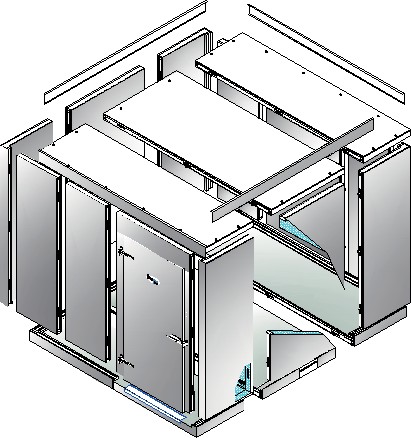
Rancho Cucamonga, CA – Winnebago, MN - Greeneville, TN - Olive Branch, MS

Rancho Cucamonga, CA - Winnebago, MN - Greeneville, TN









#### Installation Instructions

***Wood Frame & Foam Rail***

Rainy Road Holdings, Inc.

Rancho Cucamonga, CA - Winnebago, MN - Greeneville, TN

**EVERIDGE**

**EVERIDGE, Inc.**

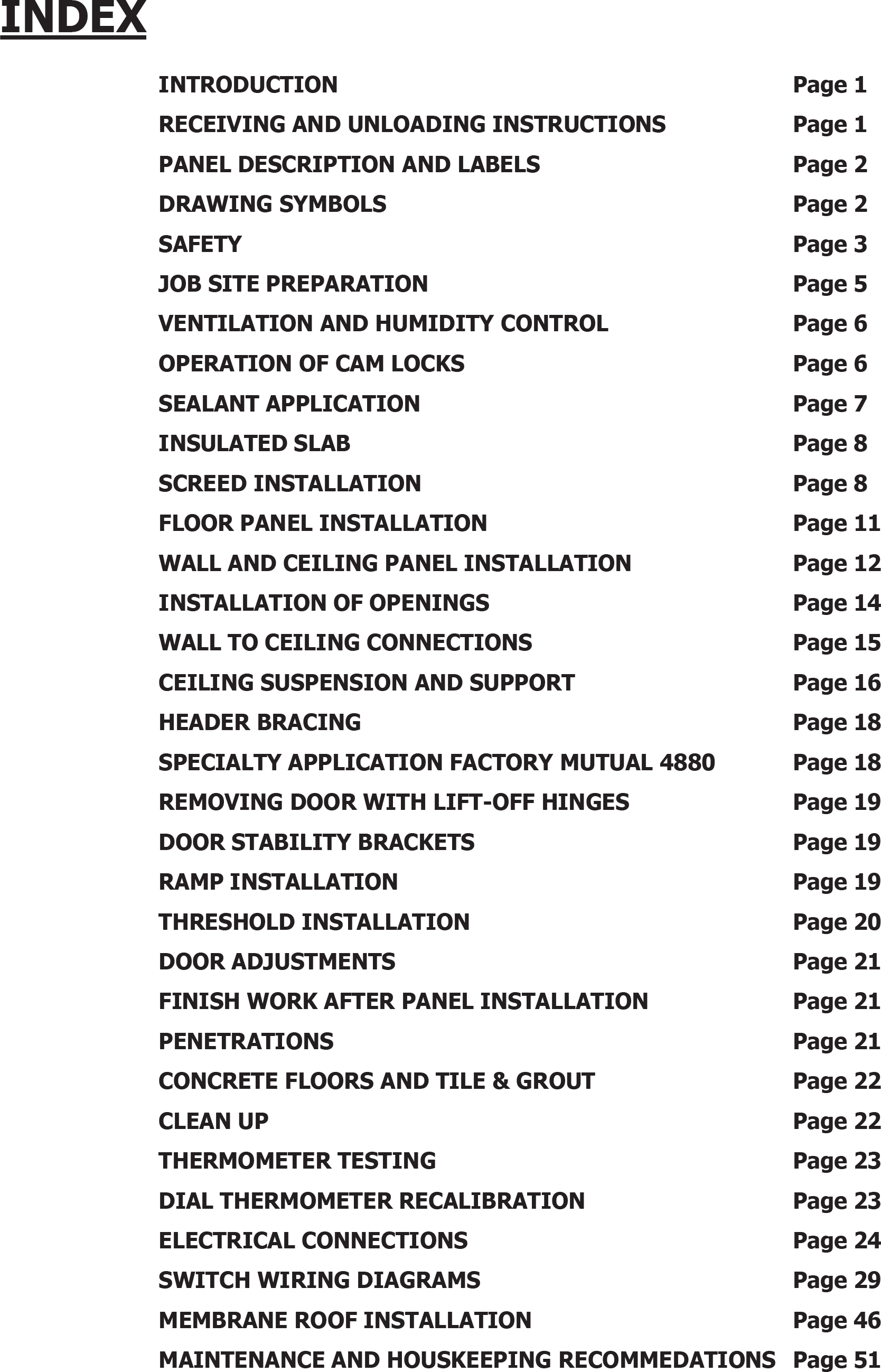
Corporate -15600 37th Ave N Plymouth, MN 55446

Phone: 800-523-7337

Fax: 763-541-1563

Manufacturing Locations:

Rancho Cucamonga, CA - Winnebago, MN - Greeneville, TN



**TENANCE AND HOUSEKEEPING RECOMMENDAT**

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**IONS**

**MAIN**

**Introduction**

As a company, we’re proud to say that this walk-in cooler or freezer was manufactured according to the standards that set us apart from all others. The following instructions are outlined to make the installation process operate safely and efficiently and it is important that they are thoroughly read and understood prior to installation. This manual provides basic instructions for the proper care, handling and installation of these

walk-in panels. All work should be performed by properly equipped and trained contractors.

### Receiving, Unloading and Storage Instructions

**Inspection of panels**

Examine shipment for obvious damage. Inspect all panels carefully to ensure that no damage has occurred during the shipping process.

* In the event of damage, the carrier and receiver must report the product damage on the bill of lading and both parties must sign.
* Immediately file a claim of damaged goods with the shipping company.
* Immediately notify the panel manufacturer Service/Installation Team by sending a copy of the marked up and signed bill of lading and pictures to the attention: Freight Claims. (Fax: 763-541- 1563)
* Receiver must notify Manufacturer of any concealed product damage within **10 days** of receipt of shipment. Any documentation, pictures and the original packaging material of the damaged item must be retained pending disposition of the damaged item.

Check the Delivery Receipt for the number of pieces that made up the shipment and make sure that the number of pallets, boxes or crates agrees with that number. Each piece should be clearly marked with the same order number followed by a dash.

**Inspection of Panel Installation Drawing**

A quick review of the panel layout will serve as guide for unloading panels. The hardware box contains the panel Installation drawing and each pallet will contain a packing list for all panels included on that pallet.

* For missing or replacement parts, contact the Manufacturer Customer Service Department immediately with the order number listed on the shipment.
* Select corners, t-walls, jambs, headers, sills, etc. and separate from standard wall panels such as 47” and 23”. This will reduce handling, save labor and reduce damage.

**Storage of Panels On-Site**

Panels must be stored indoors and protected from the elements prior to installation.

*Indoor walk-in(s) must be installed in an environmentally controlled space for optimal performance. Relative humidity should be between 50% - 60%, maintaining a low dew point.*

1

## Panel Description and Labels

Each panel is labeled to aid in identification and proper placement.



Customer Name Box Description

Panel identifier as shown on drawings

Exterior Finish Interior Finish

Arrow points to exterior

Product Brand

**CUSTOMER NAME**

UNIT DESCRIPTION

**#4**

Interior

Exterior

SW

SG

**162-097631-01**

WIDTH

23

HEIGHT

216

THICKNESS

5

Job Number

Panel width Panel height Panel thickness

Inspection sign off

FINAL INSPECTION

FOAM INS

ASSEMBLED BY

**FIG. 1 – PANEL IDENTIFICATION LABEL**

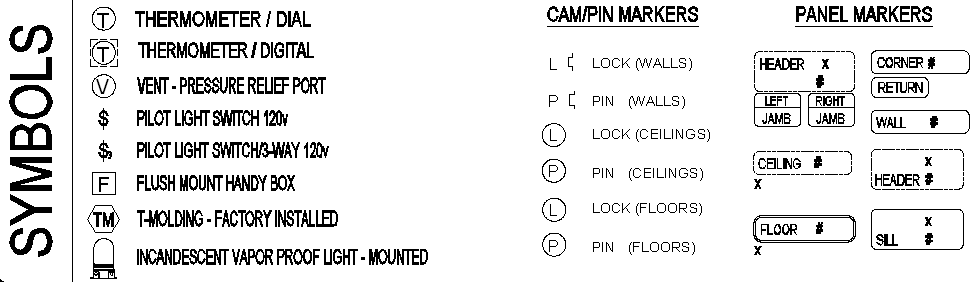


##### NSF Packaged Product Only option available for applications where food product is stored in original packaging only with no open food processing.

2

**Drawing Symbols**

Panel Installer shall review each drawing and become familiar with the symbols **(see below)** and panel layout for each compartment. Drawings for each walk-in are included in the hardware box. Panels are built with a tongue and groove system that integrates cam-locks, a fastening mechanism using a cam action hook that is turned to securely engage the pin for easy installation.



3

**Safety**

Please follow these safety guidelines when installing walk-ins:

* Required Personal Protective Equipment (PPE) for walk-in installation:
  + Hard Hats
  + Safety shoes per OSHA guidelines.
  + Safety Glasses
  + Protective Gloves
  + Protective Clothing- long pants and long sleeve shirts should be worn.
  + Safety Harnesses must be worn when working on elevated surfaces.
* A certified electrician must do all electrical wiring.
* Keep work-site free and clear of debris.
* Use proper lifting techniques and ASK for HELP when needed!
* USE COMMON SENSE; BE AWARE OF YOUR SURROUNDINGS.

Each job site is different, there may be other safety items required by the General Contractor. Always check with the General Contractor to make sure that you comply with all job-site rules.

**Safety and Other Symbols in this Installation Guide**

The following safety symbols are used throughout the Installation Guide to highlight safety information. Pay close attention to safety information.

The Warning Symbol Alerts you to potential personal injury situation. Read the warning and work carefully.

 The caution symbol alerts you to a situation in which property damage could be caused, either by the panel materials, or property in the installation area. Read the caution and work carefully.

**The following symbols are used throughout the Installation Guide to provide additional information that you may find helpful.**

 The freezer symbol precedes extra information which is relevant only to freezer installations.

The tip symbol precedes information that may make the installation process easier for you.

Tips are optional. Read the tip and decide if you want to apply it.

The Warranty Symbol precedes information related to required action to assure limited warranty is upheld.

**Read These General Safety Notices Before Beginning Any Installation Work**

Panels are heavy and require at least two people to move them safely. Lift with your legs, not your back.

To avoid injury while assembling the walk- in, wear protective eyewear, hard hat and steel- toed boots.

4

## Safety (continued)

Until the walls are made stable by constructing the corners, support extended wall lengths by bracing them from both inside and outside.

 The Installation Guide should be used as a general reference only. Follow your blueprint for specific information on your installation.

## Tools Needed

 You will need to purchase *(when not supplied with walk-in)* and apply sealant in the seams between panels, see page 7. Follow all of the safety precautions on the sealant package.

**WARNING! – THE HEATER CABLE AND HEATED AIR VENT MUST NOT BE ENERGIZED PRIOR TO THE REFRIGERATION STARTUP. FAILURE TO DO SO MAY RESULT IN PREMATURE HEATER BURNOUT AND VOID THE HEATER WARRANTIES.**

* Level



* Chalk line
* Caulk gun
* Tape measure
* Safety glasses
* Hammer
* Metal snips
* Pry bar
* Allen wrench
* Utility knife
* Square
* Drill driver
* Sledgehammer/Mall
* Phillips screwdriver

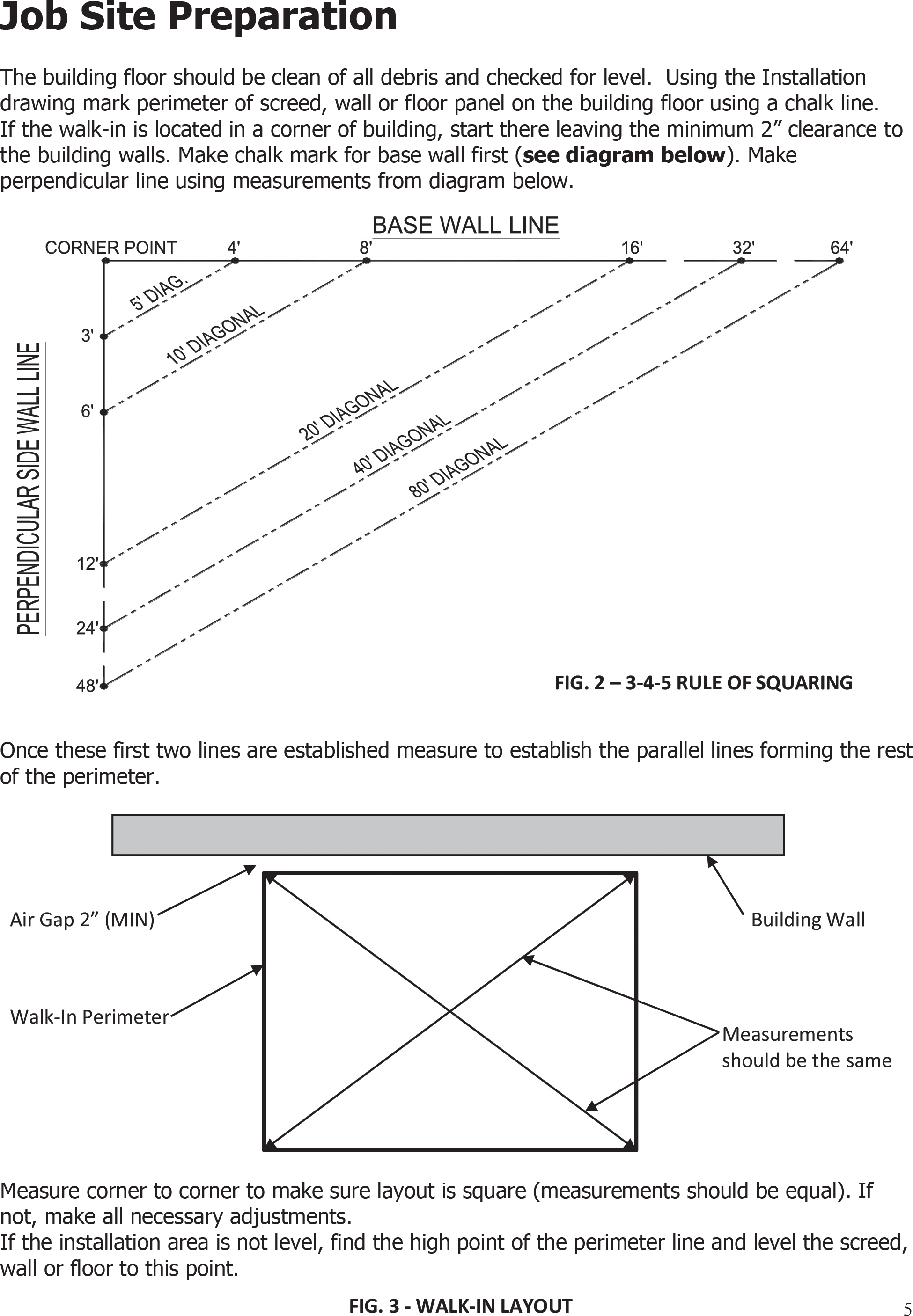
*WALK-IN MUST BE INSTALLED ON A LEVEL SURFACE!*

  Check the stability of the floor.

o All walk-ins must be placed on a stable foundation. Movement of the floor under the walk-in because of soil conditions, freezing / thawing, or other reasons can cause damage to the walk-in. Such damage is not covered by our warranty.

