TECHNICAL PLAN: PIGEON TRANSPORT BOX

Customizable Design for Professional Racing Pigeon Enthusiasts

Project by COLEEA.COM

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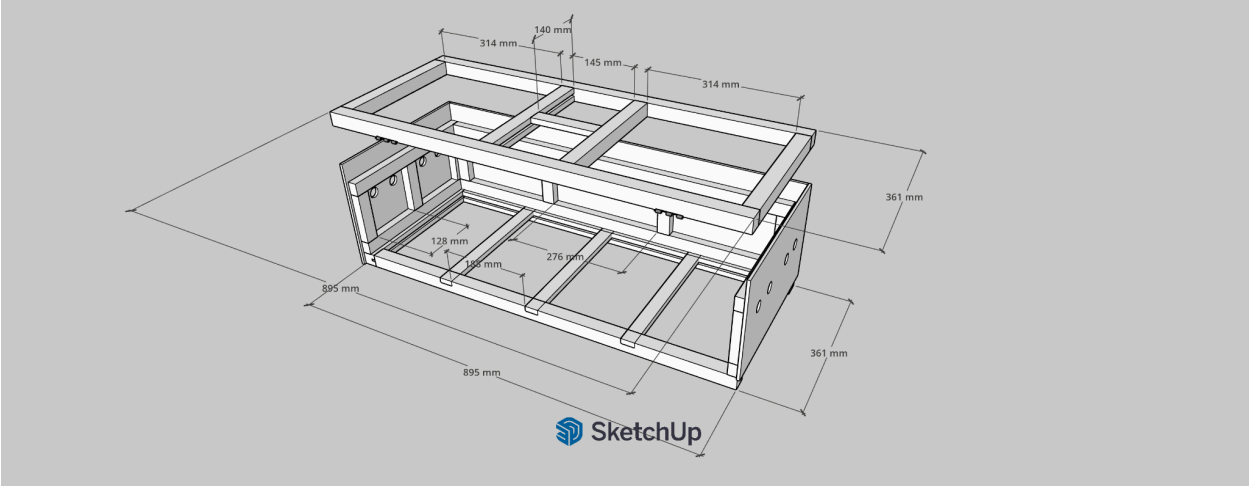
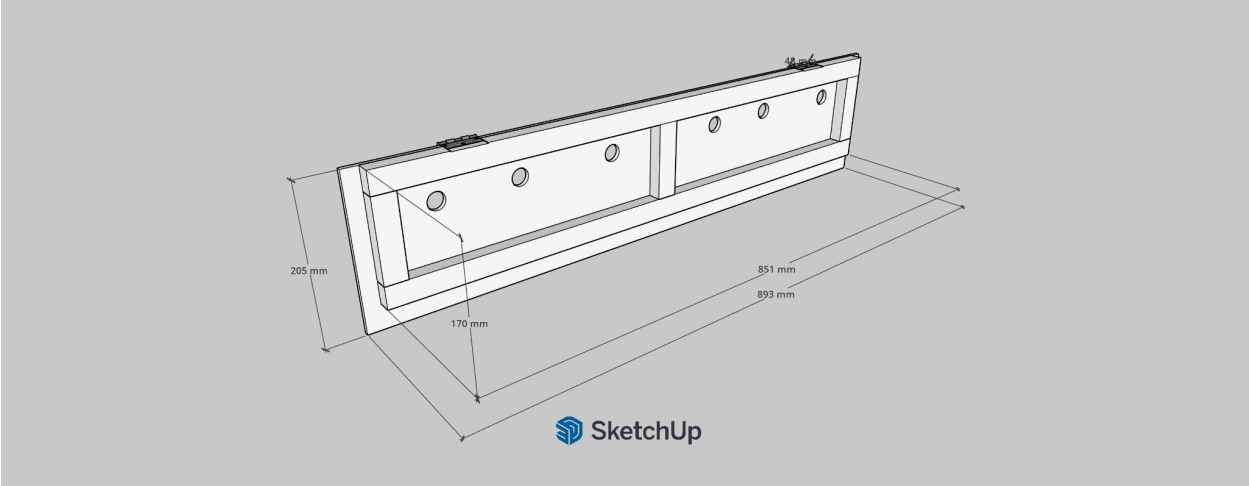
[01] Main Body Frame



