GRAINBENCH ORIGINAL | CONFIDENT BEGINNER

# The Low Line Media Cabinet

A long, low open cabinet with three bays, each with a middle shelf for devices, games and baskets. Built from 1x12 boards with a plywood back.



| SIZE | SKILL | TIME | JOINERY |
| --- | --- | --- | --- |
| 48 in wide, 11-1/2 in deep, 22 in tall | Confident beginner | About a day, plus finish drying | Pocket screws, glue and brads |

IN THIS PLAN

Materials and tools >

Cut list >

Build steps >

01 / MATERIALS AND TOOLS

# What to buy.

## LUMBER AND SHEET GOODS

| BUY | USED FOR |
|---|---|
| **2 x 1x12 board, 8 ft** | H bottom, S sides, T top, V dividers |
| **1 x 1x12 board, 4 ft** | M shelves |
| **1 x 1/4 plywood, 2 ft x 4 ft panel** | R back |

Pick flat 1x12s without cupping, especially for the long top and bottom. Cut the back R after assembly so it matches your case.

## HARDWARE AND SUPPLIES

| ITEM | AMOUNT |
|---|---|
| **1-1/4 in coarse-thread pocket-hole screws** | 42, plus a few spares |
| **3/4 in brads** | About 45, for the back |
| **Wood glue** | Small bottle of interior wood glue |
| **Sandpaper** | 120 and 180 grit |
| **Finish** | About 1 L (1 quart) of paint, stain or clear water-based polyurethane |
| **Anti-tip strap** | 1, with screws suited to your wall |

## TOOLS

- Saw for straight crosscuts: mitre saw, or circular saw with a speed square
- Pocket-hole jig set for 3/4 in stock, with its stepped bit and a #2 square driver bit
- Drill/driver
- Tape measure, pencil and a combination or speed square
- 2 clamps that open to at least 48 in
- Hammer and nail set, or a brad nailer
- Sander or sanding block
- Safety glasses and hearing protection

02 / CUT LIST

# Cut the parts.

Cut the long top T and bottom H first, then the sides, dividers and shelves. Label each part and mark front edges.

| ID | PART | QTY | LENGTH | WIDTH | THICK | FROM |
|---|---|---|---|---|---|---|
| S | Sides | 2 | 21-1/4 in | 11-1/4 in | 3/4 in | 1x12 |
| T | Top | 1 | 48 in | 11-1/4 in | 3/4 in | 1x12 |
| H | Bottom | 1 | 46-1/2 in | 11-1/4 in | 3/4 in | 1x12 |
| V | Dividers | 2 | 20-1/2 in | 11-1/4 in | 3/4 in | 1x12 |
| M | Shelves | 3 | 15 in | 11-1/4 in | 3/4 in | 1x12 |
| R | Back | 1 | 48 in | 21-1/4 in | 1/4 in | 1/4 plywood |

## CUTTING DIAGRAMS

**1x12 x 8 ft**

95-5/8 in used, including 1 in to square the end and 1/8 in per cut




**1x12 x 8 ft**

84-7/8 in used, including 1 in to square the end and 1/8 in per cut



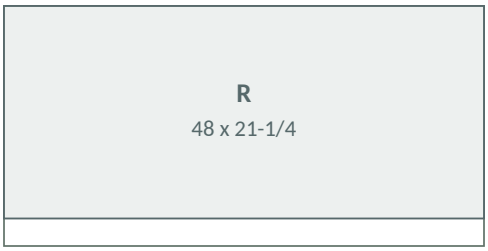

**1x12 x 4 ft**

46-1/4 in used, including 1 in to square the end and 1/8 in per cut




**1/4 plywood, 2 ft x 4 ft**

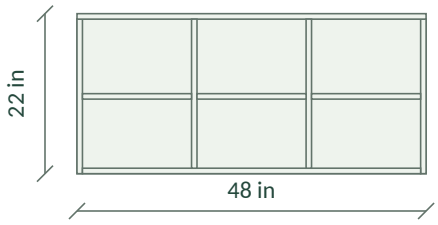
Long edge runs left to right. Allow 1/8 in between parts for the saw.