* + Check to see if floor is level. \**A LEVEL FLOOR IS CRITICAL\**
    - If the floor is not level, shims (not supplied) must be used as required under the wall panel, screed or panel floor to make the walls level. In some cases, sand leveling may be required, particularly for larger installations with uneven building floors.
  + Check overhead area where walk-in is to be installed for any obstructions.
    - Any obstruction should be corrected prior to starting.

5



6

# Ventilation and Humidity Control

*For indoor applications, it is the responsibility of the installer and the owner to make * *sure the walk-in has proper ventilation and humidity control.*

*Maintaining a minimum space of 2” for air movement is critical for wall and ceiling surfaces.*

*If inside conditions reach the dew point on outside surfaces of the walk-in, condensation will occur and the resulting damage would NOT be covered under panel warranty.*

*The sheet metal panel may be susceptible to staining due to excessive moisture created by hydration of concrete-type materials. Therefore, it is absolutely necessary that each room be properly ventilated. Also, please note that special precautions must be taken when using muriatic acid due to the effects of hydrochloric acid fumes have on different types of metal.*

*Any contractor using this cold storage room for storage of tools or materials without written permission from the owner does so at their own risk and is subject to property damage liability.*

**Operating Cam Locks**

The panels are held together with a cam-action hook and pin assembly. The cam lock should never be used to pull the panels together. The panels should be set in place making sure the top of the panels are level before the cam is locked.



1. Insert the hex wrench (packed in the hardware box) through the access hole in the interior panel metal into the hex opening of the cam-lock. Turn wrench in a counterclockwise direction to ensure that the lock is fully unlatched.
2. Push the sections tightly together and turn the wrench 1/4 turn in a clockwise direction. This will engage the locking arm (hook) over the pin in the lock housing.



1. Continue turning the wrench to a full stop (approximately 3/4 of a complete turn from the unlatched position) to complete the locking operation.

The cam-lock on some panels will have to be turned counterclockwise to activate the locking cam. These latches will be designated by a "TURN" sticker

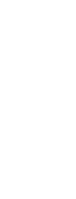
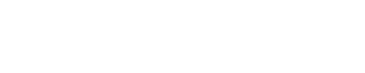
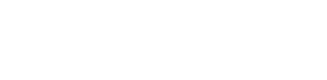
The tongue side of the wall panel and cam lock holes are on the right when viewed from the inside of the walk-in. The exact location of the tongue and groove for the ceiling and floor panels will be shown on the Installation drawing

7

# Sealant Application

On all freezer units (units that have an interior temperature equal to or less than 32°F/0°C) a ⅜” bead of non-drying Butyl

sealant as shown in the detail must be applied between all floor to floor, wall to floor, wall to wall, wall to ceiling, and ceiling to ceiling joints. This needs to be a continuous bead of butyl that extends the full length of each panel and around each corner to meet with the adjacent edge. Butyl should always be applied on the warm side of the panel unless specifically required on both sides per drawing details. This will guarantee that the panels will be sealed and prevent any air leaks that could form ice and damage the panels when units are brought down to operating temperature.



FREEZER PANEL FLOOR, TOP OR WALL

NON-DRYING BUTYL SEALANT (3/8” BEAD)

On all cooler units (units that have an internal temperature equal to or above 33°F/.9°C) a ⅜” bead of non-drying Butyl sealant must be applied at the wall to concrete floor

WARM SIDE

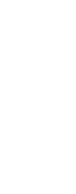
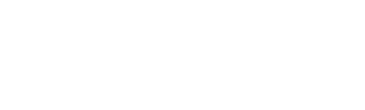
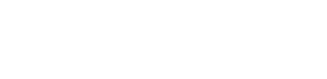
intersection. This needs to be a continuous bead of butyl. Butyl should always be applied on the warm side of the panel unless specifically required on both sides per drawing details. This will guarantee that the panels will be sealed and prevent any air leaks that could form condensation and damage the panels when units are brought down to operating temperature.



Panel joints are vapor tight not waterproof, therefore, all walk-ins installed outdoors will have recessed gasket on the outdoor side of panel joints to allow space for the installer to apply a sealant before the panels are assembled. Use a high quality sealant such as Xtra Bond 9500 or equal. An annual inspection for gaps in the sealant is required for the life of the warranty

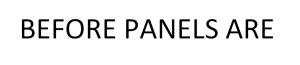
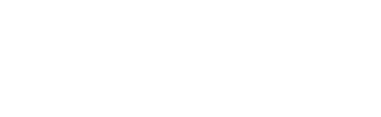
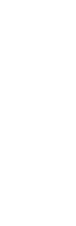
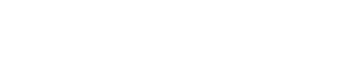
**FIG.4 - FREEZER PANEL**

**FIG. 5 - COOLER PANEL TO CONCRETE FLOOR**



COOLER PANEL WALL TO CONCRETE FLOOR

NON-DRYING BUTYL SEALANT (3/8” BEAD)

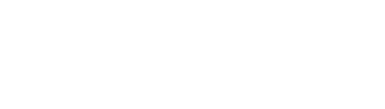
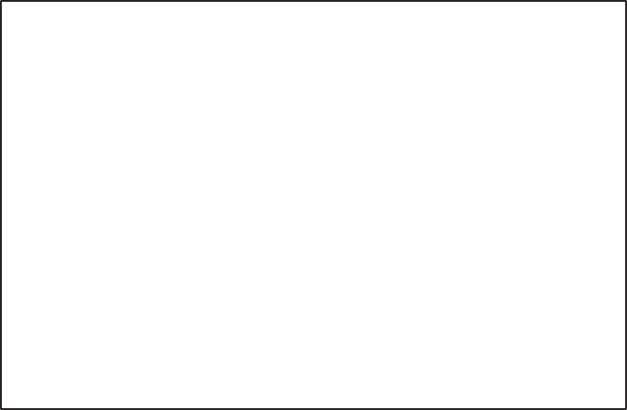


WARM SIDE

**FIG. 6 – SEALANT APPLICATION OUTDOOR UNITS**

Silicone sealant is used as an aesthetic application, as well as a moisture barrier. Silicone shall be applied in ¼” continuous beads to the interior and exterior of wall to non-panel floor joints and at the wall to ceiling joint on the interior of the walk-in. Silicone should be applied to a surface that is clean of debris and should be tooled to leave a clean, continuous edge. Proper tooling will also insure that the silicone has adhered to the surface properly and has filled any gaps that may collect moisture or debris. Also, drawing specifications will indicate silicone application on added trim, seismic angle, or accessory products.

APPLY SILICONE TO INTERIOR WALL TO CEILING PANEL INTERSECTION



APPLY SILICONE TO BOTH SIDES OF WALL TO CONCRETE FLOOR

**FIG. 7 - SILICONE SEALANT APPLICATION** 8

7

**Insulated Slab**

All freezers require insulated floor panels or an insulated slab. When an insulated slab is used, be sure the breaker strip is exposed and not covered by concrete or grout. The vapor barrier should be visible on the exterior of the breaker strip.

VAPOR BARRIER MUST BE ON THE WARM SIDE – UNDER THE INSULATION AND ON EXTERIOR OF BREAKER STRIP

WOOD BREAKER STRIP FLUSH WITH CONCRETE

WARE SLAB



INSULATION R-28 (MIN.)

FIG. 8 – INSULATED SLAB

The breaker strip and vapor barrier must be visible. If the breaker strip and vapor barrier are not visible **DO NOT INSTALL THE FREEZER**. Notify the General Contractor and Rainy Road Holdings, Inc. Service/Install Team immediately.

# Screed Installation

There are many styles of screeds. The type of screed used on your walk-in will be identified on the Installation drawing. The following details are for information only, consult the Installation drawing for details specific to your walk-in.

**Be sure you have the correct screed before fastening to floor.**



Place the screed on the floor using the chalk lines as guides (See Fig. 2 and 3). Screed type is described in the Installation drawings.

* A thermal separation (breaker strip) is required at all freezers to separate the interior concrete from the exterior concrete. The interior freezer concrete floor must be insulated and completely isolated. The screed is to be centered over the breaker strip.
* Apply a 3/8” bead of non-drying butyl sealant as shown in Fig. 9, 10 and 11.

Start at a back corner and fasten screed in place for two adjoining walls. Fasten screed as shown on Installation drawings with fasteners provided.

* To insure proper fit, do not install screed for remaining walls until wall panels for the first two walls are assembled.

9

# Screed Installation (continued)

VINYL CHANNEL SCREED

VINYL CHANNEL SCREEDS ARE SHIPPED IN 10 FOOT LENGTHS AND ARE FIELD CUT, NOTCHED AND MITERED TO FIT WALK-IN DIMENSIONS. FASTEN AT 24” OC WITH 8d NAIL TO WOOD BREAKER STRIP OR ¼” X 1



½” DRIVE PINS INTO CONCRETE.

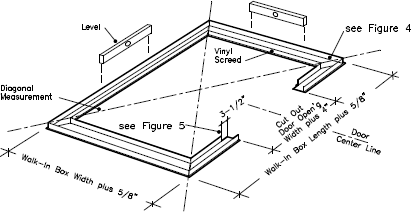
WALL PANEL

APPLY SILICONE AT TOP AND BOTTOM EDGES BOTH SIDES

SCREED IS NSF COVED

APPLY 3/8” BEAD NON-DRYING BUTYL SEALANT AT WARM SIDE 1 BEAD UNDER SCREED AND

1 BEAD INSIDE SCREED



INSULATED SLAB REQUIRED AT FREEZERS

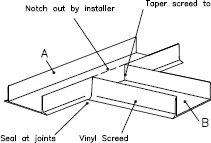


Strike chalk lines on the floor, using exterior walk-in box dimensions plus 5/8”. Lay a 3/8” bead of butyl around inside of chalk line. Set screed around chalk line, leveling and shim as required. Locate door section from installation drawings, cut out screed – door opening plus 4”, and notch inside of screed back 3 ½” at each side to receive door anchors. Fasten to floor.

**NOTE:** Vinyl screed must be square and level

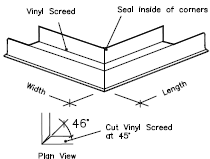
Notch out piece A and taper piece B to fit into notch at wall intersections. Miter the vinyl screed at 46° to insure proper fit. The inside corners need to be sealed after panels are set place and locked together.

See detail below

FIG. 9 – VINYL CHANNEL SCREED 10

in

9



**Screed Installation (continued)**

**CONCEALED ALLIGNMENT STRIP SCREED**

CONCEALED ALLIGNMENT STRIP SCREEDS ARE SHIPPED IN 8 FOOT LENGTHS AND ARE FIELD CUT TO FIT WALK-IN DIMENSIONS. FASTEN AT 24” OC WITH 8d NAIL TO WOOD BREAKER STRIP OR ¼” X 1 ½” DRIVE PINS INTO CONCRETE.

WALL PANEL

APPLY SILICONE AT BOTH SIDES OF WALL TO CONCRETE FLOOR



INSTALL NSF COVED BASE TRIM

APPLY 3/8” BEAD NON-DRYING BUTYL SEALANT AT WARM SIDE

INSULATED SLAB REQUIRED AT FREEZERS

**FIG. 10 – CONCEALED ALLIGNMENT STRIP**

**ANGLE SCREED**

ANGLE SCREEDS ARE SHIPPED IN 10 FOOT LENGTHS AND ARE FIELD CUT TO FIT WALK-IN DIMENSIONS. FASTEN AT 24” OC WITH



¼” X 1 ½” DRIVE PINS INTO CONCRETE AND

¼-14 X 1 ½” HEX WASHER HEAD TEK SCREWS

FOR NSF, TURN ANGLE UNDER WALL AND ADD COVED TRIM.

APPLY 3/8” BEAD NON-DRYING BUTYL SEALANT AT WARM SIDE

INSULATED SLAB REQUIRED AT FREEZERS

**FIG. 11 – ANGLE SCREED**

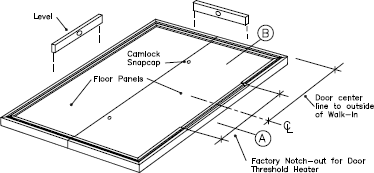
11

**Floor Panel Installation (if included)**

* Mark and level floor according to Job Site Preparation on page 5.
* Locate the highest point in the marked area and level to this point using shims located at 12” on center in all directions.

**IMPORTANT! The floor must be perfectly level! If not, the wall panels will not be square and plumb, the panel joints will not seal properly and the doors will not operate correctly.**

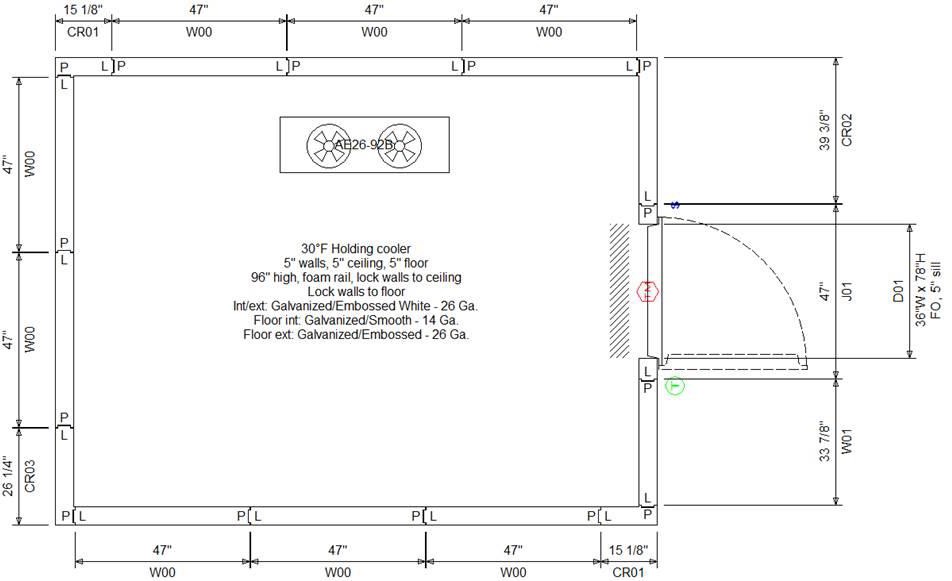
* Layout floor panels in the correct sequence as shown on the Installation drawings making sure they are level. Panels are labeled with numbers corresponding to those on the Installation drawing.
* See page 7 before locking any freezer panels together.
* Lock floor panels together making sure edges are flush and square.
* Install the remainder of the floor panels. When all of the floor panels are installed and leveled perfectly, check the cam locks for full and complete locking.