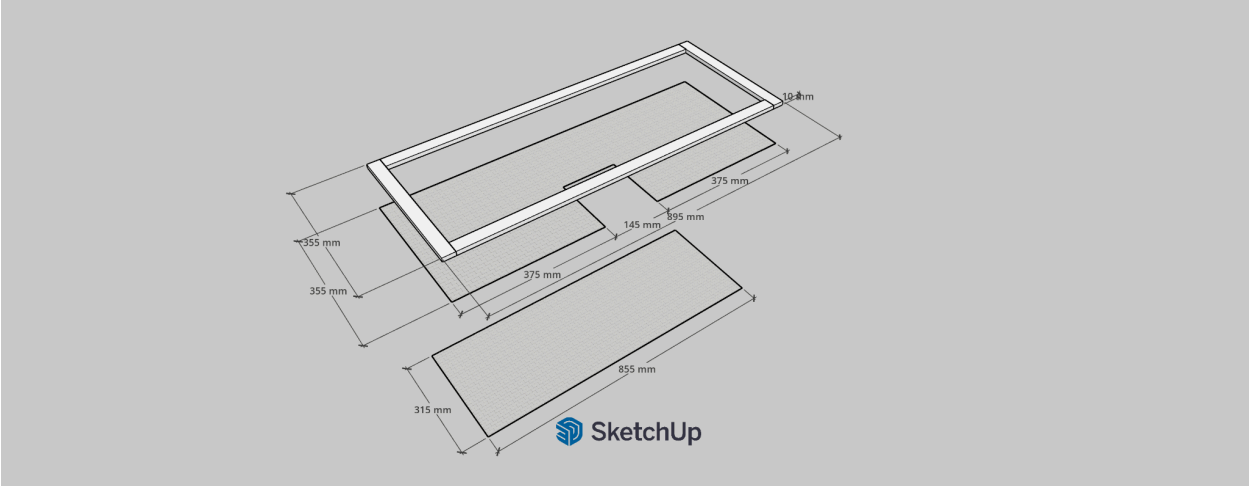
Technical Note: This image shows the core structure, including both side panels, the back panel, and the bottom/top frames. Key lengths and widths are marked for the basic skeletal assembly. Ensure all frame connections are square to maintain structural integrity.

[02] Front Door Assembly



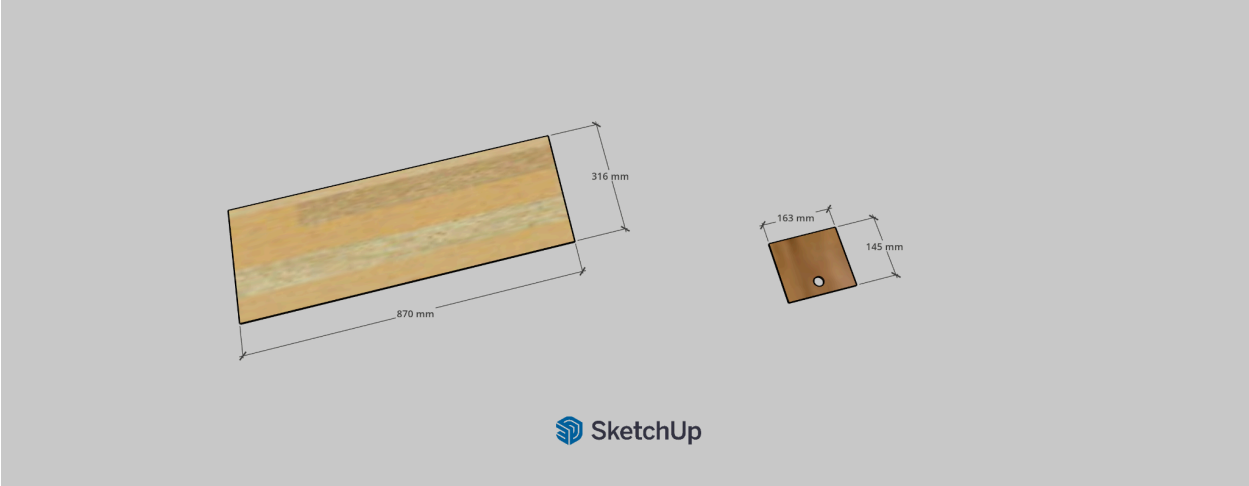
Technical Note: The front door is designed with a top-hinge system that opens from bottom to top. **Note:** The internal frame height is intentionally 1cm shorter to prevent interference when opening. However, the 6mm front plywood covers the entire front face for a seamless and clean exterior aesthetic.

