



BUILD PLAN: TWO STORY, NO MESS LITTER BOX

Total Size: A 30" tall, 24" wide litter enclosure featuring a "jump-up" mezzanine to prevent litter tracking and a fully siliconed, waterproof interior.

Material List

- **Plywood:** (1) 4 x 8' Sheet of 3/4" Plywood (Birch or Similar).
- **Skin:** (1) 4 x 8' White Melamine Hardboard Skin
- **Adhesive 1:** (1) Bottle Wood Glue (for plywood joints).
- **Adhesive 2:** (1) Tube Liquid Nails (for attaching melamine).
- **Sealant:** (1) Tube 100% Kitchen & Bath Silicone (for the "cracks").
- **Hardware:** (1) 24" Piano Hinge and 1" Panel Nails



Plywood Cut List

(30"H x 24"W x 20"D)

- **Front & Back (2):** 24" x 30"
- **Sides (2):** 18.5" x 30" (Fits between front/back)
- **Bottom (1):** 22.5" x 18.5" (Fits inside walls)
- **Lid (1):** 24.5" x 20.5" (Slight overhang to avoid pinching fingers)
- **Shelf (1):** 12" x 18.5" (The mezzanine)
- **Divider (1):** 14" x 18.5" (Shelf support)



Step-by-Step Construction

1. The Box (Wood Glue & Panel Nails)

1. **Lower Box:** Apply wood glue to the edges of the **Bottom** board. Secure the **Sides** and the **Back** to the bottom using panel nails every 4 inches.
2. **The Entryway:** Cut a 9" or 10" hole in the **Left Side** panel. The right side is a dead end passageway storage area!
3. **The Mezzanine:** Install the **Divider** 10" from the left side. Place the **Shelf** on top and nail through the side panel and the divider.
4. **The Front:** Glue and nail the **Front** panel to close the "vault."



2. The Interior Skinning (Liquid Nails)

- **Measure & Cut:** Cut the white hardboard to fit the floor, all 4 walls, and the top/bottom of the shelf.
- **Apply:** Squiggle **Liquid Nails** onto the back of the white panels. Press them firmly into the assembled box.
- **Wait:** Let the adhesive cure for 24 hours to ensure the panels don't "pillow" or pull away.

3. The Bio-Seal (100% Silicone)

- **Clean:** Vacuum all sawdust out of the corners.
- **The Bead:** Run a continuous bead of silicone along **every 90-degree corner** where the white panels meet.
- **The "Anti-Seep" Logic:** Pay special attention to the seam where the shelf meets the back wall. This is where "misses" usually happen. Force the silicone into the crack and smooth it with a wet finger.



4. Final Hardware

- **The Lid:** Skin the underside of the lid with white material. Attach to the back wall using the **Piano Hinge**.