**FIG. 12 - FLOOR ASSEMBLY – EXAMPLE ONLY**

12

**Wall and Ceiling Panel Installation**



**Fig. 13 – INSTALLATION DRAWING – EXAMPLE ONLY**

It is important that you review the Installation drawings before starting the panel installation. Review figures 14 and 15 below showing the correct and the incorrect method of installation.

Panels are level and plumb Panels are not level and plumb



Wall Panels

Wall panels

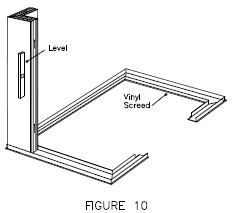
**FIG. 14 - CORRECT INSTALLATION FIG. 15 - INCORRECT INSTALLATION**

Before completing the installation of all the walls you will need to begin installing the ceiling panels. The ceiling panels will lock together in the same manner as the wall panels and care must be taken when aligning the ceiling panels to ensure a vapor tight seal. Remember to review the Installation drawings to verify how the ceiling panels will be secured to the walls – lock down, lag down or inside tie down. Also be sure that butyl has been applied properly in all locations (see page 7). If the ceilings are to be lagged down be sure not to over tighten the lags and cause damage to the exterior metal of the ceiling panels. Over tightening could cause the panel to lose its structural integrity.

13

# Wall and Ceiling Panel Installation (cont’d)

Each panel is labeled to aid in identification and proper placement, see page 2. The panel numbers are found on the labels and correspond with number on the Installation drawing. See Installation drawing for correct panel placement and sequence.



**Fig. 16 – START WITH A CORNER PANEL**

The walk-in wall panel erection should begin with the setting of a rear wall corner panel after the screed or floor panels are set in place.

NOTE: Wall panels must be plumb!

See page 7 before locking any freezer panels together.

Begin by cam locking corner panel and one wall panel together.

All panels have factory installed panel gaskets.  **If panel gaskets are damaged or torn they must be repaired prior to installation.**

This is very important so that the panel joints are vapor tight after installation.

‘T’ panels are used to connect a common wall that separates two walk-ins. Install ‘T’ panel and complete common wall before installing the opposite ‘T’ panel. Install wall panels in both directions.

Be sure panel edges are flush across the top and at seams. See page 12.

Once the third wall is started, begin top panel installation starting with an end ceiling. Install ceiling panels as wall panels are installed. See Installation drawing for correct ceiling panel placement, sequence and fastening to wall panels. **When installing ceiling panels, lock ceiling panels together first then lag bolt or cam lock wall panels to ceiling panels.**

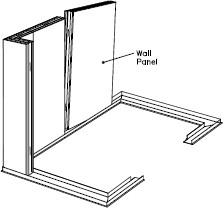
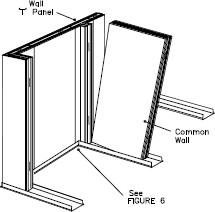


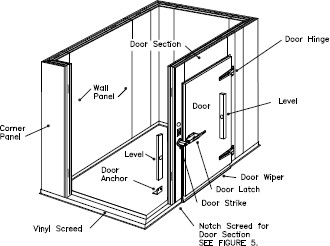
Fig. 17 – CAM LOCK WALL PANELS TO CORNER PANEL



**Fig. 18 – INSTALL WALL PANELS IN BOTH DIRECTIONS**

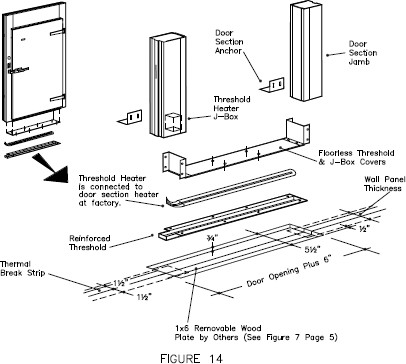
14

# Installation of Openings



**Fig. 19 – INSTALLATION OF DOOR SECTION – OVERLAP DOOR SHOWN – EXAMPLE ONLY**

**WARNING! The door and door section must be horizontally and vertically aligned to ensure proper sealing or the door before proceeding with panel installation. Make sure all openings are square, plumb and match the dimensions shown on the Installation drawings.**



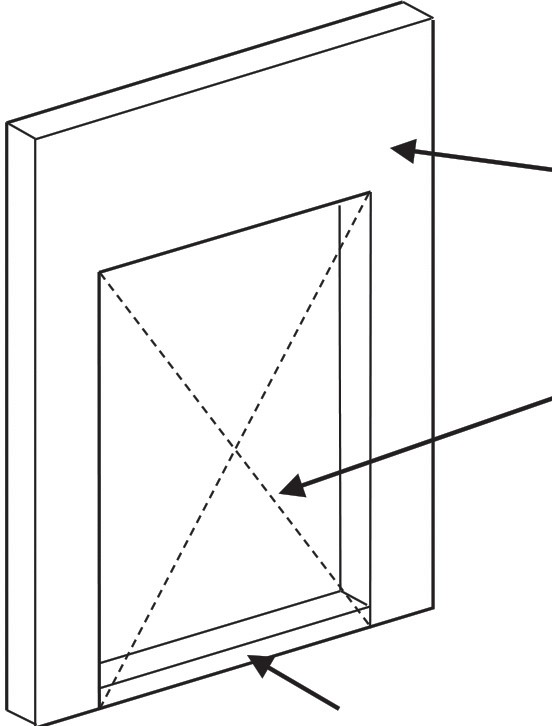
1

**Fig. 20 – INSTALLATION OF DOOR SECTION**

**OVERLAP DOOR WITH SEPARATE HEATED THRESHOLD SHOWN – EXAMPLE ONLY**

15

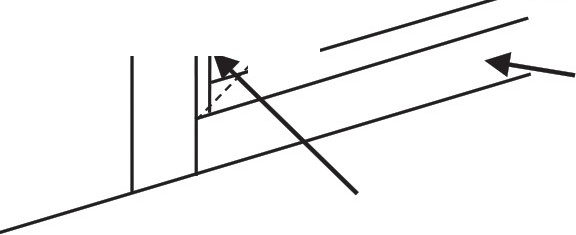
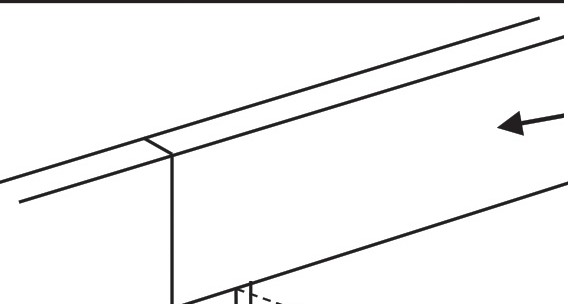
# Installation of Openings (continued)



DOOR SECTION

DIAGONAL MEASUREMENT METHOD

BLOCKING CUT TO SIZE OF DOOR OPENING WIDTH AS SHOWN ON INSTALLATION DRAWING



...-HEADER PANEL

--:;..:....

*/ / \_A. -* ;;t; MENT

SILL PANEL

BLOCKING CUT TO SIZE OF OPENING HEIGHT AS SHOWN

ON INSTALLATION DRAWING

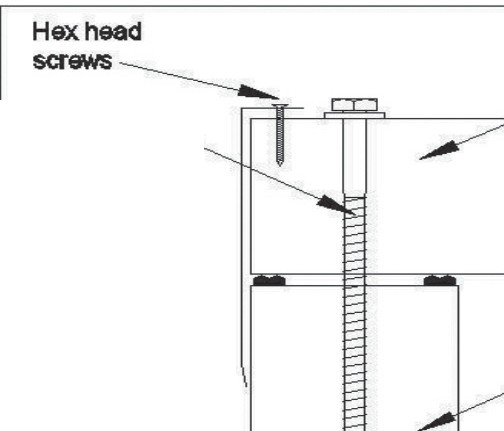
**Fig. 21 - DOOR SECTION Fig. 22 - GLASS DOOR OR WINDOW OPENING**

Use a spacer to ensure the bottom of the door opening is the same dimension as the top. Also use the diagonal measurement method to check that the opening is properly aligned and square. Install the door anchor angle at interior on both sides of opening. Fasten the angle to the interior of the door section jamb and floor panel or the building floor. The door must be dosed and latched before the door angle anchor is fastened to the floor.

When installing openings for reach-in doors or windovvs, use the same process but ensure that the height of the opening is correct and matches the dimensions on the Installation drawing.

**Wall to Ceiling Connections**

**lnsuated**



**3/8" 1ag bolt & wam er**

**Field inslaled**

**1rimcap**



Insulated

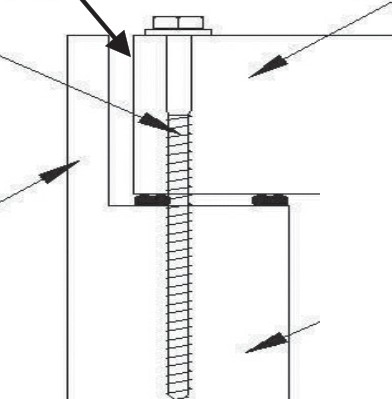
ceiling panel

ca m-look walls

to e<1lllng

Insulated

wall **panel**



**Fill with**

**spray foam**

Insulated ceiling panel

**3/8"1agbolt &washer**

Concealed wall top

ll'ISUated wall panel

**cellng panel**

**lnsula11ed**

**walpanel**

**FIG. 23 - LAG DOWN CEILINGS**

Fasten ceilings to walls with 3/8" lag bolts and washers at 23" on center.

Field install trim cap with #8 X

¾"screws at 24" on center

**FIG. 24 - LOCK DOWN CEILINGS**

Cam lock walls to ceilings

**FIG. 25 - FASCIA CEILINGS**

Fasten ceilings to walls with 3/8" lag bolts and washers at 23" on center. Fill gap between ceilings and fascia with spray foam

16

# Ceiling Suspension & Support

Ceilings may be supported by all-thread rod or wire suspension systems. The following details show the suspension system installation. See the Installation drawing for the type and location of your suspension system hanger brackets.



