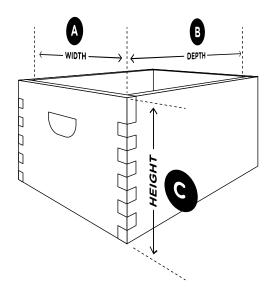


MODIFYING A LANGSTROTH BOX FOR FLOW™ FRAMES

The following steps are a guide for modifying a standard 8 or 10 frame Langstroth box to allow you to fit Flow Frames. It should take you 1 to 2 hours to complete.



Measurements are for standard Langstroth boxes

#### INTERNAL MEASUREMENTS

	A	₿	<b>G</b>
8 frame box	310mm	465mm	245mm
	12 <sup>3</sup> / <sub>16</sub> "	18 <sup>5</sup> /16"	9 <sup>5</sup> / <sub>8</sub> "
10 frame box	362mm	465mm	245mm
	14 ½"	18 <sup>5</sup> /16"	9 <sup>5</sup> / <sub>8</sub> "

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	FLOW FULL: BOX MODIFICATIONS  FLOW LIGHT: POSITIONING SCREWS - FRONT  FLOW LIGHT: POSITIONING SCREWS - BACK  FLOW FULL: POSITIONING SCREWS - FRONT  FLOW FULL: POSITIONING SCREWS - BACK  CLOSE TOP GAP  CLOSE BOTTOM GAP  OBSERVATION WINDOW  TELESCOPING LID MODIFICATIONS  DOOR AND WINDOW COVERS

**<sup>(</sup>b)** Go to www.honeyflow.com to view a video of the instructions for modifying a Langstroth box for Flow Light.

