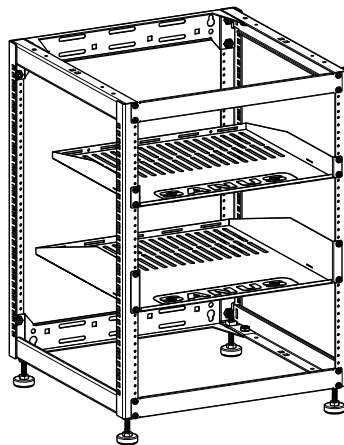# SANUS®

CFR1615/ CFR1620
Instruction Manual

We are here to help!
Please contact Customer Service with any questions.
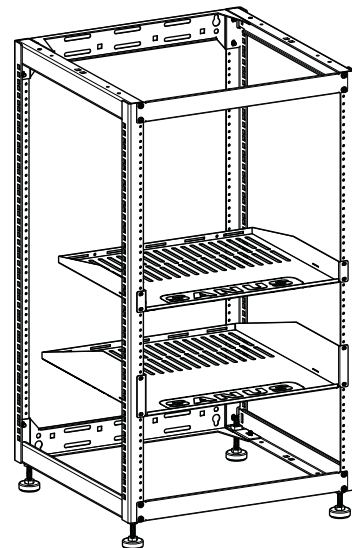
sanus.com

Customer Service
Americas: 800-359-5520 • 952-225-6013 • info@sanus.com
Europe, Middle East, and Africa: +31 (0) 495 580 852 • europe.sanus@milestone.com
Asia Pacific: 86 755 8996 9226 • sanus.ap@milestone.com

SANUS • 6436 City West Parkway • Eden Prairie, MN 55344 USA

Specifications

✗ Weight capacity free standing or stacked-DO NOT EXCEED: 272 kg (600 lb.) includes any components or accessories
✗ Weight capacity wall mounted-DO NOT EXCEED: 90.7 kg (200 lb.) includes any components or accessories
✗ Do not stack more than 2 rack assemblies

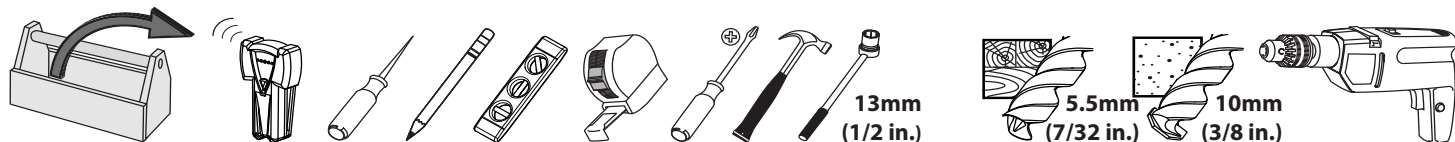The CFR16 series is designed to support audio/video equipment.

⚠ **CAUTION:** If free standing, to prevent tipping, always load the rack from the bottom up, and load the heaviest item in the rack first.

If free standing, 50% of the total weight should be mounted in the lower 1/3 of the rack.

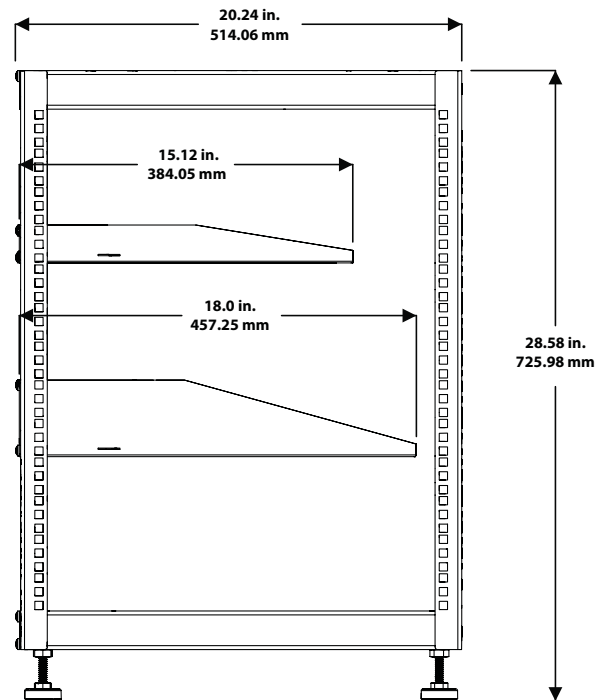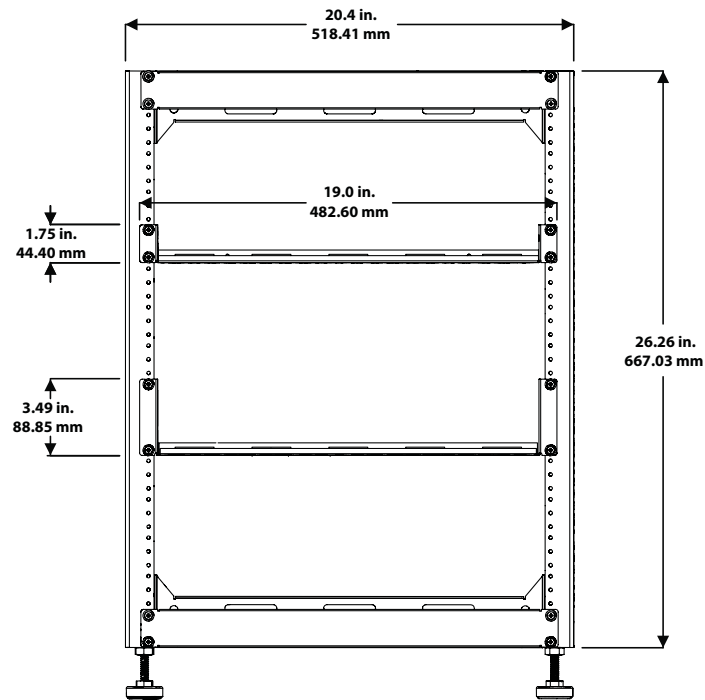If wall mounted, weight can be distributed as required.

⚠ **CAUTION:** Avoid potential personal injuries and property damage!

✗ Do not use this product for any purpose not explicitly specified by manufacturer
✗ The wall must be capable of supporting five times the weight of the rack and components or accessories combined
✗ If you do not understand these instructions, or have doubts about the safety of the installation, assembly or use of this product, contact Customer Service or call a qualified contractor
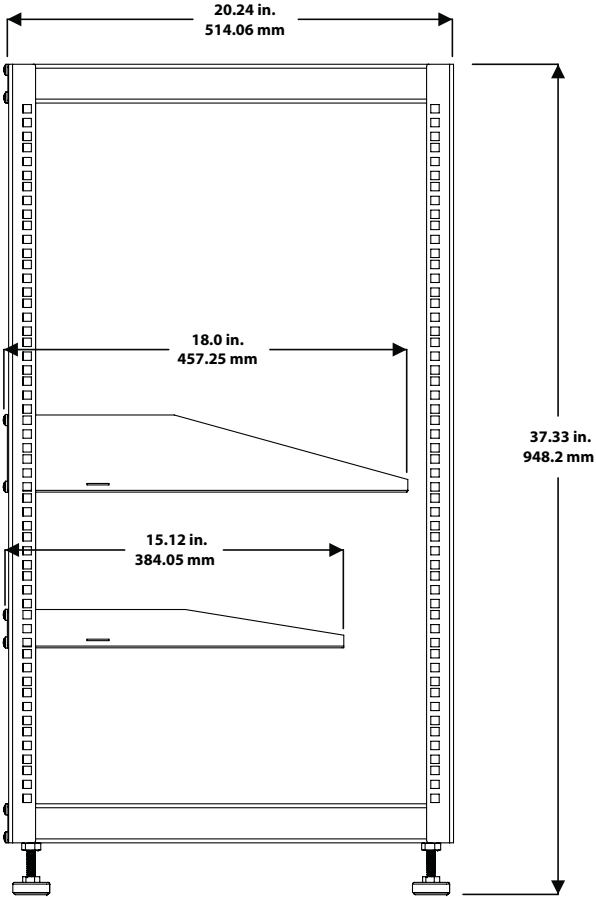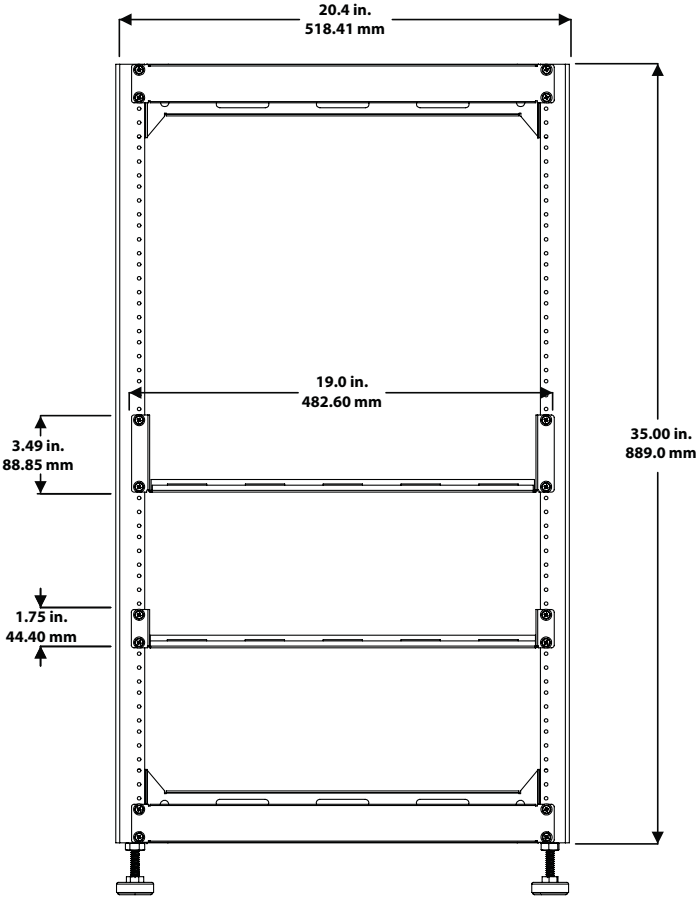✗ Manufacturer is not responsible for damage or injury caused by incorrect assembly or use