**FIG. 26 WIRE SUSPENSION**

**WOOD FRAME AND FOAM FRAME**

TOP PANEL

FASTEN WITH 6-8d

COATED NAILS

CAM-ACTION

FASTENER

4 STRANDS OF 12

GA GALVANIZED WIRE TO TOP CORD OF BAR JOIST

17

16



**FIG. 27 ALL-THREAD SUSPENSION**

**WOOD FRAME AND FOAM FRAME**

FASTEN WITH 6-8d

COATED NAILS

TOP PANEL

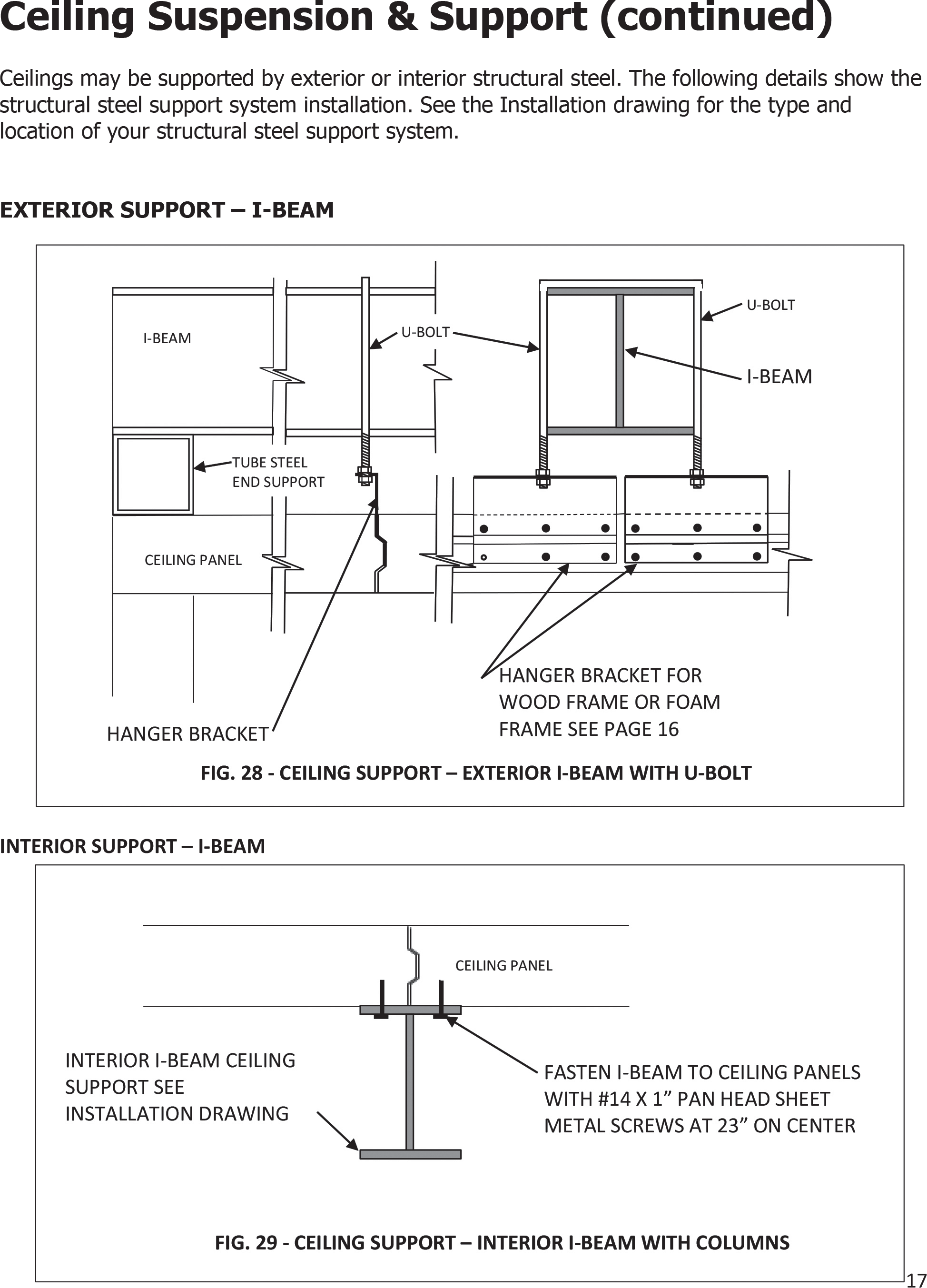
CAM-ACTION

FASTENER

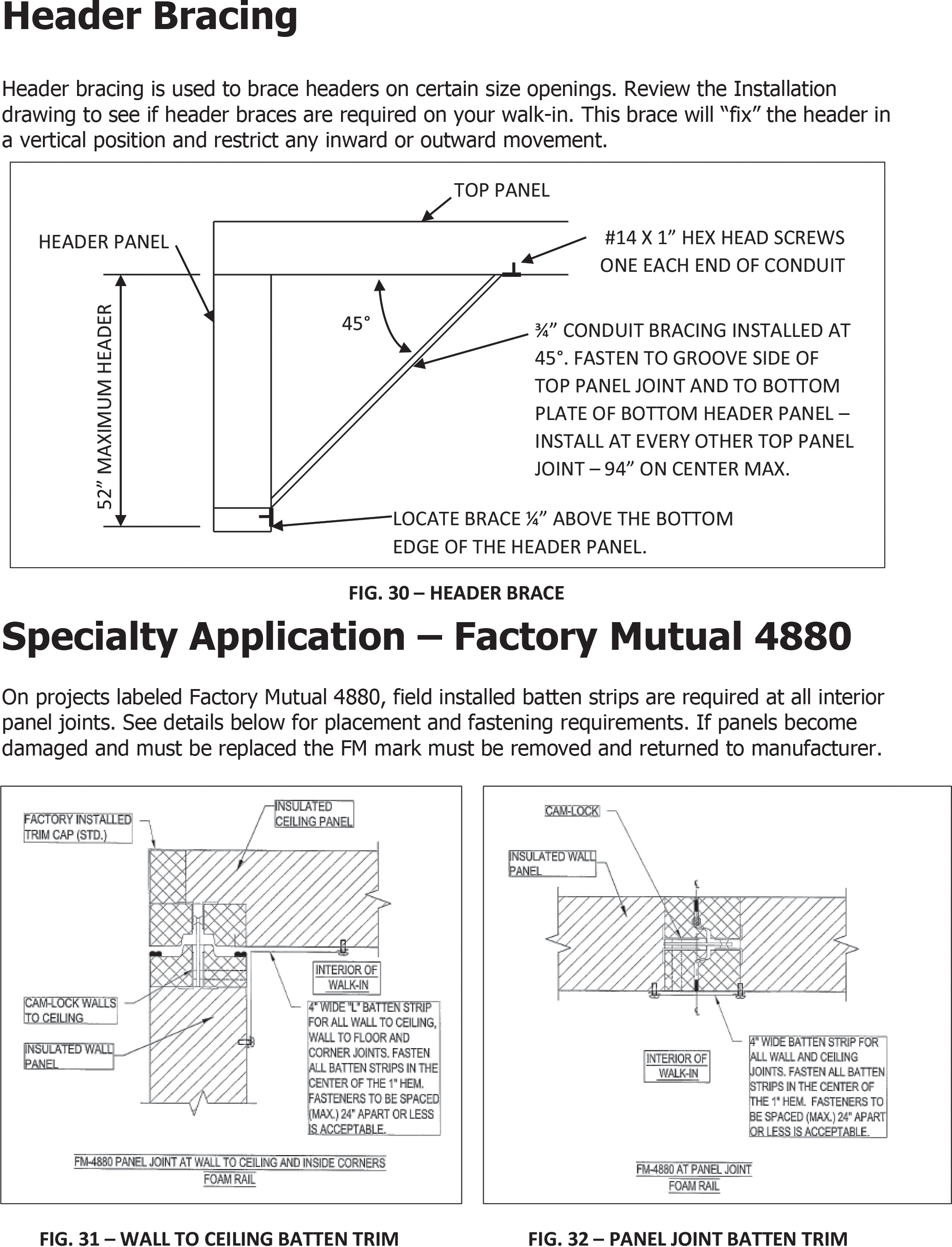
3/8” ALL-THREAD

FASTENING TO OVERHEAD STRUCTURE IS BY OTHERS

NUT AND WASHER ABOVE AND BELOW BRACKET



18



19

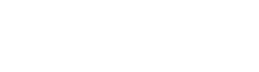
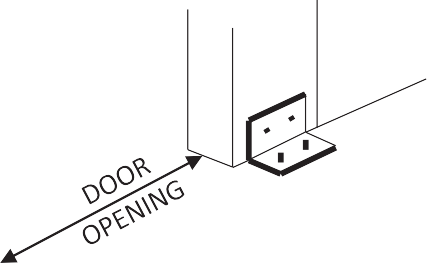
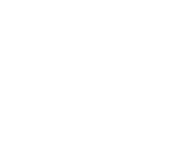
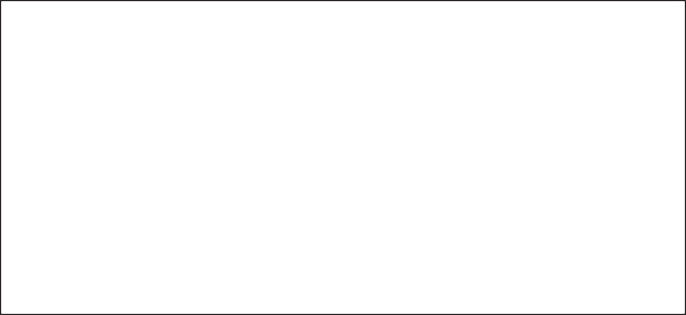
# Removing Doors with Lift-Off Hinges



Doors are factory installed on the door section. If the door has lift-off hinges and is to be removed, the following instructions must be followed:

* + Open door to the dwell position – approximately 120°.
  + Put a mark on the floor to indicate the position.
  + Lift door off the hinges.
  + To replace the door, line up the door with the mark on the floor.
  + Place hex hole in hinge straps over hex rods on hinge butt and lower door.

# Door Stability Brackets



DOOR SECTION

DOOR STABILITY

BRACKET

**FIG. 33 – DOOR STABILITY BRACKET**

Install 2” X 2” X 4” door stability bracket on each interior side of door section with 2-#14 X 2” Pan Head screws and to building floor with 2- 1/4” X 1 ¼” drive pins or to panel floor with 2-#14 X 2” Pan Head screws.

# Ramp Installation (if included)

INTERIOR RAMP INSTALLATION



APPLY BUTYL AT ALL INTERSECTIONS OF RAMP OPENING

RAMP COVER WITH NSF COVE. APPLY SEALANT TO ALL RAMP EDGES

Interior ramps are factory installed in floor panels. When this is not possible due to ramp location, the ramp must be field installed. Apply sealant at all intersections of ramp opening and concrete floor. Install ramp and ramp cover and fasten in place. Apply sealant to all ramp edges.

RAMP

RAMP COVER WITH NSF COVE APPLY SEALANT TO ALL RAMP EDGES

FIG. 34 – INTERIOR RAMP INSTALLATION

**EXTERIOR RAMP INSTALLATION**



Exterior ramps are shipped loose for field installation. Fasten to concrete floor using 2” X 2” – 4” angle and 2-¼” X 1 ¼” drive pins into concrete and 2- #14 X 2” Pan Head screws into ramp.

FIG. 35 – EXTERIOR RAMP INSTALLATION

19

20

# Threshold Installation (if included)

Cooler door openings typically do not require thresholds. However, cooler openings will require a threshold to cover the breaker strip if an insulated slab with breaker strip has been provided or if the cooler has been designed with an insulated panel floor. If this is the case, install the unheated threshold as detailed below for freezers.



Be sure to seal complete perimeter of threshold.

**THRESHOLDS AT FREEZER DOORS ON CONCRETE FLOOR**



THRESHOLD TURNED UP

WITH INTERIOR RAMP

FASTEN THRESHOLD WITH

CONCRETE ANCHORS

SWEEP SHOULD CURL

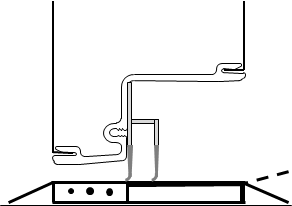
SLIGHTLY AT THRESHOLD

SWEEP

ADJUSTMENT SCREWS

HEATER AT

FREEZER DOOR



THRESHOLD TURNED UP

WITH INTERIOR RAMP

FASTEN THRESHOLD

WITH CONCRETE

SWEEP SHOULD CURL

SLIGHTLY AT THRESHOLD

SWEEP ADJUSTMENT SCREWS

HEATER AT FREEZER DOOR

FIG. 36 – HEATED SWEEP DESIGN FOR OVERLAP FREEZER DOORS FIELD INSTALLED THRESHOLD

**FIG. 37 – HEATED THRESHOLD DESIGN FOR FLUSH MOUNT FREEZER DOORS**

**THRESHOLD FACTORY ATTACHED TO DOOR SECTION**

**THRESHOLDS AT FREEZER DOORS ON PANEL FLOOR**



FASTEN THRESHOLD TO FLOOR PANEL

FLOOR BUIILD UP AT DOOR OPENING

SWEEP SHOULD CURL

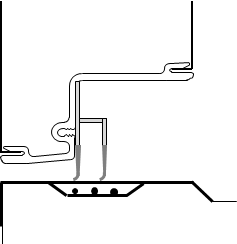
SLIGHTLY AT THRESHOLD

SWEEP

ADJUSTMENT SCREWS

HEATER AT

FREEZER DOOR



SWEEP ADJUSTMENT SCREWS HEATER AT

FREEZER DOOR

SWEEP SHOULD CURL SLIGHTLY AT THRESHOLD

FASTEN THRESHOLD TO FLOOR PANEL

FIG. 38 – HEATED SWEEP DESIGN FOR OVERLAP FREEZER DOORS ON FLOOR PANEL

**FIG. 39 – HEATED THRESHOLD DESIGN FOR FLUSH MOUNT FREEZER DOORS ON FLOOR PANEL**

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# Threshold Installation (cont’d)

THRESHOLDS AT FREEZER DOORS WITH TILE FLOOR



**DO NOT EXTEND TILE AND GROUT THROUGH THE FREEZER DOOR OPENING.**



THRESHOLD TILE AND GROUT

SEPARATION STRIP BREAKER STRIP

Any tile and grout on the interior of the freezer must be completely separated and isolated from the tile and grout on the exterior of the freezer

# Door Adjustments

* Check that door section is plumb and level

FIG. 40 –TILE AND GROUT AT FREEZER DOOR

* Check operation of door, adjust door section if necessary
* Check operation of latch and inside release
* Check magnetic gasket for proper seal
* Adjust sweep gasket down by loosening adjustment screws
* If sweep has more than slight curl, it must be trimmed to provide only a slight curl.

# Finish Work after Panel Assembly

* Remove protective covering from panels, if applied
* Check that all cam locks are engaged.
* Install vinyl plugs in cam lock access holes.
* Install any trim that is supplied. See Installation drawing for trim type and location.

# Penetrations



**FIG. 41 – PENETRATIONS**

CAM LOCK

ACCESS HOLE

6” RADIUS

PANEL JOINT

DO NOT CUT HOLES

WITHIN 6” OF CAM LOCK HOLE

In some instances it is necessary to make penetrations through the panels for electrical conduit or refrigeration lines.

**Some areas of the walk-in panels contain working parts and should not be penetrated. Do not make penetrations within 6” of cam lock holes. Completely seal penetrations with sealant after electrical or refrigeration lines are installed through panels.**

21

22

# Concrete Floors and Tile and Grout

Gas emitted by curing concrete floors or tile grout will damage panel finishes. Adequate ventilation must be provided when the concrete floor or tile setting bed and grout have not properly cured. Leave all doors open for ventilation. If concrete or tile is to be installed after walk-in is assembled, protect the wall finish by applying a protective covering.

**Clean Up**

Clean panels of any dirt, metal shavings, sealants or other types of debris. Using a non-abrasive clean dry, cloth for dust removal is critical. Metal surfaces will scratch. The use of petroleum based cleaners such as WD-40 will loosen butyl and silicone residue for easier clean up. Use any cleaner with a silicate or phosphate base having a PH level of 11 or less in use. This category includes nearly any off the shelf products found in local stores such as “Tide”, “All” or any commercial dish washing detergent and hot water.

UNACCEPTABLE CLEANERS

Any chlorine based cleaner. Cleaners containing sodium hydroxide (i.e., caustic soda), potassium hydroxide, or ammonium hydroxide should not be used. This group includes nearly all “heavy duty” or “industrial strength” cleaners. Any cleaner showing a skull with crossed bones indicating it is poisonous will always contain caustic soda. Use of these types of cleaners can damage the walk-in surfaces or create toxic gases if improperly used. As these are poisonous, use in a food storage area is not advised.

VENTILATE THE AREA

While using any cleaners be sure the area is well ventilated. Personnel must take proper precautions to ensure the safety of crews cleaning and preparing the panels for the end user.

TOUCH UP PAINT

After panels have been wiped down, touch up paint will need to be applied on all scratches. The touch up paint is provided and will be located in the hardware box.

23

**Thermometer Testing**

To test for thermometer accuracy, use a mixture of crushed ice and water mixed to form a slush. Place the thermometer bulb in the mixture and check reading. The thermometer should read approximately 32°F. If not recalibrate per instructions. Digital thermometers cannot be field calibrated.

Thermometer testing is a required part of the installation to insure against miss-calibration that may have occurred during shipment.

**Dial Thermometer Recalibration**

If the dial does not read approximately 32°F, then remove the clear cover of the thermometer. The cover will screw off or pry off.

 Care must be taken not to break or damage the cover.

To lower the reading, carefully hold the pointer, insert screwdriver in the pointer slot and slowly turn clockwise a small amount. Adjust to proper setting.

To raise the reading, carefully hold the pointer, insert screwdriver in the pointer slot and slowly turn counter clockwise a small amount. Adjust to proper setting.

Carefully reinstall the cover on the thermometer.