## 1 FLOW

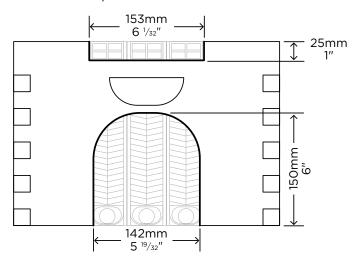
### FLOW LIGHT: BOX MODIFICATIONS

## 2

### FLOW FULL: BOX MODIFICATIONS

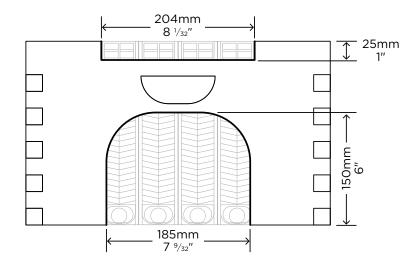
#### **8 FRAME LANGSTROTH SUPER**

Cutouts required to fit 3 Flow™ frames



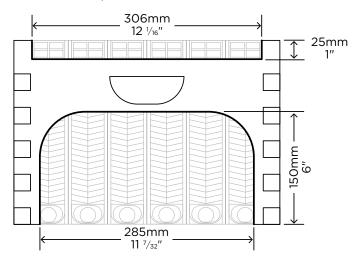
#### 10 FRAME LANGSTROTH SUPER

Cutouts required to fit **4** Flow<sup>™</sup> frames



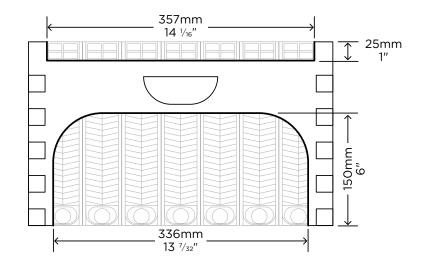
#### **8 FRAME LANGSTROTH SUPER**

Cutouts required to fit 6 Flow™ frames



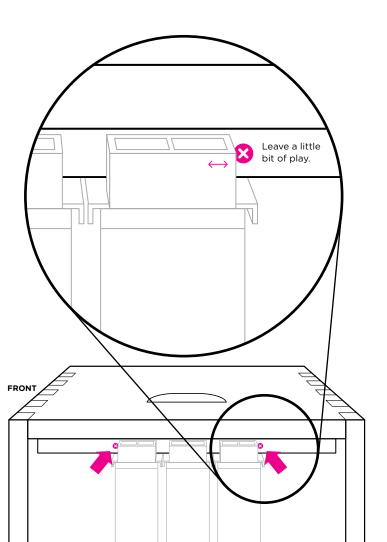
#### 10 FRAME LANGSTROTH SUPER

Cutouts required to fit **7** Flow<sup>™</sup> frames





## FLOW LIGHT: POSITIONING SCREWS - FRONT

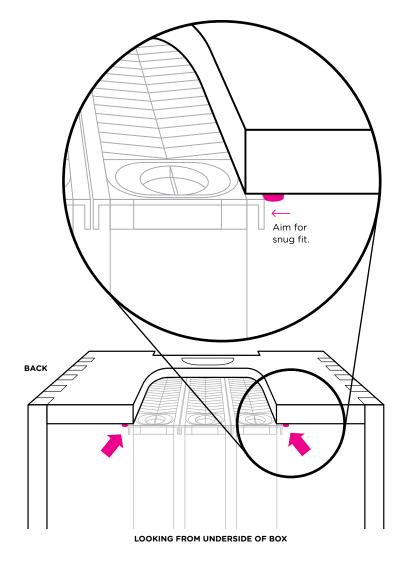


Insert screws on each side of the frames to hold them in place. Leave a little bit of play so the frames are easier to lever out with the hive tool.

LOOKING FROM TOP OF BOX



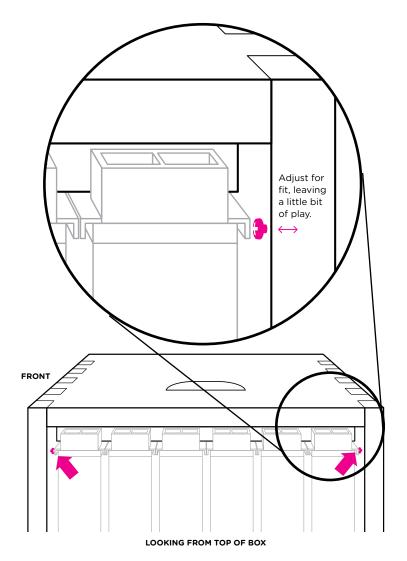
### FLOW LIGHT: POSITIONING SCREWS - BACK



Turn the box over and insert screws on the inside back wall of the hive body on each side of the frames to take up the play, and keep the frames tight together.



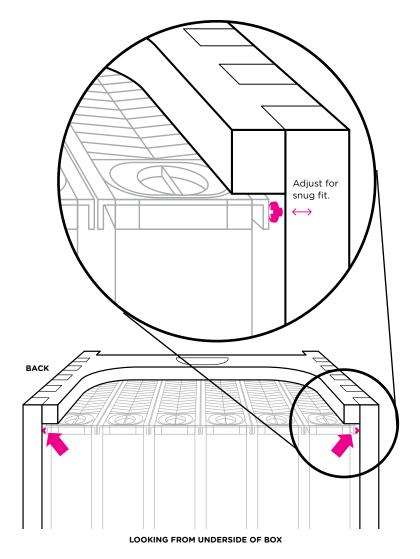
## FLOW FULL: POSITIONING SCREWS - FRONT



Insert screws on the side wall at the front on each side of the box. Leave a little bit of play so the frames are easier to lever out with the hive tool.

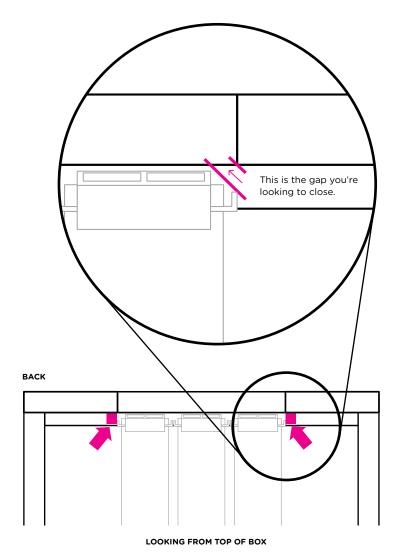


### FLOW FULL: POSITIONING SCREWS - BACK



Turn the box over and insert screws on the side wall at the back on each side of the box to take up the play and keep the frames tight together.

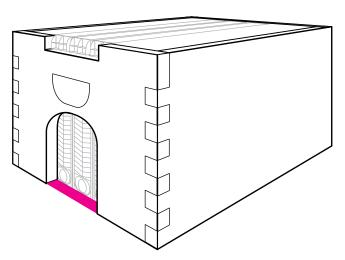
#### **CLOSE TOP GAP**



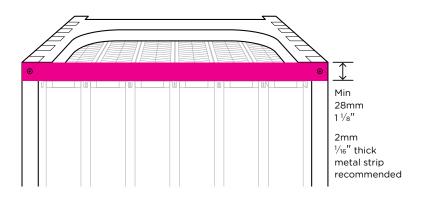
Close up the gap between the frames and the tool access opening by glueing on two small blocks of wood.



