

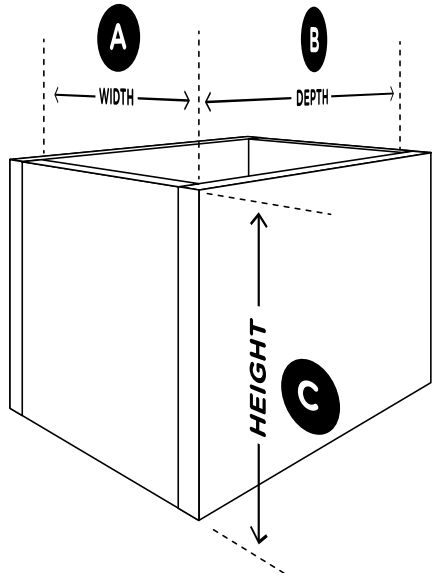
HALF-SIZE FLOW SUPER

**MODIFYING AN APIS CERANA PILE BOX HIVE
FOR HALF-SIZE FLOW FRAMES**

(Eastern or Asiatic Honey Bee; Japanese Honey Bee; Indian Honey Bee)

1 FRONT & REAR PANEL MODIFICATIONS

The following steps are a guide for assembling a Japanese pile box to allow you to fit our half-size Flow® Frames.

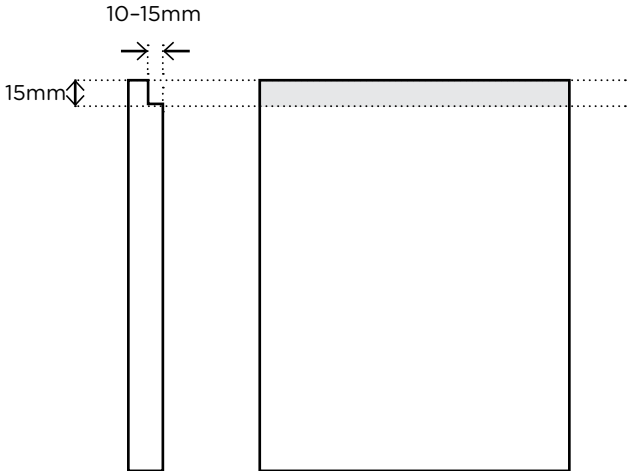


INTERNAL MEASUREMENTS		
A	B	C
¹ 210mm	250mm	² 245mm

¹ This provides for a bee space of 7.5mm on the outside edges of the box. Adjust width as necessary to modify this bee space.

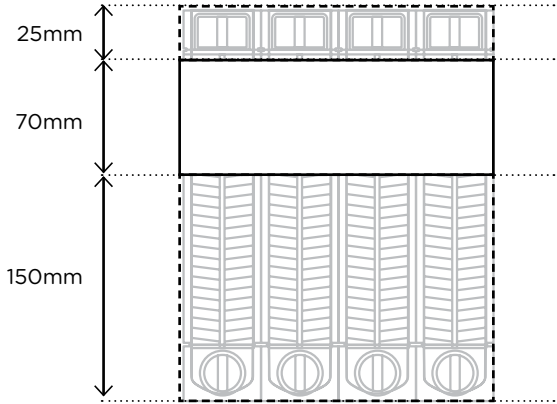
² This does not provide for a bee space above the frames. Bee space can be built in to the inner cover or lid if desired.

