UNIT5.xyz

# Assembly guide

Two people, one drill, about five hours. Every part has a letter printed on it; the list for each step tells you which ones you need.

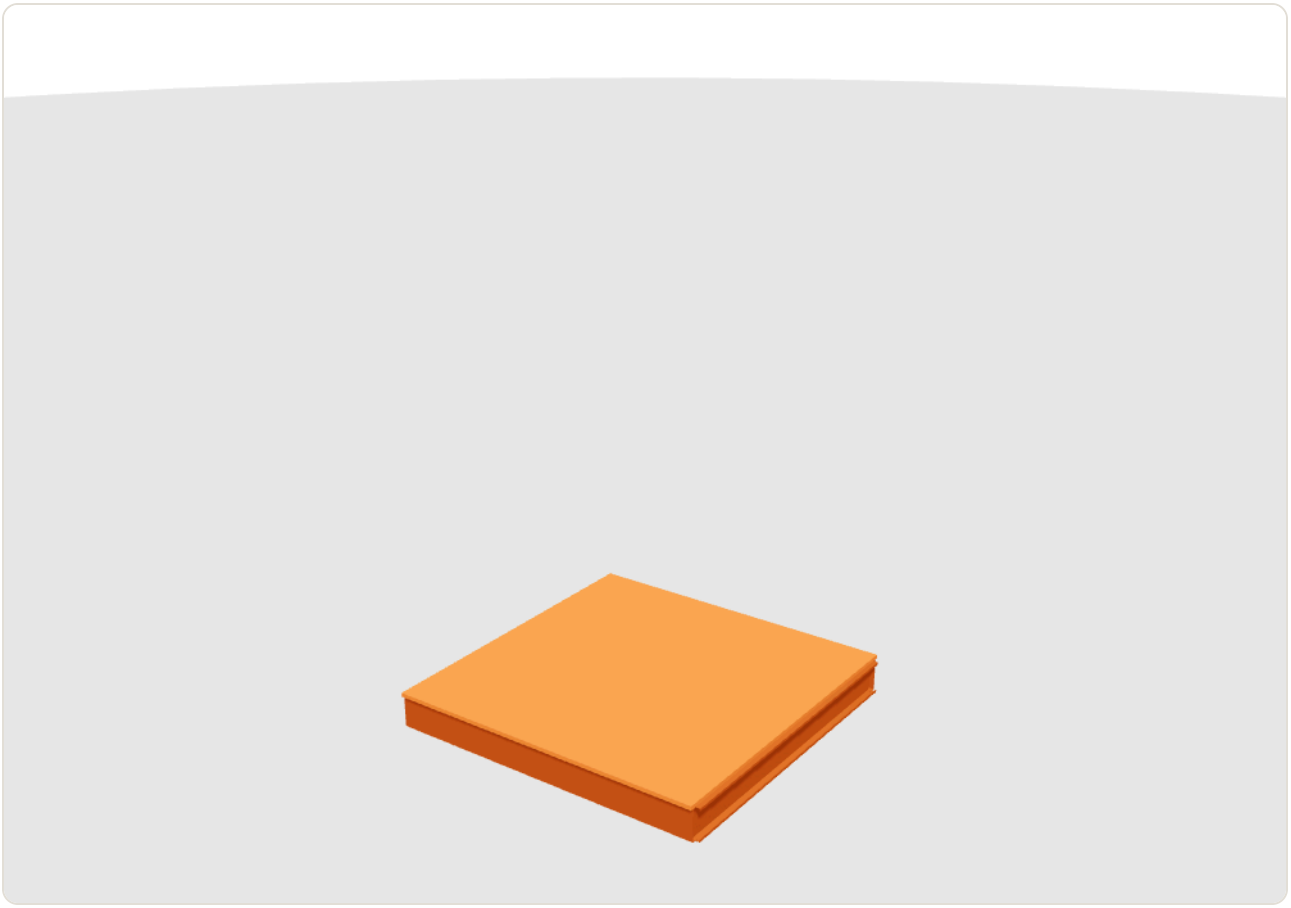
Rev P1 · Preliminary · PDF

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## Before you start

- Check local setbacks and HOA rules. At 25 sq ft, UNIT5.xyz is under the size that needs a building permit almost everywhere (120 or 200 sq ft).
- Pad: 4" concrete, 72" × 72" (6" past the framing on every side), level within 1/4". Or use the steel floor kit on compacted gravel or pavers, with the ground-anchor kit.
- Tools: drill/driver (the bits are in the hardware box), 4 ft level, tape, step ladder, hammer drill + 3/8" and 1/2" masonry bits (pad installs), gloves, glasses.
- Don't build in winds over 20 mph. Painted panels catch the wind.