[03] Mesh & Retainer Strips



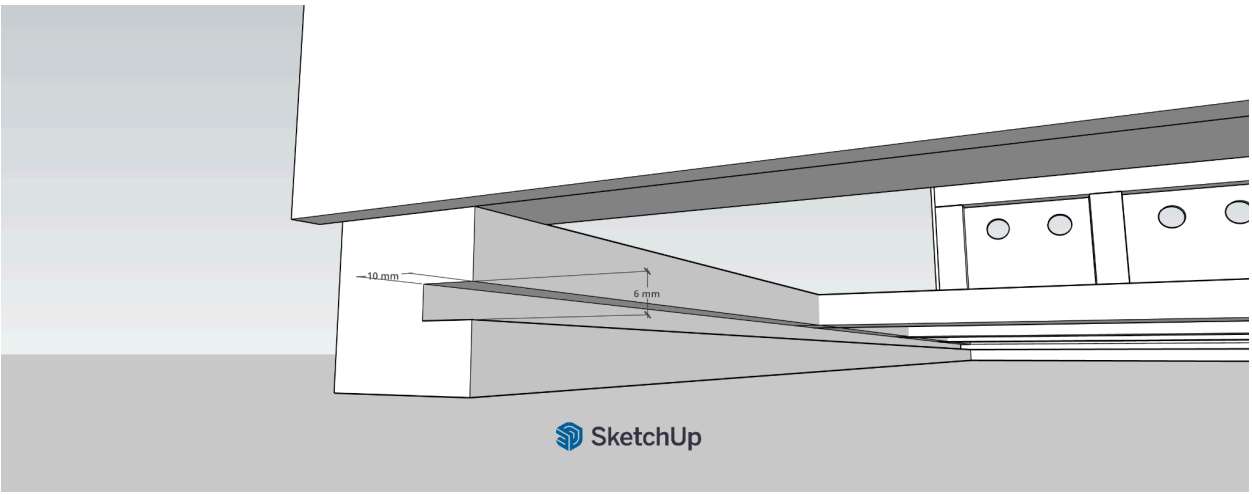
Technical Note: Detailed dimensions for the top wire mesh, the frame-style retainer strips (cleats) that secure the mesh from above, and the bottom floor mesh. Accurate cutting of the retainer strips ensures the mesh remains taut and secure.

[04] Bottom Tray & Top Entry Door



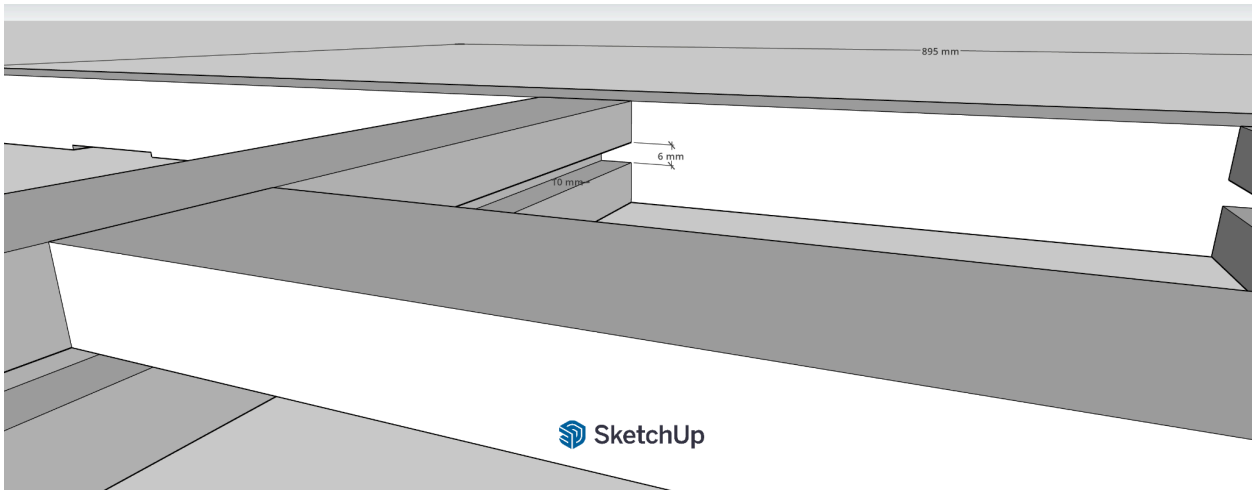
Technical Note: Specifications for the removable waste tray (bottom) and the small entry door (top) used for loading pigeons. These parts are designed to slide or fit precisely within the main frame dimensions.

[05] Bottom Rail Groove Details (Magnified)



Technical Note: Close-up view of the bottom frame grooves. These grooves serve as rails for the waste tray and must be carved using a **Table Saw** or **Trimmer**. Detailed measurements for the groove height and depth are provided for precise sliding action.

[06] Top Rail Groove Details (Magnified)



Technical Note: Close-up view of the top entry door's frame grooves. Like the bottom tray, these require precise grooving with a **Table Saw** or **Trimmer**. Refer to the marked height and depth to ensure the top door slides smoothly without jamming.

General Guidance & Customization

1. Size Adjustment: The dimensions in this plan are optimized for my specific vehicle. Please measure your own transport vehicle's cargo space and adjust the length, width, and height accordingly before cutting.

2. Alternative Construction (For Bottom Tray & Top Entry Door): The sliding rail system (grooves) for the **Bottom Tray** and **Top Entry Door** requires professional power tools like a Table Saw or Trimmer. If you do not have access to these, you can use the following alternatives:

- **For the Top Entry Door:** Instead of a sliding rail, use **standard hinges** to create a flip-up or flip-down door.
- **For the Bottom Tray:** Use the **Cleat Method** by attaching thin wooden strips (cleats) to the inner frame to create a support track, or simply design it to rest on a support frame without grooves.