Cut rebate in **FRONT PANEL** to fit Flow Frames



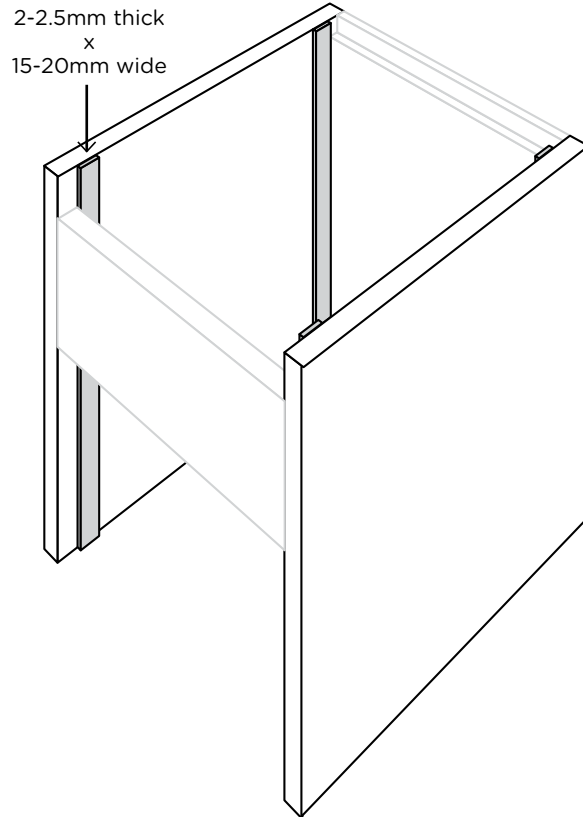
Cuts in **REAR PANEL**

Keep cutouts to use as window covers

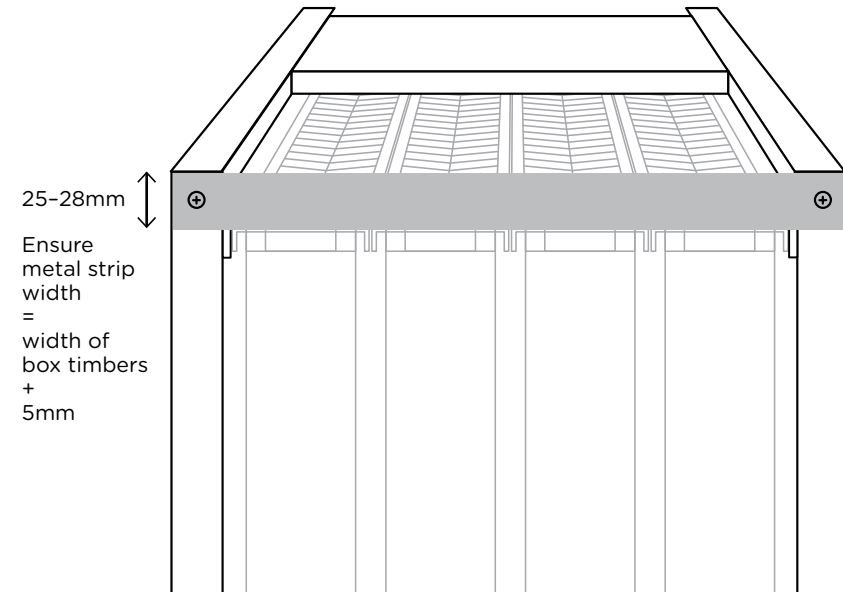


2**ADD POSITIONING STRIPS TO SIDES**

Positioning strips centre the frames within the box and are fixed to the **SIDE PANELS**

**3****CLOSE BOTTOM GAP**

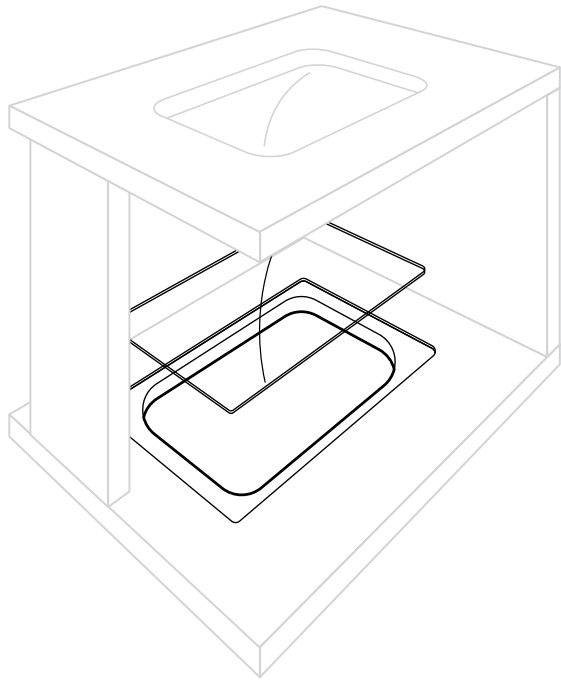
Screw a metal strip to the bottom of the hive body.
(2mm thick metal strip recommended)



This will cover the gap between the frames and the box to stop bees getting out 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 3mm so bees can't escape when the door is opened.