Required Tools

13mm (1/2 in.)   **5.5mm (7/32 in.)**   **10mm (3/8 in.)**

Technical Specifications CFR1615

20.4 in.
518.41 mm

20.24 in.
514.06 mm

19.0 in.
482.60 mm

15.12 in.
384.05 mm

1.75 in.
44.40 mm

26.26 in.
667.03 mm

18.0 in.
457.25 mm

3.49 in.
88.85 mm

28.58 in.
725.98 mm

Technical Specifications CFR1620

20.4 in.
518.41 mm

19.0 in.
482.60 mm

3.49 in.
88.85 mm

1.75 in.
44.40 mm

35.00 in.
889.0 mm

20.24 in.
514.06 mm

**18.0 in.**
457.25 mm

15.12 in.
**384.05 mm**

37.33 in.
948.2 mm

Supplied Parts

⚠ **WARNING:** This product contains small items that could be a choking hazard if swallowed.
Before starting assembly, verify all parts are included and undamaged. If any parts are missing or damaged, do not return the damaged item to your dealer; contact Customer Service. Never use damaged parts!
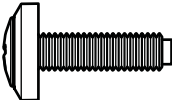
[01] x 1
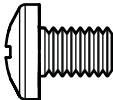
L

[02] x 1

R

[03] x 2

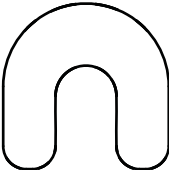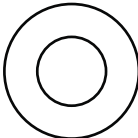**[04]** x 2

[05] x 1

[06] x 1
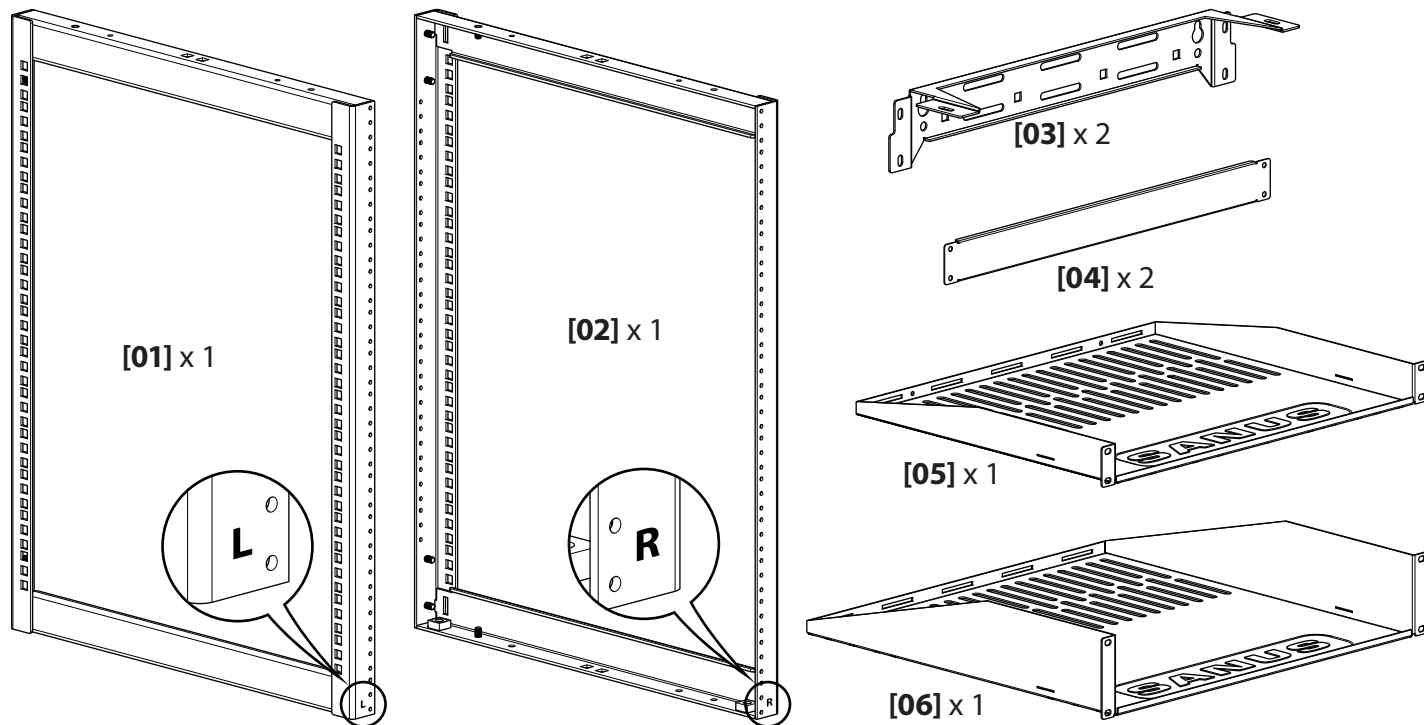
Supplied Parts
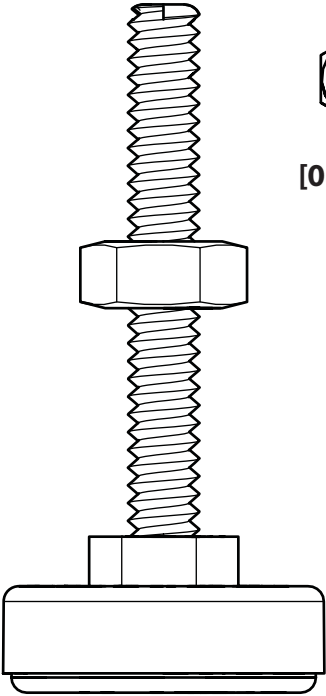
[07] x 4

1/4-20
[08] x 12

[09] x 25
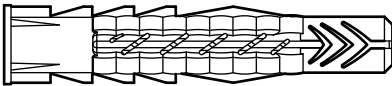
1/4-20 x 3/8 in.
[10] x 4
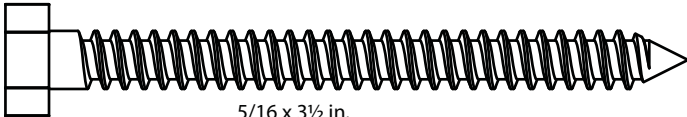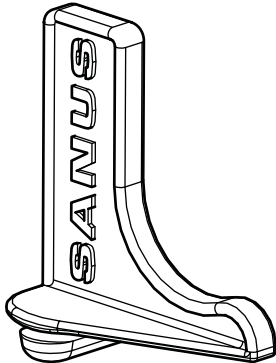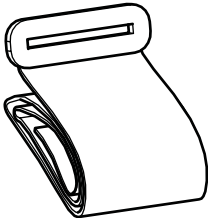
[11] x 2

[12] x 2

[13] x 4

5/16 x 3½ in.
[14] x 4

[15] x 4
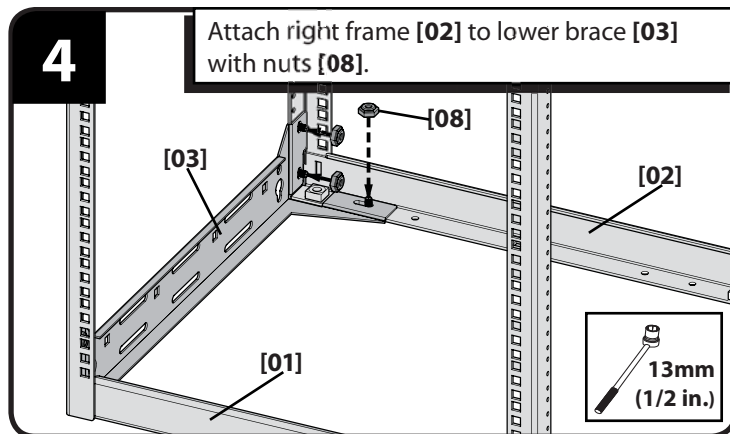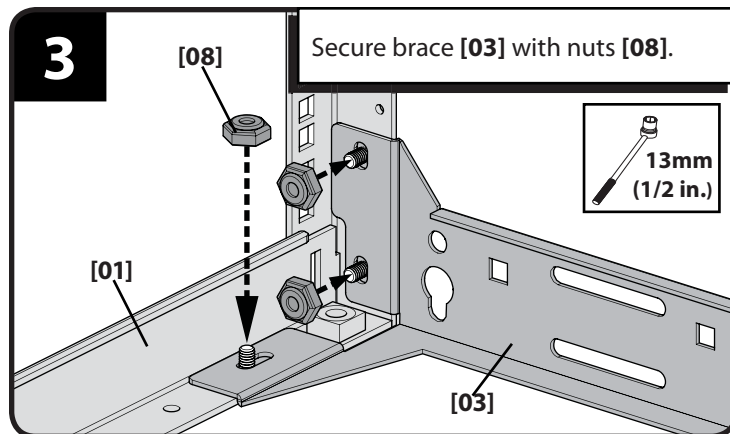
[16] x 2

Frame Construction

1 Fit brace **[03]** over left frame **[01]** horizontal screw stud.

[01]

[03]

L

2 Slide brace **[03]** back over vertical screw studs.

[01]

[03]

L

3 Secure brace **[03]** with nuts **[08]**.

[08]

[01]

[03]

13mm
(1/2 in.)

4 Attach right frame **[02]** to lower brace **[03]** with nuts **[08]**.

[08]

[03]

[02]

[01]

13mm
(1/2 in.)

