# Built-in from a photo

Overall size: 64-5/8" W × 24-3/4" D × 84" H



| Parts | Sheets and boards | Saw kerf | Units |
|---|---|---|---|
| **53 (42 different)** | **8** | **1/8"** | **Inches** |

## Materials to buy

| Qty | Material | Label in plan |
|---|---|---|
| 6 | 3/4" Birch Plywood, 4' × 8' | Sheet A, Sheet B, Sheet C, Sheet D, Sheet E, Sheet F |
| 2 | 1/4" Birch Plywood, 4' × 8' | Sheet G, Sheet H |
| 6 | Bi-fold hinges, 35 mm cup, leaf to leaf | Hardware |
| 1 | Bi-fold pocket door set (4 doors) | Hardware |
| 20 | Hinges, 35 mm cup, full overlay, soft-close | Hardware |
| 58 | Kreg pocket screws 1-1/4" coarse thread | Hardware |
| 8 | Pan head screws #8 × 1-1/4", in slotted holes | Hardware |
| 1 | Pocket door hardware set (pair of doors) | Hardware |

| Qty | Material | Label in plan |
|---|---|---|
| 8 | Pulls, 3-3/4" (96 mm) centers | Hardware |
| 24 | Shelf pins 1/4" | Hardware |

## Cost

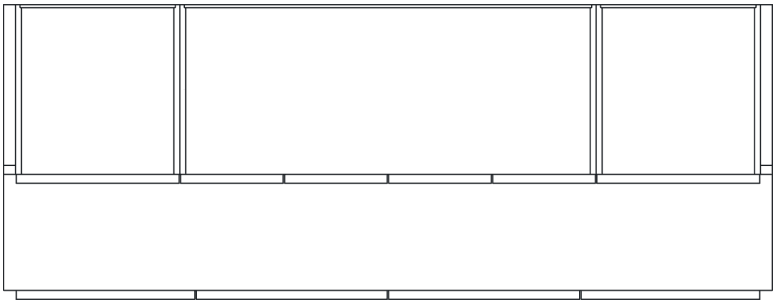
In USD, at this project's prices

| Qty | Item | Price | Per | Total |
|---|---|---|---|---|
| 5 | 3/4" Birch Plywood, 4' × 8' | $75.00 | a sheet | $375.00 |
| 1 | 1/4" Birch Plywood, 4' × 8' | $45.00 | a sheet | $45.00 |
| 6 | Bi-fold hinges, 35 mm cup, leaf to leaf | $4.00 | each | $24.00 |
| 1 | Bi-fold pocket door set (4 doors) | $120.00 | each | $120.00 |
| 20 | Hinges, 35 mm cup, full overlay, soft-close | $4.00 | each | $80.00 |
| 58 | Kreg pocket screws 1-1/4" coarse thread | $0.08 | each | $4.64 |
| 8 | Pan head screws #8 × 1-1/4", in slotted holes | $0.08 | each | $0.64 |
| 1 | Pocket door hardware set (pair of doors) | $120.00 | each | $120.00 |
| 8 | Pulls, 3-3/4" (96 mm) centers | $5.00 | each | $40.00 |
| 24 | Shelf pins 1/4" | $0.15 | each | $3.60 |
| **Wood** | | | | **$420.00** |
| **Hardware** | | | | **$392.88** |
| **Total** | | | | **$812.88** |
| $114.91 of the wood is offcuts and kerf (27%), counted in Wood above. | | | | |
| Priced at what Optimize sheets packs the parts onto: 6 instead of the 8 they're on now. | | | | |

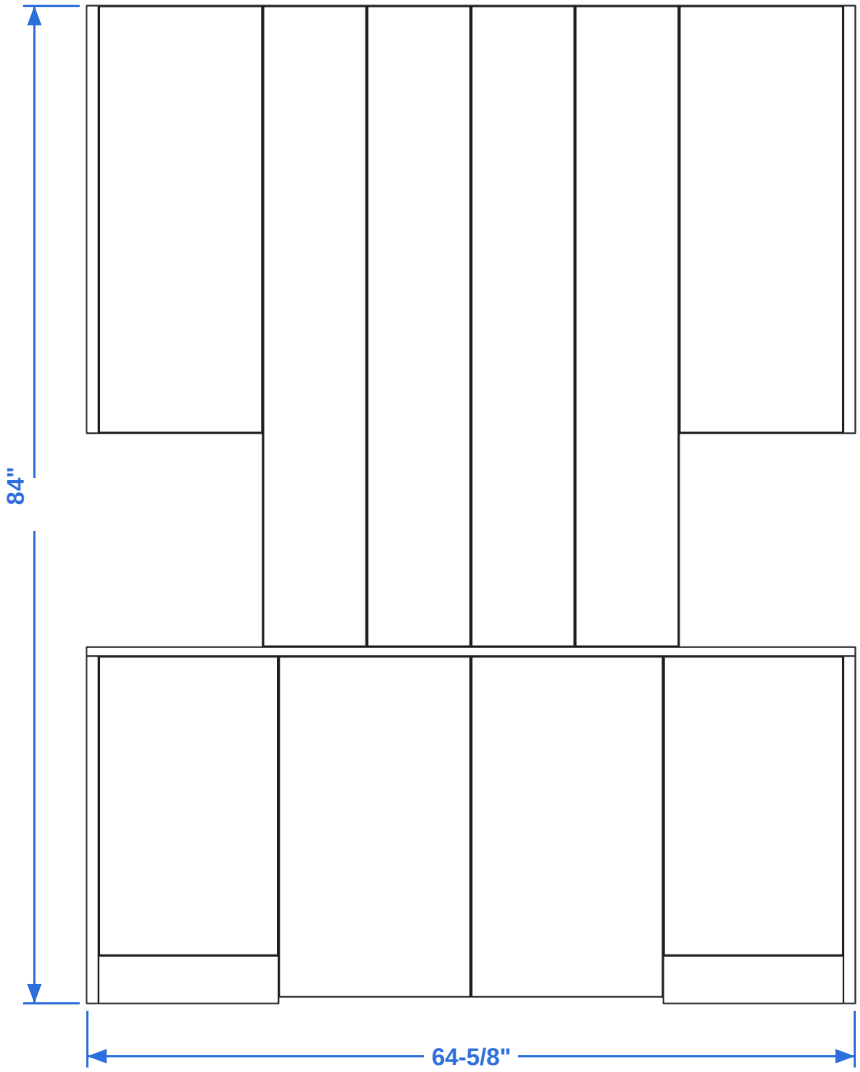
# Views

Use the written dimensions; don't scale the drawing.