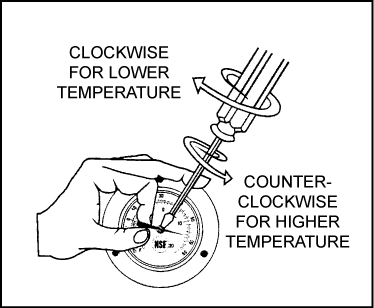
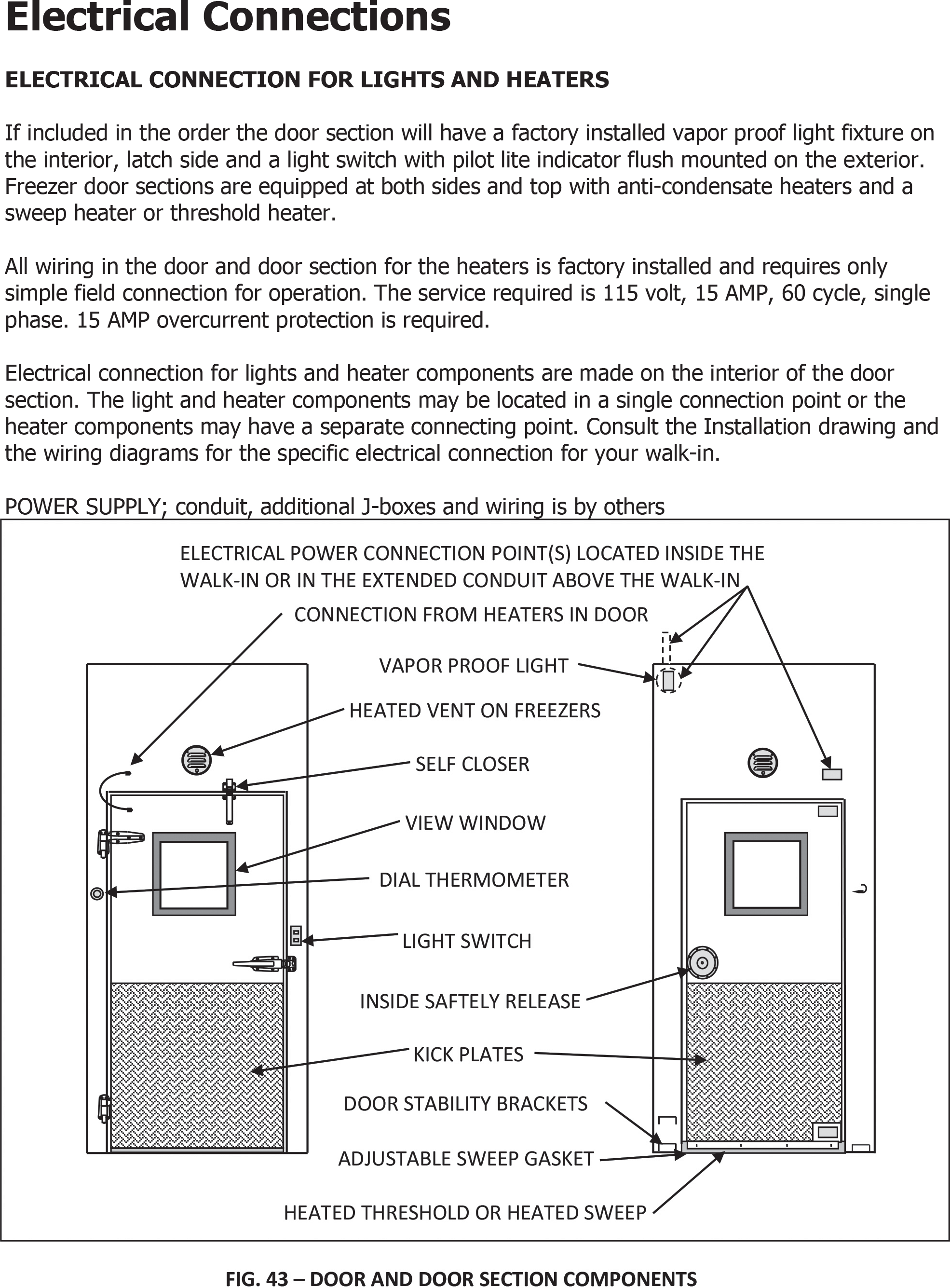


FIG. 42 – DIAL THERMOMETER RECALIBRATION

24



25

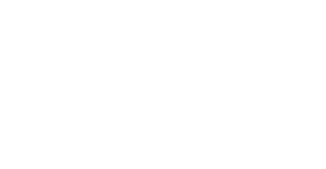
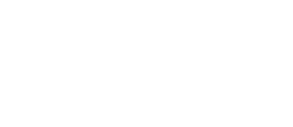
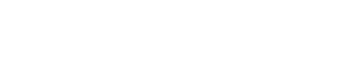
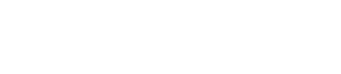
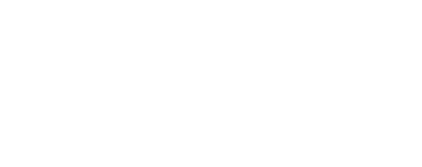
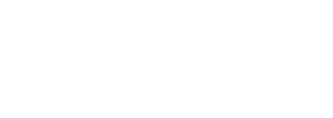
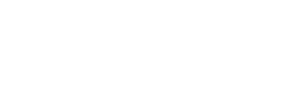
2-POINT POWER CONNECTION

**CONDUIT AND J-BOX PLACEMENT**

**2-POINT CONNECTION**

**Electrical contractor to seal ceiling penetrations after installing field mounted ** **conduit, place seal-off inside conduit prior to entering walk-in and fill with**

**waterproof compound.**



HEATED VENT

½” CONDUIT

HEATER POWER

CONNECTION J-BOX OPEN TO INTERIOR

WHEN NOTED ON DRAWING

CONDUIT IS EXTENDED ABOVE DOOR SECTION FOR POWER CONNECTIONS

CONDUIT TO EXTERIOR

FOR WIRING HARNESS

CONDUIT FOR JAMB

HEATER CONNECTION

LIGHTING POWER

CONNECTION J-BOX OPEN TO INTERIOR

½” CONDUIT

HARNESS AND SWEEP

HEATER CONNECTION J-BOX OPEN TO INTERIOR

SWITCH J-BOX

OPEN TO EXTERIOR

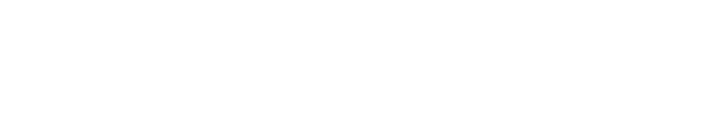
½” CONDUIT

SWEEEP HEATER

CONNECTION J-BOX OPEN TO INTERIOR

DOOR FRAME

DOOR



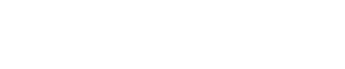
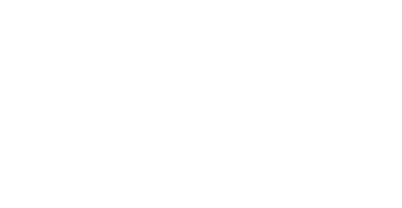
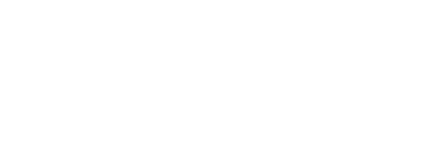
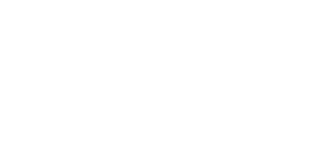
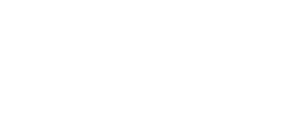
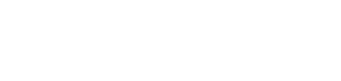
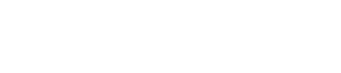
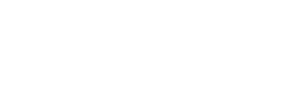
**FIG. 44 – CONDUIT AND J-BOX PLACEMENT 2-POINT CONNECTION**

26

SINGLE POINT POWER CONNECTION

**Electrical contractor to seal ceiling penetrations after installing field mounted ** **conduit, place seal-off inside conduit prior to entering walk-in and fill with**

**waterproof compound.**



HEATED VENT

½” CONDUIT

HEATER POWER

CONNECTION J-BOX OPEN TO INTERIOR

WHEN NOTED ON DRAWING

CONDUIT IS EXTENDED ABOVE DOOR SECTION FOR POWER CONNECTIONS

CONDUIT TO EXTERIOR

FOR WIRING HARNESS

CONDUIT FOR JAMB

HEATER CONNECTION

SINGLE POINT POWER

CONNECTION J-BOX OPEN TO INTERIOR WITH SURFACE MOUNTED 4 X 4 ON INTERIOR

HARNESS AND HEATED

WINDOW (OPT) CONNECTION J-BOX OPEN TO INTERIOR

½” CONDUIT

SWITCH J-BOX

OPEN TO EXTERIOR

DOOR FRAME

ALTERNATE THRESHOLD

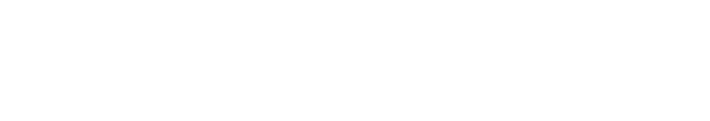
HEATER J-BOX

DOOR

27

**CONDUIT AND J-BOX PLACEMENT**

**SINGLE POINT CONNECTION**



**FIG. 45 – CONDUIT AND J-BOX PLACEMENT SINGLE POINT CONNECTION**

ELECTRICAL CONDUIT AND J-BOXES HEATER CONNECTIONS

 **WARNING! – THE HEATER CABLE AND HEATED AIR VENT MUST NOT BE ENERGIZED PRIOR TO THE REFRIGERATION STARTUP. FAILURE TO DO SO MAY RESULT IN PREMATURE HEATER BURNOUT AND VOID THE HEATER WARRANTIES.**

TO HEATED VENT

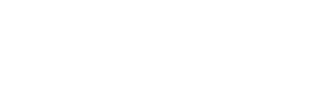


TO DOOR HARNESS

TO POWER CONNECTION J-BOX FOR SINGLE POINT CONNECTION

TO JAMB HEATER

**HEATER J-BOX**

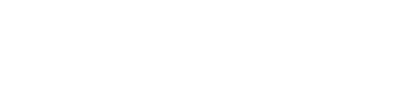


TO DOOR HARNESS

TO SWEEP HEATER

CONNECTION J-BOX

**HARNESS AND SWEEP HEATER CONNECTION J-BOX**



TO HARNESS AND SWEEP

HEATER CONNECTION J-BOX

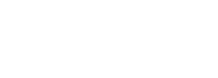
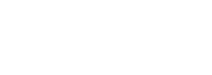
TO SWEEP HEATER

**SWEEP HEATER J-BOX**

**FIG. 46 – HEATER CONNECTION J-BOXES** 28

**SWITCH LAYOUT**

S4



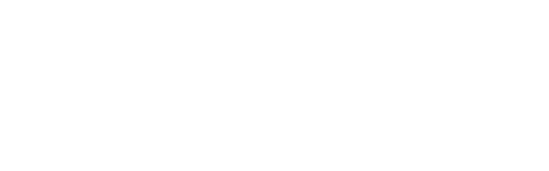
POWER OUT

TO LIGHT

POWER INTO

SWITCH

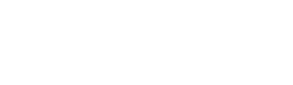
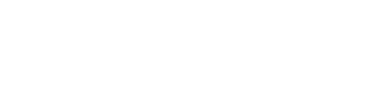
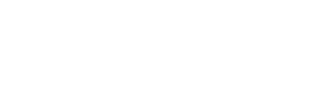
S



**ONE ENTRANCE WITH ONE SWITCH**

USE SINGLE POLE SWITCH

SEE WIRING DIAGRAMS



S3

POWER OUT OF SECOND

3-WAYSWITCH TO LIGHT

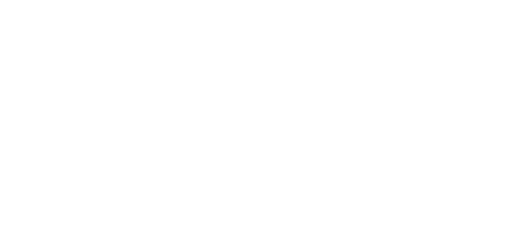
TRAVELERS BETWEEN

SWITCHES

S3

POWER INTO FIRST

3-WAY SWITCH



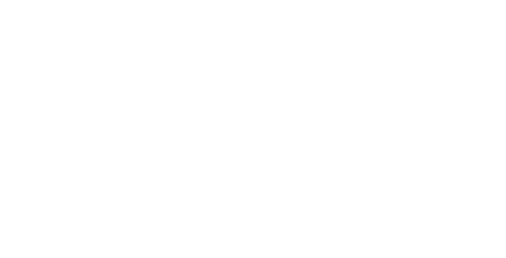
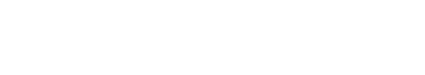
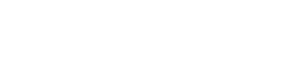
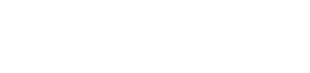
**TWO ENTRANCES WITH ONE**

**SWITCH EACH**

USE TWO 3-WAY SWITCHES

SEE WIRING DIAGRAMS

29



S4

TRAVELERS BETWEEN

SWITCHES

**MORE THAN TWO ENTRANCES**

**WITH ONE SWITCH EACH**

POWER OUT OF LAST 3-WAY

SWITCH TO LIGHT

USE TWO 3-WAY SWITCHES AT FIRST

AND LAST LOCATION AND 4-WAY SWITCHES IN BETWEEN

SEE WIRING DIAGRAMS

S3

POWER INTO FIRST

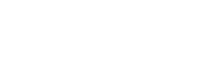
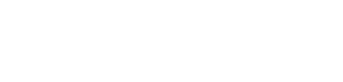
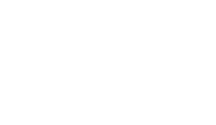
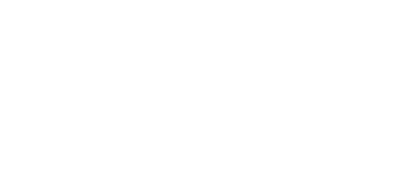
3-WAY SWITCH