7
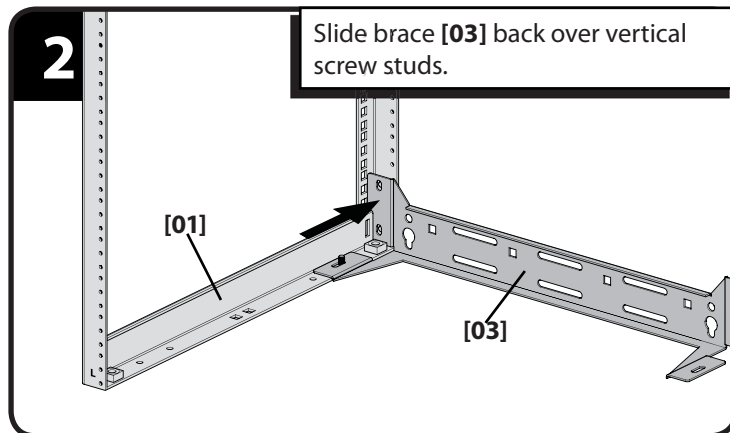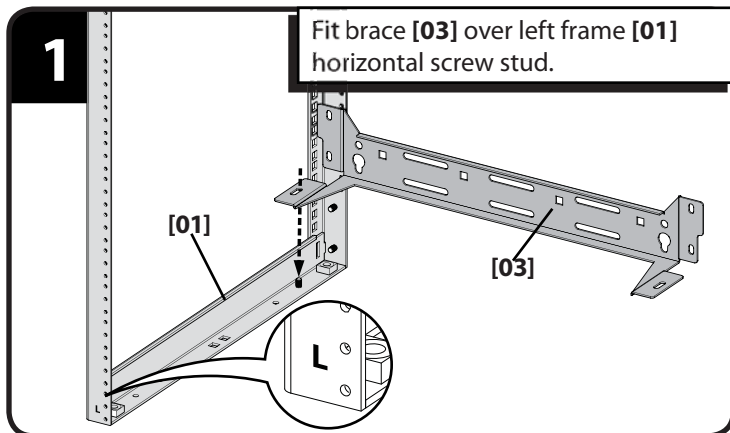
Frame Construction

5 Repeat steps **1** and **2** with upper brace **[03]**.

[03]

[02]

[01]
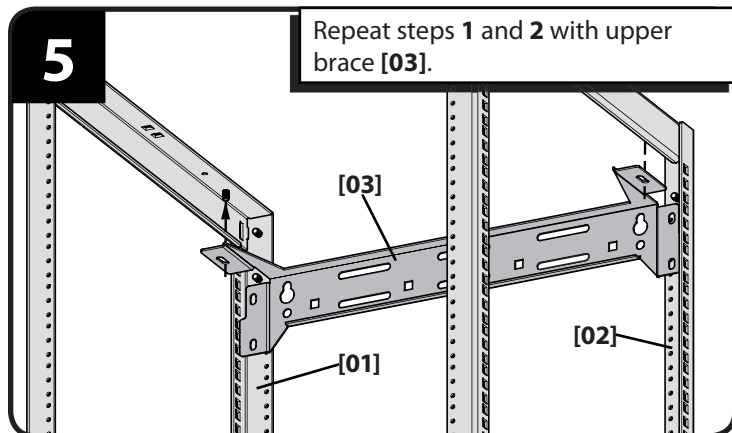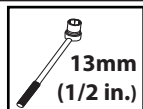
6 Secure upper brace **[03]** with nuts **[08]**.

13mm (1/2 in.)

[08]

[03]

[01]

[02]
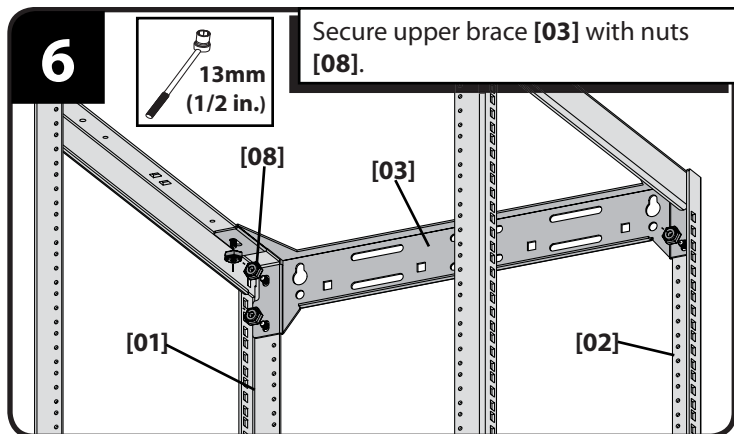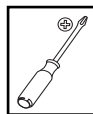
7 Attach alignment panels **[04]** with screws **[09]**.

[04]

[09]

[04]

[09]
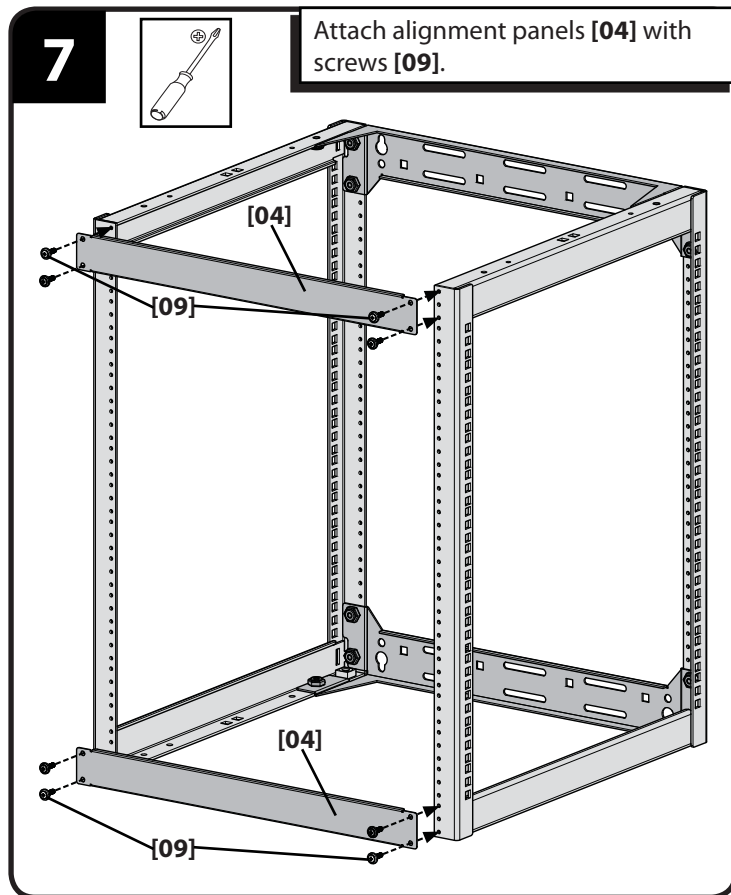
Install Feet (optional) for use on floor

1 Lay assembled frame on its back.
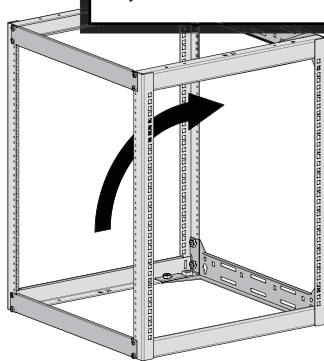
2 Install feet **[07]**.

[07]
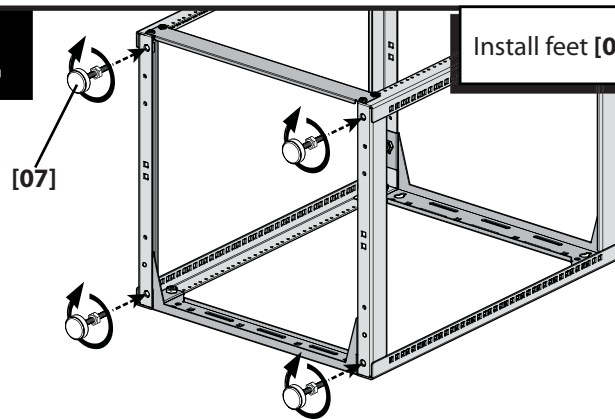
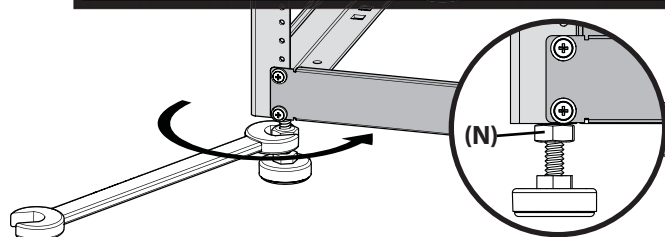**3** Adjust the feet **[07]** to level the rack.

[07]
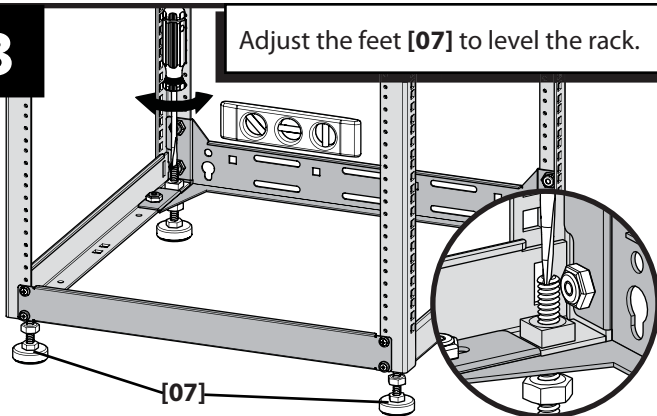
4 Tighten nuts **(N)** until they are flush with the bottom of the rack.

