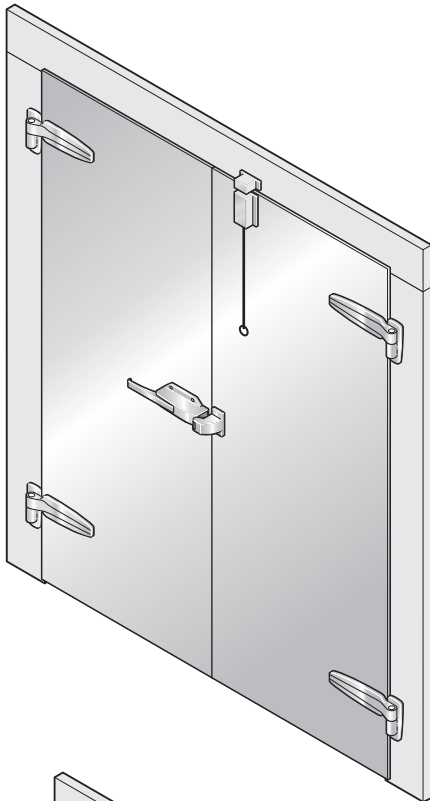
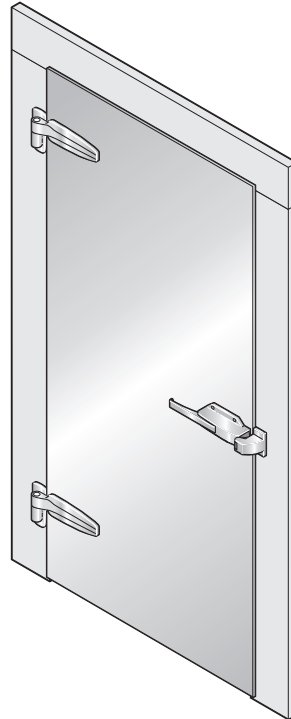


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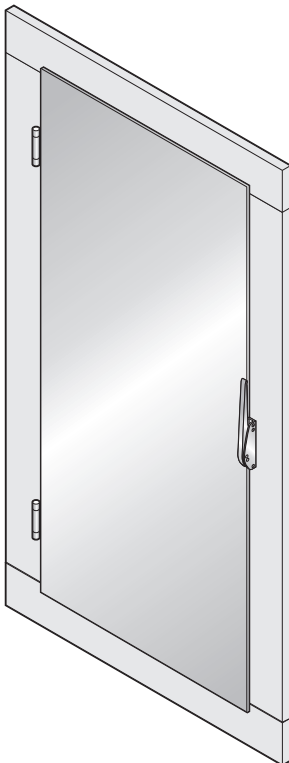
COLD STORAGE DOORS



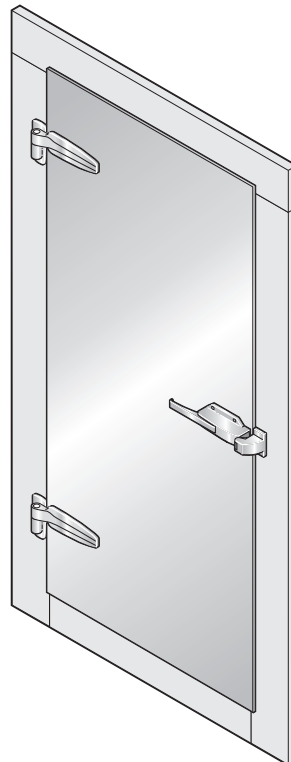
Double
Overlap
Swing Door



Overlap
Swing Door



Reach-In
Swing Door



Overlap
Swing Door
4 Side Lap

Release Date: 7-2014

R-PLUS Cold Storage Doors®

2271 NE 194th • Portland, Oregon 97230

Toll Free (877) 320-3599 • Fax (503) 665-2929 • www.RPlusDoors.com

Table of Contents

| | Page |
|------------------------------------|------|
| Warnings and Cautions | 2 |
| Preparation of Opening | 3 |
| Attaching Door Frame to Wall | 4 |
| Checking Operation | 6 |
| Finishing | 6 |
| Periodic Maintenance | 6 |
| Warranty | 7 |

Warnings and Cautions

This manual contains many important safety messages about your Door. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill, injure, or damage equipment.