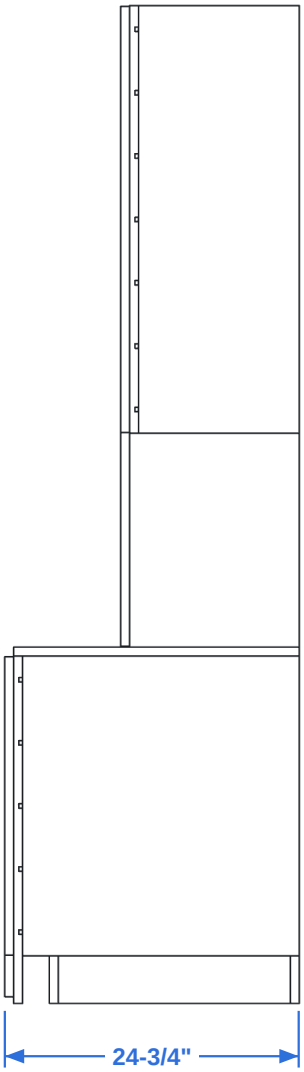
### Top



### Front

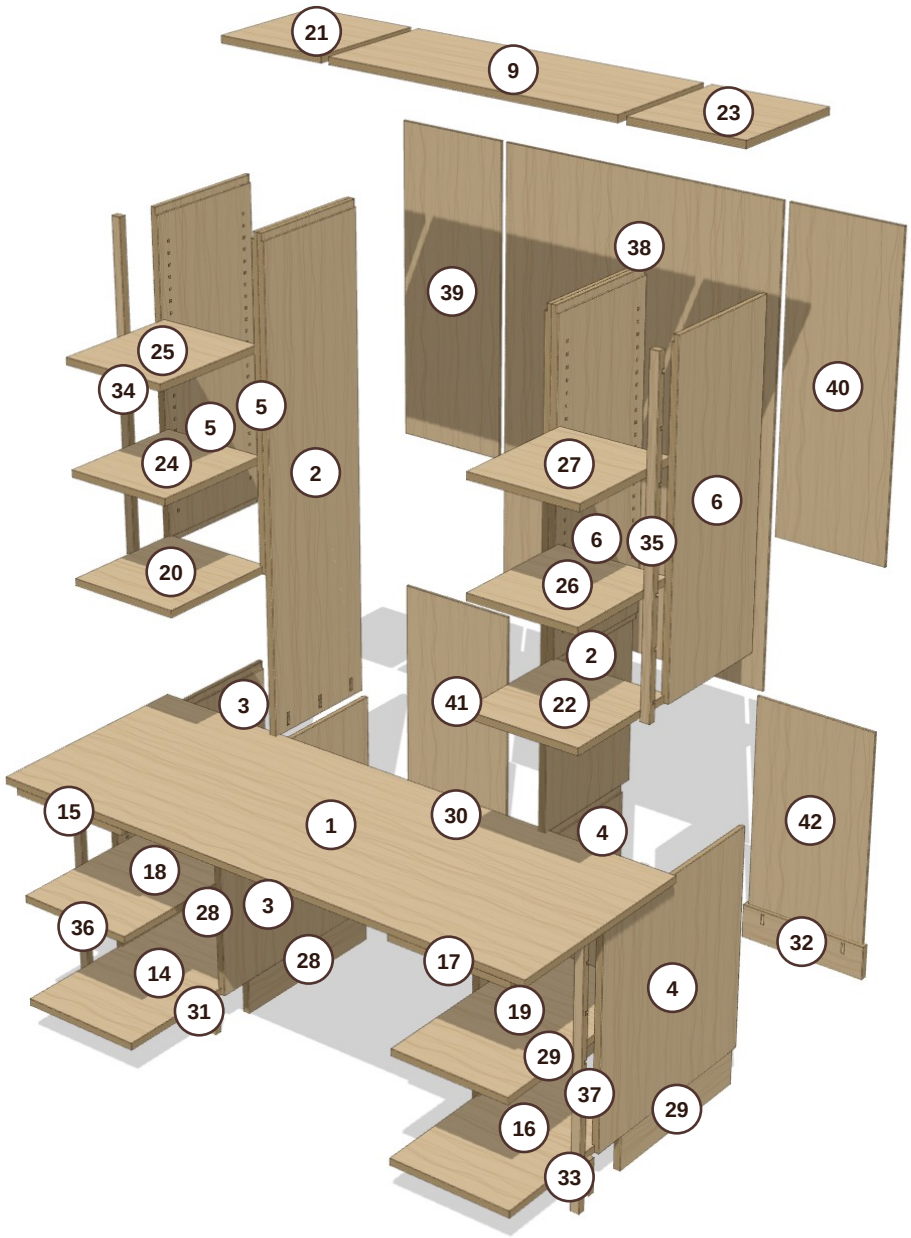



### Right side



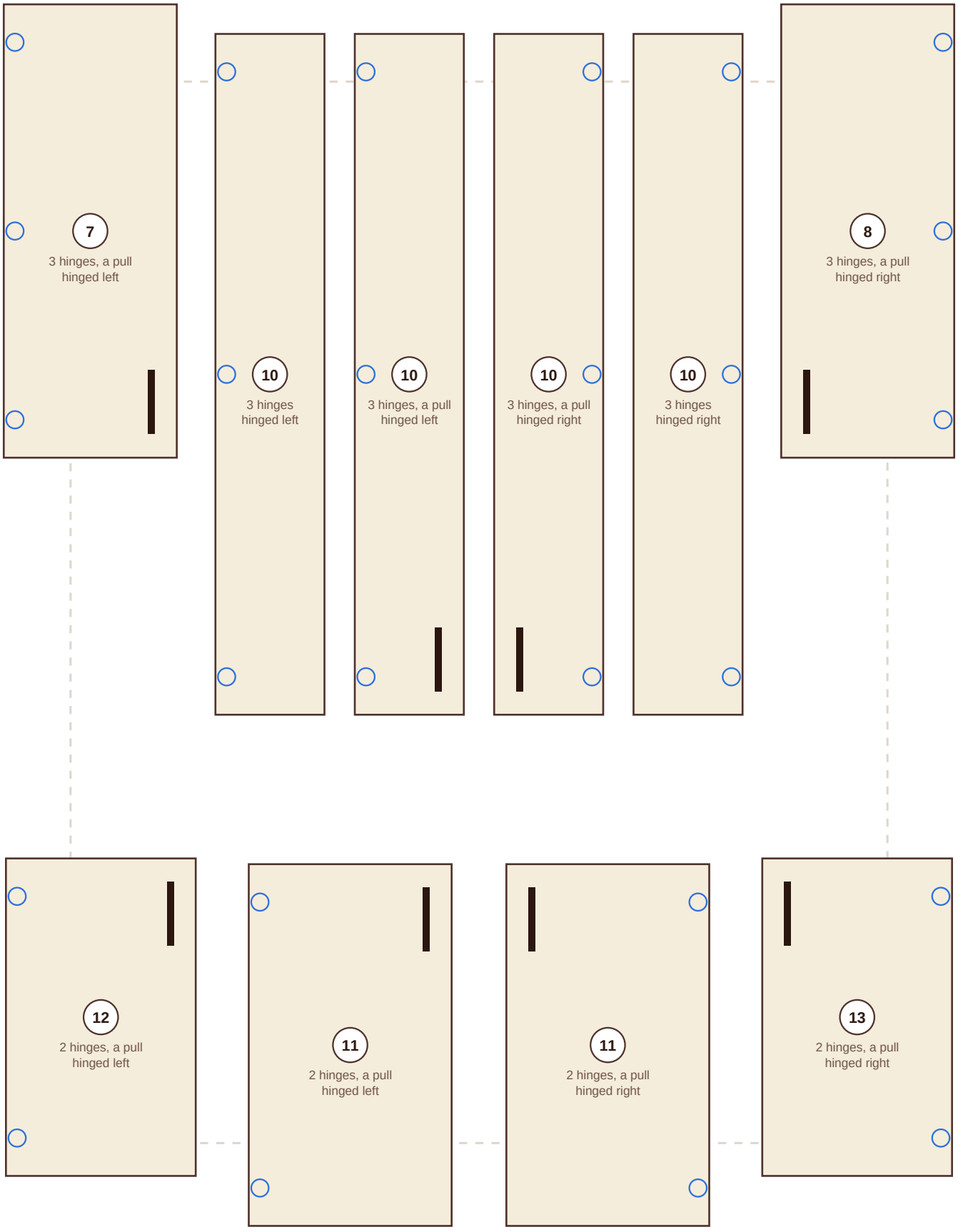
# Exploded view: the carcase

Every part by its number in the cut list



# Exploded view: doors and hardware

Seen from the front, spread apart



# Cut list

Length runs with the grain

| # | Part | Qty | Length | Width | Thick | Material | From | Grain |
|---|---|---|---|---|---|---|---|---|
| **1** | Desktop | 1 | 64-5/8" | 24" | 3/4" | Birch Plywood | A | Length |
| **2** | Monitor bay side | 2 | 54" | 14-1/4" | 3/4" | Birch Plywood | C | Length |
| **3** | Left base side | 2 | 25-1/4" | 24" | 3/4" | Birch Plywood | A, B | Length |
| **4** | Right base side | 2 | 25-1/4" | 24" | 3/4" | Birch Plywood | B | Length |
| **5** | Left upper side | 2 | 36" | 14-1/4" | 3/4" | Birch Plywood | C | Length |
| **6** | Right upper side | 2 | 36" | 14-1/4" | 3/4" | Birch Plywood | D | Length |
| **7** | Left upper door | 1 | 35-7/8" | 13-11/16" | 3/4" | Birch Plywood | E | Length, keep |
| **8** | Right upper door | 1 | 35-7/8" | 13-11/16" | 3/4" | Birch Plywood | E | Length, keep |
| **9** | Monitor bay top | 1 | 34" | 14" | 3/4" | Birch Plywood | D | Length |
| **10** | Monitor bay door | 4 | 53-7/8" | 8-5/8" | 3/4" | Birch Plywood | E, F | Length, keep |
| **11** | Kneehole door | 2 | 28-5/8" | 16-1/16" | 3/4" | Birch Plywood | B | Length, keep |
| **12** | Left base door | 1 | 25-1/8" | 15" | 3/4" | Birch Plywood | C | Length, keep |
| **13** | Right base door | 1 | 25-1/8" | 15" | 3/4" | Birch Plywood | C | Length, keep |
| **14** | Left base bottom | 1 | 14-1/8" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **15** | Left base top | 1 | 14-1/8" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **16** | Right base bottom | 1 | 14-1/8" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **17** | Right base top | 1 | 14-1/8" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **18** | Left base shelf | 1 | 13-9/16" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **19** | Right base shelf | 1 | 13-9/16" | 23-3/4" | 3/4" | Birch Plywood | A | Length |
| **20** | Left upper bottom | 1 | 12-13/16" | 14" | 3/4" | Birch Plywood | D | Length |
| **21** | Left upper top | 1 | 12-13/16" | 14" | 3/4" | Birch Plywood | D | Length |
| **22** | Right upper bottom | 1 | 12-13/16" | 14" | 3/4" | Birch Plywood | D | Length |
| **23** | Right upper top | 1 | 12-13/16" | 14" | 3/4" | Birch Plywood | D | Length |
| **24** | Left upper shelf 1 | 1 | 12-1/4" | 14" | 3/4" | Birch Plywood | D | Length |
| **25** | Left upper shelf 2 | 1 | 12-1/4" | 14" | 3/4" | Birch Plywood | D | Length |
| **26** | Right upper shelf 1 | 1 | 12-1/4" | 14" | 3/4" | Birch Plywood | D | Length |
| **27** | Right upper shelf 2 | 1 | 12-1/4" | 14" | 3/4" | Birch Plywood | D | Length |
| **28** | Left base toe-kick cross rail | 2 | 19-1/2" | 4" | 3/4" | Birch Plywood | B | Length |
| **29** | Right base toe-kick cross rail | 2 | 19-1/2" | 4" | 3/4" | Birch Plywood | B | Length |
| **30** | Left base toe-kick back rail | 1 | 15-1/8" | 4" | 3/4" | Birch Plywood | B | Length |
| **31** | Left base toe-kick front rail | 1 | 15-1/8" | 4" | 3/4" | Birch Plywood | C | Length |

| # | Part | Qty | Length | Width | Thick | Material | From | Grain |
|---|---|---|---|---|---|---|---|---|
| **32** | Right base toe-kick back rail | 1 | 15-1/8" | 4" | 3/4" | Birch Plywood | C | Length |
| **33** | Right base toe-kick front rail | 1 | 15-1/8" | 4" | 3/4" | Birch Plywood | C | Length |
| **34** | Upper left filler | 1 | 36" | 1" | 3/4" | Birch Plywood | B | Length |
| **35** | Upper right filler | 1 | 36" | 1" | 3/4" | Birch Plywood | B | Length |
| **36** | Base left filler | 1 | 29-1/4" | 1" | 3/4" | Birch Plywood | B | Length |
| **37** | Base right filler | 1 | 29-1/4" | 1" | 3/4" | Birch Plywood | B | Length |
| **38** | Monitor bay back | 1 | 54" | 34-1/4" | 1/4" | Birch Plywood | G | Length |
| **39** | Left upper back | 1 | 36" | 13-1/16" | 1/4" | Birch Plywood | G | Length |
| **40** | Right upper back | 1 | 36" | 13-1/16" | 1/4" | Birch Plywood | G | Length |
| **41** | Left base back | 1 | 25-1/4" | 14-3/8" | 1/4" | Birch Plywood | H | Length |
| **42** | Right base back | 1 | 25-1/4" | 14-3/8" | 1/4" | Birch Plywood | H | Length |

### Wood movement

- Desktop on Left base top: 4 screws through slotted holes in Left base top, the slots across Desktop's grain; snug, not tight.
- Desktop on Right base top: 4 screws through slotted holes in Right base top, the slots across Desktop's grain; snug, not tight.

## Assembly

Which parts join, and how

| Part | Joins | Joinery | Each | Where |
|---|---|---|---|---|
| Left base side ×2 | Left base bottom | Rabbet | 1 | at the left end |
| Left base side ×2 | Left base top | Rabbet | 1 | at the right end |
| Left base side ×2 | Left base back | Rabbet | 1 | on the top edge |
| Right base side ×2 | Right base bottom | Rabbet | 1 | at the left end |
| Right base side ×2 | Right base top | Rabbet | 1 | at the right end |
| Right base side ×2 | Right base back | Rabbet | 1 | on the top edge |
| Left base toe-kick cross rail ×2 | Left base toe-kick back rail | Kreg pocket screws 1-1/4" coarse | 2 | back end |
| Left base toe-kick cross rail ×2 | Left base toe-kick front rail | Kreg pocket screws 1-1/4" coarse | 2 | front end |
| Right base toe-kick cross rail ×2 | Right base toe-kick back rail | Kreg pocket screws 1-1/4" coarse | 2 | back end |
| Right base toe-kick cross rail ×2 | Right base toe-kick front rail | Kreg pocket screws 1-1/4" coarse | 2 | front end |
| Left base toe-kick back rail | Left base bottom | Kreg pocket screws 1-1/4" coarse | 3 | top edge |
| Upper left filler | Left upper side | Kreg pocket screws 1-1/4" coarse | 7 | right edge |
| Upper right filler | Right upper side | Kreg pocket screws 1-1/4" coarse | 7 | left edge |
| Base left filler | Left base side | Kreg pocket screws 1-1/4" coarse | 5 | right edge |
| Base right filler | Right base side | Kreg pocket screws 1-1/4" coarse | 5 | left edge |
| Monitor bay side ×2 | Monitor bay top | Rabbet | 1 | at the right end |

| Part | Joins | Joinery | Each | Where |
|---|---|---|---|---|
| Monitor bay side ×2 | Monitor bay back | Rabbet | 1 | on the top edge |
| Monitor bay side ×2 | Desktop | Kreg pocket screws 1-1/4" coarse | 3 | bottom end |
| Left upper side ×2 | Left upper bottom | Rabbet | 1 | at the left end |
| Left upper side ×2 | Left upper top | Rabbet | 1 | at the right end |
| Left upper side ×2 | Left upper back | Rabbet | 1 | on the top edge |
| Left base toe-kick front rail | Left base bottom | Kreg pocket screws 1-1/4" coarse | 3 | top edge |
| Right base toe-kick back rail | Right base bottom | Kreg pocket screws 1-1/4" coarse | 3 | top edge |
| Right base toe-kick front rail | Right base bottom | Kreg pocket screws 1-1/4" coarse | 3 | top edge |
| Right upper side ×2 | Right upper bottom | Rabbet | 1 | at the left end |
| Right upper side ×2 | Right upper top | Rabbet | 1 | at the right end |
| Right upper side ×2 | Right upper back | Rabbet | 1 | on the top edge |
| Left base shelf | both Left base sides | Shelf pins 1/4" | 4 | any hole in the rows |
| Right base shelf | both Right base sides | Shelf pins 1/4" | 4 | any hole in the rows |
| Left upper shelf 1 | both Left upper sides | Shelf pins 1/4" | 4 | any hole in the rows |
| Left upper shelf 2 | both Left upper sides | Shelf pins 1/4" | 4 | any hole in the rows |
| Right upper shelf 1 | both Right upper sides | Shelf pins 1/4" | 4 | any hole in the rows |
| Right upper shelf 2 | both Right upper sides | Shelf pins 1/4" | 4 | any hole in the rows |

## Joinery

From the left end and top edge as drawn in the diagrams

| # | Part | Joint | Size | Where | Face |
|---|---|---|---|---|---|
| **2** | Monitor bay side ×2 | Rabbet | 1/4" wide × 3/8" deep | on the top edge | Mirror pair |
| **2** | Monitor bay side ×2 | Pocket holes | 3 for 1-1/4" coarse screws, Kreg 3/4" setting | at the left end | Mirror pair |
| **2** | Monitor bay side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the right end | Mirror pair |
| **3** | Left base side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the left end | Mirror pair |
| **3** | Left base side ×2 | Rabbet | 1/4" wide × 3/8" deep | on the top edge | Mirror pair |
| **3** | Left base side ×2 | Shelf pin holes | 2 rows of 15, 1/4" holes 5/16" deep, every 1-1/4" | 7-1/4" to 24-15/16" up from the floor, 1-7/16" in from the front and back edges | Mirror pair |
| **3** | Left base side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the right end | Mirror pair |
| **4** | Right base side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the left end | Mirror pair |

| # | Part | Joint | Size | Where | Face |
|---|---|---|---|---|---|
| **4** | Right base side ×2 | Rabbet | 1/4" wide × 3/8" deep | on the top edge | Mirror pair |
| **4** | Right base side ×2 | Shelf pin holes | 2 rows of 15, 1/4" holes 5/16" deep, every 1-1/4" | 7-1/4" to 24-15/16" up from the floor, 1-7/16" in from the front and back edges | Mirror pair |
| **4** | Right base side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the right end | Mirror pair |
| **5** | Left upper side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the left end | Mirror pair |
| **5** | Left upper side ×2 | Rabbet | 1/4" wide × 3/8" deep | on the top edge | Mirror pair |
| **5** | Left upper side ×2 | Shelf pin holes | 2 rows of 24, 1/4" holes 5/16" deep, every 1-1/4" | 51-1/4" to 80-1/4" up from the floor, 1-7/16" in from the front and back edges | Mirror pair |
| **5** | Left upper side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the right end | Mirror pair |
| **6** | Right upper side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the left end | Mirror pair |
| **6** | Right upper side ×2 | Rabbet | 1/4" wide × 3/8" deep | on the top edge | Mirror pair |
| **6** | Right upper side ×2 | Shelf pin holes | 2 rows of 24, 1/4" holes 5/16" deep, every 1-1/4" | 51-1/4" to 80-1/4" up from the floor, 1-7/16" in from the front and back edges | Mirror pair |
| **6** | Right upper side ×2 | Rabbet | 3/4" wide × 1/4" deep | at the right end | Mirror pair |
| **28** | Left base toe-kick cross rail ×2 | Pocket holes | 2 for 1-1/4" coarse screws, Kreg 3/4" setting | at the left end | Mirror pair |
| **28** | Left base toe-kick cross rail ×2 | Pocket holes | 2 for 1-1/4" coarse screws, Kreg 3/4" setting | at the right end | Mirror pair |
| **29** | Right base toe-kick cross rail ×2 | Pocket holes | 2 for 1-1/4" coarse screws, Kreg 3/4" setting | at the left end | Mirror pair |
| **29** | Right base toe-kick cross rail ×2 | Pocket holes | 2 for 1-1/4" coarse screws, Kreg 3/4" setting | at the right end | Mirror pair |
| **30** | Left base toe-kick back rail | Pocket holes | 3 for 1-1/4" coarse screws, Kreg 3/4" setting | on the top edge | Top |
| **31** | Left base toe-kick front rail | Pocket holes | 3 for 1-1/4" coarse screws, Kreg 3/4" setting | on the top edge | Underside |
| **32** | Right base toe-kick back rail | Pocket holes | 3 for 1-1/4" coarse screws, Kreg 3/4" setting | on the top edge | Top |
| **33** | Right base toe-kick front | Pocket holes | 3 for 1-1/4" coarse screws, Kreg 3/4" | on the top edge | Underside |