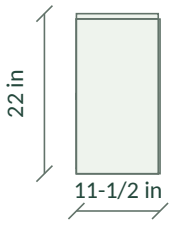
## 02 / CUT LIST, CONTINUED

### FINISHED SIZE

FRONT




SIDE




The dividers stand 15-3/4 and 31-1/2 in from the left end, making three 15 in bays. Each bay has a shelf with its underside 10-1/4 in above the floor. The top sits on the sides, flush all round.

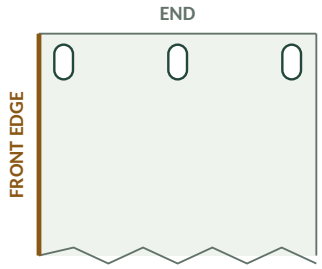
03 / BUILD

# Put it together.

## STEP 1 Drill the pocket holes

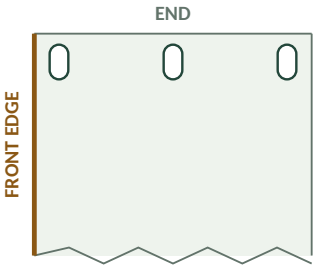
Drill 3 pocket holes at each end of **H** and every **M** on the underside, at both ends of each **V** on its right face, and at the top end of each **S** on its inside face.

**H** **Bottom**
Underside



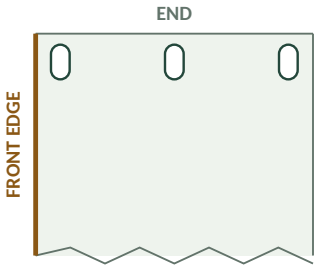

Same at the other end
**3 at each end | 6 total**
1, 5-5/8, 10-1/4 in from front edge

**S** **Sides**
Inside face, top end



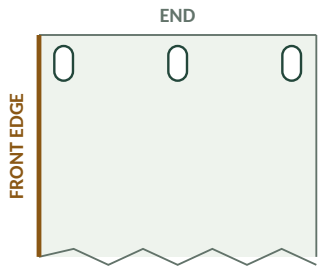

**3 per side | 6 total**
1, 5-5/8, 10-1/4 in from front edge

**V** **Dividers**
Right face, both ends




Same at the other end
**3 at each end | 12 total**
1, 5-5/8, 10-1/4 in from front edge

**M** **Shelves**
Underside




Same at the other end
**3 at each end | 18 total**
1, 5-5/8, 10-1/4 in from front edge

Ovals = pocket-hole entries, enlarged. Not a drilling template.

### STEP 2 Fit the bottom between the sides

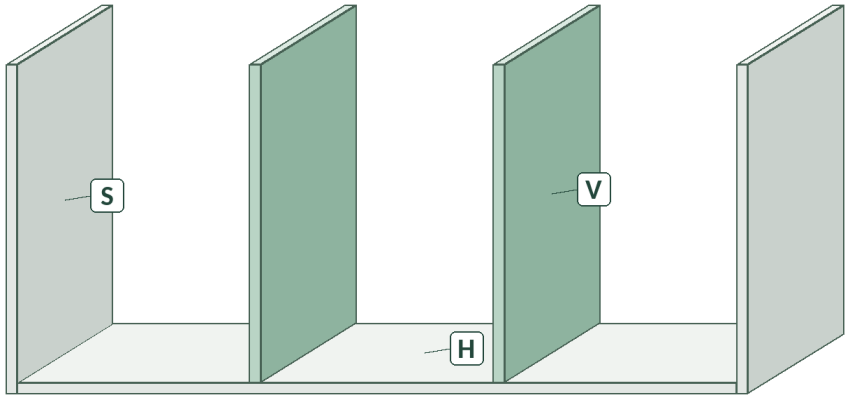
Glue the ends of **H** and clamp it between the two **S**, flush with their bottoms and fronts. Drive 3 screws at each end.




GREEN: added in this step | GREY: already in place

### STEP 3 Add the dividers

Mark the top of **H** at 15-3/4 and 31-1/2 in from the left end of the case. Stand each **V** with its left face on a mark, right face to the right, glue and drive the 3 bottom screws into **H**.

