Greenhouse + Dry Storage Partition

Collect supplies in the front, carry them through the partition, then work in the growing area. The opening between the zones is the critical part of this storage-and-greenhouse example.

Can the carried tray pass through the partition opening?

Read the two zones and their connection before choosing the partition. The counterexample narrows only the opening while retaining the same carrying requirement.

What the study shows

Dimensioned layout example

The 30 in service strip continues through the selected 30 in partition opening. Narrowing only the opening to 20 in loses 10 in of that reservation; it does not demonstrate a usable carrying route.

A matching strip and opening do not prove space for hands, a turn or door operation, or a suitable growing environment.

Good for
Garden tools and potting supplies with a distinct growing area.

The key trade-off
A partition is useful only when supplies can still pass through its opening.

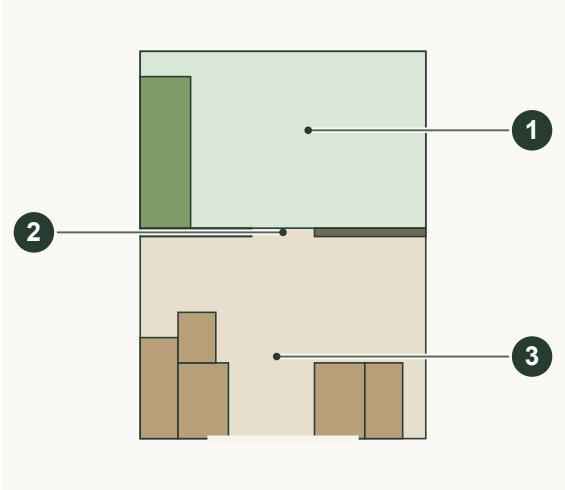
Reference material, not construction plans. Drawings disclose selected assumptions; they do not establish structural design, permit approval or species capacity.

Two-zone arrangement

Carry supplies through

Narrow-opening test

Locate storage, the partition and the growing bench



Two zones and a partition. 84 in growing + 4 in partition + 96 in dry storage = 184 in.

The partition divides the floor but must still connect the tasks.

1. Rear growing zone

The authored example allocates 84 inches of depth to growing. This floor allocation does not establish a suitable growing environment.

2. Partition and opening

A 4-inch partition separates the zones. Its selected 30-inch opening is tested against the same-width service strip.

3. Front dry-storage zone

The front allocation is 96 inches deep. Shelves, trays and supplies occupy real space around the carrying route.

> **Try this with your own measurements**
>
> List the items carried between the two zones before fixing the partition position.

Follow the central strip into the growing area

Carry supplies between the two zones

01

Collect at the front

Gather the trays, soil or tools needed for the growing task.

02

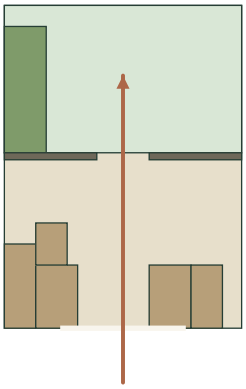
Pass through the partition

Carry the actual load through the connecting opening and toward the growing bench.

03

Return and reset

Return tools to storage and leave the service strip available for the next trip.



Carry, tend, return. The 30 in service strip connects the entrance and rear growing zone.

The selected 30-inch strip continues through the partition.

Start at the entrance

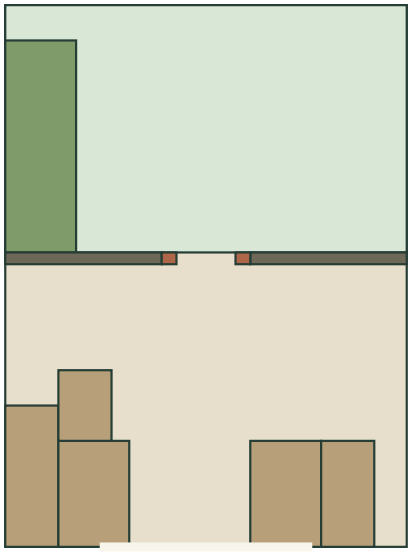
Follow the central reservation from the front opening into the rear growing area.

Allow for what you carry

The clear strip is an authored input; pots, trays, hands and door operation must be checked with real measurements.

> **Try this with your own measurements**
>
> Carry the widest intended tray through a mock partition opening and turn toward the growing bench.

Keep the zones; change only the partition opening



A narrow partition breaks the route. A 20 in opening cannot contain the authored 30 in service strip.

A 20-inch opening is 10 inches narrower than the selected service strip.

One input changes

The zones and stored items stay in place. Only the partition opening reduces from 30 to 20 inches.

The task determines the test

Shrinking the route reservation to make the diagram pass does not demonstrate workable carrying space.

> **Try this with your own measurements**
>
> Set the carrying requirement first, then compare the finished clear opening with it.

Study notes & exact inputs

Locate storage, the partition and the growing bench

Original diagram. Authored reference; inches unless marked unknown.