S3

FIG. 47 – SWITCH LAYOUT

**Switch Wiring Diagrams**

MARK LIGHT SWITCH POWER CONNECTION MARK HEATER POWER CONNECTION



POWER CONNECTION J-BOX

THESE LEADS FOR FIELD POWER CONNECTION

LIGHT BASE

IF REQUIRED

TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT CONNECTION

½” CONDUIT

BLACK

GREEN

WHITE RED

SWITCH J-BOX

B1 WHITE

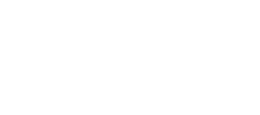
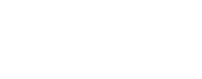
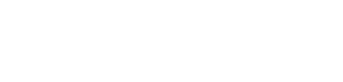
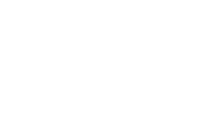
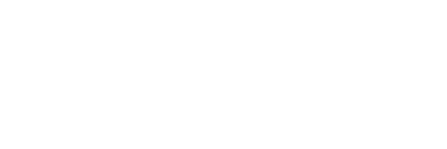
A1 RED

**SINGLE POLE SWITCH**

29

**FIG. 48 – SINGLE POLE SWITCH WIRING** 30

LIGHT SWITCH POWER CONNECTION



HEATER POWER CONNECTION POWER

CONNECTION J-BOX

THESE LEADS FOR FIELD POWER CONNECTION

TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT CONNECTION

LIGHT BASE IF REQUIRED

½” CONDUIT

BATTERY BACK UP

MAGNETIC DOOR SENSOR

TEMPERATURE PROBE

BLACK WHITE

J-BOX

FRONT

GROUND TO J-BOX

GREEN

RED

VIEW

**WEISS ALARM WITH BATTERY BACK UP**

YELLOW

31

FIG. 49 – WEISS ALARM WITH BATTERY BACK UP SINGLE POLE SWITCH WIRING

30

MARK LIGHT SWITCH POWER CONNECTION HEATER POWER CONNECTION

POWER CONNECTION J-BOX

THESE LEADS FOR FIELD POWER CONNECTION

TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT CONNECTION

LIGHT BASE

IF REQUIRED

½” CONDUIT



FRONT VIEW

GREE

GROUND TO J-BOX

BLACK

WHITE

75LC SWITCH J-BOX IP-1 J-BOX

RED

TEMPERATURE PROBE

**75LC SWITCH**

MAGNETIC DOOR SENSOR

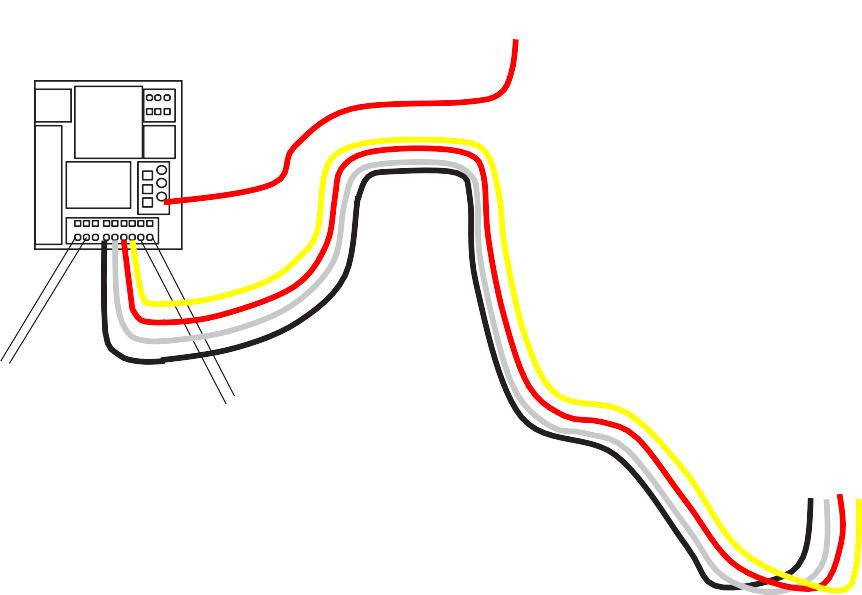
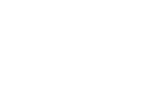
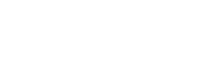
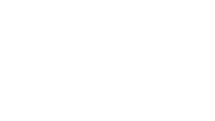
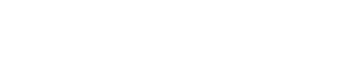
IP-1

**PANIC**

**PRESS TO KEEP LIGHTS ON WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

BLACK YELLOW



RED

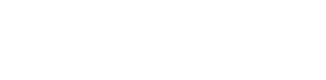
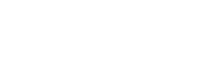
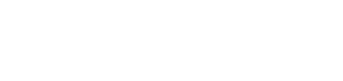
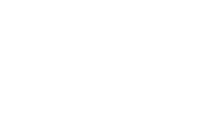
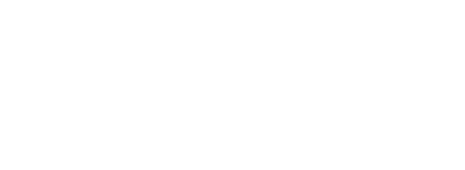
FIG. 50 – MODULARM 75LC WITH IP-1 SINGLE POLE SWITCH WIRING

FRONT VIEW

32

31

LIGHT SWITCH POWER CONNECTION HEATER POWER CONNECTION



THESE LEADS FOR FIELD POWER CONNECTION

POWER CONNECTION J-BOX

TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT CONNECTION

LIGHT BASE IF REQUIRED

½” CONDUIT

GROUND TO J-BOX

GREEN

WHITE

RED

**3**

**6**

J-BOX

BLACK

**1**

**2**

**4**

**5**

FRONT VIEW

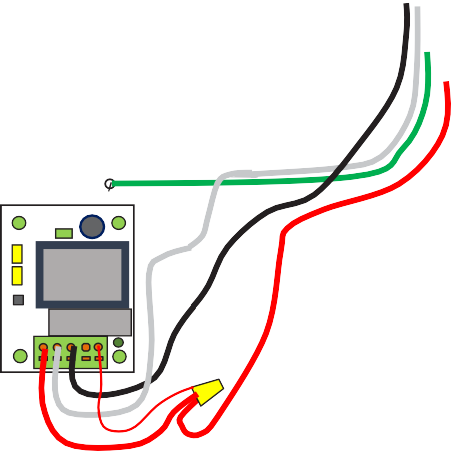
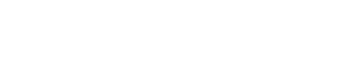
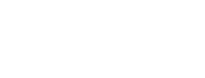
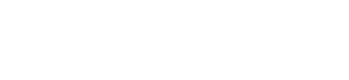
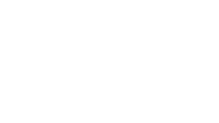
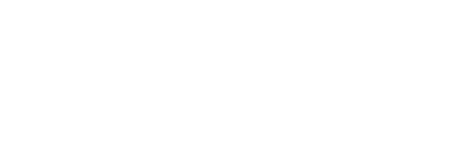
**KASON PRESS SWITCH SINGLE POLE**

33

FIG. 51 – KASON PRESS SWITCH SINGLE POLE SWITCH WIRING

32

LIGHT SWITCH POWER CONNECTION HEATER POWER CONNECTION



THESE LEADS FOR FIELD POWER CONNECTION

POWER CONNECTION J-BOX

TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT CONNECTION

LIGHT BASE IF REQUIRED

½” CONDUIT

J-BOX

GROUND TO J-BOX

GREEN

WHITE

BLACK

RED

FRONT VIEW

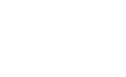
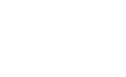
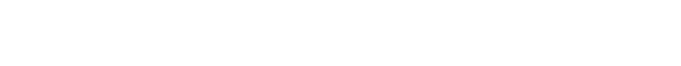
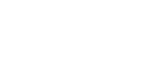
**KASON 1967-3 SWITCH SINGLE POLE**

34

FIG. 52 – KASON 1967-3 SWITCH SINGLE POLE SWITCH WIRING

33

POWER SUPPLY POWER SUPPLY, CONDUIT, WIRING AND JUNCTION



JUNCTION

BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION

WHITE RED

GREEN

BLUE

BLUE

LIGHT BASE

BLACK

BLUE

BLUE

BLUE

LIGHT BASE

B1 WHITE

GREEN

WHITE

GREEN

WHITTE

RED

B1 WHITE

A1 & A2

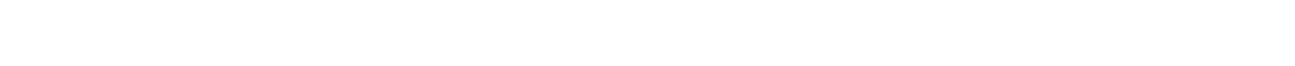


**3-WAY SWITCH**

A1 & A2 BLUE

**3-WAY SWITCH**

BLUE



**WALK-IN WITH 2 DOORS, 2 LIGHTS AND 2 – 3 WAY SWITCHES**

FIG. 53 – 3-WAY SWITCH WIRING

34

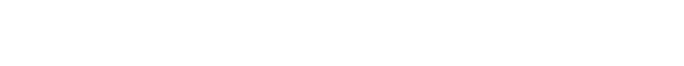
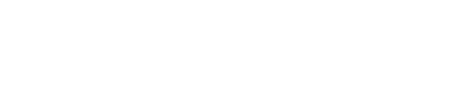
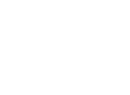
35

POWER

JUNCTION

POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION



FRONT VIEW

**MD-1**

GREEN

GROUND TO J-BOX

FRONT VIEW

TEMPERATUR

**75LC**

MAGNETIC

E PROBE

MAGNETIC

DOOR SENSOR

**PRESS TO KEEP LIGHTS ON**

**WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

**75LC IN UNITS WITH 2 DOORS** MUST BE INSTALLED WITH MD-1 AS ONLY 1 DOOR HAS A SWITCH

DOOR

**PANIC**

**IP-1**

BLACK

YELLOW RED

WHITE

**IP-1**

BLACK

YELLOW

RED WHITE

FIG. 54 – 75LC IN UNIITS WITH 2 DOORS SWITCH WIRING

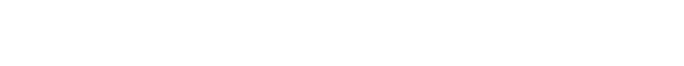
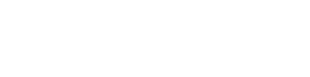
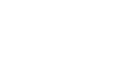
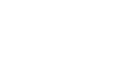
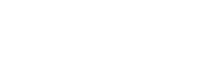
35



FRONT VIEW

36

POWER SUPPLY



POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX JUNCTION

BOX

WHITE RED

BLACK GREEN

BLUE

BLUE

LIGHT BASE

WHITE

BLACK

BLUE

BLUE

RED

BLUE

BLACK

LIGHT BASE

GROUND

GREEN

GREEN

WHITTE

TO J-BOX

**3**

**6**

**3**

**6**

GROUND TO J-BOX

BLAC

**1**

**2**

**4**

**5**

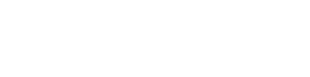
**1**

**2**

**4**

**5**

FRONT

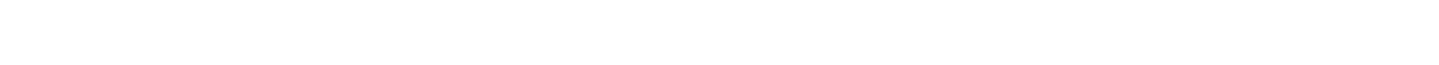


**KASON PRESS SWITCH**

FRONT

**KASON PRESS SWITCH**

BLUE



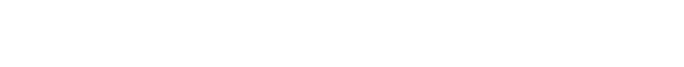
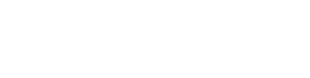
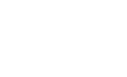
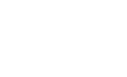
**WALK-IN WITH 2 DOORS, 2 LIGHTS AND 2 – 3 WAY SWITCHES PRESS**

**FIG. 55 – KASON PRESS 3-WAY SWITCH WIRING**

36

37

POWER SUPPLY



POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX JUNCTION

WHITE RED

BLACK GREEN

BLUE

BLUE

LIGHT BASE

WHITE

BLACK

BLUE

BLUE

RED

BLUE

BLACK

LIGHT BASE

GROUND TO J-BOX

GREEN

**3**

**6**

GREEN

WHITTE

**3**

**6**

GROUND TO J-BOX

BLAC

**1**

**2**

**4**

**5**

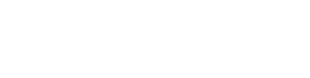
**1**

**2**

**4**

**5**

FRONT VIEW

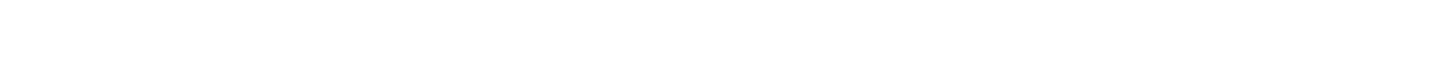


**KASON PRESS SWITCH**

FRONT VIEW

**KASON PRESS SWITCH**

BLUE



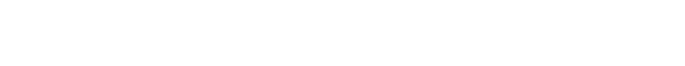
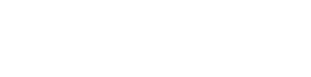
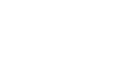
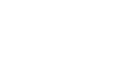
**WALK-IN WITH 2 DOORS, 2 LIGHTS AND 2 – 3 WAY SWITCHES PRESS**