| # | Part | Joint | Size | Where | Face |
|---|---|---|---|---|---|
| | rail | | setting | | |
| **34** | Upper left filler | Pocket holes | 7 for 1-1/4" coarse screws, Kreg 3/4" setting | on the bottom edge | Underside |
| **35** | Upper right filler | Pocket holes | 7 for 1-1/4" coarse screws, Kreg 3/4" setting | on the top edge | Underside |
| **36** | Base left filler | Pocket holes | 5 for 1-1/4" coarse screws, Kreg 3/4" setting | on the bottom edge | Underside |
| **37** | Base right filler | Pocket holes | 5 for 1-1/4" coarse screws, Kreg 3/4" setting | on the top edge | Underside |
| **11** | Kneehole door | Hinge cups | 2 × 35 mm, 1/2" deep | 7/8" in from the left edge; 3" from the top (25-5/8" from the bottom), 25-5/8" from the top (3" from the bottom) | Inside |
| **11** | Kneehole door | Hinge cups | 2 × 35 mm, 1/2" deep | 7/8" in from the right edge; 3" from the top (25-5/8" from the bottom), 25-5/8" from the top (3" from the bottom) | Inside |
| **12** | Left base door | Hinge cups | 2 × 35 mm, 1/2" deep | 7/8" in from the left edge; 3" from the top (22-1/8" from the bottom), 22-1/8" from the top (3" from the bottom) | Inside |
| **13** | Right base door | Hinge cups | 2 × 35 mm, 1/2" deep | 7/8" in from the right edge; 3" from the top (22-1/8" from the bottom), 22-1/8" from the top (3" from the bottom) | Inside |
| **7** | Left upper door | Hinge cups | 3 × 35 mm, 1/2" deep | 7/8" in from the left edge; 3" from the top (32-7/8" from the bottom), 17-15/16" from the top (17-15/16" from the bottom), 32-7/8" from the top (3" from the bottom) | Inside |
| **8** | Right upper door | Hinge cups | 3 × 35 mm, 1/2" deep | 7/8" in from the right edge; 3" from the top (32-7/8" from the bottom), 17-15/16" from the top (17-15/16" from the bottom), 32-7/8" from the top (3" from the bottom) | Inside |
| **10** | Monitor bay door, Monitor bay door | Hinge cups | 3 × 35 mm, 1/2" deep | 7/8" in from the left edge; 3" from the top (50-7/8" from the bottom), 26-15/16" from the top (26-15/16" from the bottom), 50-7/8" from the top (3" from the bottom) | Inside |
| **10** | Monitor bay door, Monitor bay door | Hinge cups | 3 × 35 mm, 1/2" deep | 7/8" in from the right edge; 3" from the top (50-7/8" from the bottom), 26-15/16" from the top (26-15/16" from the bottom), 50-7/8" from the top (3" from the bottom) | Inside |

## Hardware

Screws, hinges, pulls, pocket door sets and shelf pins

| Qty | Item | On parts |
|---|---|---|
| 6 | Bi-fold hinges, 35 mm cup, leaf to leaf | 10 |
| 1 | Bi-fold pocket door set (4 doors) | 10 |
| 20 | Hinges, 35 mm cup, full overlay, soft-close | 7, 8, 10, 11, 12, 13 |
| 58 | Kreg pocket screws 1-1/4" coarse thread | |
| 8 | Pan head screws #8 × 1-1/4", in slotted holes | 15, 17 |
| 1 | Pocket door hardware set (pair of doors) | 11 |
| 8 | Pulls, 3-3/4" (96 mm) centers | 7, 8, 10, 11, 12, 13 |

| Qty | Item | On parts |
|---|---|---|
| 24 | Shelf pins 1/4" | 18, 19, 24, 25, 26, 27 |

## Leftovers

Usable offcuts after cutting

| Piece | Length | Width | Thick | Material |
|---|---|---|---|---|
| Offcut A2 | 5-7/8" | 24" | 3/4" | Birch Plywood |
| Offcut A3 | 11-1/2" | 23-3/4" | 3/4" | Birch Plywood |
| Offcut B1 | 96" | 1-5/16" | 3/4" | Birch Plywood |
| Offcut B2 | 19-7/8" | 24" | 3/4" | Birch Plywood |
| Offcut B3 | 38-1/2" | 16-1/16" | 3/4" | Birch Plywood |
| Offcut B4 | 2-1/4" | 4" | 3/4" | Birch Plywood |
| Offcut B5 | 23-3/4" | 1" | 3/4" | Birch Plywood |
| Offcut B6 | 37-1/4" | 1" | 3/4" | Birch Plywood |
| Offcut C2 | 45-1/2" | 15" | 3/4" | Birch Plywood |
| Offcut C3 | 5-3/4" | 14-1/4" | 3/4" | Birch Plywood |
| Offcut C4 | 5-3/4" | 14-1/4" | 3/4" | Birch Plywood |
| Offcut C5 | 50-3/16" | 4" | 3/4" | Birch Plywood |
| Offcut D1 | 96" | 5-3/8" | 3/4" | Birch Plywood |
| Offcut D2 | 23-3/4" | 14-1/4" | 3/4" | Birch Plywood |
| Offcut D3 | 10-1/8" | 14" | 3/4" | Birch Plywood |
| Offcut D4 | 46-1/2" | 14" | 3/4" | Birch Plywood |
| Offcut E1 | 96" | 7-15/16" | 3/4" | Birch Plywood |
| Offcut E2 | 24" | 13-11/16" | 3/4" | Birch Plywood |
| Offcut E3 | 42" | 8-5/8" | 3/4" | Birch Plywood |
| Offcut E4 | 42" | 8-5/8" | 3/4" | Birch Plywood |
| Offcut E5 | 42" | 8-5/8" | 3/4" | Birch Plywood |
| Offcut F1 | 96" | 39-1/4" | 3/4" | Birch Plywood |
| Offcut F2 | 42" | 8-5/8" | 3/4" | Birch Plywood |
| Offcut G1 | 96" | 7/16" | 1/4" | Birch Plywood |
| Offcut G2 | 41-7/8" | 34-1/4" | 1/4" | Birch Plywood |
| Offcut G3 | 23-3/4" | 13-1/16" | 1/4" | Birch Plywood |
| Offcut H1 | 96" | 33-1/2" | 1/4" | Birch Plywood |
| Offcut H2 | 45-1/4" | 14-3/8" | 1/4" | Birch Plywood |

# Layout

Where each shelf and divider goes, from one edge

Mark mating parts together from the same reference edge, or use a story stick or a spacer block, so each pair matches even if your tape is off.

## 1 Desktop: in from the left edge (64-5/8" long)

| # | Part | On | Left face | Right face |
|---|---|---|---|---|
| **3** | Left base side | Underside | 1" | 1-3/4" |
| **2** | Monitor bay side | Top face | 14-13/16" | 15-9/16" |
| **3** | Left base side | Underside | 15-3/8" | 16-1/8" |
| **4** | Right base side | Underside | 48-1/2" | 49-1/4" |
| **2** | Monitor bay side | Top face | 49-1/16" | 49-13/16" |
| **4** | Right base side | Underside | 62-7/8" | 63-5/8" |




## 3 Left base side: up from the bottom edge (25-1/4" long)

Same marks as Left base side, Right base side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **14** | Left base bottom | Right face | -0" | 3/4" |
| **15** | Left base top | Right face | 24-1/2" | 25-1/4" |

Shelf pin holes on the right face: 1/4" every 1-1/4", 3-1/4" to 20-15/16", 1-7/16" in from the front and back edges.




## 3 Left base side: up from the bottom edge (25-1/4" long)

Same marks as Left base side, Right base side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **14** | Left base bottom | Left face | -0" | 3/4" |
| **15** | Left base top | Left face | 24-1/2" | 25-1/4" |

Shelf pin holes on the left face: 1/4" every 1-1/4", 3-1/4" to 20-15/16", 1-7/16" in from the front and back edges.



## 4 Right base side: up from the bottom edge (25-1/4" long)

Same marks as Left base side, Right base side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **16** | Right base bottom | Right face | -0" | 3/4" |
| **17** | Right base top | Right face | 24-1/2" | 25-1/4" |

Shelf pin holes on the right face: 1/4" every 1-1/4", 3-1/4" to 20-15/16", 1-7/16" in from the front and back edges.




## 4 Right base side: up from the bottom edge (25-1/4" long)

Same marks as Left base side, Right base side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **16** | Right base bottom | Left face | -0" | 3/4" |
| **17** | Right base top | Left face | 24-1/2" | 25-1/4" |

Shelf pin holes on the left face: 1/4" every 1-1/4", 3-1/4" to 20-15/16", 1-7/16" in from the front and back edges.




## 2 Monitor bay side: up from the bottom edge (54" long)

The other Monitor bay side has the same marks: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **9** | Monitor bay top | Right face | 53-1/4" | 54" |




## 5 Left upper side: up from the bottom edge (36" long)

Same marks as Left upper side, Right upper side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **20** | Left upper bottom | Right face | 0" | 3/4" |
| **21** | Left upper top | Right face | 35-1/4" | 36" |

Shelf pin holes on the right face: 1/4" every 1-1/4", 3-1/4" to 32-1/4", 1-7/16" in from the front and back edges.



## 2 Monitor bay side: up from the bottom edge (54" long)

The other Monitor bay side has the same marks: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **9** | Monitor bay top | Left face | 53-1/4" | 54" |




## 5 Left upper side: up from the bottom edge (36" long)

Same marks as Left upper side, Right upper side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **20** | Left upper bottom | Left face | 0" | 3/4" |
| **21** | Left upper top | Left face | 35-1/4" | 36" |

Shelf pin holes on the left face: 1/4" every 1-1/4", 3-1/4" to 32-1/4", 1-7/16" in from the front and back edges.




## 6 Right upper side: up from the bottom edge (36" long)

Same marks as Left upper side, Right upper side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **22** | Right upper bottom | Right face | 0" | 3/4" |
| **23** | Right upper top | Right face | 35-1/4" | 36" |

Shelf pin holes on the right face: 1/4" every 1-1/4", 3-1/4" to 32-1/4", 1-7/16" in from the front and back edges.




## 6 Right upper side: up from the bottom edge (36" long)

Same marks as Left upper side, Right upper side: mark them together.

| # | Part | On | Bottom of shelf | Top of shelf |
|---|---|---|---|---|
| **22** | Right upper bottom | Left face | 0" | 3/4" |
| **23** | Right upper top | Left face | 35-1/4" | 36" |

Shelf pin holes on the left face: 1/4" every 1-1/4", 3-1/4" to 32-1/4", 1-7/16" in from the front and back edges.

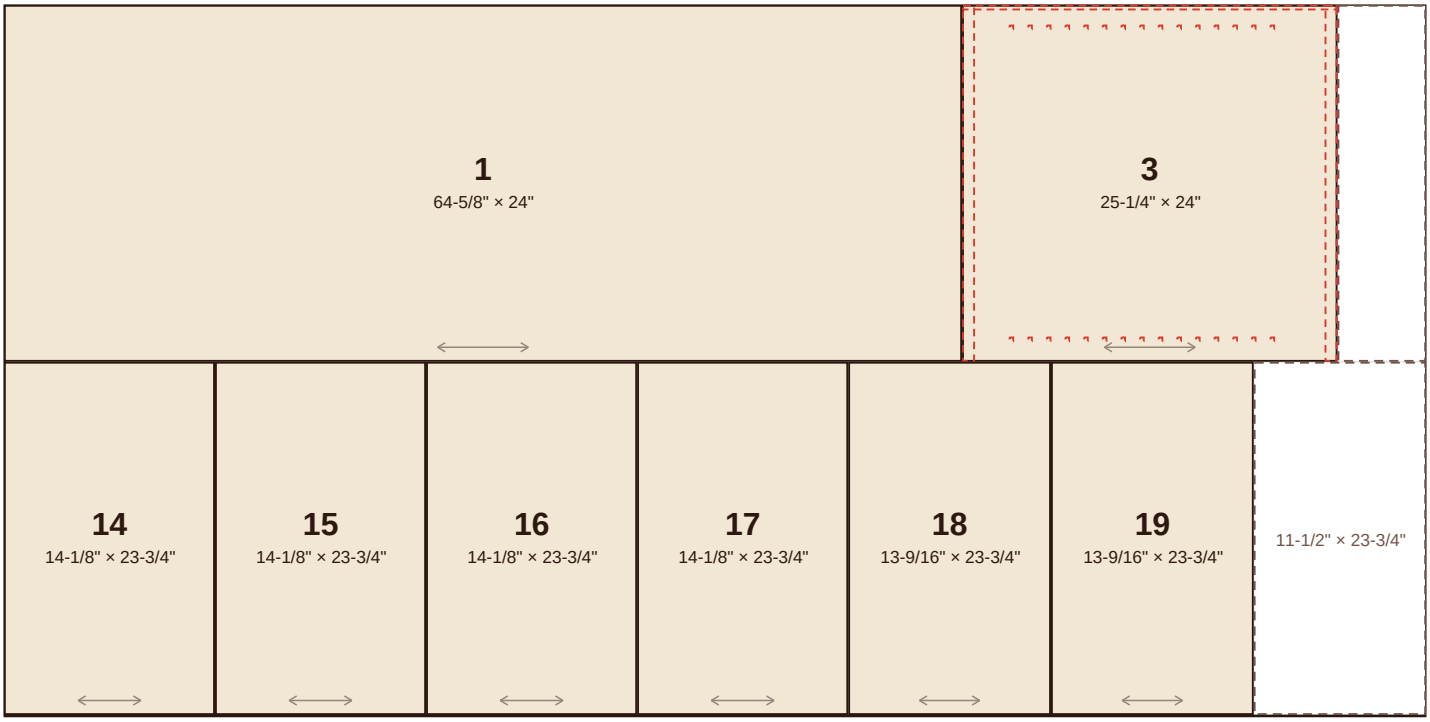


# Cutting diagrams

Grey gaps are saw kerf (1/8"). Red is joinery.