## 1 Prepare the base and check your parts



Pick a level spot with 3 ft of clearance on every side. UNIT5.xyz sits on a 4" concrete pad, on pavers set on compacted gravel, or on the optional steel floor kit. Open the crate, lay the parts out by their letter, and check them against the parts list. You need: a drill/driver, the two nut-setter bits in the hardware box, a 4 ft level, a tape measure, a step ladder, gloves and safety glasses. Two people.

## 2 Build the back wall frame



On flat ground, lay the two 60" tracks flanges-up, 77 5/16" apart outside to outside. Drop the four 77 3/16" studs into the tracks (the two end studs face in, the two middle studs at 20" from each end). Fasten every stud to both tracks with two #10 framing screws per side. Snap the three girt blocks in at mid-height and screw their tabs to the studs.

**Parts:** F ×4 H ×2 O ×2 P ×1 F2 ×32

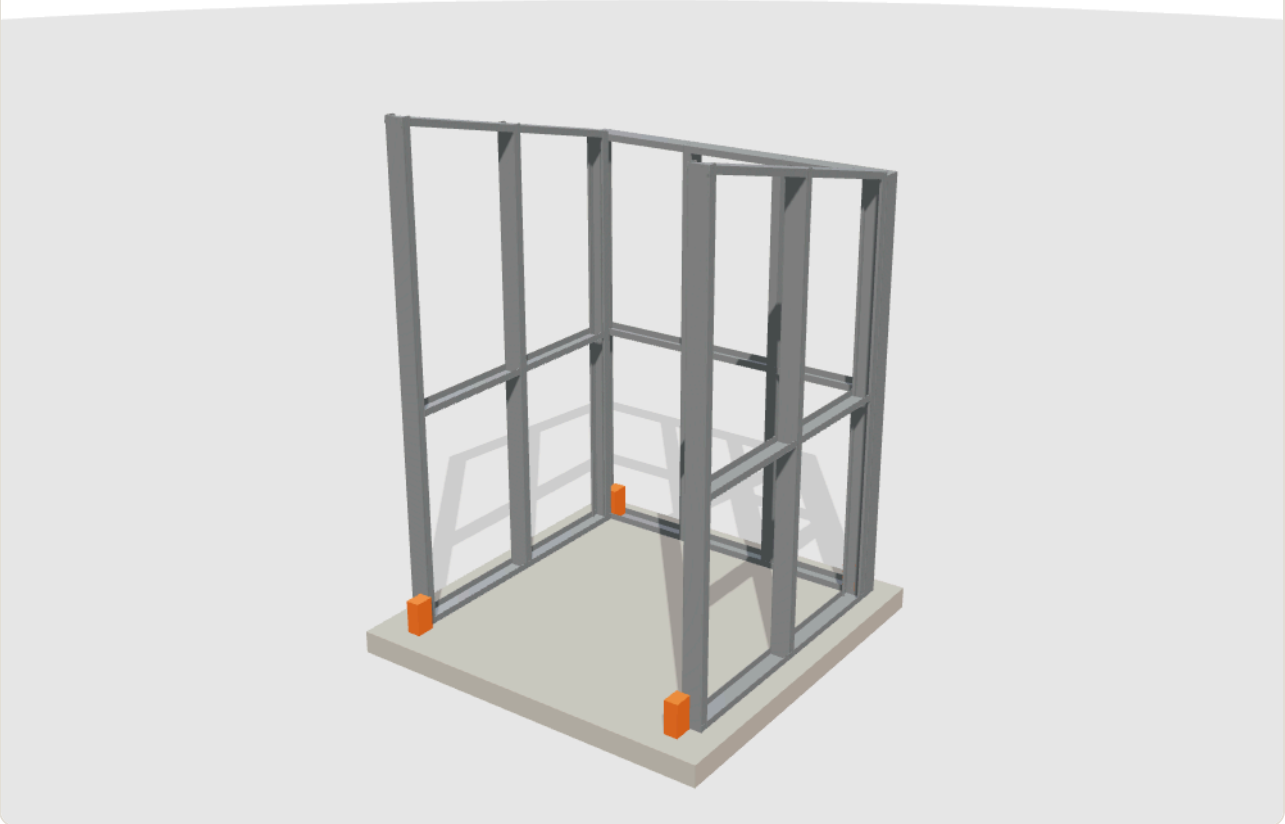
# 3 Build the two side wall frames



Each side has a level bottom track, a sloped top track (the end marked HI goes to the front) and three angle-cut studs: tall at the front, middle in the centre, short at the back. Screw studs to tracks, then add the two girt blocks. Build both sides; they are mirror images.