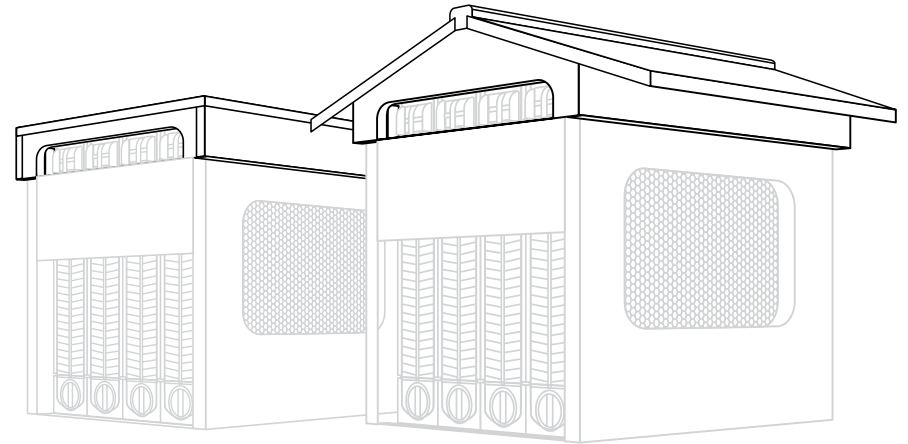
4 OBSERVATION WINDOWS (OPTIONAL)



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.

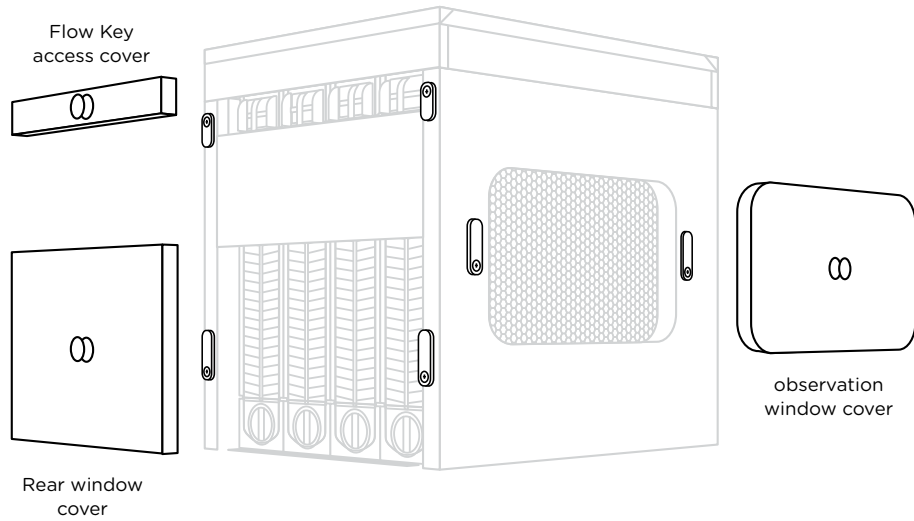
5 TELESCOPING LID MODIFICATIONS



Some lids such as the telescoping lids will need to be modified to allow access for the Flow® key. 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.

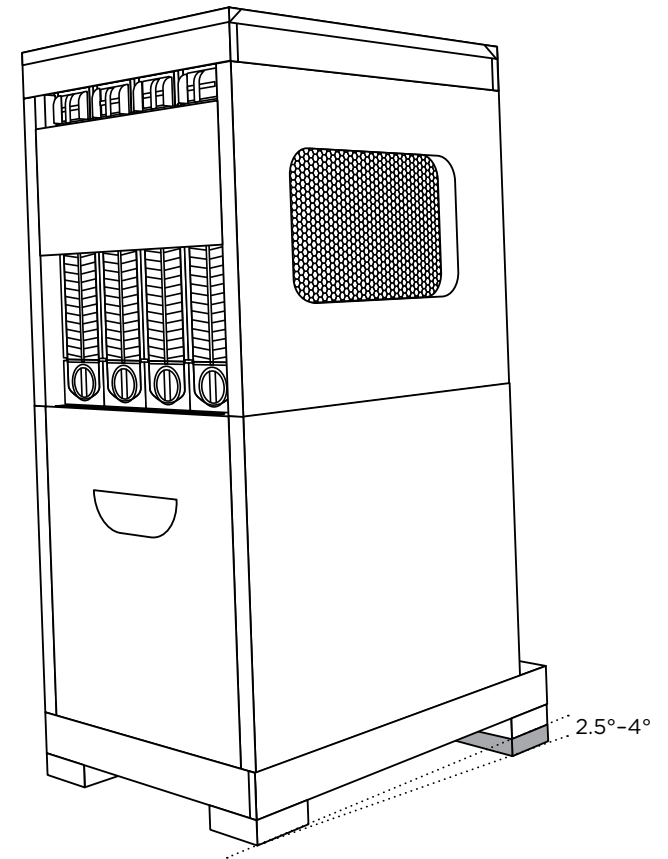
Exactly where the cutout is situated will depend on the specific dimensions of your lid.

6**DOOR & 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 pieces you cut out of the rear panel.

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.

7**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 harvest, 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.



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