⚠ **CAUTION:** To avoid potential injury or property damage, always ensure that your rack is level.

(N)

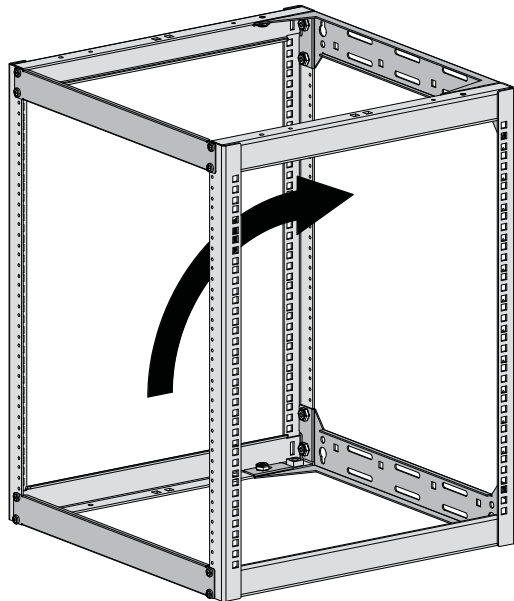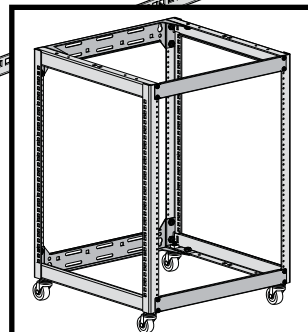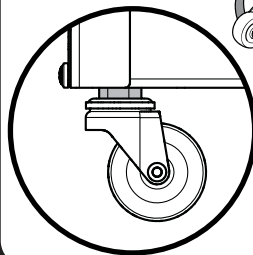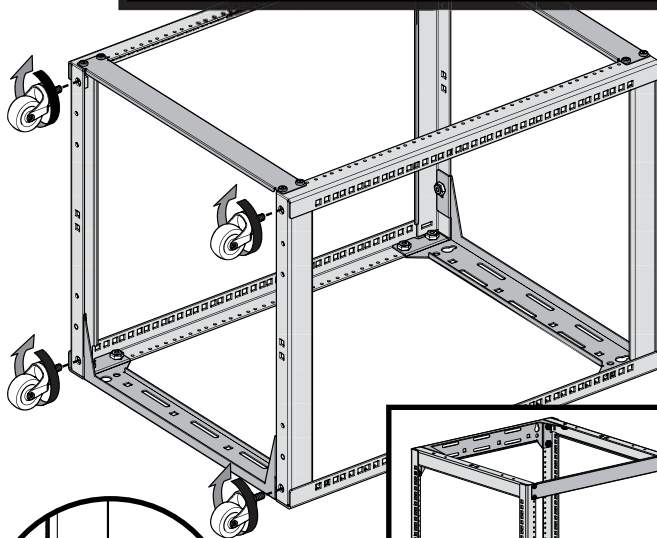# Install Casters (optional CA6CK caster kit purchased separately)
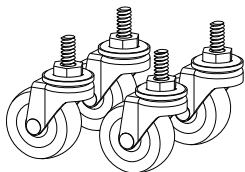
1 Lay assembled frame on its back.

2 Install casters (purchased separately). Make sure casters are screwed in until the nuts at the top of the casters are flush against the frame.

Stacking (second rack sold separately)

1 Fit second frame (without feet) onto first frame.
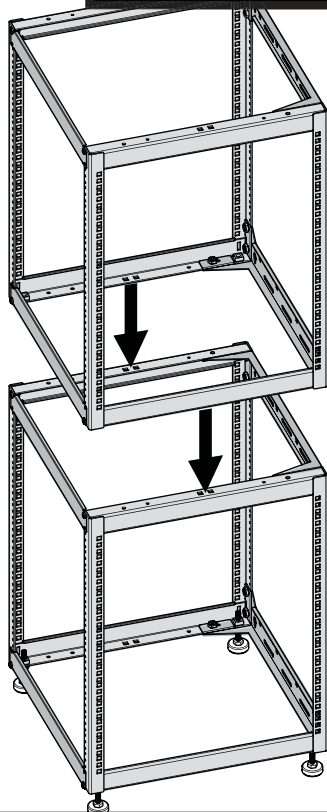
2 Secure frames with stacking screws **[10]**.

[10]
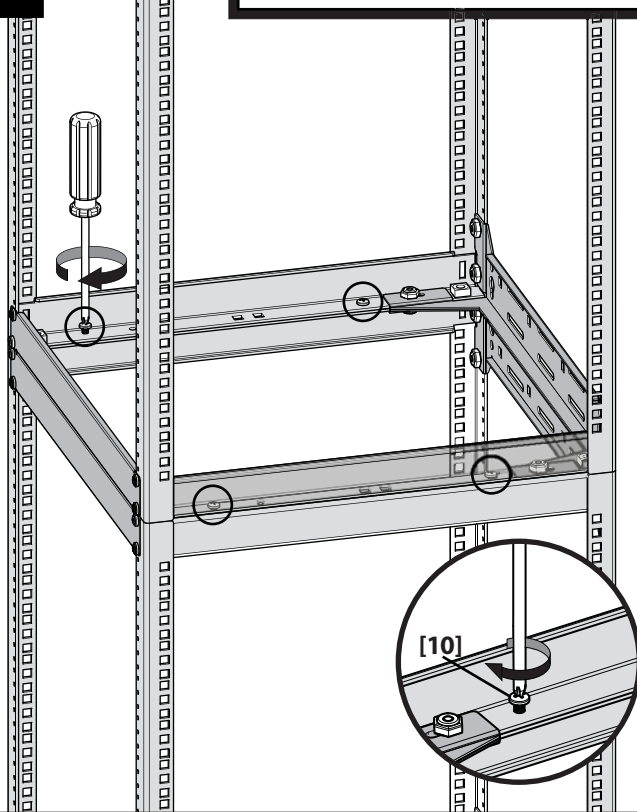
Single Wall Mounting (wood stud)

1 Locate studs. Verify the center of the stud with an awl or thin nail or use an edge to edge stud finder.

⚠ **CAUTION:** Avoid potential personal injuries and property damage!

- ✗ Any material covering the wall must not exceed 16 mm (5/8 in.).
- ✗ Minimum wood stud size: common 2 x 4 in (nominal 1½ x 3½ in.).

41 cm (16 in.)

2 Level frame assembly and mark hole locations.

3

Drill pilot holes as illustrated.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage: pilot holes **MUST** be drilled to a depth of 89 mm (3½ in.), using a 5.5 mm (7/32 in.) diameter drill bit.
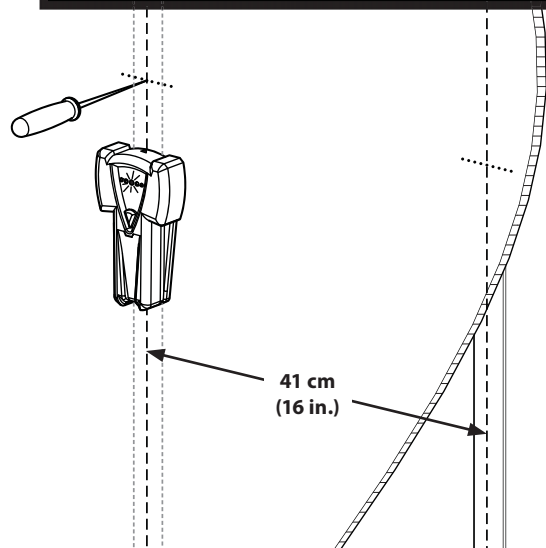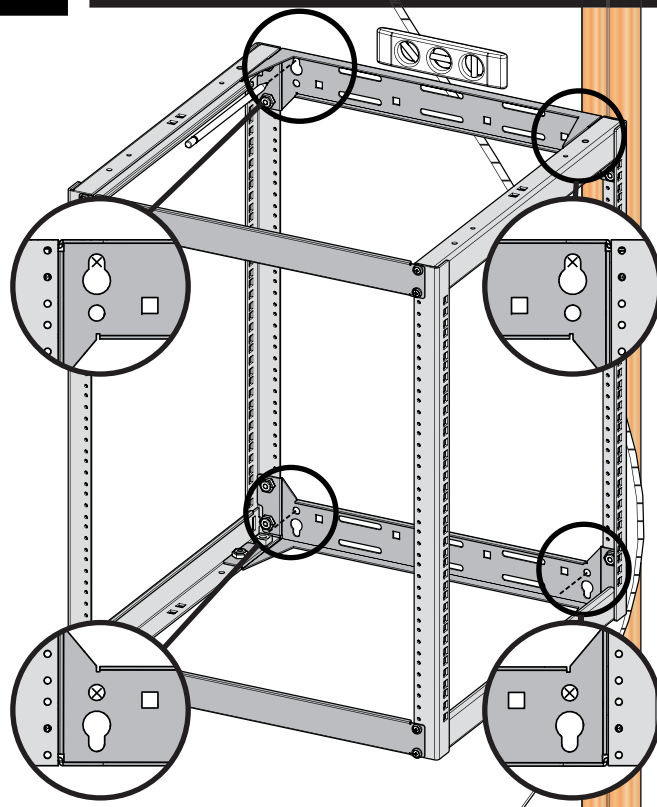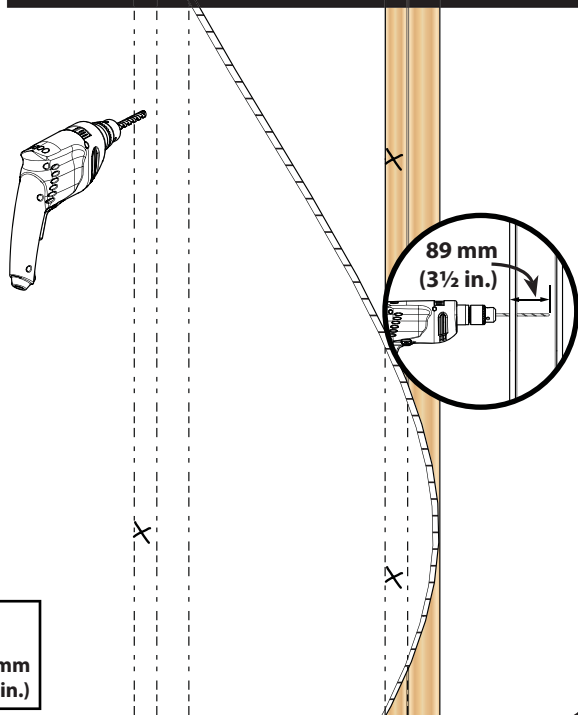

89 mm
(3½ in.)