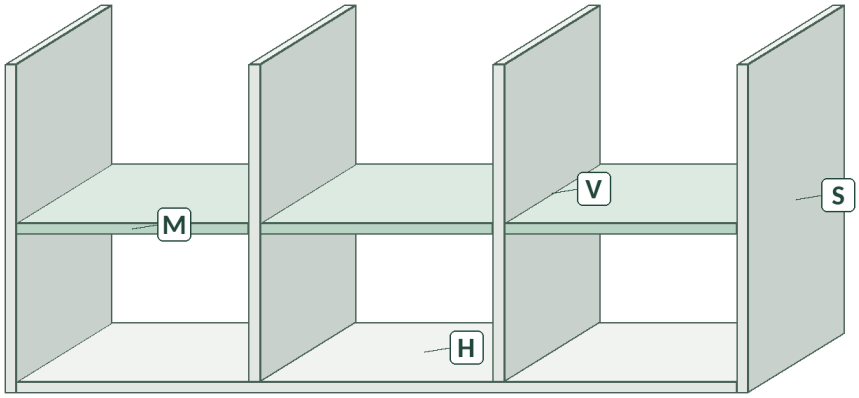



GREEN: added in this step | GREY: already in place

03 / BUILD, CONTINUED

## STEP 4 Fit the shelves

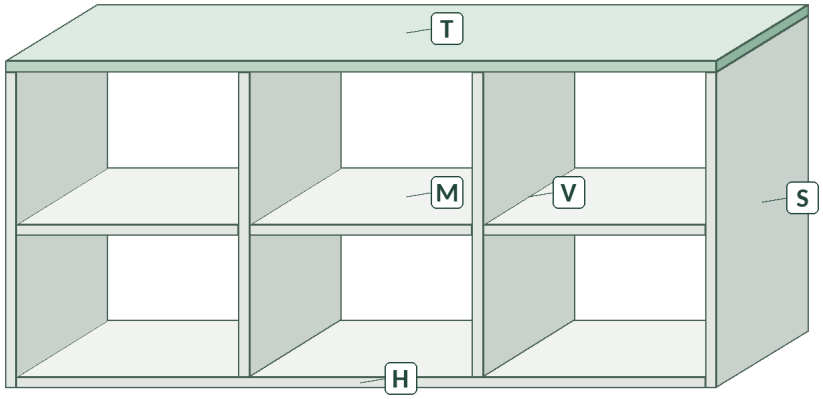
Mark every side and divider 10-1/4 in up from the floor. Set each **M** on its marks with the pocket holes facing down, glue and drive 3 screws at each end.




GREEN: added in this step | GREY: already in place

## STEP 5 Attach the top

Set **T** on the case flush at the ends and front. Drive the 6 screws from the sides and the 6 from the tops of the dividers up into it.



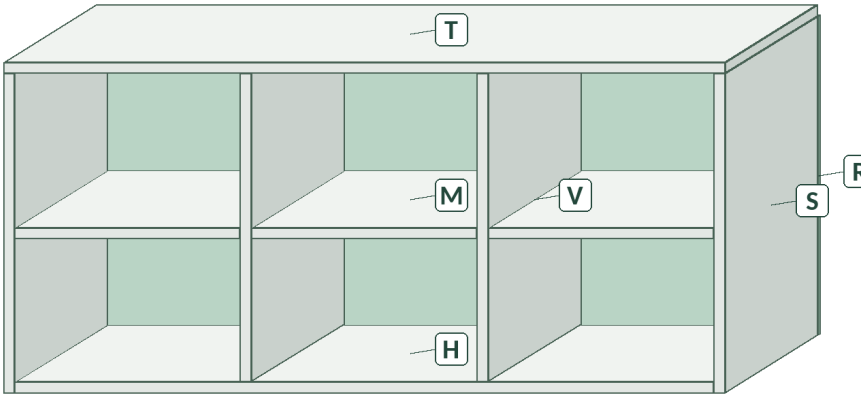

GREEN: added in this step | GREY: already in place

03 / BUILD, CONTINUED

STEP 6

## Back, finish and anchor

Square the case, cut **R** to fit below the top, and glue and nail it on about every 4 in. Sand, finish, and fasten the anti-tip strap into a wall stud before setting a TV on top.




GREEN: added in this step | GREY: already in place

CARE

Keep the anti-tip strap fitted, especially with a TV on top. Keep heavy items low and never let children climb it.

**Browse more free plans >** **Plan your own cut list >** **How to read a plan >**

Dimensions, part counts and cutting layouts were checked digitally. The plan has not been load-tested.