**Sheet A** 3/4" Birch Plywood, 4' × 8'

90% used



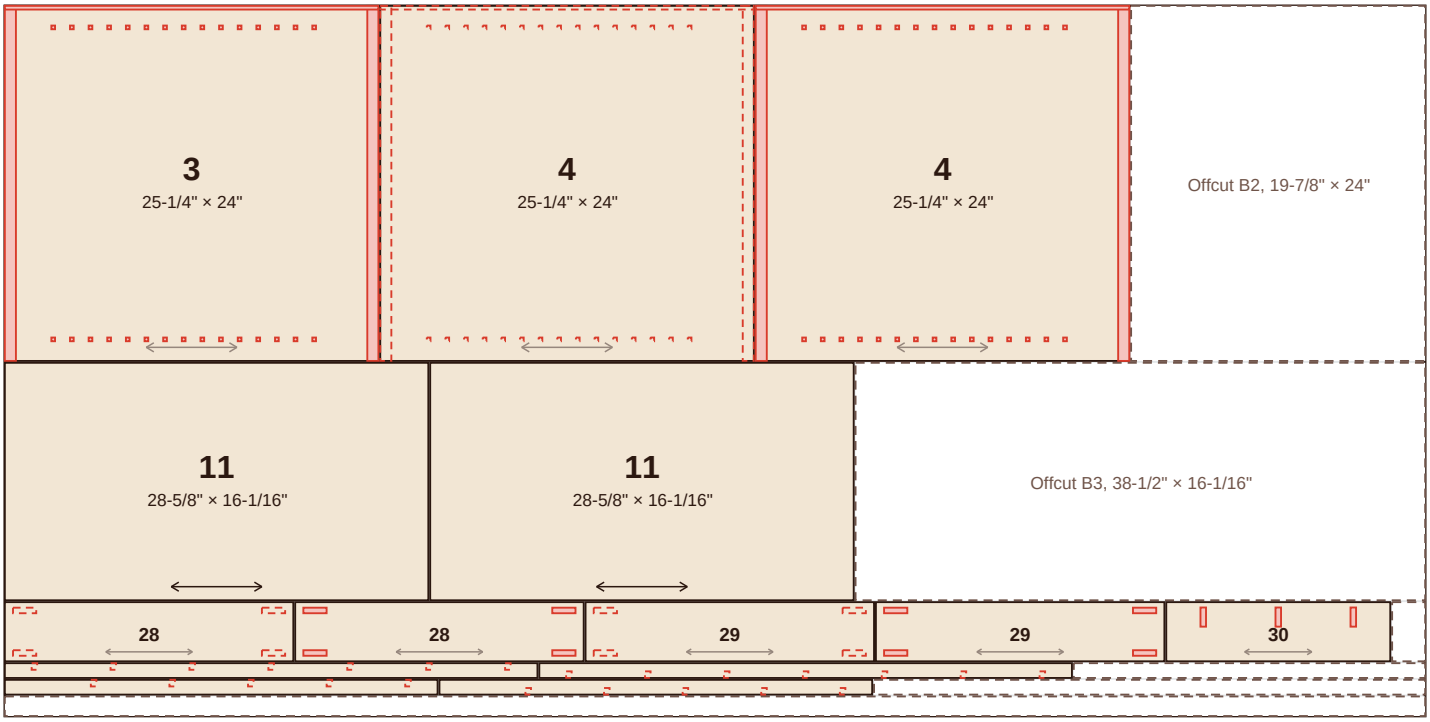

96" long, grain runs left to right

48" wide

| | | | | | |
|---|---|---|---|---|---|
| **1** | Desktop | 64-5/8" × 24" | **3** | Left base side | 25-1/4" × 24" |
| **14** | Left base bottom | 14-1/8" × 23-3/4" | **15** | Left base top | 14-1/8" × 23-3/4" |
| **16** | Right base bottom | 14-1/8" × 23-3/4" | **17** | Right base top | 14-1/8" × 23-3/4" |
| **18** | Left base shelf | 13-9/16" × 23-3/4" | **19** | Right base shelf | 13-9/16" × 23-3/4" |

## **Sheet B** 3/4" Birch Plywood, 4' × 8'

70% used

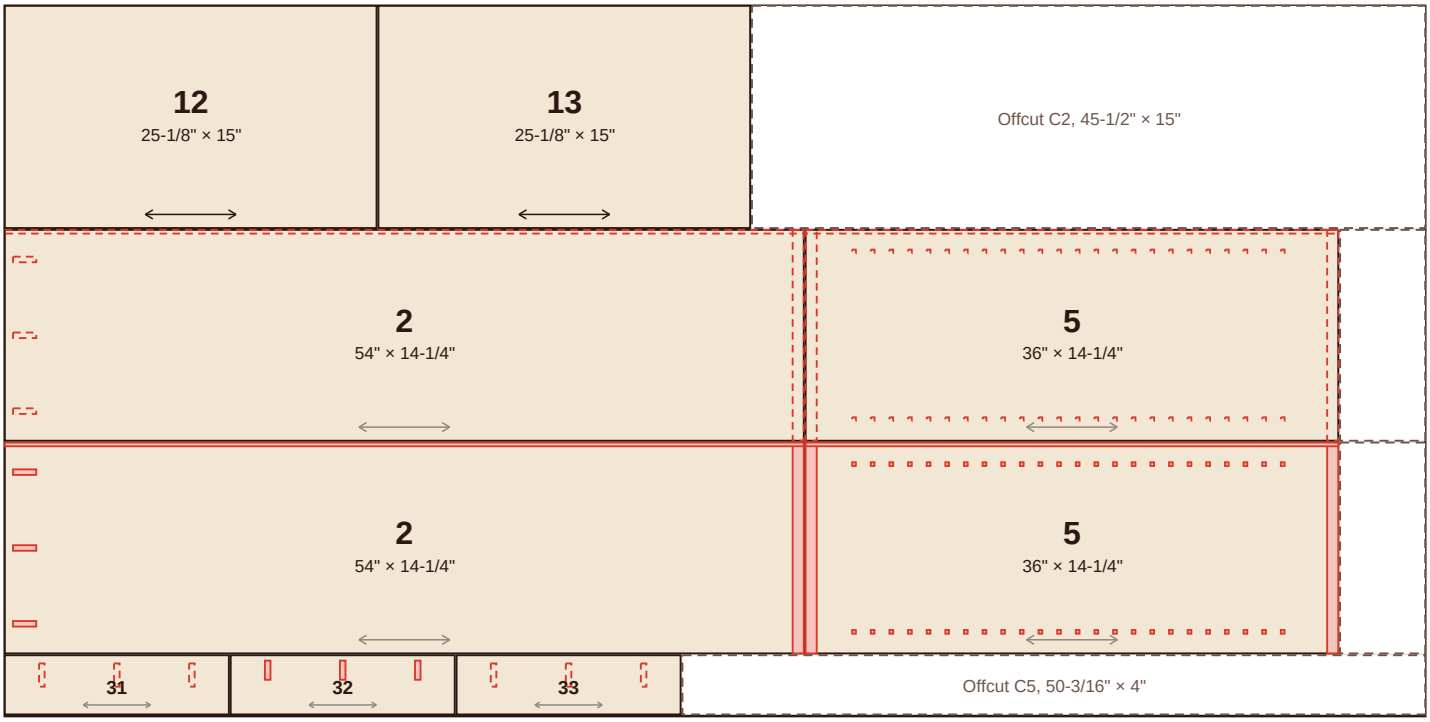



96" long, grain runs left to right

48" wide

| | | | | | |
|---|---|---|---|---|---|
| **3** | Left base side | 25-1/4" × 24" | **4** | Right base side ×2 | 25-1/4" × 24" |
| **11** | Kneehole door ×2 | 28-5/8" × 16-1/16" | **28** | Left base toe-kick cross rail ×2 | 19-1/2" × 4" |
| **29** | Right base toe-kick cross rail ×2 | 19-1/2" × 4" | **30** | Left base toe-kick back rail | 15-1/8" × 4" |
| **34** | Upper left filler | 36" × 1" | **35** | Upper right filler | 36" × 1" |
| **36** | Base left filler | 29-1/4" × 1" | **37** | Base right filler | 29-1/4" × 1" |

## **Sheet C** 3/4" Birch Plywood, 4' × 8' 76% used

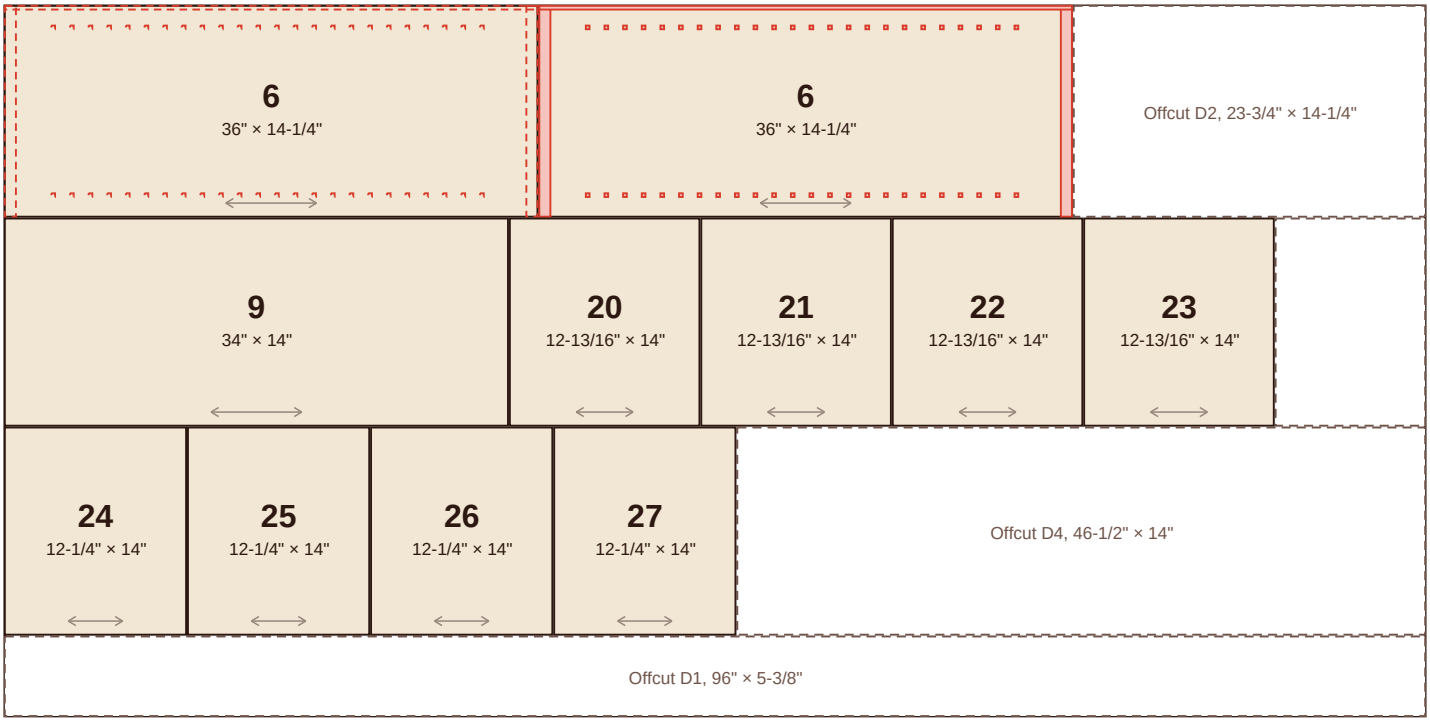



96" long, grain runs left to right 48" wide

| | | | | | |
|---|---|---|---|---|---|
| **2** | Monitor bay side ×2 | 54" × 14-1/4" | **5** | Left upper side ×2 | 36" × 14-1/4" |
| **12** | Left base door | 25-1/8" × 15" | **13** | Right base door | 25-1/8" × 15" |
| **31** | Left base toe-kick front rail | 15-1/8" × 4" | **32** | Right base toe-kick back rail | 15-1/8" × 4" |
| **33** | Right base toe-kick front rail | 15-1/8" × 4" | | | |