All safety messages will follow the safety alert symbol and either the word “Warning” or “Caution.” These words mean:



WARNING You can be killed or seriously injured if you don't follow instructions.




CAUTION Equipment can be damaged or destroyed if you don't follow instructions.


All safety messages will tell you how to proceed to reduce the chance of death, injury, or damage to the Door.


Important Safety Instructions – Read Prior to Installation


This installation must be performed by a qualified installer. To avoid injury from sharp metal edges, the installer must be equipped with protective clothing, gloves, and eyewear.


To reduce the risk of fire, electrical shock, injury, death, or damage when installing or repairing the Door, follow basic precautions, including the following:


 **WARNING:** Improper wiring or lack of proper ground can result in fire, electrical shock, injury or death. Disconnect power to the Door before performing any electrical repairs. Field wiring or electrical repair should be done by a licensed professional electrician. Follow all local building codes and laws for electrical installation.


 **WARNING:** Turn power off to anti-frost heaters prior to servicing the Door.


 **WARNING:** Avoid installing the Door on windy days. The door leaf and frame are difficult to handle in windy situations and could fall during installation.


 **WARNING:** When installing or servicing the Door, clear the area of children and unnecessary adults.


 **WARNING:** In case of electrical fire, disconnect the power supply. Do not use water on electrical fires. Smother the fire with an extinguisher rated for C-class fires.


 **WARNING:** Always keep your hands clear of moving parts when door is in motion. Use handles when operating the Door. Avoid loose fitting or hanging clothing that could catch or snag on the Door.

 **CAUTION:** After changing any parts on the Door, always check the door gasket tightness for proper seal and adjust as necessary.

 **CAUTION:** Per NEC 300-7, all raceways passing from different temperatures shall be sealed with putty or other method to stop the travel of moisture. Furthermore, all junction box cover plates shall be sealed. Verify these seals are in place and functioning properly after performing any service on the Door.

 **CAUTION:** If a Door becomes hard to operate, inoperative, or damaged, do not operate the Door until necessary adjustments or repairs have been made.

 **CAUTION:** Inspect the Door regularly for ice accumulation that might hinder its movement. De-ice before moving the Door.

 **CAUTION:** Inspect the Door regularly for proper operation and maintenance. Follow instructions listed in the Periodic Maintenance section.

IMPORTANT

1. **To avoid possible injury, read all instructions carefully before attempting installation. If in doubt about any of the procedures, do not attempt the work.**
2. This installation must be performed by a **qualified installer**.
3. Please *review all* illustrations and drawings *before installing* the door.
4. Inspect and report any damage and/or missing parts, before installing. The vendor will *not be responsible for costs* of installing or removing damaged doors.
5. Confirm the *opening* for the door matches the size on the *packing list*.

Preparation of Opening

1. Verify that the opening size matches the door size. Measure the opening size and check the packing slip attached to the door crate to verify that the correct door size has been received.
2. Measure diagonally to determine that the door opening is square. To verify that the opening and wall are plumb, stretch two strings diagonally from corner to corner. The strings should *just touch* at the center. To correct for any out-of-square or out-of-plumb situation, shim the Side Frames and Top *at installation*. Any fasteners on *existing* jambs or headers must be countersunk flush or below the surface. See *Figure 1*.

NOTE: If the Door is being installed in insulated panels of a Walk-In Cooler, adjust the panels to correct any out-of-square or out-of-plumb situation.

3. Lay the crated Door face up on the floor and remove all crating.
4. Dry-fit the door frame to check for proper fit. Verify the Door Leaf will open freely (to *at least 90°*) at the floor and ceiling. Make any corrections to the site as necessary. See *Figure 2*.

NOTE: It is preferable to remove the Door Leaf when installing the frame. Some hinges allow for the Leaf to be lifted off the frame; others require the hinge be detached from the frame. If so equipped, disconnect the power cable at the J-Box on the frame.