### **CLOSE BOTTOM GAP**

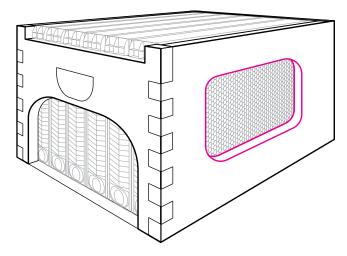


If you are modifying your hive body for Flow Light (3-4 frames), cut out a thin piece of plastic or wood to fit into the bottom of the opening, blocking any gap between the frames and box to stop bees getting out.

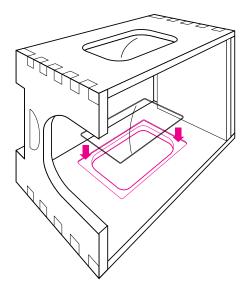


If you are modifying your hive body for Flow Full (6-7 frames), screw a metal strip to the bottom of the hive body. This will cover the gap and also provide additional strength to the hive body. The metal strip can be notched into the box. Make sure the gap between the bottom of the frames and the metal strip is less than  $3 \text{mm} / \frac{1}{8}$  so bees can't escape when the door is opened.

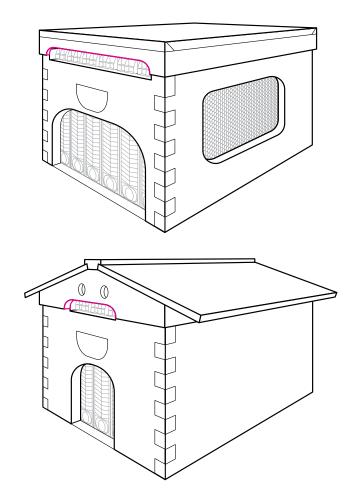
#### **OBSERVATION WINDOW**



An observation window on the side is not essential. If you do make one, it's important that the clear acrylic/glass sits flush with the inside wall of the box as there's not much room once the frames are in there. We recommend cutting your window shape and then rebating a larger area to allow for flush mounting the clear acrylic/glass. Screws with washers or glue could be used around the edge to hold glass in place.

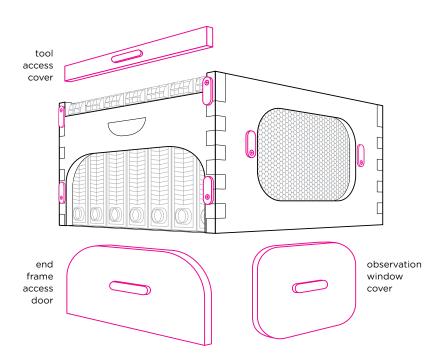


## 10 TELESCOPING LID MODIFICATIONS



Some lids such as the telescoping lids will need to be modified to allow access for the Flow tool. You can achieve this by cutting away some of or all of the overlapping part of the lid on the rear side. Cut this window slightly wider than the opening in the hive body. This will allow for any misalignment when you put the lid back on the hive body. Exactly where the cutout is situated will depend on the specific dimensions of your lid.

#### **DOOR AND WINDOW COVERS**



Create the covers for the tool access, end frame access and observation window. You should be able to use the piece you cut out for the end frame access door (you may need to trim the bottom to allow for whatever gap covering you have used in step 8).

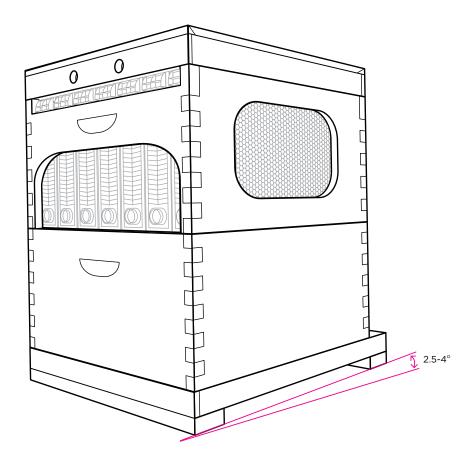
You will probably need to make new pieces for the tool access cover and observation window cover. Plane these so they sit flush with the box (optional).

Make handles for each of the covers. These can simply be nails or screws or make and attach wooden ones.

To ensure the covers stay in place add some latches. Latches can be as simple as bent nails, eyehooks or small wooden pieces.

# 12

#### **SET UP YOUR HIVE**



The slope of the hive for optimal draining is 2.5–4 degrees sloping backwards. Either chock the hive when it's time to drain, or ideally, leave the hive on a permanent slope. However, it's important to make sure that water can't get into the front. A sloping landing board can minimize this.