**FIG. 56 – KASON PRESS 3-WAY SWITCH WIRING**

37

38

POWER SUPPLY



POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX JUNCTION

WHITE RED

BLACK GREEN

BLUE

BLUE

LIGHT BASE

BLACK

BLUE

BLUE

RED

BLUE

BLACK

LIGHT BASE

GROUND TO J-BOX

GREEN

WHITE

GREEN

WHITTE

GROUND TO J-BOX

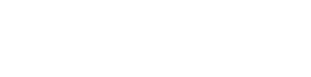
**2**

**3**

**5**

**6**

FRONT VIEW



**KASON 1967-3 SWITCH AS 3-WAY**



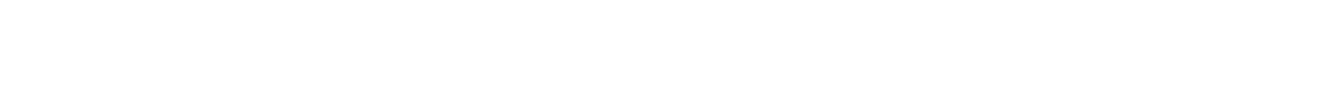
FRONT VIEW

**1**

**4**

**KASON PRESS SWITCH**

BLUE



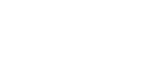
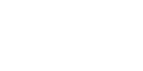
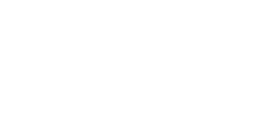
**WALK-IN WITH 2 DOORS, 2 LIGHTS AND 2 – 1967-3 AS 3 WAY SWITCH AND 3 WAY PRESS SWITCH**

**FIG. 57 – KASON 1967-3 WIRING AS 3-WAY**

38

39

POWER SUPPLY POWER SUPPLY, CONDUIT, WIRING AND



JUNCTION BOX

JUNCTION BOXES FOR FIELD CONNECTION ARE BY

JUNCTION BOX

WHITE RED

GREEN

BLUE

BLUE

BLUE

LIGHT BASE

BLUE

BLUE

LIGHT BASE

BLUE

LIGHT BASE

BLACK

BLUE

GREEN

BLUE

RED

BLUE

BLUE TRAVELERS WRAPPED IN PAIRS

B1 WHITE

GREEN

WHITE

BLUE

BLUE

GREEN

WHITTE

B1 WHITE

A1 & A2 BLUE

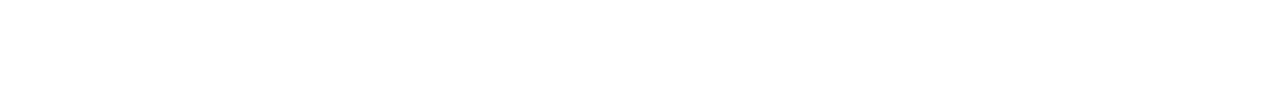


**3-WAY SWITCH**

**4-WAY SWITCH**

A1 & A2 BLUE

##### 3-WAY SWITCH



**WALK-IN WITH AT LEAST 3 DOORS, 3 LIGHTS AND 2 – 3 WAY SWITCHES AND 1 OR MORE 4-WAY SWITCHES**

FIG. 58 – SWITCH WIRING 4-WAY

39

40

POWER SUPPLY

POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX

JUNCTION BOX

JUNCTION BOX

FRONT VIEW

**MD-**

GREEN

GROUND TO J-BOX

FRONT VIEW

TEMPERATURE

**75LC**

RED

MAGNETIC DOOR

MAGNETIC DOOR

PROBE MAGNETIC

DOOR SENSOR

**PRESS TO KEEP LIGHTS ON WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

**PANIC**



FRONT VIEW

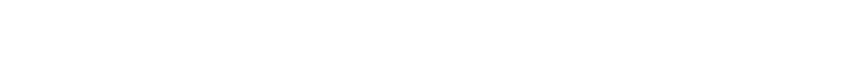
**IP-1**

YELLOW RED

WHITE

BLACK

**IP-1**



**75LC IN UNITS WITH 3 DOORS**

MUST BE INSTALLED WITH MD-1 AS ONLY 1 DOOR HAS A SWITCH

BLACK

YELLOW

RED WHITE

**IP-1**

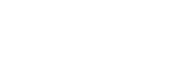
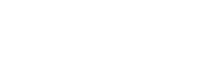
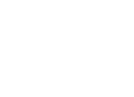
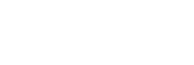
BLACK

YELLOW

RED WHITE

FIG. 59 – 75LC WIRING at 3 DOORS

40



41

POWER SUPPLY

POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX

JUNCTION BOX

JUNCTION BOX

FRONT VIEW

**MD-**

GREEN

GROUND TO J-BOX

FRONT VIEW

TEMPERATURE

75LC

RED

MAGNETIC DOOR

MAGNETIC DOOR

PROBE MAGNETIC

DOOR SENSOR

**PRESS TO KEEP LIGHTS ON WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

**PANIC**



FRONT VIEW

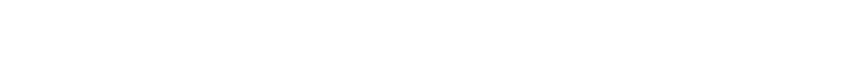
IP-1

YELLOW RED

WHITE

BLACK

IP-1



**75LC IN UNITS WITH 3 DOORS**

MUST BE INSTALLED WITH MD-1 AS ONLY 1 DOOR HAS A SWITCH

BLACK

YELLOW

RED WHITE

IP-1

BLACK

YELLOW

RED WHITE

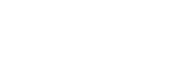
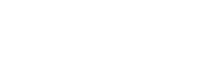
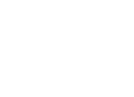
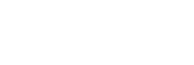
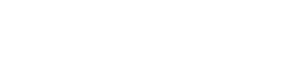
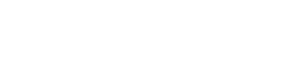
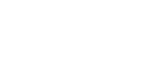
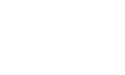
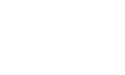
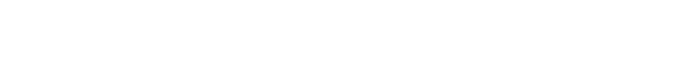
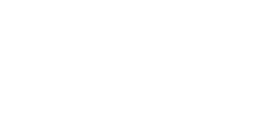


FIG. 59 – 75LC WIRING at 3 DOORS

40

42

POWER SUPPLY POWER SUPPLY, CONDUIT, WIRING AND JUNCTION



JUNCTION BOX

BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX

WHITE RED

RED GREEN

BROWN

BLUE

LIGHT BASE

ORANGE

YELLOW

BLUE

BLUE

LIGHT BASE

RED

LIGHT

BASE

N W

O R B

RED

BLACK

GREEN

RED

BROW

TRAVELERS WRAPPED IN PAIRS

FRONT VIEW

GREEN

WHITE

ORANG

WHITTE

FRONT VIEW

YELLOW

FRONT VIEW

GREEN

GROUND TO J-BOX

GROUND TO J-BOX

GROUND TO J-BOX

**2**

**3**

**5**

**6**

**3**

**6**

**2**

**3**

**5**

**6**

**KASON PRESS SWITCH**

**1**

**4**

**1**

**2**

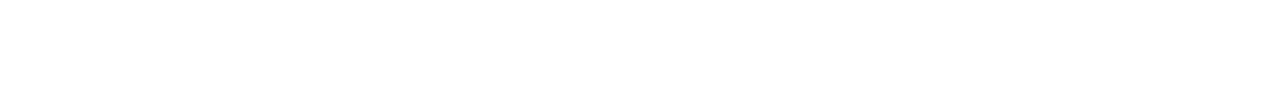
**4**

**5**

**1**

**4**

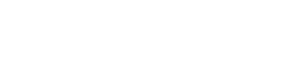
**KASON PRESS SWITCH**



**WALK-IN WITH AT LEAST 3 DOORS, 3 LIGHTS AND 2 – 3 WAY PRESS SWITCHES AND 1 OR MORE 4-WAY PRESS SWITCHES**

**FIG. 60 – KASON PRESS SWITCH WIRING 4-WAY**

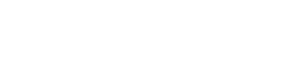
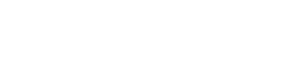
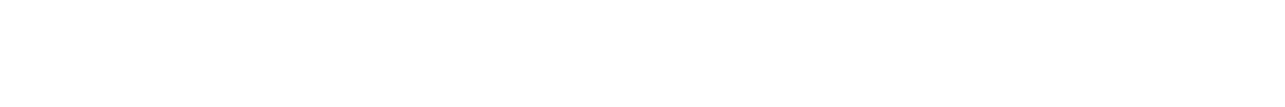
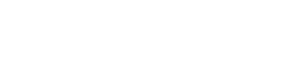
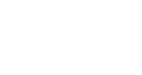
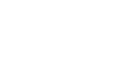
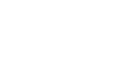
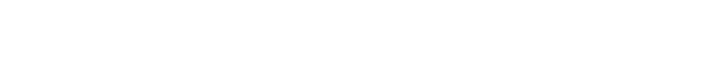
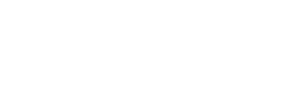
41



**KASON PRESS SWITCH**

43

POWER SUPPLY POWER SUPPLY, CONDUIT, WIRING AND JUNCTION



JUNCTION BOX

BOXES FOR FIELD CONNECTION ARE BY OTHERS

JUNCTION BOX

WHITE RED

RED GREEN

BROWN

BLUE

LIGHT BASE

ORANGE

YELLOW

BLUE

BLUE

LIGHT BASE

RED

LIGHT BASE

N W

O R B

RED

BLACK

GREEN

WHITTE

RED

BROW

TRAVELERS WRAPPED IN PAIRS

FRONT

GREEN

WHITE

ORANG

FRONT

FRONT

GROUND TO J-BOX

YELLOW

GREEN

GROUND TO J-BOX

GROUND TO J-BOX

**2**

**3**

**6**

**2**

**3**

**5**

**6**

**KASON 1967-3 SWITCH AS 3-WAY**

**1**

**4**

**5**

**1**

**4**

**KASON PRESS SWITCH**

**KASON PRESS SWITCH**

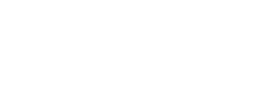
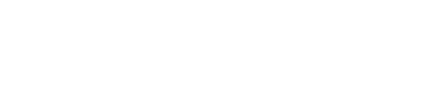
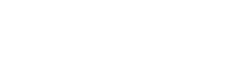
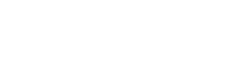
**WALK-IN WITH AT LEAST 3 DOORS, 3 LIGHTS AND 2 – 3 WAY PRESS SWITCHES AND 1 OR MORE 4-WAY PRESS SWITCHES**

FIG. 61 – KASON PRESS SWITCH WIRING 4-WAY

42

44

POWER SUPPLY



AIR CURTAIN JUNCTION BOX

**CLC212-NC OR OTHER SWITCH**

MAGNETIC DOOR SENSOR

GROUND TO J-BOX

GREEN

GROUND TO J-BOX

**LIGHT SWITCH WITH FAN/AIR CURTAIN SWITCH**

FRONT VIEW

TEMPERATURE PROBE

**75LC OR OTHER SWITCH**

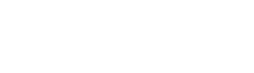
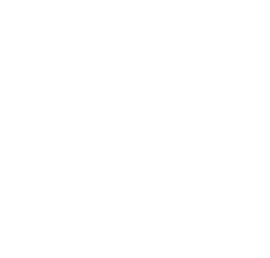
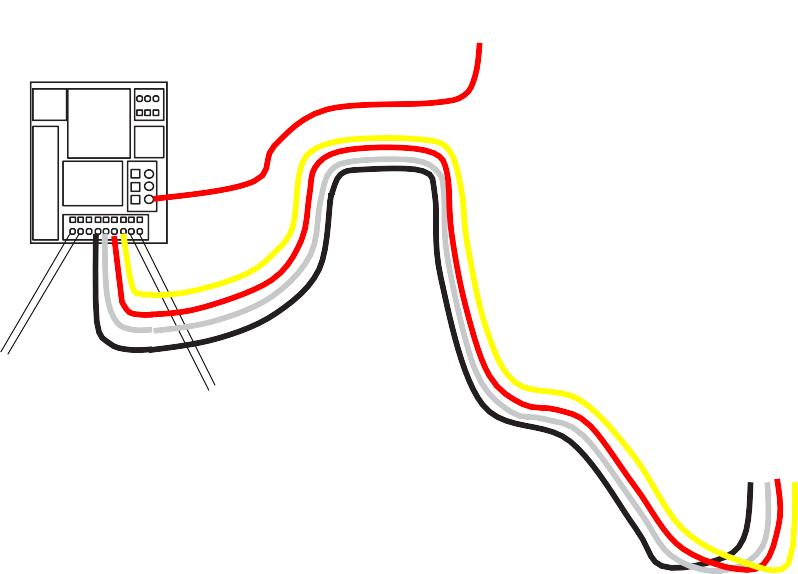
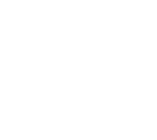
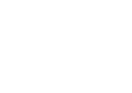
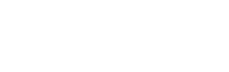
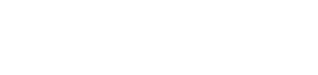
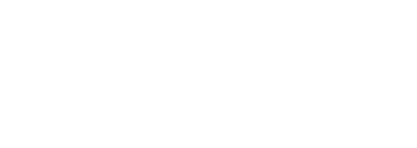
MAGNETIC DOOR SENSOR