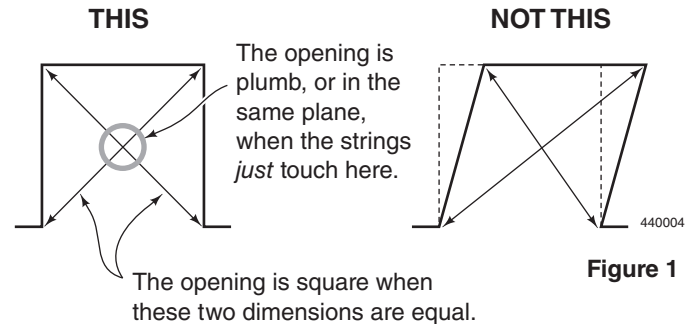


Figure 1

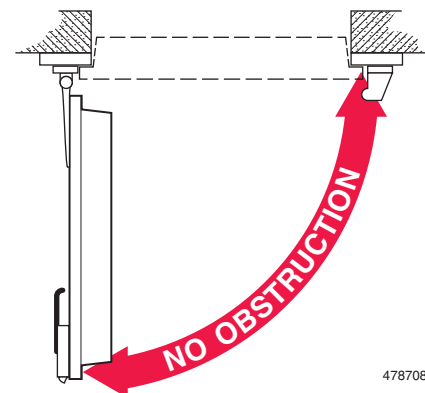


Figure 2

Attaching Door Frame to Wall

1. Before installing the door frame, check for proper backing in the wall. See *Figure 3*.

FRAME TYPES

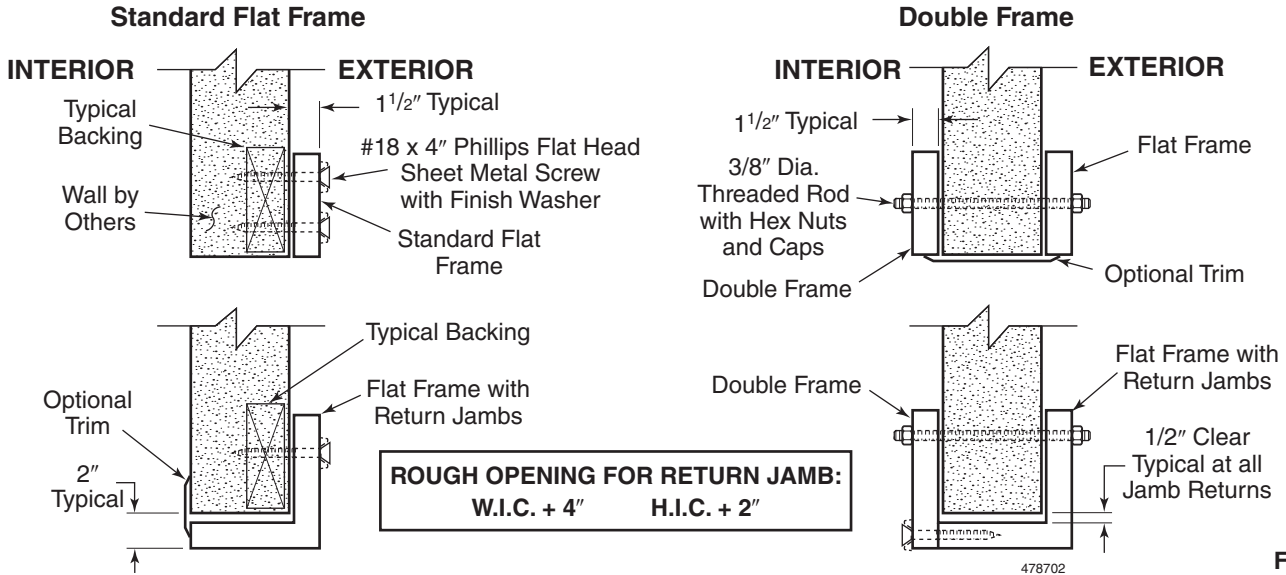


Figure 3

2. At job site, drill 5/16" holes (7/16" for threaded rods) through the frame for mounting to the backing in the wall. Space holes 4" in from the end, then every 36". See *Figure 4*.
3. Stand the frame up against the wall centered on the door opening. If this is a Track Port door, check that the track rail is centered in the track port. Using two clamps on each side, temporarily clamp the frame to the wall. See *Figure 5*.