## **Sheet D** 3/4" Birch Plywood, 4' × 8'

63% used

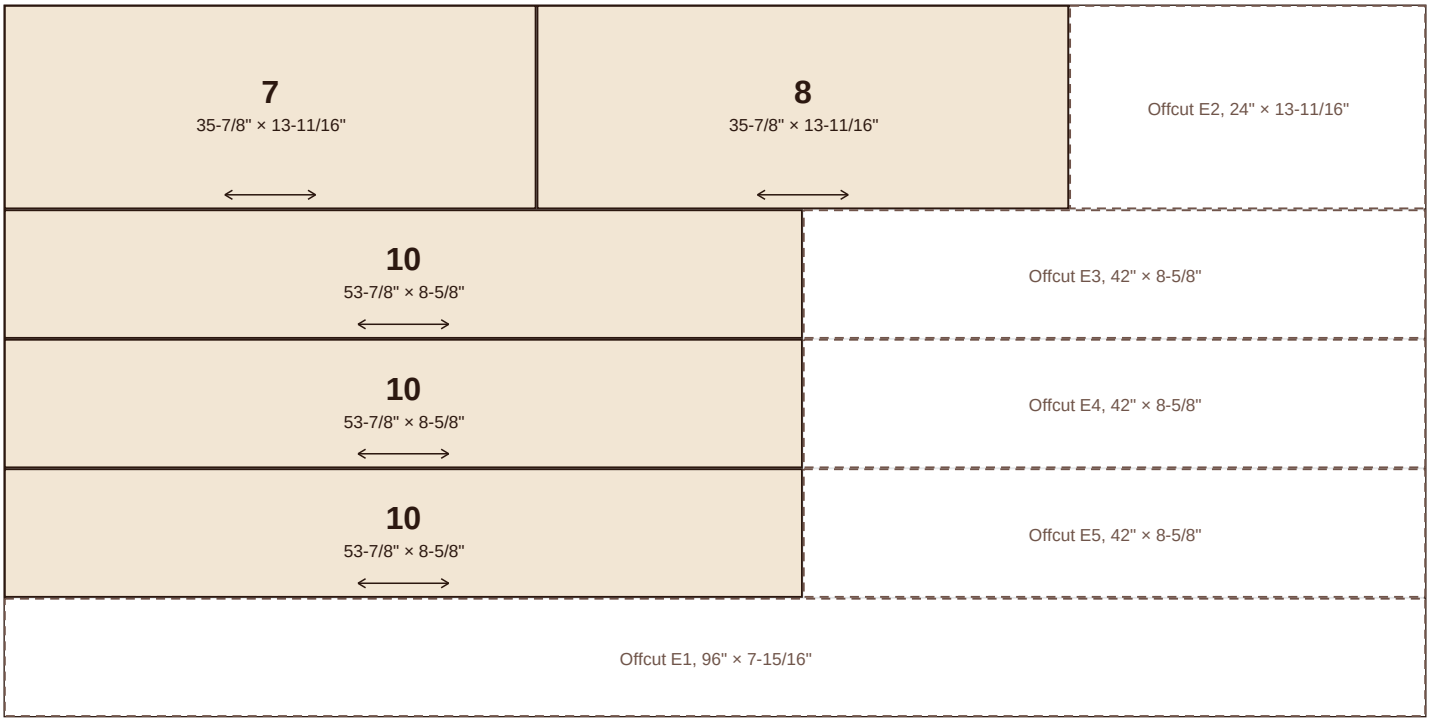



96" long, grain runs left to right

48" wide

| | | | | | |
|---|---|---|---|---|---|
| **6** | Right upper side ×2 | 36" × 14-1/4" | **9** | Monitor bay top | 34" × 14" |
| **20** | Left upper bottom | 12-13/16" × 14" | **21** | Left upper top | 12-13/16" × 14" |
| **22** | Right upper bottom | 12-13/16" × 14" | **23** | Right upper top | 12-13/16" × 14" |
| **24** | Left upper shelf 1 | 12-1/4" × 14" | **25** | Left upper shelf 2 | 12-1/4" × 14" |
| **26** | Right upper shelf 1 | 12-1/4" × 14" | **27** | Right upper shelf 2 | 12-1/4" × 14" |

## **Sheet E** 3/4" Birch Plywood, 4' × 8' 52% used

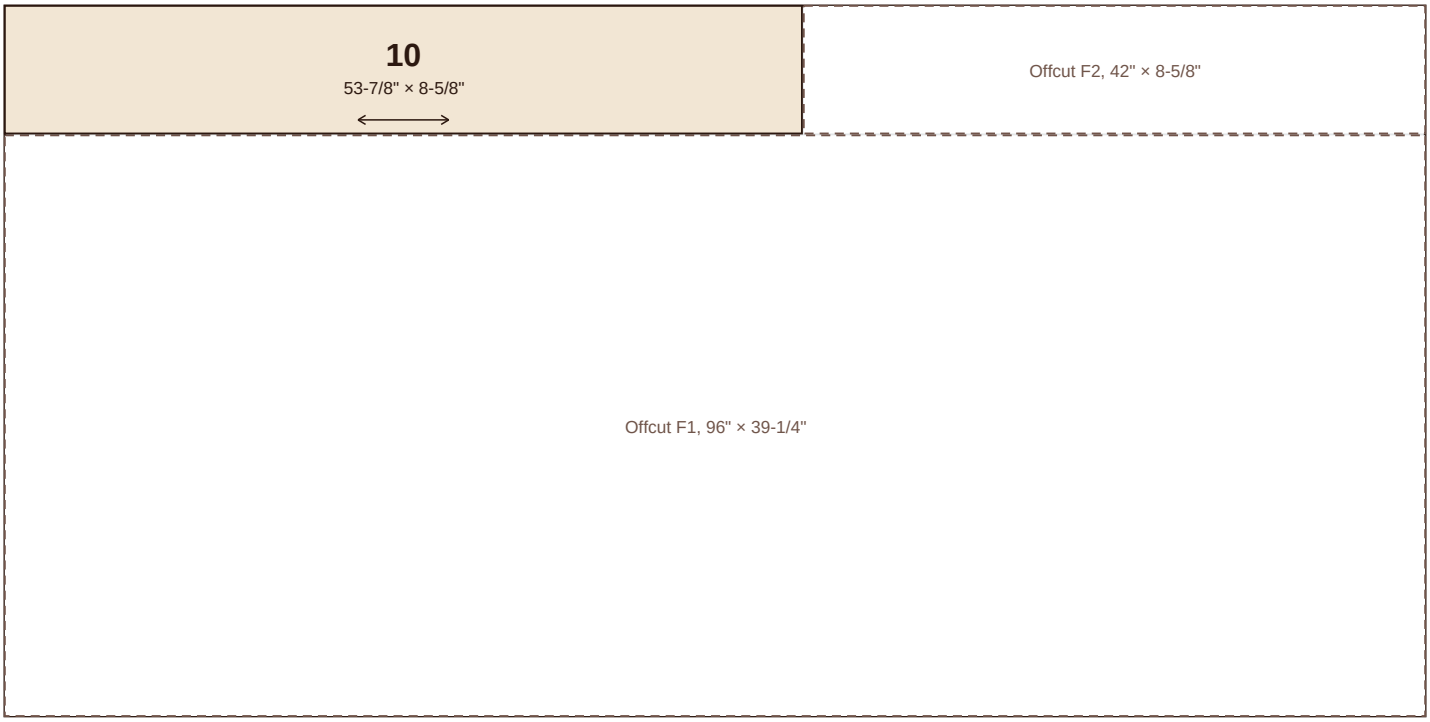



96" long, grain runs left to right 48" wide

| | | | | | |
|---|---|---|---|---|---|
| **7** | Left upper door | 35-7/8" × 13-11/16" | **8** | Right upper door | 35-7/8" × 13-11/16" |
| **10** | Monitor bay door ×3 | 53-7/8" × 8-5/8" | | | |

## **Sheet F** 3/4" Birch Plywood, 4' × 8'

10% used

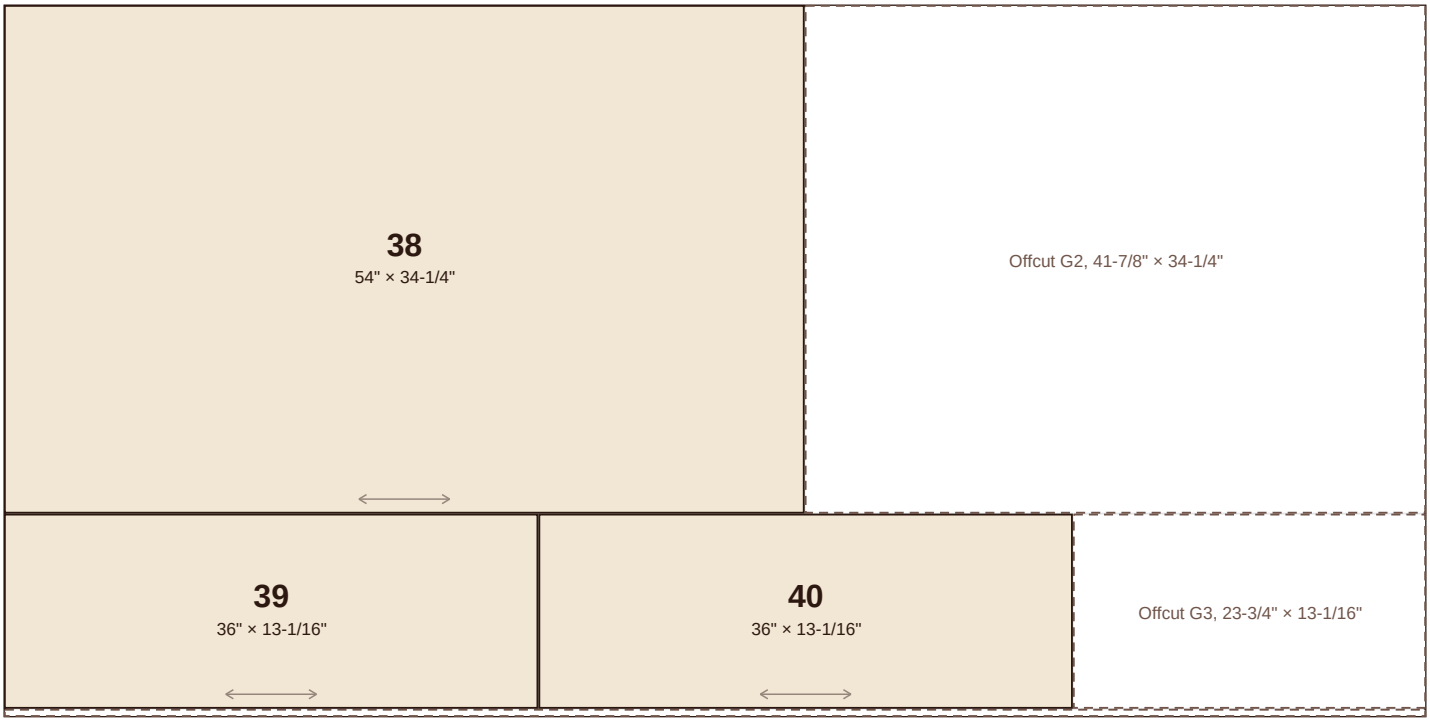



96" long, grain runs left to right

48" wide

**10** Monitor bay door 53-7/8" × 8-5/8"

**Sheet G** 1/4" Birch Plywood, 4' × 8' 61% used

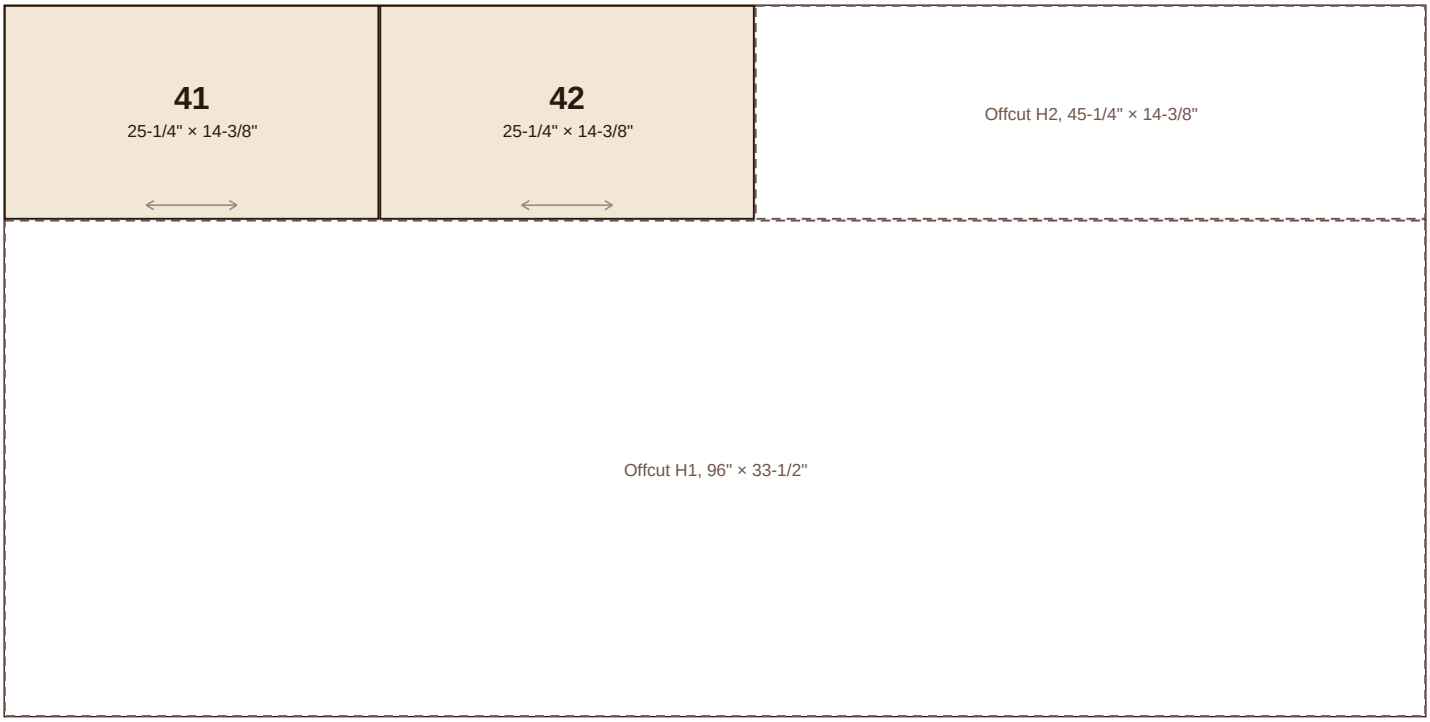



96" long, grain runs left to right 48" wide

| | | | | | |
|---|---|---|---|---|---|
| **38** | Monitor bay back | 54" × 34-1/4" | **39** | Left upper back | 36" × 13-1/16" |
| **40** | Right upper back | 36" × 13-1/16" | | | |

