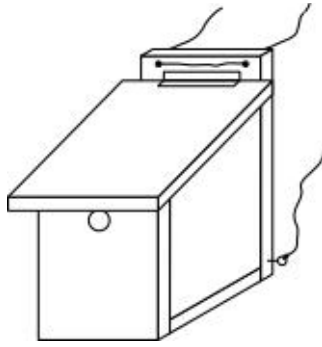


# Birdhouse

## Version 0.1



Blueprints for various species

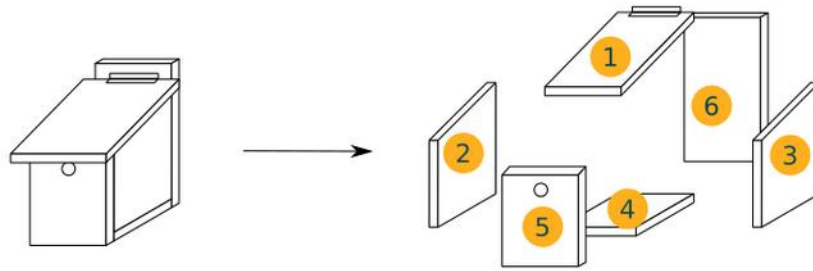


2022/04/01 Ben Larcher  
[www.graineahumus.org](http://www.graineahumus.org)

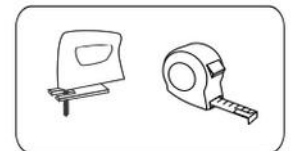
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# Cutting



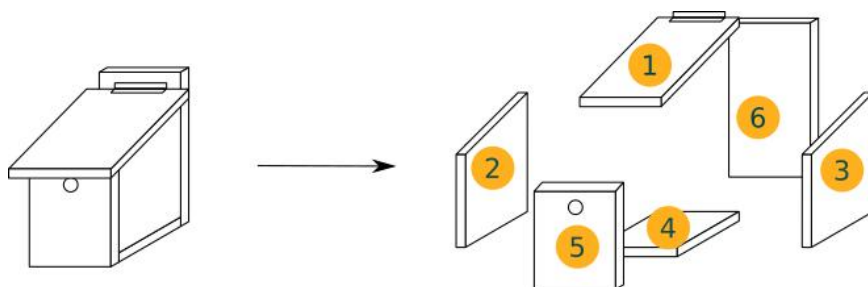
Exploded view of the birdhouse.



To save wood, these blueprints can be made with a single board.

# Sizes

Piece size varies by species. Here is a summary table of sizes.

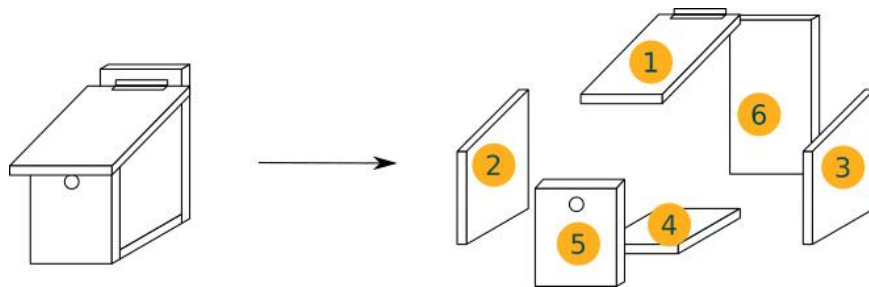


## Type 1

For eurasian blue tit, marsh tit, european crested tit or coal tit

	Dimensions (in cm)
1-Removable roof	17 + e (depth) 18 + 2 e (width)
2 et 3-Sides	14 (width) 25 - e (front side) 28 - e (back side)
4-Bottom	14 (depth) 14 + 2 e (width)
5-Front with hole	25 (height) 14 + 2 e (width) 28 mm diameter hole
6-Back	35 (height) 14 + 2 e (width)

e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.



## Type 2

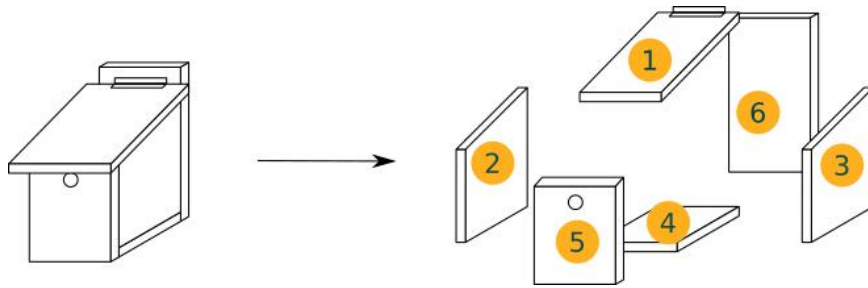
For great tit, tree sparrow, pied flycatcher

	Dimensions (in cm)
1-Removable roof	17 + e (depth) 18 + 2 e (width)
2 et 3-Sides	14 (width) 25 - e (front side) 28 - e (back side)
4-Bottom	14 (depth) 14 + 2 e (width)
5-Front with hole	25 (height) 14 + 2 e (width) 32 mm diameter hole
6-Back	35 (height) 14 + 2 e (width)

**e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.**

Only the front hole changes from the previous dimensions.