Doors with Standard Flat Frame

Flat Frames attach to the wall with the #18 x 4" Phillips flat head sheet metal screws and finish washers that are provided.

Doors with Double Frame

Double Frames attach to the wall with the 3/8" threaded rods and nuts that are provided.

4. Loosen the temporary clamps and adjust the hinge side of the frame to vertical. Tighten the clamps. See *Figure 5*.

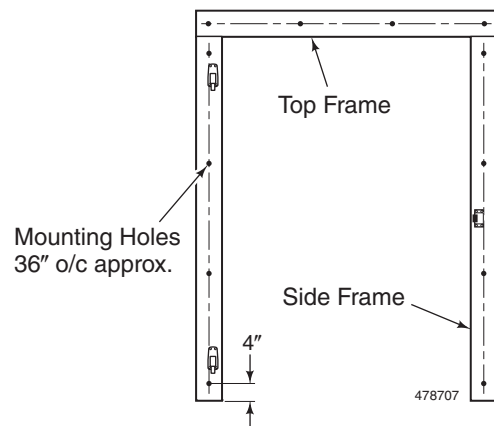


Figure 4

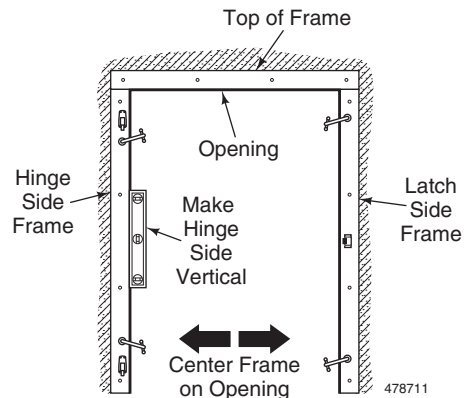


Figure 5

Attaching Door Frame to Wall (Continued)

5. Loosen the clamps and adjust the latch side of the frame to vertical and parallel to the hinge side. Tighten the clamps. See *Figure 6*.
6. Measure the frame opening diagonally to square and level the top. Adjust one side of the frame up or down to make the top of the frame level. Tighten the clamps. See *Figures 1 and 6*.
7. With a string plumb line and a long straight edge, again verify the frame for plumb and common plane. See *Figure 1*. The straight edge, when laid across the frame, must be in flat contact with the faces of the frame at various angles. If necessary, loosen the clamps and add shims between the frame and the wall. Proper Door seal will be difficult to achieve if the frame is not plumb. See *Figure 7*.
8. Using the frames as a guide, pre-drill 9/32" holes into the wall. For Double Frames, pre-drill 3/8" holes through the wall. After installation, cut off excess threaded rod and use plastic finish caps over the nuts.

NOTE: When installing a freezer door, a thermal break is required. Cut a 1/2" gap in the metal skin of the cooler centered behind the door frame and around the door opening. See *Figure 8*.

NOTE: Add *Butyl caulking* behind the frame before fastening to the wall. See *Figure 9*.

9. Attach the hinge side frame with fasteners, through the pre-drilled holes, at 36" o/c. Similarly fasten the latch side and frame top (bottom if applicable).
10. Tighten all fasteners, but do not draw the frame out of plane. See *Step 7 above*. Remove the clamps.
11. Seal with *Silicone caulking* around the frame and top after tightening the screws. See *Figure 10*. On doors with return jambs, first fill any cavities between the jamb and the wall with insulation or backer rod.
12. If removed for installation, reinstall the Door Leaf and verify proper alignment between latch and strike. Adjust as necessary.
13. For Doors with Frame Heaters, Sweep Heaters, or other power requirements, provide a dedicated 120VAC circuit to the 2X4 J-Box on the frame. Current draw will vary with door model and size. Connect the cable from the Door to the frame J-Box.