## **Sheet H** 1/4" Birch Plywood, 4' × 8'

16% used




96" long, grain runs left to right

48" wide

**41** Left base back 25-1/4" × 14-3/8"

**42** Right base back 25-1/4" × 14-3/8"

## Cut sequence

Check off each step as you go

- [ ] **1** Get Sheet A: 3/4" Birch Plywood, 4' × 8'.
- [ ] **2** From Sheet A, rip a strip 24" wide for Strip.
- [ ] **3** From Strip (Sheet A), crosscut a piece 64-5/8" long for Desktop.
- [ ] **4** From Offcut A2, crosscut a piece 25-1/4" long for Left base side.
- [ ] **5** From Offcut A1, rip a strip 23-3/4" wide for Strip.
- [ ] **6** From Strip (Sheet A), crosscut a piece 14-1/8" long for Left base bottom.
- [ ] **7** From Offcut A3, crosscut a piece 14-1/8" long for Left base top.
- [ ] **8** From Offcut A3, crosscut a piece 14-1/8" long for Right base bottom.
- [ ] **9** From Offcut A3, crosscut a piece 14-1/8" long for Right base top.
- [ ] **10** From Offcut A3, crosscut a piece 13-9/16" long for Left base shelf.
- [ ] **11** From Offcut A3, crosscut a piece 13-9/16" long for Right base shelf.
- [ ] **12** Get Sheet B: 3/4" Birch Plywood, 4' × 8'.
- [ ] **13** From Sheet B, rip a strip 24" wide for Strip.
- [ ] **14** From Strip (Sheet B), crosscut a piece 25-1/4" long for Left base side.
- [ ] **15** From Offcut B2, crosscut a piece 25-1/4" long for Right base side.
- [ ] **16** From Offcut B2, crosscut a piece 25-1/4" long for Right base side.
- [ ] **17** From Offcut B1, rip a strip 16-1/16" wide for Strip.
- [ ] **18** From Strip (Sheet B), crosscut a piece 28-5/8" long for Kneehole door.
- [ ] **19** From Offcut B3, crosscut a piece 28-5/8" long for Kneehole door.
- [ ] **20** From Offcut B1, rip a strip 4" wide for Strip.
- [ ] **21** From Strip (Sheet B), crosscut a piece 19-1/2" long for Left base toe-kick cross rail.
- [ ] **22** From Offcut B4, crosscut a piece 19-1/2" long for Left base toe-kick cross rail.
- [ ] **23** From Offcut B4, crosscut a piece 19-1/2" long for Right base toe-kick cross rail.
- [ ] **24** From Offcut B4, crosscut a piece 19-1/2" long for Right base toe-kick cross rail.
- [ ] **25** From Offcut B4, crosscut a piece 15-1/8" long for Left base toe-kick back rail.
- [ ] **26** From Offcut B1, rip a strip 1" wide for Strip.
- [ ] **27** From Strip (Sheet B), crosscut a piece 36" long for Upper left filler.
- [ ] **28** From Offcut B5, crosscut a piece 36" long for Upper right filler.
- [ ] **29** From Offcut B1, rip a strip 1" wide for Strip.

- [ ] **30** From Strip (Sheet B), crosscut a piece 29-1/4" long for Base left filler.
- [ ] **31** From Offcut B6, crosscut a piece 29-1/4" long for Base right filler.
- [ ] **32** Get Sheet C: 3/4" Birch Plywood, 4' × 8'.
- [ ] **33** From Sheet C, rip a strip 15" wide for Strip.
- [ ] **34** From Strip (Sheet C), crosscut a piece 25-1/8" long for Left base door.
- [ ] **35** From Offcut C2, crosscut a piece 25-1/8" long for Right base door.
- [ ] **36** From Offcut C1, rip a strip 14-1/4" wide for Strip.
- [ ] **37** From Strip (Sheet C), crosscut a piece 54" long for Monitor bay side.
- [ ] **38** From Offcut C3, crosscut a piece 36" long for Left upper side.
- [ ] **39** From Offcut C1, rip a strip 14-1/4" wide for Strip.
- [ ] **40** From Strip (Sheet C), crosscut a piece 54" long for Monitor bay side.
- [ ] **41** From Offcut C4, crosscut a piece 36" long for Left upper side.
- [ ] **42** From Offcut C1, rip a strip 4" wide for Strip.
- [ ] **43** From Strip (Sheet C), crosscut a piece 15-1/8" long for Left base toe-kick front rail.
- [ ] **44** From Offcut C5, crosscut a piece 15-1/8" long for Right base toe-kick back rail.
- [ ] **45** From Offcut C5, crosscut a piece 15-1/8" long for Right base toe-kick front rail.
- [ ] **46** Get Sheet D: 3/4" Birch Plywood, 4' × 8'.
- [ ] **47** From Sheet D, rip a strip 14-1/4" wide for Strip.
- [ ] **48** From Strip (Sheet D), crosscut a piece 36" long for Right upper side.
- [ ] **49** From Offcut D2, crosscut a piece 36" long for Right upper side.
- [ ] **50** From Offcut D1, rip a strip 14" wide for Strip.
- [ ] **51** From Strip (Sheet D), crosscut a piece 34" long for Monitor bay top.
- [ ] **52** From Offcut D3, crosscut a piece 12-13/16" long for Left upper bottom.
- [ ] **53** From Offcut D3, crosscut a piece 12-13/16" long for Left upper top.
- [ ] **54** From Offcut D3, crosscut a piece 12-13/16" long for Right upper bottom.
- [ ] **55** From Offcut D3, crosscut a piece 12-13/16" long for Right upper top.
- [ ] **56** From Offcut D1, rip a strip 14" wide for Strip.
- [ ] **57** From Strip (Sheet D), crosscut a piece 12-1/4" long for Left upper shelf 1.
- [ ] **58** From Offcut D4, crosscut a piece 12-1/4" long for Left upper shelf 2.
- [ ] **59** From Offcut D4, crosscut a piece 12-1/4" long for Right upper shelf 1.

- [ ] **60** From Offcut D4, crosscut a piece 12-1/4" long for Right upper shelf 2.
- [ ] **61** Get Sheet E: 3/4" Birch Plywood, 4' × 8'.
- [ ] **62** From Sheet E, rip a strip 13-11/16" wide for Strip.
- [ ] **63** From Strip (Sheet E), crosscut a piece 35-7/8" long for Left upper door.
- [ ] **64** From Offcut E2, crosscut a piece 35-7/8" long for Right upper door.
- [ ] **65** From Offcut E1, rip a strip 8-5/8" wide for Strip.
- [ ] **66** From Strip (Sheet E), crosscut a piece 53-7/8" long for Monitor bay door.
- [ ] **67** From Offcut E1, rip a strip 8-5/8" wide for Strip.
- [ ] **68** From Strip (Sheet E), crosscut a piece 53-7/8" long for Monitor bay door.
- [ ] **69** From Offcut E1, rip a strip 8-5/8" wide for Strip.
- [ ] **70** From Strip (Sheet E), crosscut a piece 53-7/8" long for Monitor bay door.
- [ ] **71** Get Sheet F: 3/4" Birch Plywood, 4' × 8'.
- [ ] **72** From Sheet F, rip a strip 8-5/8" wide for Strip.
- [ ] **73** From Strip (Sheet F), crosscut a piece 53-7/8" long for Monitor bay door.
- [ ] **74** Get Sheet G: 1/4" Birch Plywood, 4' × 8'.
- [ ] **75** From Sheet G, rip a strip 34-1/4" wide for Strip.
- [ ] **76** From Strip (Sheet G), crosscut a piece 54" long for Monitor bay back.
- [ ] **77** From Offcut G1, rip a strip 13-1/16" wide for Strip.
- [ ] **78** From Strip (Sheet G), crosscut a piece 36" long for Left upper back.
- [ ] **79** From Offcut G3, crosscut a piece 36" long for Right upper back.
- [ ] **80** Get Sheet H: 1/4" Birch Plywood, 4' × 8'.
- [ ] **81** From Sheet H, rip a strip 14-3/8" wide for Strip.
- [ ] **82** From Strip (Sheet H), crosscut a piece 25-1/4" long for Left base back.
- [ ] **83** From Offcut H2, crosscut a piece 25-1/4" long for Right base back.
- [ ] **84** In Left base side (Sheet A), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **85** In Left base side (Sheet B), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **86** In Right base side (Sheet B), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **87** In Right base side (Sheet B), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **88** In Left upper side (Sheet C), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **89** In Left upper side (Sheet C), cut 3 rabbets to fit the mating parts (sizes under Joinery).

- [ ] **90** In Monitor bay side (Sheet C), cut 2 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **91** In Monitor bay side (Sheet C), cut 2 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **92** In Right upper side (Sheet D), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **93** In Right upper side (Sheet D), cut 3 rabbets to fit the mating parts (sizes under Joinery).
- [ ] **94** In Left base side (Sheet A), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **95** In Left base side (Sheet B), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **96** In Right base side (Sheet B), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **97** In Right base side (Sheet B), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **98** In Left upper side (Sheet C), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **99** In Left upper side (Sheet C), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **100** In Right upper side (Sheet D), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **101** In Right upper side (Sheet D), cut shelf pin holes to fit the mating parts (sizes under Joinery).
- [ ] **102** In Base left filler (Sheet B), cut 5 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **103** In Left base toe-kick front rail (Sheet C), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **104** In Left base toe-kick back rail (Sheet B), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **105** In Left base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **106** In Left base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **107** In Left base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **108** In Left base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **109** In Right base toe-kick front rail (Sheet C), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **110** In Right base toe-kick back rail (Sheet C), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **111** In Right base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **112** In Right base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).

- [ ] **113** In Right base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **114** In Right base toe-kick cross rail (Sheet B), cut 2 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **115** In Base right filler (Sheet B), cut 5 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **116** In Upper left filler (Sheet B), cut 7 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **117** In Upper right filler (Sheet B), cut 7 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **118** In Monitor bay side (Sheet C), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **119** In Monitor bay side (Sheet C), cut 3 pocket holes (Kreg 3/4" setting) to fit the mating parts (sizes under Joinery).
- [ ] **120** Bore 2 hinge cups in Kneehole door: 35 mm across, 1/2" deep, 7/8" in from the left edge to the centre, 3" and 25-5/8" from the top.
- [ ] **121** Bore 2 hinge cups in Kneehole door: 35 mm across, 1/2" deep, 7/8" in from the right edge to the centre, 3" and 25-5/8" from the top.
- [ ] **122** Bore 2 hinge cups in Left base door: 35 mm across, 1/2" deep, 7/8" in from the left edge to the centre, 3" and 22-1/8" from the top.
- [ ] **123** Bore 2 hinge cups in Right base door: 35 mm across, 1/2" deep, 7/8" in from the right edge to the centre, 3" and 22-1/8" from the top.
- [ ] **124** Bore 3 hinge cups in Left upper door: 35 mm across, 1/2" deep, 7/8" in from the left edge to the centre, 3", 17-15/16" and 32-7/8" from the top.
- [ ] **125** Bore 3 hinge cups in Right upper door: 35 mm across, 1/2" deep, 7/8" in from the right edge to the centre, 3", 17-15/16" and 32-7/8" from the top.
- [ ] **126** Bore 3 hinge cups in Monitor bay door: 35 mm across, 1/2" deep, 7/8" in from the left edge to the centre, 3", 26-15/16" and 50-7/8" from the top.
- [ ] **127** Bore 3 hinge cups in Monitor bay door: 35 mm across, 1/2" deep, 7/8" in from the left edge to the centre, 3", 26-15/16" and 50-7/8" from the top.
- [ ] **128** Bore 3 hinge cups in Monitor bay door: 35 mm across, 1/2" deep, 7/8" in from the right edge to the centre, 3", 26-15/16" and 50-7/8" from the top.
- [ ] **129** Bore 3 hinge cups in Monitor bay door: 35 mm across, 1/2" deep, 7/8" in from the right edge to the centre, 3", 26-15/16" and 50-7/8" from the top.