**Parts:** E ×2 D ×2 C ×2 J ×2 I ×2 N ×2 M ×2 F2 ×40

# 4 Stand the walls and join the corners



Stand the back wall on the pad, then a side wall against it. Clamp the corner flush and drive four #10 screws through the side end stud into the back corner stud. Add the other side. Anchor the bottom tracks: two 3/8" anchors per wall. Set a hold-down inside the back end stud of each side wall, screw it through the stud web (six #10) and anchor it with a 1/2" wedge anchor.

**Parts:** **AJ ×4** F2 ×40, F4 ×6, F5 ×2, hold-downs AJ ×2

# 5 Build and stand the front wall



Lay out the front frame: two 88 7/8" corner studs, the two boxed door jambs (stud plus track, screwed together every 12"), the boxed header at 72", and the 60" top track. Stand it between the side walls and join both front corners with four screws each. Measure the two diagonals across the bottom corners: they should match within 1/8" (84 7/8" each). Anchor the two short bottom tracks and set the two front hold-downs the same way as the back ones. The opening must measure 48" wide by 72" tall.

**Parts:** B ×4 | A ×2 | Q ×2 | H ×1 | K ×1 | L ×1 | F2 ×64, F4 ×2, F5 ×2, hold-downs AJ ×2

# 6 Set the roof purlins



Set the three 72" purlins: the front one on the front wall, the middle one across the side walls at their centre stud, the back one on the back wall. Each overhangs 6" past both side walls. Fasten each end with a purlin clip (four screws). Re-check both diagonals before going on - the panels lock the frame square.

**Parts:** G ×3 | Al ×6 | F2 ×24, clips Al

# 7 Panel the back wall



Start at the back left corner. Stand the first 80 1/2" panel with its tall rib at the corner, bottom 1/4" above the slab, and screw it at the bottom track, the girt and the purlin (two screws per row, in the flat beside each rib). Lap each next panel over the last rib. Five panels cover the back.

**Parts:** W ×5 F1 ×30

# 8 Panel the side walls



The side panels are cut on a slope at the top and numbered 1 to 5 from back to front. Start at the back corner with panel 1 and work toward the front. Screw at the bottom track, the girt and the sloped top track.

**Parts:** X ×2 V ×2 U ×2 T ×2 S ×2 F1 ×60

# 9 Panel the front



Fit the two 6" jamb strips beside the opening, then the four short header panels above it. Screw the header panels into the header and the front purlin.

**Parts:** R ×2 Z ×4 F1 ×24

# 10 Roof



Lay foam closure strips on the front and back purlins. Put butyl tape along each side lap. Starting at the left, set six 71 3/8" roof panels so they run about 5 5/8" past the front wall and 2 5/8" past the back wall. Screw through the flat at every purlin, three screws per panel per purlin. Stitch each side lap every 12".

**Parts:** **Y ×6** F1 ×54, F3 ×30, C1, C2

# 11 Trim and vents



Fit the vented closure screens in the gap above each side wall. Then add the rake fascia on both sides, the drip trim front and back, the four corner trims and the door trim. Stitch-screw trim every 12". The look comes from straight trim lines: snap a chalk line before you screw.

**Parts:** AH ×2 | AG ×2 | AE ×2 | AC ×2 | AB ×2 | AA ×2 | AD ×2 | AF ×1 | F3 ×80, C3

## 12 Hang the roll-up door



Bolt the door brackets to the jambs inside, 87 1/2" to the top of the bracket. Lift the coiled door onto the brackets (two people), screw the guides to the jambs, tension the spring per the door instructions and fit the stops. Run it up and down. Fit the lock hasp.

**Parts:** **AK ×1** door hardware (in door box), K3

## 13 Add-ons



Mount the solar rails across the purlins and bolt the panel on, then run the cable through the roof gland to the power station. Fit the LED light under the middle purlin and the shelving against the back and side walls. Done.

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## Parts list

| LETTER | PART | QTY |
|---|---|---|
| **A** | Track, 362T125-54 x 89" | 2 |
| **B** | Stud, 362S162-54 x 88 7/8" | 4 |
| **C** | Stud, 362S162-54 x 88 1/8" (11.3° top cut; long point 88 1/8", short point 87 13/16") | 2 |
| **D** | Stud, 362S162-54 x 82 7/8" (11.3° top cut; long point 82 7/8", short point 82 9/16") | 2 |
| **E** | Stud, 362S162-54 x 77 15/16" (11.3° top cut; long point 77 15/16", short point 77 5/8") | 2 |
| **F** | Stud, 362S162-54 x 77 3/16" | 4 |