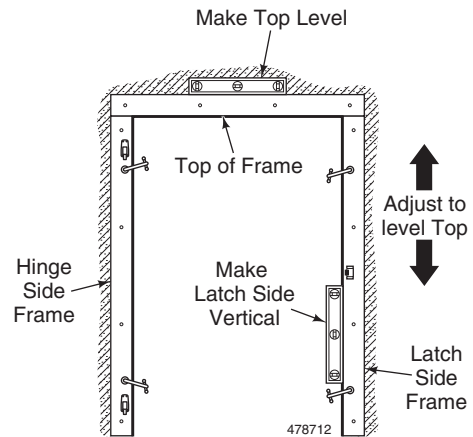


Figure 6

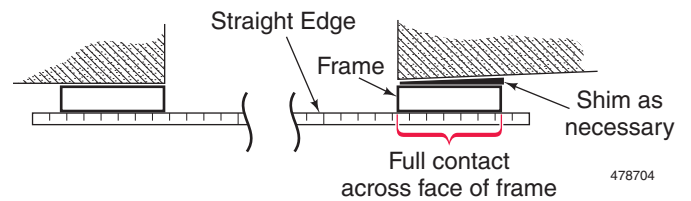


Figure 7

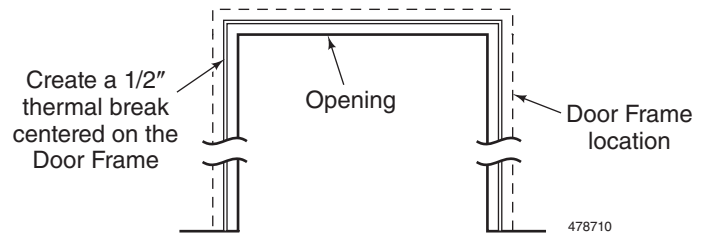


Figure 8

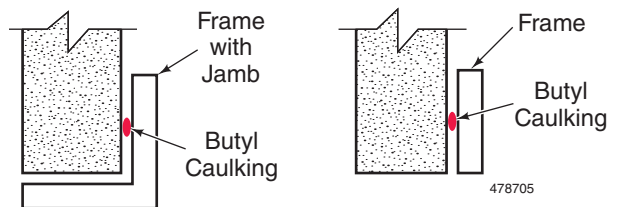


Figure 9

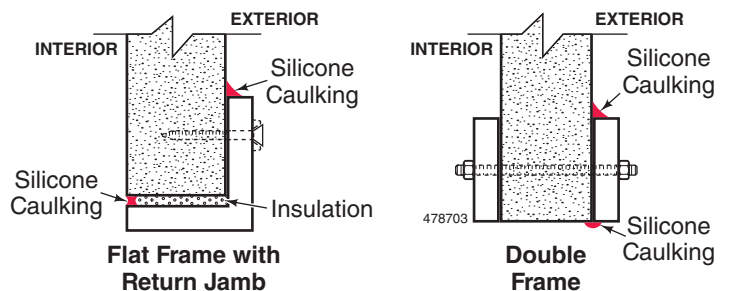


Figure 10

Checking Operation

1. Open and close the door slowly, checking the latch and hinges operation. The latch should fit firmly to hold the door closed and tightly sealed. Adjust the strike accordingly.
2. With the door in the closed position, the Perimeter Gasket should be compressed 1/8". Check the gasket compression *at all points* by closing the door against a piece of paper. If the paper is loose and does not drag when removed, the door is not making sufficient contact. Adjust by shimming the frame and/or adjusting hardware. See Figure 11.



478709
Figure 11

Finishing

1. Verify that the frame is sealed with *Silicone caulking* around both sides. Fill and seal all voids not properly sealed.
2. Remove any protective paper and clean the Door.



CAUTION: Do not over compress gasket. Too much pressure on the hinge side will prevent proper contact on the latch side and cause binding of the gasket, hard operation and premature wear of the gasket.