# Setup sheets

Set each machine once, then make every cut on its list

## Setup 1 Get the stock

- [ ] Sheet A: 3/4" Birch Plywood, 4' × 8' — step 1
- [ ] Sheet B: 3/4" Birch Plywood, 4' × 8' — step 12
- [ ] Sheet C: 3/4" Birch Plywood, 4' × 8' — step 32
- [ ] Sheet D: 3/4" Birch Plywood, 4' × 8' — step 46
- [ ] Sheet E: 3/4" Birch Plywood, 4' × 8' — step 61
- [ ] Sheet F: 3/4" Birch Plywood, 4' × 8' — step 71
- [ ] Sheet G: 1/4" Birch Plywood, 4' × 8' — step 74
- [ ] Sheet H: 1/4" Birch Plywood, 4' × 8' — step 80

## Setup 2 Table saw: rip fence at 24"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Sheet A: a strip for Desktop — #1 step 2
- [ ] Sheet B: a strip for Left base side — #3 step 13

## Setup 3 Table saw: rip fence at 23-3/4"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut A1: a strip for Left base bottom — #14 step 5

## Setup 4 Table saw: rip fence at 16-1/16"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut B1: a strip for Kneehole door — #11 step 17

## Setup 5 Table saw: rip fence at 15-1/32"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Sheet C: a strip for Left base door — #12 step 33

## Setup 6 Table saw: rip fence at 14-13/32"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Sheet H: a strip for Left base back — #41 step 81

## Setup 7 Table saw: rip fence at 13-11/16"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Sheet E: a strip for Left upper door — #7 step 62

## Setup 8 Track saw: rip to 34-1/4"

Set the parallel guides at 34-1/4", or mark 34-1/4" from the edge at both ends and lay the track's edge on the marks.

- [ ] Sheet G: a strip for Monitor bay back — #38 step 75

## Setup 9 Table saw: rip fence at 13-1/16"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut G1: a strip for Left upper back — #39 step 77

## Setup 10 Table saw: rip fence at 14-1/4"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut C1: a strip for Monitor bay side — #2 step 36
- [ ] Offcut C1: a strip for Monitor bay side — #2 step 39
- [ ] Sheet D: a strip for Right upper side — #6 step 47

## Setup 11 Table saw: rip fence at 4"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut B1: a strip for Left base toe-kick cross rail — #28 step 20
- [ ] Offcut C1: a strip for Left base toe-kick front rail — #31 step 42

## Setup 12 Table saw: rip fence at 14"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut D1: a strip for Monitor bay top and Left upper shelf 1 — #9, #24 step 50
- [ ] Offcut D1: a strip for Left upper shelf 1 — #24 step 56

## Setup 13 Table saw: rip fence at 8-5/8"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut E1: a strip for Monitor bay door — #10 step 65
- [ ] Offcut E1: a strip for Monitor bay door — #10 step 67
- [ ] Offcut E1: a strip for Monitor bay door — #10 step 69
- [ ] Sheet F: a strip for Monitor bay door — #10 step 72

## Setup 14 Table saw: rip fence at 1"

Measure from the fence to the nearest tooth of the blade, and make a test cut in scrap.

- [ ] Offcut B1: a strip for Upper left filler and Base left filler — #34, #36 step 26
- [ ] Offcut B1: a strip for Base left filler — #36 step 29

## Setup 15 Table saw: crosscut sled, stop at 64-5/8"

Clamp a stop block on the sled's fence 64-5/8" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet A): a piece for Desktop — #1 step 3

## Setup 16 Track saw: crosscut at 54"

Mark 54" from the squared end at both edges and lay the track's edge on the marks.

- [ ] Strip (Sheet G): a piece for Monitor bay back — #38 step 76

## Setup 17 Table saw: crosscut sled, stop at 36"

Clamp a stop block on the sled's fence 36" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet D): a piece for Right upper side — #6 step 48
- [ ] Offcut D2: a piece for Right upper side — #6 step 49
- [ ] Strip (Sheet G): a piece for Left upper back — #39 step 78
- [ ] Offcut G3: a piece for Right upper back — #40 step 79

## Setup 18 Table saw: crosscut sled, stop at 34"

Clamp a stop block on the sled's fence 34" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet D): a piece for Monitor bay top — #9 step 51

## Setup 19 Table saw: crosscut sled, stop at 35-7/8"

Clamp a stop block on the sled's fence 35-7/8" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet E): a piece for Left upper door — #7 step 63
- [ ] Offcut E2: a piece for Right upper door — #8 step 64

## Setup 20 Table saw: crosscut sled, stop at 25-1/4"

Clamp a stop block on the sled's fence 25-1/4" from the kerf, and square one end of each piece first.

- [ ] Offcut A2: a piece for Left base side — #3 step 4
- [ ] Strip (Sheet B): a piece for Left base side — #3 step 14
- [ ] Offcut B2: a piece for Right base side — #4 step 15
- [ ] Offcut B2: a piece for Right base side — #4 step 16
- [ ] Strip (Sheet H): a piece for Left base back — #41 step 82
- [ ] Offcut H2: a piece for Right base back — #42 step 83

## Setup 21 Table saw: crosscut sled, stop at 28-5/8"

Clamp a stop block on the sled's fence 28-5/8" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet B): a piece for Kneehole door — #11 step 18
- [ ] Offcut B3: a piece for Kneehole door — #11 step 19

## Setup 22 Table saw: crosscut sled, stop at 25-1/8"

Clamp a stop block on the sled's fence 25-1/8" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet C): a piece for Left base door — #12 step 34
- [ ] Offcut C2: a piece for Right base door — #13 step 35

## Setup 23 Table saw: crosscut sled, stop at 54"

Clamp a stop block on the sled's fence 54" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet C): a piece for Monitor bay side — #2 step 37
- [ ] Strip (Sheet C): a piece for Monitor bay side — #2 step 40

## Setup 24 Table saw: crosscut sled, stop at 36"

Same setting as setup 17.
Clamp a stop block on the sled's fence 36" from the kerf, and square one end of each piece first.

- [ ] Offcut C3: a piece for Left upper side — #5 step 38
- [ ] Offcut C4: a piece for Left upper side — #5 step 41

## Setup 25 Table saw: crosscut sled, stop at 14-5/32"

Clamp a stop block on the sled's fence 14-5/32" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet A): a piece for Left base bottom — #14 step 6
- [ ] Offcut A3: a piece for Left base top — #15 step 7
- [ ] Offcut A3: a piece for Right base bottom — #16 step 8
- [ ] Offcut A3: a piece for Right base top — #17 step 9

## Setup 26 Table saw: crosscut sled, stop at 13-19/32"

Clamp a stop block on the sled's fence 13-19/32" from the kerf, and square one end of each piece first.

- [ ] Offcut A3: a piece for Left base shelf — #18 step 10
- [ ] Offcut A3: a piece for Right base shelf — #19 step 11

## Setup 27 Table saw: crosscut sled, stop at 12-13/16"

Clamp a stop block on the sled's fence 12-13/16" from the kerf, and square one end of each piece first.

- [ ] Offcut D3: a piece for Left upper bottom — #20 step 52
- [ ] Offcut D3: a piece for Left upper top — #21 step 53
- [ ] Offcut D3: a piece for Right upper bottom — #22 step 54
- [ ] Offcut D3: a piece for Right upper top — #23 step 55

## Setup 28 Table saw: crosscut sled, stop at 12-1/4"

Clamp a stop block on the sled's fence 12-1/4" from the kerf, and square one end of each piece first.

- [ ] Strip (Sheet D): a piece for Left upper shelf 1 — #24 step 57
- [ ] Offcut D4: a piece for Left upper shelf 2 — #25 step 58
- [ ] Offcut D4: a piece for Right upper shelf 1 — #26 step 59
- [ ] Offcut D4: a piece for Right upper shelf 2 — #27 step 60

## Setup 29 Miter saw: stop block at 53-7/8"

Clamp a stop block on the fence 53-7/8" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Strip (Sheet E): a piece for Monitor bay door — #10 step 66
- [ ] Strip (Sheet E): a piece for Monitor bay door — #10 step 68
- [ ] Strip (Sheet E): a piece for Monitor bay door — #10 step 70
- [ ] Strip (Sheet F): a piece for Monitor bay door — #10 step 73

## Setup 30 Miter saw: stop block at 19-1/2"

Clamp a stop block on the fence 19-1/2" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Strip (Sheet B): a piece for Left base toe-kick cross rail — #28 step 21
- [ ] Offcut B4: a piece for Left base toe-kick cross rail — #28 step 22
- [ ] Offcut B4: a piece for Right base toe-kick cross rail — #29 step 23
- [ ] Offcut B4: a piece for Right base toe-kick cross rail — #29 step 24

## Setup 31 Miter saw: stop block at 36"

Clamp a stop block on the fence 36" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Strip (Sheet B): a piece for Upper left filler — #34 step 27

## Setup 32 Miter saw: stop block at 29-1/4"

Clamp a stop block on the fence 29-1/4" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Strip (Sheet B): a piece for Base left filler — #36 step 30

## Setup 33 Miter saw: stop block at 15-5/32"

Clamp a stop block on the fence 15-5/32" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Offcut B4: a piece for Left base toe-kick back rail — #30 step 25
- [ ] Strip (Sheet C): a piece for Left base toe-kick front rail — #31 step 43
- [ ] Offcut C5: a piece for Right base toe-kick back rail — #32 step 44
- [ ] Offcut C5: a piece for Right base toe-kick front rail — #33 step 45

## Setup 34  Miter saw: stop block at 36"

Same setting as setup 31.
Clamp a stop block on the fence 36" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Offcut B5: a piece for Upper right filler  #35 step 28

## Setup 35  Miter saw: stop block at 29-1/4"

Same setting as setup 32.
Clamp a stop block on the fence 29-1/4" from the blade, and square one end of each piece before it goes to the stop.

- [ ] Offcut B6: a piece for Base right filler  #37 step 31

## Setup 36  Table saw: rabbet 3/4" wide, blade 1/4" high

A dado stack 13/16" wide: both outside blades, four 1/8" chippers and a 1/16" chipper.
Bury it in a sacrificial fence so 3/4" of it shows, and raise it 1/4" above the table.

- [ ] Monitor bay side ×2: rabbet at the right end  #2 steps 90, 91
- [ ] Left base side ×2: rabbet at the left end  #3 steps 84, 85
- [ ] Left base side ×2: rabbet at the right end  #3 steps 84, 85
- [ ] Right base side ×2: rabbet at the left end  #4 steps 86, 87
- [ ] Right base side ×2: rabbet at the right end  #4 steps 86, 87
- [ ] Left upper side ×2: rabbet at the left end  #5 steps 88, 89
- [ ] Left upper side ×2: rabbet at the right end  #5 steps 88, 89
- [ ] Right upper side ×2: rabbet at the left end  #6 steps 92, 93
- [ ] Right upper side ×2: rabbet at the right end  #6 steps 92, 93

## Setup 37  Table saw: rabbet 1/4" wide, blade 3/8" high

A dado stack 5/16" wide: both outside blades and a 1/16" chipper.
Bury it in a sacrificial fence so 1/4" of it shows, and raise it 3/8" above the table.

- [ ] Monitor bay side ×2: rabbet on the top edge  #2 steps 90, 91
- [ ] Left base side ×2: rabbet on the top edge  #3 steps 84, 85
- [ ] Right base side ×2: rabbet on the top edge  #4 steps 86, 87
- [ ] Left upper side ×2: rabbet on the top edge  #5 steps 88, 89
- [ ] Right upper side ×2: rabbet on the top edge  #6 steps 92, 93

## Setup 38  Kreg pocket-hole jig: jig at 3/4"

Set the drill guide and the bit's stop collar for 3/4" stock.
Screws: 1-1/4" coarse.

- [ ] Monitor bay side: 3 pocket holes at the left end, on the back  #2 step 118
- [ ] Monitor bay side: 3 pocket holes at the left end, on the face  #2 step 119
- [ ] Left base toe-kick cross rail: 2 pocket holes at the left end, on the back  #28 step 105

- [ ] Left base toe-kick cross rail: 2 pocket holes at the left end, on the face — #28 step 107
- [ ] Left base toe-kick cross rail: 2 pocket holes at the right end, on the back — #28 step 106
- [ ] Left base toe-kick cross rail: 2 pocket holes at the right end, on the face — #28 step 108
- [ ] Right base toe-kick cross rail: 2 pocket holes at the left end, on the back — #29 step 111
- [ ] Right base toe-kick cross rail: 2 pocket holes at the left end, on the face — #29 step 113
- [ ] Right base toe-kick cross rail: 2 pocket holes at the right end, on the back — #29 step 112
- [ ] Right base toe-kick cross rail: 2 pocket holes at the right end, on the face — #29 step 114
- [ ] Left base toe-kick back rail: 3 pocket holes on the top edge, on the face — #30 step 104
- [ ] Left base toe-kick front rail: 3 pocket holes on the top edge, on the back — #31 step 103
- [ ] Right base toe-kick back rail: 3 pocket holes on the top edge, on the face — #32 step 110
- [ ] Right base toe-kick front rail: 3 pocket holes on the top edge, on the back — #33 step 109
- [ ] Upper left filler: 7 pocket holes on the bottom edge, on the back — #34 step 116
- [ ] Upper right filler: 7 pocket holes on the top edge, on the back — #35 step 117
- [ ] Base left filler: 5 pocket holes on the bottom edge, on the back — #36 step 102
- [ ] Base right filler: 5 pocket holes on the top edge, on the back — #37 step 115

## Setup 39 Shelf pin jig: 1/4" holes every 1-1/4"

A 1/4" bit with its stop collar at 11/32" deep.
The rows 1-15/32" in from the front and back edges.
Index the jig off the bottom of each part so the rows line up across the case.

