

A guide on how to make a sealed model of o GREEK BEEHIVE. Inngstrothl kype

Orealed by Georgia Safouri


## The Melisso Project

As part of millllsh, an Erasmus+ funded project, this guide is intended to teach students how to make a scaled model of a Langstroth, the most common Greek type of, beehive.

The UANGSTROTH BEEHIVE (aka Standard beehive) was introduced in the mid- $20^{\text {th }}$ century in Greece and has been popular ever since, because in Greece beekeeping is nomadic, and this type of beehive is easy to transport.

MARTRIAS and EQUIPMEAT used for the model making of one Greek beehive, Langstroth type

|  | FOR A GREEK BEEHIVE MODEL |
| :---: | :---: |
|  | number of items \& dimensions |
| FOR THE BOX |  |
| 2 pinewood pieces (long sides) | $2(25.5 \times 12 \times 1.5 \mathrm{~cm})$ |
| 2 pinewood pieces (short sides) | $2(17.5 \times 12 \times 1.5 \mathrm{~cm})$ |
| 4 pinewood pieces (feet) | 4 ( $5 \times 5 \times 1.5 \mathrm{~cm}$ ) |
| 1 PLYWOOD base (floor) | 1 ( $28.5 \times 20.5 \times 4 \mathrm{~mm}$ ) |
| 2 pinewood pieces (ledge for the frames to sit on) | $2(17 \times 1 \times 0.5 \mathrm{~cm})$ |
| FOR THE TOP COVER |  |
| 2 pinewood pieces (long sides) | $2(25.5 \times 2.6 \times 1.5 \mathrm{~cm})$ |
| 2 pinewood pieces (short sides) | $2(17.5 \times 2.6 \times 1.5 \mathrm{~cm})$ |
| 1 PLYWOOD (roof) | $1(25.5 \times 20.5 \times 4 \mathrm{~mm})$ |
| FOR THE 3 FRAMES |  |
| 6 pinewood pieces | $6(22.4 \times 2 \times 1 \mathrm{~cm})$ |
| 6 pinewood pieces | 6 ( $20.5 \times 2 \times 1 \mathrm{~cm}$ ) |
| 12 pinewood pieces | 12 (9x2 1 cm) |
| WOOD SCREWS |  |
| 12 wood screws big | 12 (3.5 x 30) |
| 12 wood screws small - for the 2 pieces of plywood | 12 (3.5 x 16) |
| 1 STAPLE GUN (heavy-duty) | 1 STAPLE GUN (heavy-duty) |
| 1 HAND-HELD POWER DRILL | 1 HAND-HELD POWER DRILL |
| 1 PENCIL | 1 PENCIL |
| 1 small HAND SAW to cut the RECTANGULAR entrance of the hive | 1 small HAND SAW |
| Acrylic colours/ exterior house paint/ exterior polyurethane/ marine varnish - optional for the décor |  |



Here are all pieces for the Greek Beehive model assembly


FOR THE BOX:
1)

2) $\square$
Staple the $\mathbf{2}$ ledges to the $\mathbf{2}$ short sides - using the staple gun


Staple one of the two ledges opposite the entrance


4) Attach the 4 feet to the long plywood, until the marked line - using the drill
(one small screw for each foot / 4 small screws total)

5)
Join the 4 sides to each other - using the drill
(one big screw on each of the 4 corners of the two long sides / 8 big screws total)

(one small screw on each inside corner / 4 small screws total)


The entrance slot should be facing the floor!

7) $\square$
(one big screw on each corner / 4 big screws total)

8)

(one small screw on each of the 4 corners / 4 small screws total)

9)
Join the 4 pieces together - using the staple gun

10) Have the frames sit on the ledge inside the box, on the two short sides of the box