5.5 mm
(7/32 in.)

4

Start upper lag bolts **[14]**, hang frame assembly on bolts **[14]**, then slip "U" washers **[11]** onto the upper bolts **[14]**. Lower bolts **[14]** use round washers **[12]**.

Tighten lag bolts **[14]** only until the washers **[11]** and **[12]** are pulled firmly against the brace **[03]**.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage **DO NOT** over-tighten the lag bolts **[14]**.

[14] **[11]**

[03]

[12]

[14]

[03]

13mm
(1/2 in.)

13

Single Wall Mounting (solid concrete and concrete block)

1 Level frame assembly and mark hole locations.

2 Drill pilot holes as illustrated.

⚠ **CAUTION:** To avoid potential injuries or property damage:

- ✗ Pilot holes **MUST** be drilled to a depth of 89 mm (3½ in.) using a 10 mm (3/8 in.) diameter drill bit.
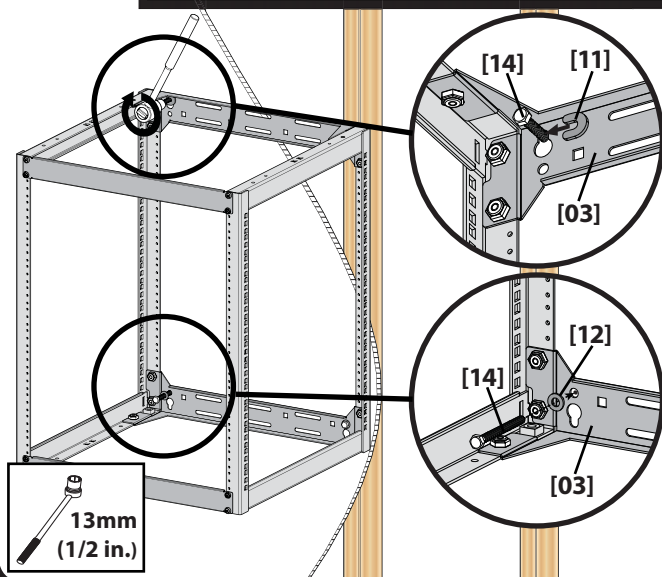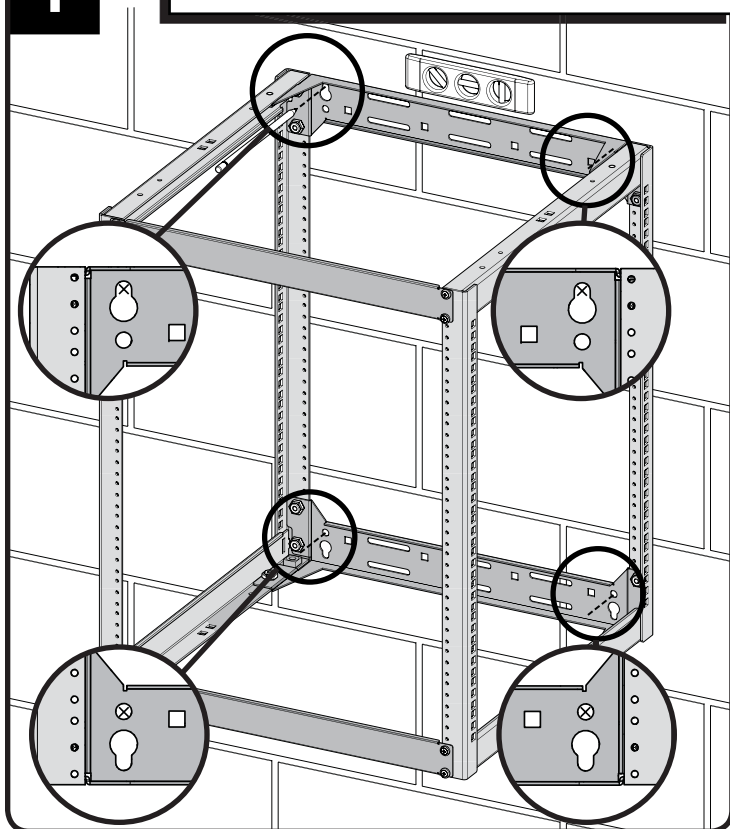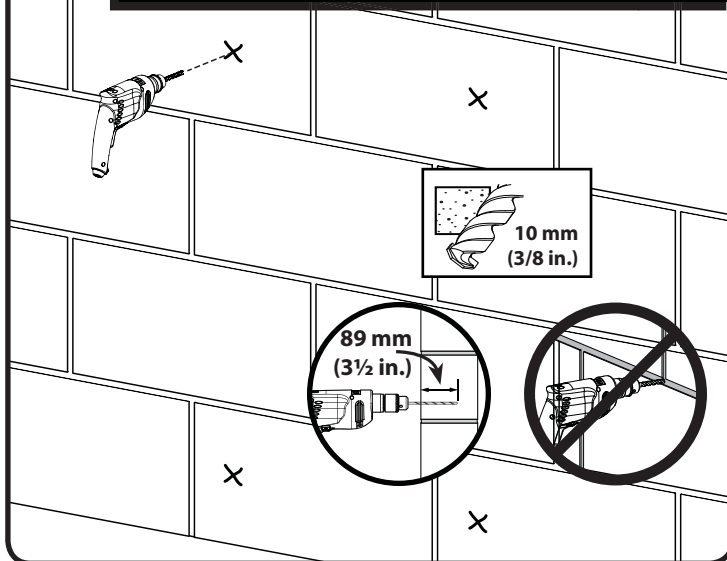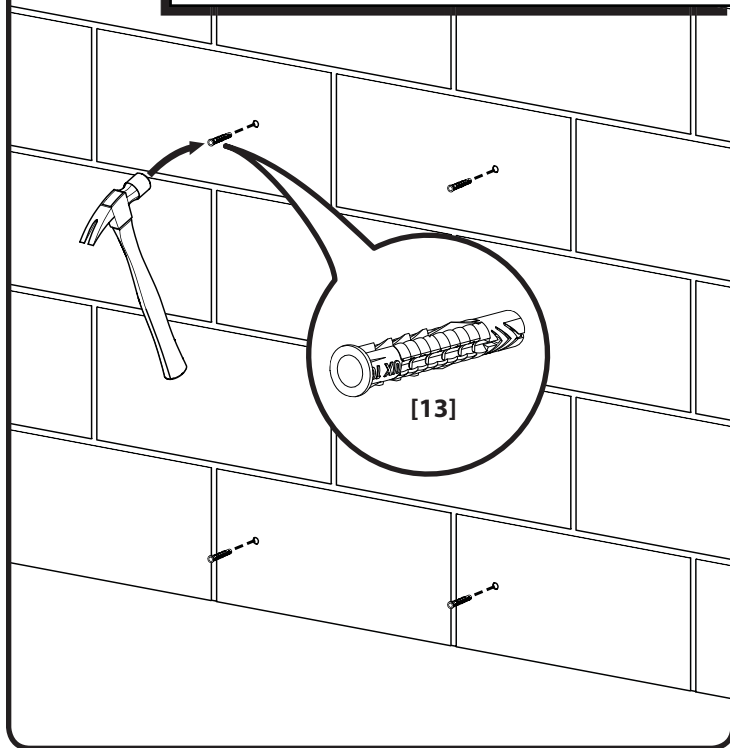- ✗ Never drill into the mortar between blocks.
- ✗ Minimum solid concrete thickness: 8 in.
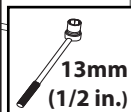- ✗ Minimum concrete block size: 8 x 8 x 16 in.

10 mm (3/8 in.)

89 mm (3½ in.)

3 Insert lag bolt anchors **[13]**.

⚠ **CAUTION:** To avoid potential injuries or property damage be sure the anchors **[13]** seat flush with the concrete surface.

[13]

4 Start upper lag bolts **[14]**, hang frame assembly on bolts **[14]**, then slip "U" washers **[11]** onto the upper bolts **[14]**. Lower bolts **[14]** use round washers **[12]**.

Tighten lag bolts **[14]** only until the washers **[12]** and **[12]** are pulled firmly against the brace **[03]**.
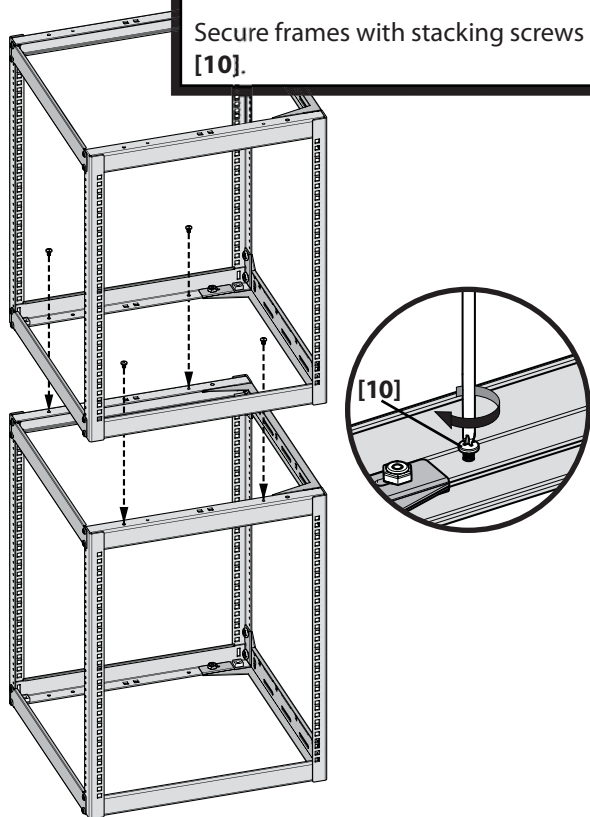
⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage **DO NOT** over-tighten the lag bolts **[14]**.