By opting for this size, it is likely that species from the previous blueprint will live there, given the small differences.

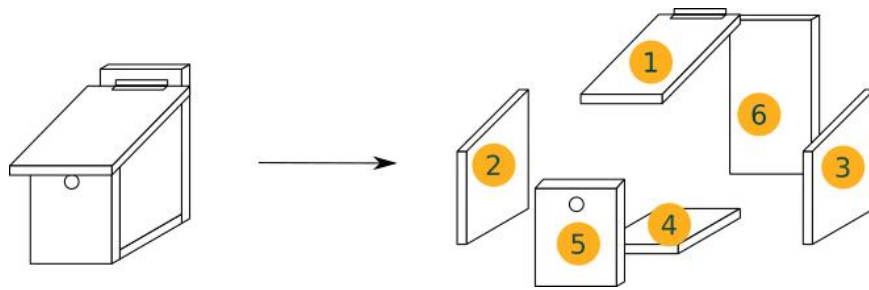


## Type 3

For Eurasian nuthatch, common redstart

	Dimensions (in cm)
1-Removable roof	17 + e (depth) 18 + 2 e (width)
2 et 3-Sides	14 (width) 25 - e (front side) 28 - e (back side)
4-Bottom	14 (depth) 14 + 2 e (width)
5-Front with hole	25 (height) 14 + 2 e (width) Oval hole 32mm wide by 48mm high
6-Back	35 (height) 14 + 2 e (width)

**e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.**

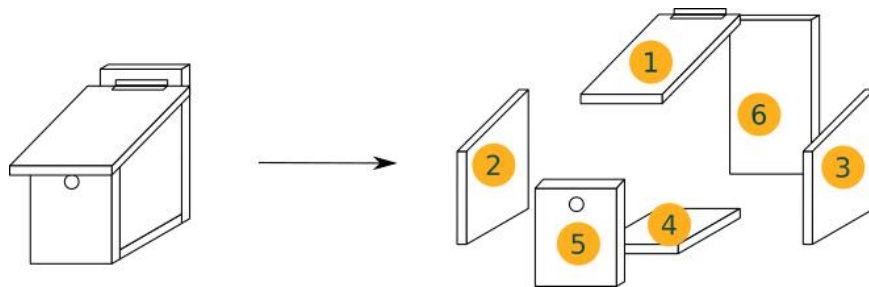


## Type 4

For common starling

	Dimensions (in cm)
1-Removable roof	19,5 + e (depth) 20 + 2 e (width)
2 et 3-Sides	16 (width) 30 - e (front side) 34 - e (back side)
4-Bottom	16 (depth) 16 + 2 e (width)
5-Front with hole	30 (height) 16 + 2 e (width) Oval hole 45mm wide by 50mm high
6-Back	41 (height) 14 + 2 e (width)

e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.



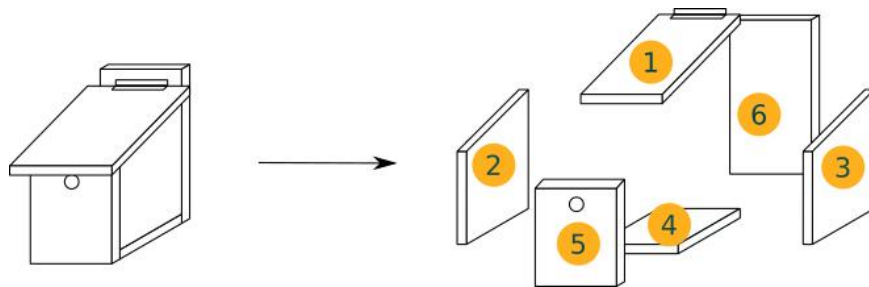
## Type 5

For Eurasian hoopoe

	Dimensions (in cm)
1-Removable roof	23,5 + e (depth) 24 + 2 e (width)
2 et 3-Sides	20 (width) 33 - e (front side) 36 - e (back side)
4-Bottom	20 (depth) 20 + 2 e (width)
5-Front with hole	33 (height) 20 + 2 e (width) Oval hole 65mm wide by 70mm high
6-Back	43 (height) 20 + 2 e (width)

e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.