| LETTER | PART | QTY |
|---|---|---|
| **G** | Purlin, 362S162-54 x 72" | 3 |
| **H** | Track, 362T125-54 x 60" | 3 |
| **I** | Track, 362T125-54 x 53 9/16" (ends cut 11.3°) | 2 |
| **J** | Track, 362T125-54 x 52 1/2" | 2 |
| **K** | Track, 362T125-54 x 48" | 1 |
| **L** | Stud, 362S162-54 x 48" | 1 |
| **M** | Girt block, 362T125-54 x 27 5/8", 1 1/2" tab bent 90° each end (clear span 24 5/8") | 2 |
| **N** | Girt block, 362T125-54 x 26", 1 1/2" tab bent 90° each end (clear span 23") | 2 |
| **O** | Girt block, 362T125-54 x 21 3/8", 1 1/2" tab bent 90° each end (clear span 18 3/8") | 2 |
| **P** | Girt block, 362T125-54 x 19 3/4", 1 1/2" tab bent 90° each end (clear span 16 3/4") | 1 |
| **Q** | Track, 362T125-54 x 6" | 2 |
| **R** | Jamb strip (ripped) x 92 11/16", 6" cover, 26 ga, painted | 2 |
| **S** | Side panel #5 (1 left + 1 right, handed), 86 3/8" to 88 3/4", top cut on slope, 12" cover, 26 ga, painted | 2 |
| **T** | Side panel #4 (1 left + 1 right, handed), 83 15/16" to 86 3/8", top cut on slope, 12" cover, 26 ga, painted | 2 |
| **U** | Side panel #3 (1 left + 1 right, handed), 81 9/16" to 83 15/16", top cut on slope, 12" cover, 26 ga, painted | 2 |
| **V** | Side panel #2 (1 left + 1 right, handed), 79 1/8" to 81 9/16", top cut on slope, 12" cover, 26 ga, painted | 2 |
| **W** | Wall panel x 80 1/2", 12" cover, 26 ga, painted | 5 |
| **X** | Side panel #1 (1 left + 1 right, handed), 76 3/4" to 79 1/8", top cut on slope, 12" cover, 26 ga, painted | 2 |
| **Y** | Roof panel x 71 3/8", 12" cover, 26 ga, painted | 6 |
| **Z** | Wall panel x 20 15/16", 12" cover, 26 ga, painted | 4 |
| **AA** | Corner trim 2.5x2.5", 26 ga x 93 11/16" (incl. 1" lap) | 2 |
| **AB** | Corner trim 2.5x2.5", 26 ga x 81 11/16" (incl. 1" lap) | 2 |
| **AC** | Eave drip trim, 26 ga x 73 3/8" (incl. 1" lap) | 2 |

| LETTER | PART | QTY |
|---|---|---|
| **AD** | Door jamb trim, 26 ga x 73" (incl. 1" lap) | 2 |
| **AE** | Rake fascia trim, 26 ga, 6" face x 72 3/8" (incl. 1" lap) | 2 |
| **AF** | Door head trim, 26 ga x 53 3/8" (incl. 1" lap) | 1 |
| **AG** | Vented closure screen, side gap 3.95" tall, bay 2 from back | 2 |
| **AH** | Vented closure screen, side gap 3.95" tall, bay 1 from back | 2 |
| **AI** | Purlin clip, 16 ga angle 3x3x3.5" | 6 |
| **AJ** | Hold-down, 12 ga, nests in the side-wall end stud, 6 #10 through the web, 1/2" anchor hole | 4 |
| **AK** | Roll-up door 4'x6', 26 ga curtain, torsion spring, slide latch | 1 |
| **F1** | Panel screw #12-14 x 1" self-drilling, hex washer head, bonded EPDM washer, painted to match | 240 |
| **F2** | Framing screw #10-16 x 3/4" self-drilling, hex washer head, zinc | 300 |
| **F3** | Stitch screw #14 x 7/8" lap tek, painted to trim | 120 |
| **F4** | Wedge anchor 3/8" x 3", zinc (pad installs: 2 per wall) | 8 |
| **F5** | Wedge anchor 1/2" x 3 3/4", 2 1/4" embed (corner hold-downs) | 4 |
| **C1** | Foam outside closure for 7/8" rib profile, 36" sticks | 4 |
| **C2** | Butyl tape 1/8" x 1", 45 ft roll | 1 |
| **C3** | Polyether sealant 10 oz, color-matched | 1 |
| **K1** | Nut-setter bits 5/16" (2) + 1/4" (1), magnetic | 1 |
| **K2** | Assembly guide (printed), parts map, QR to video | 1 |
| **K3** | Lock hasp for disc lock, 11 ga, zinc | 1 |

## Care

Rinse the panels once a year. Touch up scratches with the matching paint pen. Keep the door guides clean and spray them with silicone each spring. Check the anchor nuts after the first big storm.