13mm
(1/2 in.)

[14]   **[11]**

[03]

[12]

[14]

[03]
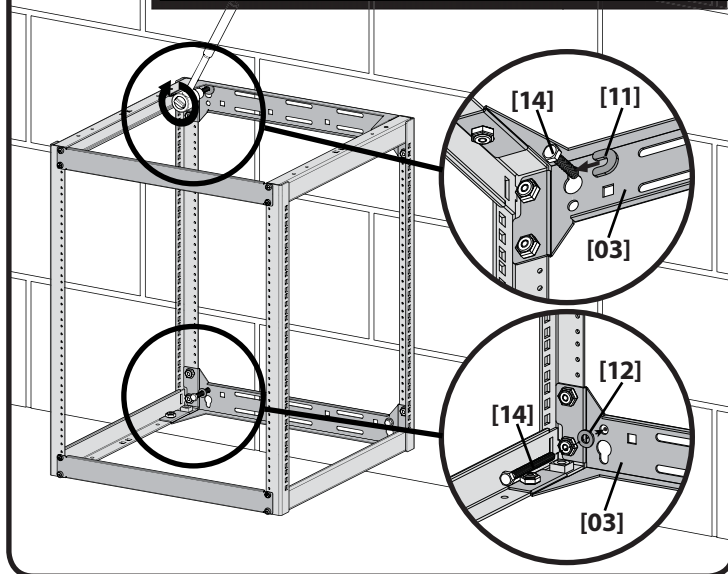
Wall Mounting - Stacking (wood stud)

1

Fit second frame onto first frame.

Secure frames with stacking screws **[10]**.
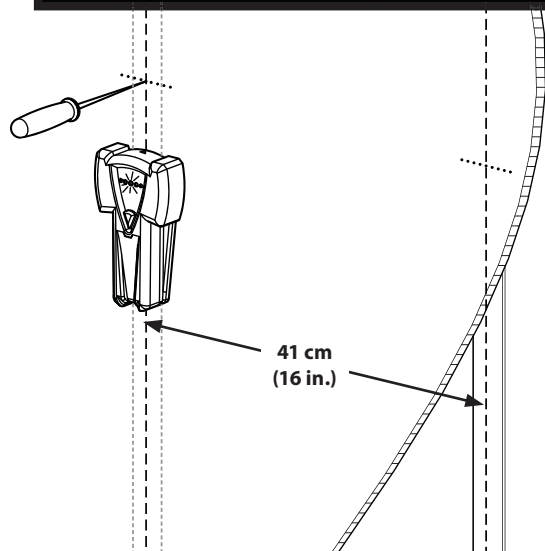

[10]

2

Locate studs. Verify the center of the stud with an awl or thin nail or use an edge to edge stud finder.
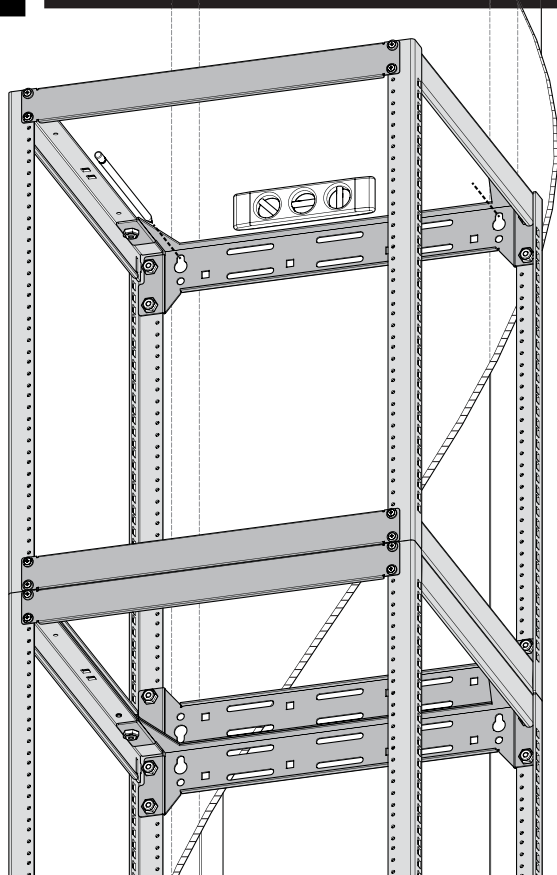
⚠ CAUTION: Avoid potential personal injuries and property damage!

- ✗ Any material covering the wall must not exceed 16 mm (5/8 in.).
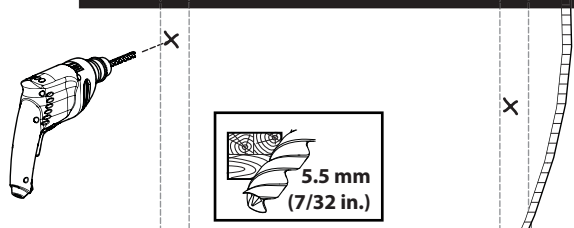- ✗ Minimum wood stud size: common 2 x 4 in (nominal 1 ½ x 3 ½ in).

41 cm (16 in.)

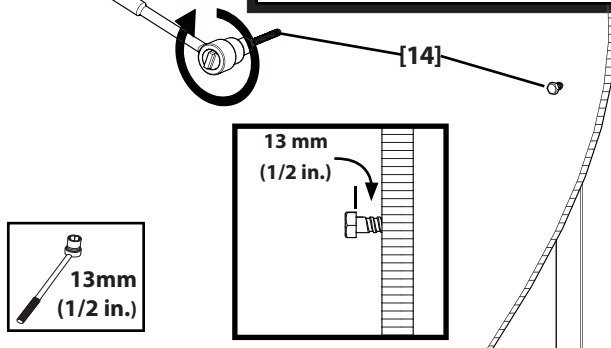**3** Level frame assembly and mark top hole locations.

4 Drill pilot holes as illustrated.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage: pilot holes **MUST** be drilled to a depth of 89 mm (3.5 in.), using a 5.5 mm (7/32 in.) diameter drill bit.

5.5 mm
(7/32 in.)

5 Start top lag bolts **[14]**. Leave approximately 13 mm (1/2 in.) of space from the bolt head to the wall.

[14]

13 mm
(1/2 in.)

13mm
(1/2 in.)

17

6 Hang frame assembly on bolts **[14]**.

[14]

[14]

7 Slip "U" washers **[11]** onto the bolts **[14]**.

Tighten lag bolts **[14]** only until the washers **[11]** are pulled firmly against the brace **[03]**.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage **DO NOT** over-tighten the lag bolts **[14]**.

[14]

[11]

13mm (1/2 in.)