Growing bench: 24×72 in at (0,100). Front shelf: 18×48 at (0,0); trays: 24×36 at (18,0); soil: 18×24 at (18,36). Potting surface: 24×36 at (83,0); tools: 18×36 at (107,0).

The partition occupies y=96–100 in; its 30 in opening runs x=53–83. The clear front entry is 72 in, centered.

Front storage. Shelf, trays, soil, potting surface and tools occupy the front allocation.

Rear growing area. The 84-inch growing zone, 4-inch partition and 96-inch storage zone total 184 inches. The opening connects them.

Follow the central strip into the growing area

Original diagram. Authored reference; inches unless marked unknown.

Follow the clear central strip to reach the growing bench, then return tools to the front storage zone. Verify carrying width, reach and the actual door operation.

This diagram records access and allocation. It does not establish that the front zone stays dry or that plants receive adequate light and ventilation.

Keep the zones; change only the partition opening

Original diagram. Authored reference; inches unless marked unknown.

Counterexample: retain every zone and item but reduce the partition opening from 30 to 20 in. The remaining opening fails the selected 30 in route width.

Reducing a route allowance to make a drawing pass does not establish workable carrying clearance. Measure the task first.

Set the carrying task before fixing the partition

Use the drawings as a starting point. Record the result of each check before carrying this arrangement into your own plan.

1. Compare opening with carried width

The counterexample changes only the partition opening: 30 in becomes 20 in while the service reservation stays 30 in. See the drawing

Measure or try

Measure the loaded tray including hands and projections, then record the finished clear opening.

Change the arrangement if…

If the required carried width exceeds the opening, enlarge or relocate the connection; shrinking the drawn strip does not solve the task.

2. Try the turn after the opening

The selected central strip connects the front entrance to the rear zone, without a simulated loaded turn. See the drawing

Measure or try

Carry the intended load through a mock opening and turn toward the actual growing surface.

Change the arrangement if…

If the turn hits a shelf, surface or door, change their positions and repeat the complete trip.

3. Budget both zones together

96 in front + 4 in partition + 84 in rear = 184 in total depth in this example. See the drawing

Measure or try

Record usable depth and the proposed partition thickness before allocating storage and growing surfaces.

Change the arrangement if…

If either zone grows, recalculate the other from the same total depth and retest the connection.

Size the task before narrowing the opening

Carried load

Measure the tray or container in the actual carrying position, including hands.

Door operation

Check the finished clear opening and where an operating door occupies space.

Conditions in both zones

Review watering, drainage and ventilation together; a divider does not prove dry storage.

Where this reference fits

- Garden tools and potting supplies with a distinct growing area.
- Checking service access before choosing how much length each zone gets.

Trade-offs

- A partition consumes space and does not by itself control moisture.
- More growing length leaves less dry-storage length.

Still to assess

- Measure actual enclosure, opening and occupied bench dimensions.
- Review sunlight, ventilation, condensation, drainage and irrigation locally.
- Confirm materials and separation details; fuels and chemicals are outside this study.

Appearance & material choices

The interior concept looks from opaque front storage into the glazed growing area. The connecting opening is a practical part of the reference, not simply a decorative view.

Check the things carried through

Measure trays, compost containers and the actual carrying task through the partition opening. The diagram gives the authored geometry; the image's apparent width cannot establish usable clearance.

Keep environment questions visible

The partition separates floor allocations but does not establish a dry front room. Growing, watering, drainage and ventilation must be considered together. Surface materials and the illustrated floor transition are not construction details.

Declared facts & assumptions

Nominal exterior class only. All clear dimensions below are authored example inputs, not a product specification.

Usable width: 136 in

planning assumption · Authored interior. [editorial]

Usable depth: 184 in

planning assumption · Authored interior. [editorial]

Growing depth: 84 in

planning assumption · Rear zone; not a yield recommendation. [editorial]

Dry-storage depth: 96 in

calculated · 184 − 84 − 4 in partition. [editorial]

Partition opening: 30 in

planning assumption · Equal to the authored tending aisle; verify handling clearance. [editorial]

Sources & current resource status

Original assumptions and diagram manifest

ShedBuildPlans · US reference; confirm local conditions · Checked 2026-09-14

Defines this study’s authored geometry and questions; not built-project evidence.

/project-resources/2026-09-14-r4-v2/editorial-manifest.json

Hobby Greenhouses

UGA Cooperative Extension · US reference; confirm local conditions · Checked 2026-09-14

Supports evaluating ventilation and greenhouse environmental control; does not validate this partition or its dimensions.

https://fieldreport.caes.uga.edu/publications/B910/hobby-greenhouses/

Garden Sheds

UGA Cooperative Extension · US reference; confirm local conditions · Checked 2026-09-14

Supports accessible, dry garden-tool storage; no claim of climate separation for this example.

https://fieldreport.caes.uga.edu/publications/C1027-7/garden-sheds/

Hobby Greenhouses

UGA Cooperative Extension · free · available · Checked 2026-09-14

Public original source. Opens with its provider; no third-party material is hosted here.

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