- [ ] Left base side ×2: two rows of 15, 7-9/32" to 24-29/32" up from the floor — #3 steps 94, 95
- [ ] Right base side ×2: two rows of 15, 7-9/32" to 24-29/32" up from the floor — #4 steps 96, 97
- [ ] Left upper side ×2: two rows of 24, 51-9/32" to 80-1/4" up from the floor — #5 steps 98, 99
- [ ] Right upper side ×2: two rows of 24, 51-9/32" to 80-1/4" up from the floor — #6 steps 100, 101

## Setup 40 Drill press or hinge jig: 35 mm cups, 15/32" deep

A 35 mm Forstner bit. The fence so the cup's centre is 7/8" in from the edge: a 3/16" boring distance.
The depth stop at 15/32". Bore a test cup in scrap and check the hinge.

- [ ] Left upper door: 3 cups on the left edge, 3", 17-15/16" and 32-7/8" from the top — #7 step 124
- [ ] Right upper door: 3 cups on the right edge, 3", 17-15/16" and 32-7/8" from the top — #8 step 125
- [ ] Monitor bay door ×2: 3 cups on the left edge, 3", 26-15/16" and 50-7/8" from the top — #10 steps 126, 127
- [ ] Monitor bay door ×2: 3 cups on the right edge, 3", 26-15/16" and 50-7/8" from the top — #10 steps 128, 129
- [ ] Kneehole door: 2 cups on the left edge, 3" and 25-5/8" from the top — #11 step 120
- [ ] Kneehole door: 2 cups on the right edge, 3" and 25-5/8" from the top — #11 step 121
- [ ] Left base door: 2 cups on the left edge, 3" and 22-1/8" from the top — #12 step 122
- [ ] Right base door: 2 cups on the right edge, 3" and 22-1/8" from the top — #13 step 123

# Assembly steps

The order it goes together

**You need at least 6 clamps: 2 of 48" and 4 of 18".**



## 1 Screw together Left base toe-kick

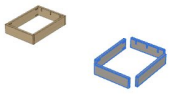
**Parts** Left base toe-kick cross rail ×2 (part 28), Left base toe-kick back rail (part 30), Left base toe-kick front rail (part 31)

**Joints** Left base toe-kick cross rail and Left base toe-kick back rail: 4 Kreg pocket screws 1-1/4" coarse thread, no glue

Left base toe-kick cross rail and Left base toe-kick front rail: 4 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 2 Screw together Right base toe-kick

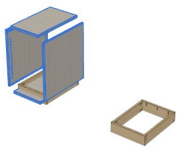
**Parts** Right base toe-kick cross rail ×2 (part 29), Right base toe-kick back rail (part 32), Right base toe-kick front rail (part 33)

**Joints** Right base toe-kick cross rail and Right base toe-kick back rail: 4 Kreg pocket screws 1-1/4" coarse thread, no glue

Right base toe-kick cross rail and Right base toe-kick front rail: 4 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 3 Glue up Left base

**Parts** Left base side ×2 (part 3), Left base bottom (part 14), Left base top (part 15)

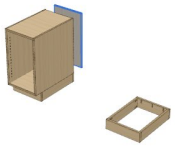
**Order** Start with Left base side. Add Left base bottom and Left base top. Close it with Left base side.

**Joints** Left base side and Left base bottom: 2 rabbets, glue

Left base side and Left base top: 2 rabbets, glue

**Glue** Glue every joint.

**Clamps** 6 clamps of 18".

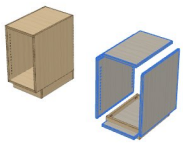


## 4 Back on Left base

**Parts** Left base back (part 41)

**Glue** Glue in the rabbets, then brads every 6" into the sides and the back edges of what it covers. Square the case first: the back holds it.

**Clamps** No clamps.



## 5 Glue up Right base

**Parts** Right base side ×2 (part 4), Right base bottom (part 16), Right base top (part 17)

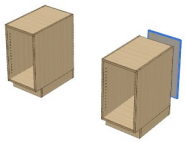
**Order** Start with Right base side. Add Right base bottom and Right base top. Close it with Right base side.

**Joints** Right base side and Right base bottom: 2 rabbets, glue

Right base side and Right base top: 2 rabbets, glue

**Glue** Glue every joint.

**Clamps** 6 clamps of 18".

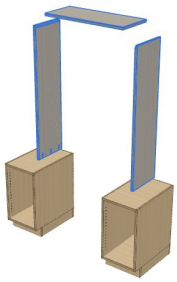


## 6 Back on Right base

**Parts** Right base back (part 42)

**Glue** Glue in the rabbets, then brads every 6" into the sides and the back edges of what it covers. Square the case first: the back holds it.

**Clamps** No clamps.



## 7 Glue up Monitor bay

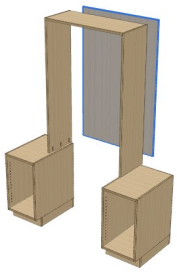
**Parts** Monitor bay side ×2 (part 2), Monitor bay top (part 9)

**Order** Start with Monitor bay side. Add Monitor bay top. Close it with Monitor bay side.

**Joints** Monitor bay side and Monitor bay top: 2 rabbets, glue

**Glue** Glue every joint.

**Clamps** 2 clamps of 48".

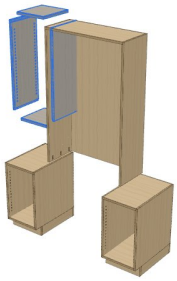


## 8 Back on Monitor bay

**Parts** Monitor bay back (part 38)

**Glue** Glue in the rabbets, then brads every 6" into the sides and the back edges of what it covers. Square the case first: the back holds it.

**Clamps** No clamps.



## 9 Glue up Left upper

**Parts** Left upper side ×2 (part 5), Left upper bottom (part 20), Left upper top (part 21)

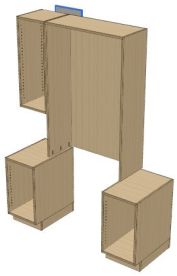
**Order** Start with Left upper side. Add Left upper bottom and Left upper top. Close it with Left upper side.

**Joints** Left upper side and Left upper bottom: 2 rabbets, glue

Left upper side and Left upper top: 2 rabbets, glue

**Glue** Glue every joint.

**Clamps** 4 clamps of 18".

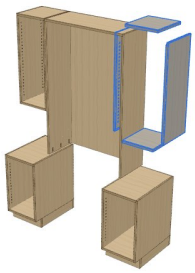


## 10 Back on Left upper

**Parts** Left upper back (part 39)

**Glue** Glue in the rabbets, then brads every 6" into the sides and the back edges of what it covers. Square the case first: the back holds it.

**Clamps** No clamps.



## 11 Glue up Right upper

**Parts** Right upper side ×2 (part 6), Right upper bottom (part 22), Right upper top (part 23)

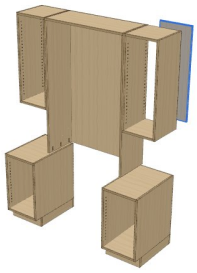
**Order** Start with Right upper side. Add Right upper bottom and Right upper top. Close it with Right upper side.

**Joints** Right upper side and Right upper bottom: 2 rabbets, glue

Right upper side and Right upper top: 2 rabbets, glue

**Glue** Glue every joint.

**Clamps** 4 clamps of 18".

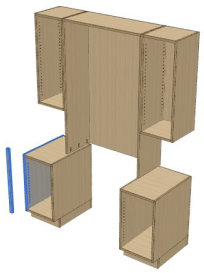


## 12 Back on Right upper

**Parts** Right upper back (part 40)

**Glue** Glue in the rabbets, then brads every 6" into the sides and the back edges of what it covers. Square the case first: the back holds it.

**Clamps** No clamps.



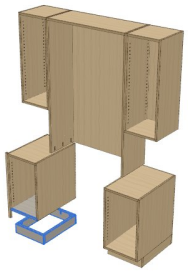
## 13 Screw Base left filler to Left base

**Parts** Left base side (part 3), Base left filler (part 36)

**Joints** Base left filler and Left base side: 5 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 14 Screw Left base toe-kick to Left base

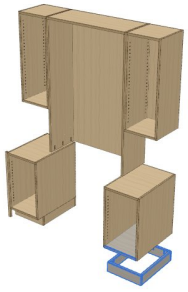
**Parts** Left base bottom (part 14), Left base toe-kick cross rail ×2 (part 28), Left base toe-kick back rail (part 30), Left base toe-kick front rail (part 31)

**Joints** Left base toe-kick back rail and Left base bottom: 3 Kreg pocket screws 1-1/4" coarse thread, no glue

Left base toe-kick front rail and Left base bottom: 3 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 15 Screw Right base toe-kick to Right base

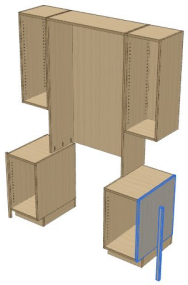
**Parts** Right base bottom (part 16), Right base toe-kick cross rail ×2 (part 29), Right base toe-kick back rail (part 32), Right base toe-kick front rail (part 33)

**Joints** Right base toe-kick back rail and Right base bottom: 3 Kreg pocket screws 1-1/4" coarse thread, no glue

Right base toe-kick front rail and Right base bottom: 3 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



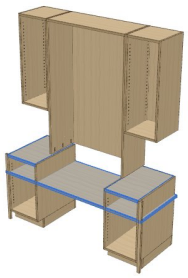
## 16 Screw Base right filler to Right base

**Parts** Right base side (part 4), Base right filler (part 37)

**Joints** Base right filler and Right base side: 5 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 17 Screw Desktop to Left base and Right base

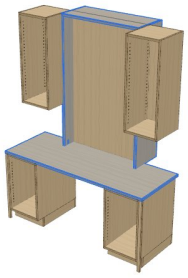
**Parts** Desktop (part 1), Left base top (part 15), Right base top (part 17)

**Joints** Left base top and Desktop: 4 pan head screws #8 × 1-1/4", in slotted holes, no glue

Right base top and Desktop: 4 pan head screws #8 × 1-1/4", in slotted holes, no glue

**Glue** No glue: the screws hold it.

**Clamps** No clamps.



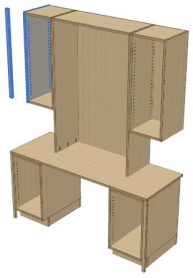
## 18 Screw Monitor bay to Desktop

**Parts** Desktop (part 1), Monitor bay side ×2 (part 2), Monitor bay top (part 9)

**Joints** Monitor bay side and Desktop: 6 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



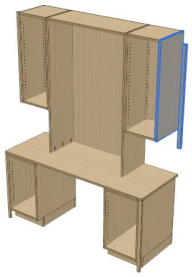
## 19 Screw Upper left filler to Left upper

**Parts** Left upper side (part 5), Upper left filler (part 34)

**Joints** Upper left filler and Left upper side: 7 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



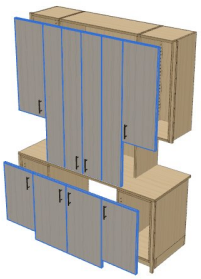
## 20 Screw Upper right filler to Right upper

**Parts** Right upper side (part 6), Upper right filler (part 35)

**Joints** Upper right filler and Right upper side: 7 Kreg pocket screws 1-1/4" coarse thread, no glue

**Glue** No glue: the pocket screws hold it.

**Clamps** No clamps.



## 21 Hang the doors

**Parts** Left upper door (part 7), Right upper door (part 8), Monitor bay door ×4 (part 10), Kneehole door ×2 (part 11), Left base door (part 12), Right base door (part 13)

**What** Kneehole door: 2 hinges into the cups, hung on the left. Fit its pocket door set in the bay first.

Kneehole door: 2 hinges into the cups, hung on the right.

Left base door: 2 hinges into the cups, hung on the left.

Right base door: 2 hinges into the cups, hung on the right.

Monitor bay door: 3 hinges into the cups, hung on the left. Fit its pocket door set in the bay first.

Monitor bay door: 3 hinges into the cups, hung on the left.

Monitor bay door ×2: 3 hinges into the cups, hung on the right.

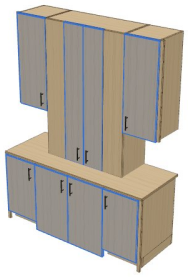
Left upper door: 3 hinges into the cups, hung on the left.

Right upper door: 3 hinges into the cups, hung on the right.

**Glue** No glue.

**Clamps** No clamps.

Screw the mounting plates to the case, press each hinge into its cup and screw it, clip the door on, then set the gaps even with the hinges' screws.



## 22 Pulls

**Parts** Left upper door (part 7), Right upper door (part 8), Monitor bay door ×2 (part 10), Kneehole door ×2 (part 11), Left base door (part 12), Right base door (part 13)

**What** 8 pulls on 8 fronts.

**Glue** No glue.

**Clamps** No clamps.

Drill from the front with a block clamped behind, so the back face doesn't tear out.



## 23 Shelves on their pins

**Parts** Left base shelf (part 18), Right base shelf (part 19), Left upper shelf 1 (part 24), Left upper shelf 2 (part 25), Right upper shelf 1 (part 26), Right upper shelf 2 (part 27)

**What** 24 shelf pins, 4 under each of the 6 shelves.

**Glue** No glue.

**Clamps** No clamps.

Push the pins into the holes at the same height each side, then set the shelf on them.