8

Drill remaining pilot holes as illustrated.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage: pilot holes **MUST** be drilled to a depth of 89 mm (3.5 in.), using a 5.5 mm (7/32 in.) diameter drill bit.
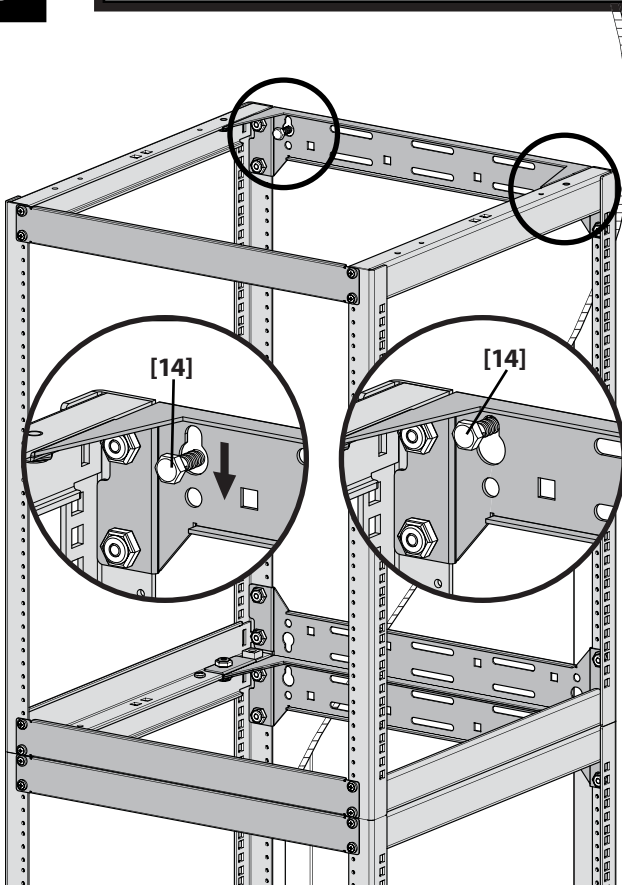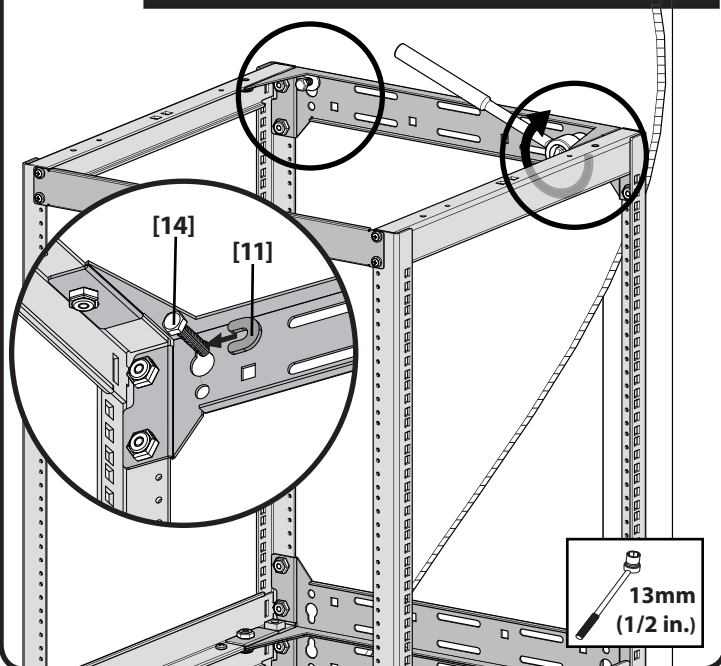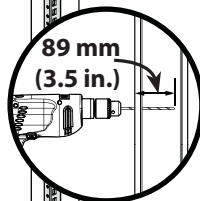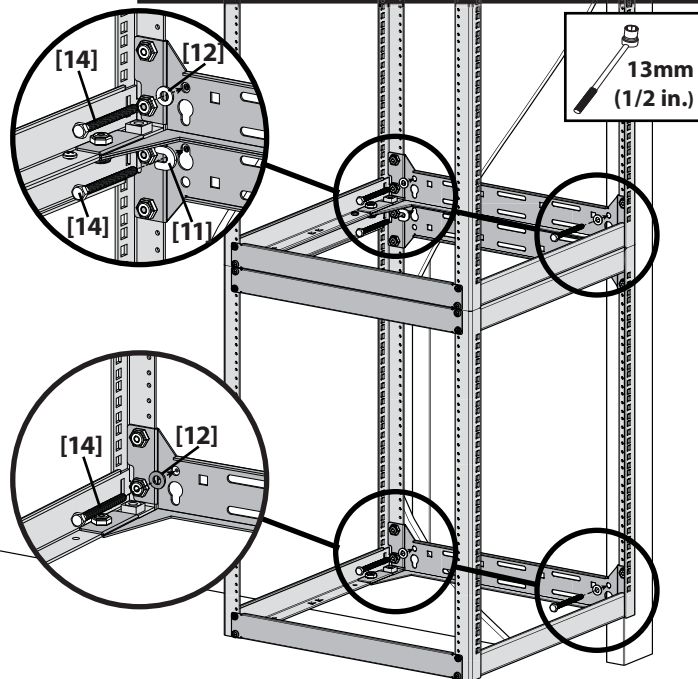
5.5 mm (7/32 in.)

89 mm (3.5 in.)

9

Tighten lag bolts **[14]** only until the washers **[11]** and **[12]** are pulled firmly against the brace **[03]**.
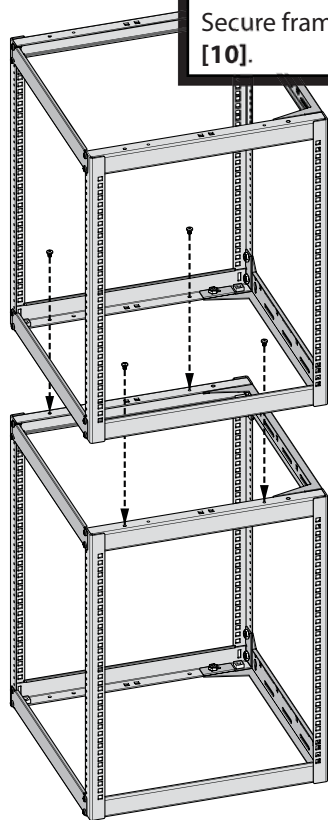
⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage **DO NOT** over-tighten the lag bolts **[14]**.

[14] [12]

13mm (1/2 in.)

[14] [11]

[14] [12]

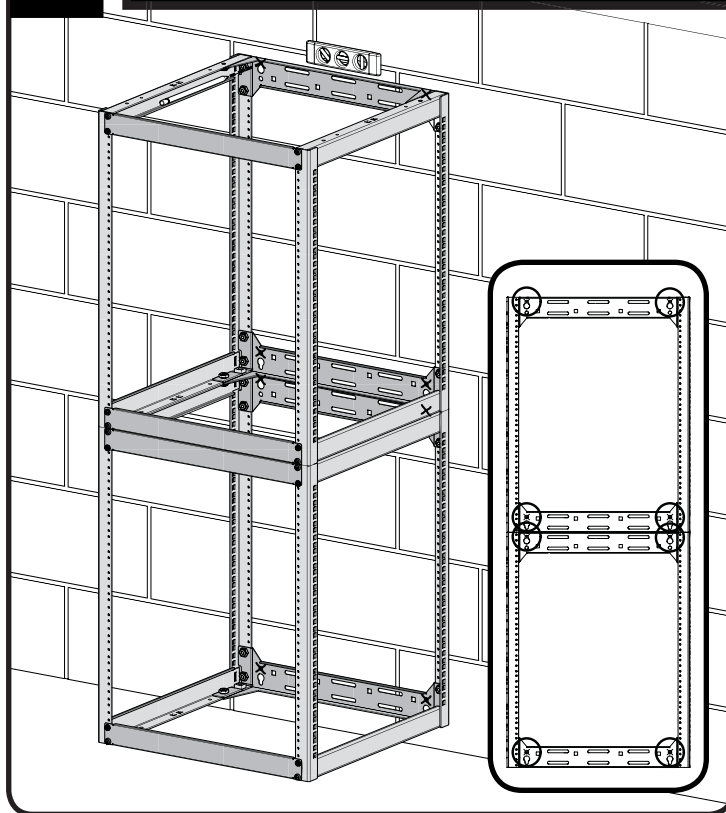# Wall Mounting - Stacking (solid concrete or concrete block)

1

Fit second frame onto first frame.

Secure frames with stacking screws **[10]**.
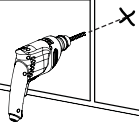
[10]

2

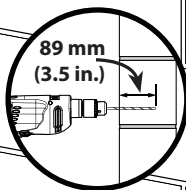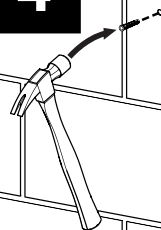Level frame assembly and mark hole locations.

3

Drill pilot holes as illustrated.

⚠ **CAUTION:** To avoid potential injuries or property damage:

- ✕ Pilot holes **MUST** be drilled to a depth of 89 mm (3.5 in.) using a 10 mm (3/8 in.) diameter drill bit.
- ✕ Never drill into the mortar between blocks.
- ✕ Minimum solid concrete thickness: 8 in.
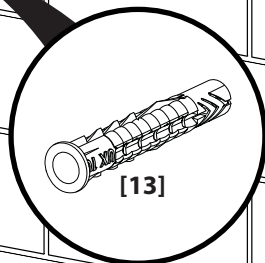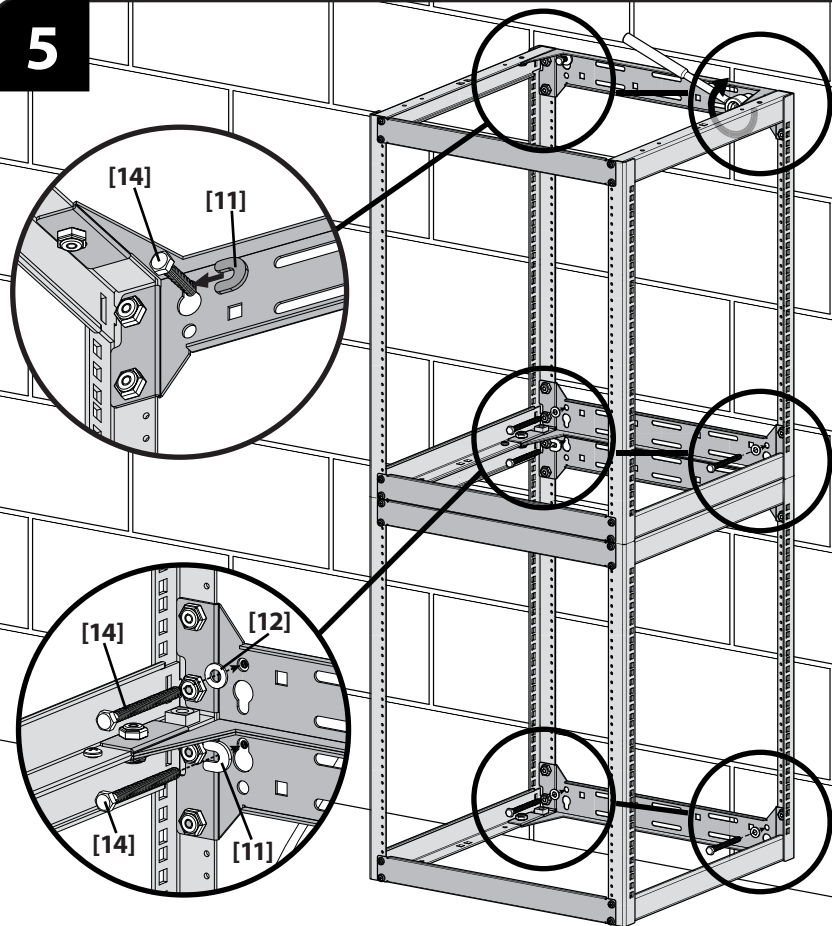- ✕ Minimum concrete block size: 8 x 8 x 16 in.

10 mm
(3/8 in.)

89 mm
(3.5 in.)

4

Insert lag bolt anchors **[13]**.