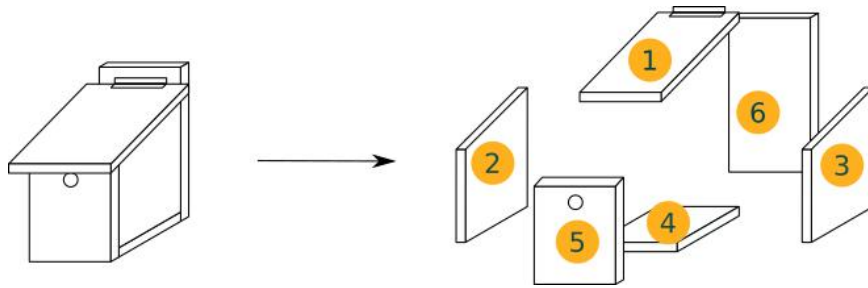


## Type 6

For Eurasian hoopoe, Eurasian scops owl, Stock Dove, common starling

	Dimensions (in cm)
1-Removable roof	19,5 + e (depth) 22 + 2 e (width)
2 et 3-Sides	16 (width) 33 - e (front side) 35 - e (back side)
4-Bottom	16 (depth) 16 + 2 e (width)
5-Front with hole	33 (height) 16 + 2 e (width) 90 mm diameter hole
6-Back	42 (height) 16 + 2 e (width)

e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.



## Type 7

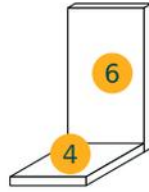
For tawny Owl

	Dimensions (in cm)
1-Removable roof	35 + e (depth) 26 + 2 e (width)
2 et 3-Sides	22 (width) 55 - e (front side) 57 - e (back side)
4-Bottom	22 (depth) 22 + 2 e (width)
5-Front with hole	55 (height) 22 + 2 e (width) 120 mm diameter hole
6-Back	64 (height) 22 + 2 e (width)

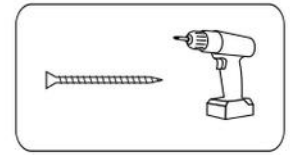
e is the thickness. If the board is 1.8 cm thick, then  $2 e = 1.8 \times 2 = 3.6$  cm.

# Assembly

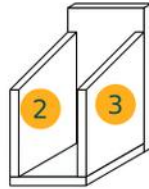
1



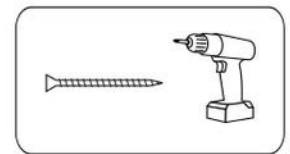
Screws 40 mm



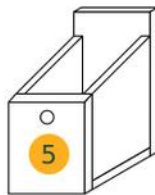
2



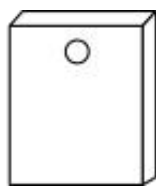
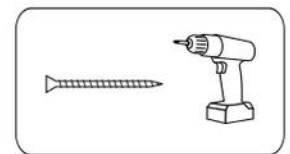
Screws 40 mm



3



Screws 40 mm

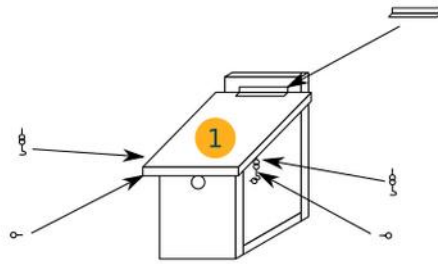
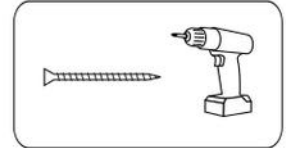


If you look from the side, there is a slight bevel on the front part (5). This is to be aligned with planks 2 and 3 on the side. Thus, once the roof is installed, everything is airtight.

The hole is made with a hole saw.

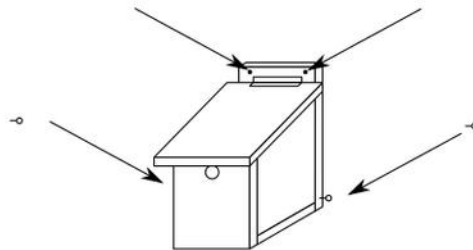
The hole is placed high to avoid falling chicks.

Screws 15 mm



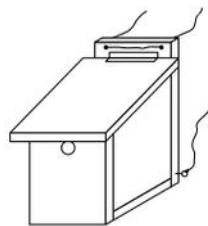
We center the roof with 2 cm overhang on each side.

A hinge is installed on the roof and a clasp system for easy access for maintenance.



We pierce the bottom board and place pitons. This allows the wire to pass through.

6



# Material summary

## Wood

The wood is a class 3 untreated wood made to be outdoors.

## Hinge

1 hinge for the roof.

## Clasp

2 clasp systems on the sides of the roof. This allows easy opening for maintenance.

## Fasteners

Wood screws : 40 and 15 mm.

40 mm: about 20.

15 mm: about 6.

To avoid splitting, there are anti-splitting screws (or it is better to drill before screwing)

## Ion wire

1 to 2 m to hang the birdhouse.

## Material

- Tape measure
- Jigsaw
- Drill / screwdriver (with a hole saw)

## Details

Find details on <https://habitat.seedtohumus.org/> concerning the heights, orientations, advice to avoid damaging the tree, maintenance...

## Questions ?

If you have any questions, go to <https://habitat.seedtohumus.org/> and ask them in the article dedicated to the subject.

## Resources

Blueprints numbers 1, 2, 3, 4 and 5 are inspired by the Swiss Association for the Protection of Birds.

Blueprints numbers 6 and 7 are inspired by the LPO Drome Ardèche.