  
Compression strength 28 days: **12 kg/ cm2 \***  
Resistance to the flexion 28 days: **6 kg/ cm2 \***  
Thermal conductivity: **0,18 W/ m·K**

#### **LIGHT MORTAR of hemp hurds and NHL5 lime**

(filling in ceilings or walls with air chamber).  
It's posible to be lightened even more with NHL3,5 lime, NHL3,5 white lime or slaked lime.

Mass, completely dry: **500 kg/ m3 \***  
Thermal conductivity: **0,13 W/ m·K**

\* tested by Cannabric

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