⚠ **CAUTION:** To avoid potential injuries or property damage be sure the anchors **[13]** seat flush with the concrete surface.
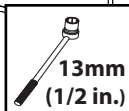
[13]

5

Start upper lag bolts **[14]**, hang frame assembly on bolts **[14]**, then slip "U" washers **[11]** onto the upper bolts **[14]**. Lower bolts **[14]** use round washers **[12]**.

Tighten lag bolts **[14]** only until the washers **[11]** and **[12]** are pulled firmly against the brace **[03]**.

⚠ **CAUTION:** Improper use could reduce the holding power of the lag bolt. To avoid potential injuries or property damage **DO NOT** over-tighten the lag bolts **[14]**.
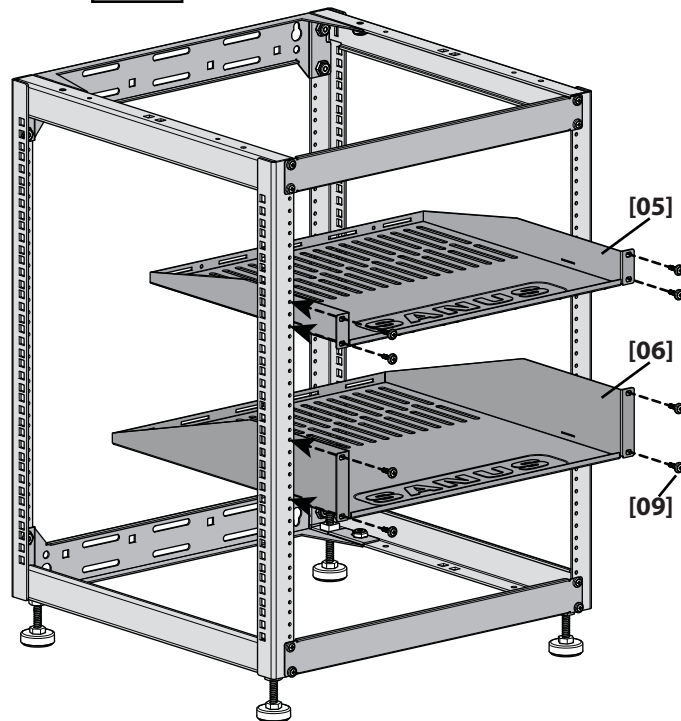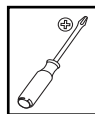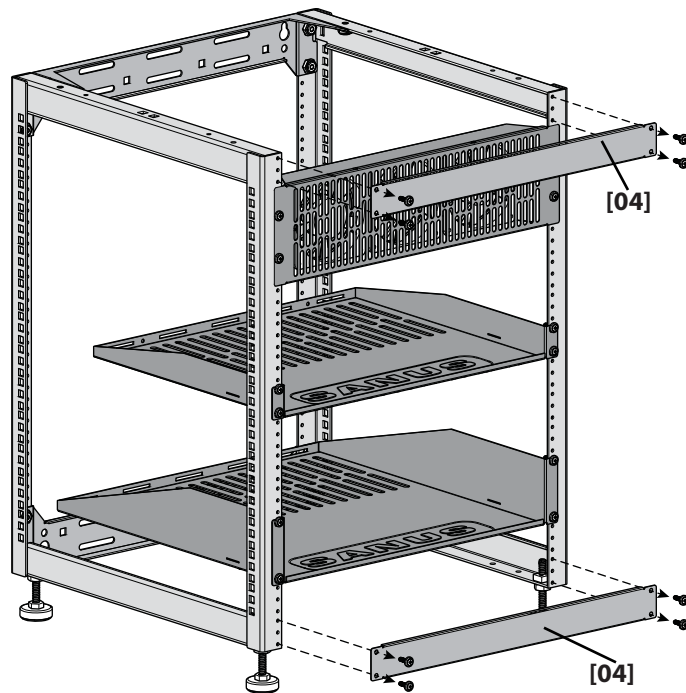
[14]
[11]

**13mm
(1/2 in.)**

[14]   **[12]**

[14]

[14]   **[11]**

[14]   **[12]**

[14]

Install Shelves

1 Install shelves **[05]** and **[06]** with screws **[09]**.
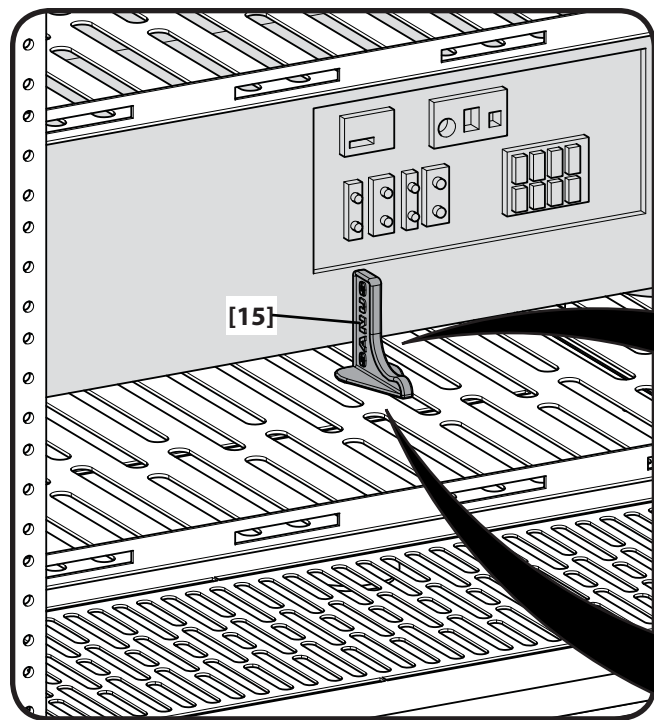
[05]

[06]

[09]

2 After at least 3 shelves or rack mounted components are installed, the alignment panels **[04]** may be relocated or removed for additional rack space.
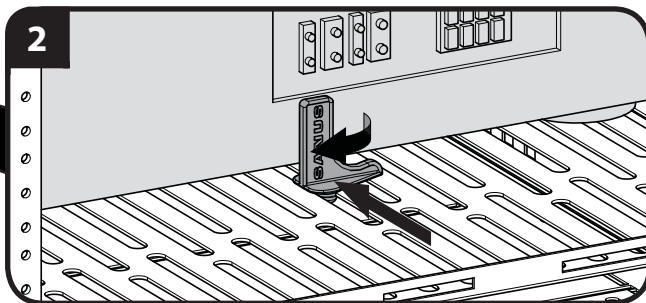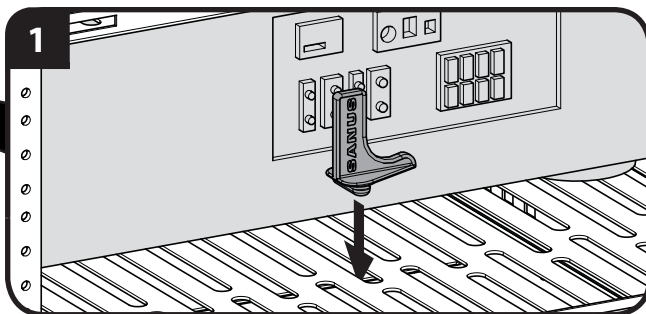
[04]

**[04]**

Install Shelf Backstops (optional)

⚠ CAUTION: To prevent tipping, always load the rack from the bottom up, and load the heaviest item in the rack first.
50% of the total weight should be mounted in the lower ⅓ of the rack.

1. Insert backstop **[15]** into slot behind component.
2. Slide backstop **[15]** forward until firmly against component and twist 90 degrees.

[15]

1

2

Install Component Straps (optional)

1

[16]
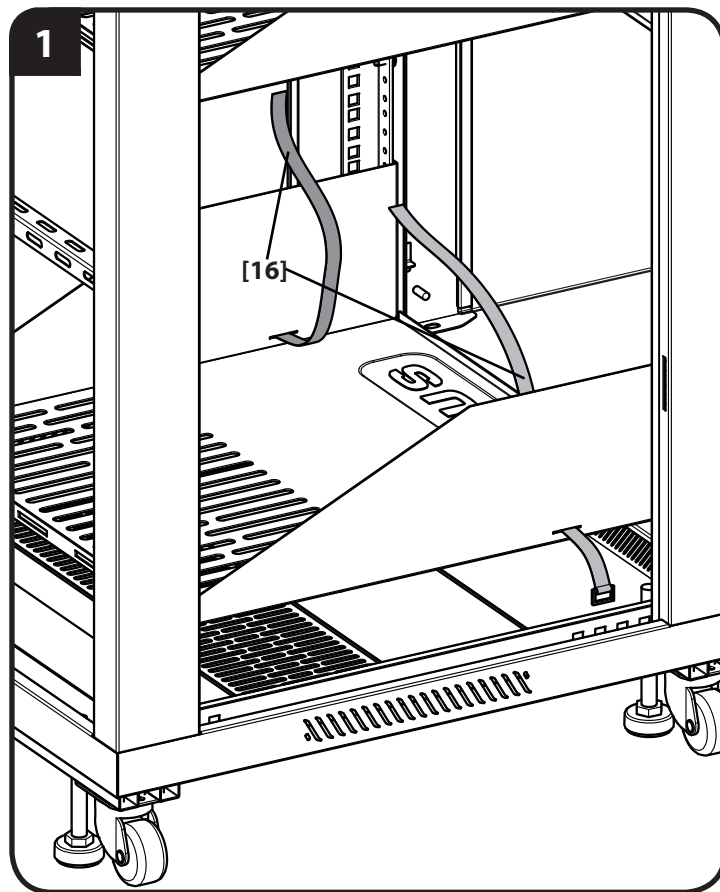
1. Slide straps **[16]** through slots in sides of shelves.
2. Wrap straps **[16]** over component to secure.

2

[16]