FIG. 62 – MULTI SENSOR SWITCH WIRING

43

45

MARK LIGHT SWITCH POWER HEATER POWER



POWER CONNECTION J-

LEADS TO HEATER J-BOX FOR SINGLE POINT CONNECTION. HEATER WIRES IN SEPARATE J-BOX FOR DUAL POINT

MARK THESE LEADS FOR CONNECTION TO 75LC WIRELESS BLACK LEAD

THESE LEADS FOR FIELD POWER

½” CONDUIT

LIGHT BASE IF

REQUIRED

FROM ONE 75LC ONLY ALL OTHERS

POWER SUPPLY, CONDUIT, WIRING, JUNCTION BOXES FOR FIELD CONNECTION AND 75LC WIRELESS ARE BY OTHERS

75LC-1

**R**

**X**

**L**

**H**

**S**

**X**

**R**

**TX**

**D**

4 WIRES

75LC-2, 3 & 4

3 WIRES

**X**

**R**

**X**

**R**

**X**

**T**

**TX**

**TX**

ORANGE BROWN BLUE BLACK

GREEN



FRONT VIEW

GROUND TO J-BOX

BLACK

WHITE

**CONNECTIONS TO 75LC**

75LC SWITCH J-BOX IP-1 J-BOX

RED

TEMPERATURE PROBE

75LC

MAGNETIC DOOR SENSOR

IP-1

**PANIC**

**PRESS TO KEEP LIGHTS ON WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

BLACK

WHITE RED

YELLOW

FRONT VIEW

FIG. 63 – 75LC/IP-1 FOR 75LC WIRELESS WIRING

44

46

POWER SUPPLY

POWER SUPPLY, CONDUIT, WIRING AND JUNCTION BOXES FOR FIELD CONNECTION ARE BY

MARK THESE LEADS FOR CONNECTION TO

JUNCTION BOX

JUNCTION BOX

BLACK LEAD FROM ONE 75LC ONLY ALL OTHERS HAVE ONLY 3 WIRES

ORANGE BROWN BLUE BLACK

75LC-1

4 WIRES

**R**

**X**

**L**

**H S**

**TX**

**CONNECTIONS TO 75LC**

**X**

**R**

**TX**

75LC-2, 3 & 4

**X**

**R**

**TX**

**D PR**

* 3 WIRES

**X**

**X**

**T R**

FRONT VIEW

**MD-**

POWER SUPPLY, CONDUIT, WIRING, JUNCTION BOXES FOR FIELD CONNECTION AND 75LC WIRELESS ARE BY OTHERS

GREE

GROUND TO J-BOX

FRONT VIEW

TEMPERATURE

**75LC**

MAGNETIC

PROBE

MAGNETIC

DOOR

DOOR

**PRESS TO KEEP LIGHTS ON WITH DOOR CLOSED PANIC ALARM II**

**PRESS & HOLD FOR 2 SEC.**

**PANIC**

FRONT VIEW

**IP-1**

BLACK

YELLOW

RED WHITE

**75LC IN UNITS WITH 2 DOORS** MUST BE INSTALLED WITH MD-1 AS ONLY 1 DOOR HAS A SWITCH

**IP-1**

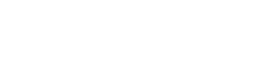
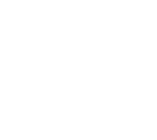
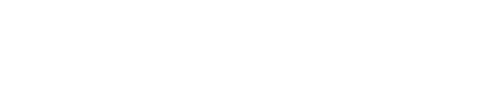
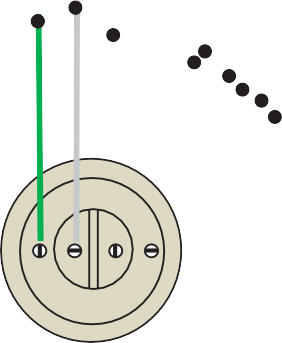
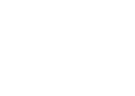
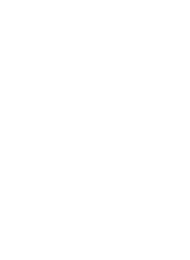
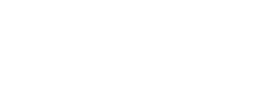
YELLOW

BLACK

RED WHITE

FIG. 64 – 75LC/IP-1/MD-1 FOR 75LC WIRELESS WIRING AT 2 DOORS

45



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**Membrane Roof Installation**

**ROOF INSTALLATION – TAPERED ROOF SYSTEM**

INSTALL TAPERED FOAM BLOCKS. THEY ARE TAPERED ON TOP AND WILL PROVIDE A CONTINUOUS ROOF SLOPE

CUT OFF EXCESS TAPERED FOAM ALIGN WITH EDGE OF WALK-IN AND TIGHT TO BUILDING

APPLY DURO-LAST DURA BLUE SEPARATION SLIP SHEET OVER ALL TAPERED FOAM. FASTEN AS NECESSARY TO HOLD IN PLACE – 6” OVERLAP AT ANY JOINTS

**FIG. 65 TAPERED ROOF SYSTEM; TAPERED BLOCKS AND DURO-LAST DURO BLUE SEPARATION SLIP SHEET**

Locate tallest tapered blocks and install on top of walk-in ceiling panels and against building wall.



If Walk-in is free standing and not against a building wall, align the tall edge of the tapered block with the edge of the walk-in ceiling panel.

**2” SPACE BETWEEN WALK-IN AND BUILDING WALL**

**FIG. 66 ROOF AT BUILDING WALL**

If distance between walk-in and building wall exceeds 4”, support angle must be installed between walk-in and building wall to support foam blocks. (Support angle not provided)

Install tapered blocks in succession from high side to low side. If tapered blocks extend beyond walk-in tops, use hand saw to cut off excess.

Install Duro-Last Duro Blue separation slip sheet to completely cover all tapered blocks and exposed edges. Fasten as necessary to hold in place. If roofing board is included, install 4’ X 8’ boards in alternating pattern over the slip sheet and fasten as necessary to hold in place.

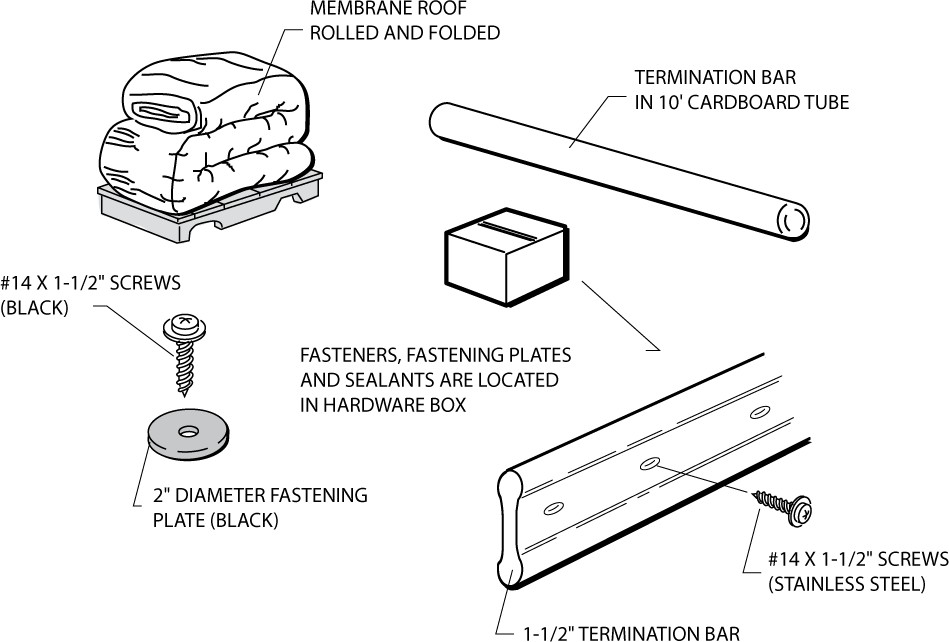
Multi-length fasteners are supplied to fasten through the membrane flap, roofing board (if included), slip sheet, tapered blocks and into the top skin of the ceiling panels.

46

48

###### PREPARATION

Locate the parts required for the installation of the membrane roof. The membrane roof is shipped rolled and folded. The termination bar and any roof trim required are shipped in 6” diameter by 10’ long cardboard tubes. A hardware box containing screws, fastening plates and sealant is included.



**FIG. 67 MEMBRANE ROOF PARTS**

Check the roof of the walk-in unit and remove any foreign matter. Seal all protruding rough edges and screw heads, rivets, etc. with tape or sealant. This will prevent any chance of penetrating or wearing a hole in the membrane roof cap.

***Remove all debris and cover rough edges with tape or sealant.***

**PREPARE TOP PANELS**

**VERIFY MEMBRANE SIZE**

Verify the overall width and length. The membrane should overhang the top edge of the wall panel by 2” on all exposed sides of the walk-in unit. And extend at least 8” up on adjacent building walls.

**POSITION MEMBRANE**

The smooth (shiny) finish surface of the membrane is the exposed (up) side. The 3” fastening

tabs are on the bottom side of the membrane.

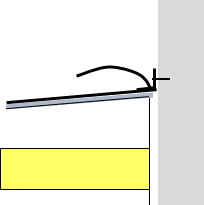
47

49

###### FASTEN FIRST TAB

Align the roof membrane so that the tabs are parallel with the high side of the tapered roof system. Locate the reverse tab and fasten using fastener and fastening plate as shown below.

FASTEN REVERSE FLAP TO BUILDING WALL



ROLL MEMBRANE UP WALL AND FASTEN WITH TERMINATION BAR AND SEAL

FASTEN REVERSE TAB TO TOP EDGE OF ROOF

ROLL MEMBRANE DOWN AND FASTEN TO TOP OF WALL WITH TERMINATION BAR AND SEAL

FIG. 68 FASTENING AT FREE STANDING WALK-IN FIG. 69 FASTENING AT ADJACENT BUILDING

Locate the reverse tab on the edge of the high side of the tapered roof. Start in the middle of the tab and work toward the edges placing the screws and plates 6” on center. Pull membrane toward edges to remove slack. Unroll roof to the next tab and continue stretching and fastening in the same manner. The variable length screws should penetrate the top metal skin of the walk-in ceiling panel.

Locate the reverse tab on the building wall. Start in the middle of the tab and work toward the edges placing the screws and plates 6” on center. Pull membrane toward edges to remove slack. Make sure at least 8” of material is up the wall for proper termination. Unroll roof to the next tab and continue stretching and fastening in the same manner. The variable length screws should penetrate the top metal skin of the walk-in ceiling panel.

***The screw length will vary. Install the short screws at the low side and increasingly longer screws toward the high side. Extra care should be taken to only penetrate the top metal skin of the walk in ceiling panel. Do not penetrate the interior metal skin.***

**CONTINUE FASTENING**

Unroll roof cap membrane to next tab and repeat the screw and fastening plate pattern. Always pull slack out of membrane before starting a row of fasteners. Use of vice grips is ideal to keep material taut.

48

50

MEMBRANE ROOF TAB SPACING AND FASTENER SPACING ARE BASED ON WIND LOAD. THE MEMBRANE ROOF TAB SPACING AND FASTENER SPACING ARE IN ACCORDANCE WITH THE FOLLOWING CHART:

|  |  |  |
| --- | --- | --- |
| **WIND ZONE** | **TAB SPACING** | **FASTENER SPACING** |
| 110 MPH | 60" | 6” |
| 115 MPH | 60" | 6” |
| 120 MPH | 60” | 6” |
| 130 MPH | 60” | 6” |
| 140 MPH | 28” | 6” |
| 150 MPH | 28” | 6” |
| 160 MPH | 28” | 6” |
| 170 MPH | 28” | 6” |
| 180 MPH | 28” | 6” |
| 190 MPH | 28" | 6" |
| 200 MPH | 24" | 6" |

THIS CHART IS BASED ON ASCE7-5 AND ASCE7-10 FOR EXPOSURES B, C OR D.

FASTENER

SPACING

TAB SPACING

FASTENERS WITH GALVANIZED

WASHERS THROUGH MEMBRANE FLAP, SLIP SHEET, TAPERED FOAM AND INTO TOP SKIN OF PANEL

DURO-LAST DURA BLUE SEPARATION

SLIP SHEET COVERING ALL EXPOSED TAPERED FOAM. IF ROOFING BOARD IS USED INSTALL IN ALTERNATING PATTERN OVER SLIP SHEET

TOP PANELS

TAPERED FOAM BUILDING WALL

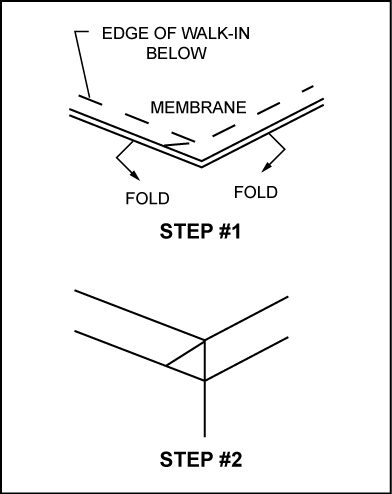
MEMBRANE ROOF

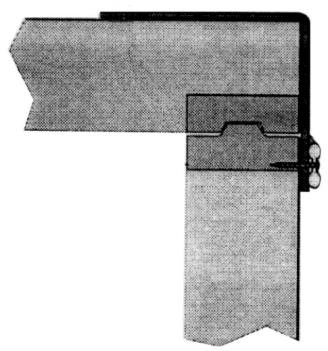
**FIG. 70 MEMBRANE ROOF TAB AND FASTENER SPACING FASTENING**

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**FASTEN TERMINATION BAR**

**FOLD CORNERS**

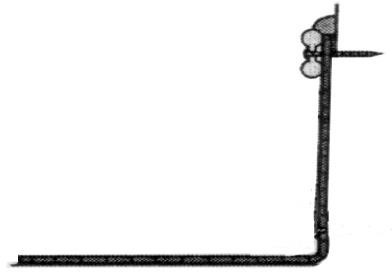


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After all fastening tabs have been secured, fold corners as shown in step #1 and #2 and install termination bar around perimeter of walk-in unit. Use 1-1/2” stainless steel screws spaced 6” on center.

Trim membrane before applying sealant to top and bottom edge of termination bar. Protect the metal panel skin when trimming under termination bar.

***Customer is responsible for providing flashing to protect membrane edge attached to adjacent building.***



**FIG. 71 INSTALLATION OF TERMINATION BAR**

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**Maintenance and Housekeeping Recommendations**

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Walk-in floors can become slippery and hazardous if allowed to become wet, greasy or icy. Follow maintenance and housekeeping recommendations outlined below.

* + Inspect the condition of abrasive coated anti-skid strips (if included) on ramps monthly. Replace or add additional strips when necessary. Additional strips are available from the factory.
  + Keep all walkway surfaces clean and free of spilled liquids and food particles. This includes the floor surface, floor racks and diamond tread plate.
  + Inspect refrigeration equipment frequently for proper functioning of evaporators, drain pan heaters, defrost controls and drains line heaters.
  + Condensate water must never be permitted to drip on the walk-in floor. Refer to refrigeration system instructions for proper condensate drain line installation.
  + If entry doors are to be held open for periods longer than 5 minutes, a vinyl strip curtain should be used. When freezer doors are opened for extended periods of time, frost can form on the ceiling and floor due to the excessive condensation from warm moist air inside the walk-in. This can result in the formation of an ice film on ceiling, wall and floor surfaces in freezers.
  + Inspect the door hardware and sweep gasket monthly for ease of operation. Door hardware is self-lubricating and does not require periodic lubrication. Sweep gasket must be adjusted to allow free movement and proper seal. Any damaged hardware should be replaced immediately to prevent permanent damage to door.
  + Frost or condensation appearing around the door jamb or heated pressure relief vent indicates that the electric heater is inoperable. Check power supply (must be 120V) and electrical connections. Replace heaters if necessary.
  + All metal surfaces, magnetic door gasket and door sweep gasket should be cleaned frequently with mild detergent and hot water. Remove all soap film and dry thoroughly with a clean cloth. Never use high pressure hose or large amounts of water to clean the walk-in.

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