PERIODIC MAINTENANCE

General Inspection

Visually inspect Door and hardware weekly for worn and/or broken parts. Check to be certain the Door operates smoothly and freely. If a Door becomes hard to operate, inoperative, or damaged, make necessary adjustments or repairs before further damage occurs.

Hinges and Latch

1. Check that Hinges are fastened solidly. If not, tighten or replace fasteners.
2. Check that the Door Leaf swings smoothly. If not, clean the area under the Door and check Hinges for wear.
3. Check that the Latch operates normally. The Latch should engage without undue force and the gasket should seal all around the Door when closed. Adjust Strike as necessary.
4. Check daily that the Inside Release is working properly. If frost is forming where the Inside Release penetrates the Door, remove the Inside Release and pack the shaft hole with food grade grease type NLGI #2 (Mobilgrease FM102 or equivalent).

Gaskets

1. Inspect the Bottom Neoprene Sweep Gasket for proper light-tight seal. Adjust or replace as needed.
2. Inspect the door Perimeter Gasket for proper 1/8" compression and light-tight seal. Adjust or replace as needed.

Door Sweep Heaters

1. Check for ice formation around door Sweep Gasket. Before determining a repair is necessary, be certain the Heater breaker switch is not off. Replace the thermostat or heat cable as needed.

Door Frame Heaters

1. Check for ice formation around door Perimeter Gasket. Before determining a repair is necessary, be certain the Heater breaker switch is not off. Replace the thermostat or heat cable as needed.

R-Plus Cold Storage Doors® WARRANTY

R-Plus Cold Storage Doors® warrants to the original purchaser of the doors it manufactures, that the foamed-in-place urethane components purchased from R-Plus Cold Storage Doors® are free from defects in material and workmanship for a period of five (5) years and a one (1) year warranty on all other parts from the date of original shipment under normal use and service. This warranty is limited to replacement (FOB R-Plus Cold Storage Doors®) of malfunctioning parts and does not include damage resulting from accident or malicious misuse.

Exclusive Warranty - No Implied Warranties

This written and expressed warranty is the only warranty provided by R-Plus Cold Storage Doors® on the products it sells.

All warranties, which might otherwise be implied in this contract, are hereby excluded from this contract. This includes the exclusion of any implied warrant of merchantability and fitness for a particular purpose. There are no warranties, which extend beyond the description of the warranties on the face hereof.

Exclusive Remedies

The buyer's exclusive remedy under this warranty or for the breach of this warranty shall be the repair or the replacement of the defective part by R-Plus Cold Storage Doors®. R-Plus Cold Storage Doors® shall repair, or at its option replace, F.O.B. the factory, any part of the product which its examination shall disclose, to its satisfaction, to be defective.

No other remedy, including rejection of goods, revocation of acceptance, nor consequential damages for personal or property damage, nor incidental damages shall be allowed to the buyer of this product.

Hardware, Electrical Components and Accessories

All hardware, electrical components and accessories are warranted to be free of defects in materials and workmanship under normal use and service for one (1) year from the date of original shipment.

Voidability of Warranty

This warranty is void and of no force or effect, and the buyer shall have no expressed or implied warranties against defects, nor remedies for defects, if any of the following events occur:

- The door(s) are not installed within 120 days of original shipment
- The door(s) are not installed by a factory authorized installer
- The door(s) have been subjected to improper installation, misuse, abuse, neglect, alteration, accident, fire, flood, earthquake or other natural disasters.

This warranty does not include food or product loss, labor or transportation charges for replacement or repair of defective parts. This warranty is nontransferable. The original purchaser is the firm or individual to whom R-Plus Cold Storage Doors® originally sold this product.

*R-Plus Cold Storage Doors® products are designed to operate within the following temperature ranges:

Interior Freezer: -20 degrees F. to 32 degrees F.

Interior Cooler: 33 degrees F. to 100 degrees F.

WE MUST BE NOTIFIED UPON PLACEMENT OF THE ORDER IF OPERATING TEMPERATURES ARE OUTSIDE THE ABOVE NORMAL DESIGN TEMPERATURES TO PROPERLY DESIGN THE PRODUCT OR THE WARRANTY MAY BE VOIDED.

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