

## Dimension Express Booklet

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**Job Info:**

Job Name: Palora

Model No	Type	Manufacturer	Doc Type	Page
T24IR800SP	REF	Thermador	Mfr Guide	2
T24IR800SP	REF	Thermador	Condensed	4

Fridge: 24" Ref. Model #T24IR800SP

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# FREEDOM® COLLECTION

## 24-INCH CUSTOM FRESH FOOD COLUMN

T24IR800SP



T24IR800SP

24-Inch Flush, Reversible Door Swing

Build Your Custom Column

See pages 226-227 for details.

### SPECIFICATIONS

Total Capacity (cu. ft.)	13.1
Product Width	23 3/4"
Product Height	84"
Product Depth*	24"
Cutout Width	24"
Cutout Height	84"
Cutout Depth**	25" (24 3/4")
Door Swing Clearance	26 11/16"
Door Swing	Reversible
Annual Energy Consumption	278.13 kWh
Electrical Supply	120V/15 Amp Circuit
Power Cord Included	120V 3-Wire
Shipping Weight (lbs.)	370

\*Depth without door panel

\*\*Minimum cutout depth for flush installation with 3/4" thick panel



Contributes 1 point toward satisfying the high-efficiency appliances credit under LEED®

### T24IR800SP

#### PERFORMANCE

- Dedicated compressor and evaporator
- FreeFlow® Cold Air System—air channel in the door ensures that items stored on the door are as cold as on the shelves
- Electronic controls for precise temperature management
- Full-width deli drawer
- FlexTemp® drawer optimized for fish, meat and produce
- Carbon air filter reduces odors and keeps air clean and fresh
- Full-length cantilever racks for ultimate adjustability
- Full-width glass shelves with metal trim
- Full-extension drawers at 90° door opening angle
- Gallon door bins
- SuperCool™—chills food quickly
- Sabbath mode
- Economy mode
- Vacation mode
- Door open alarm
- ENERGY STAR® qualified

#### DESIGN

- FREEDOM® Hinge enables true flush design
- Full-height door—true cabinet integration without exposed venting grille
- All-LED sidewall and theater lighting
- Brightspace interior design
- Accepts custom or stainless steel panels
- Reversible door swing

### TEMPERATURE RANGES

Refrigeration	35°F (2°C) to 46°F (8°C)
Temperature Controlled Drawer	Fish 32°F (0°C) Meat 35°F (1.5°C) Produce 37°F (3°C)
Deli Drawer	Just above 32°F (0°C)
SuperCool™	35.5°F (2°C) for approximately 9 hours
Energy Saving (Economy) Mode	45°F (7°C)

### ACCESSORIES

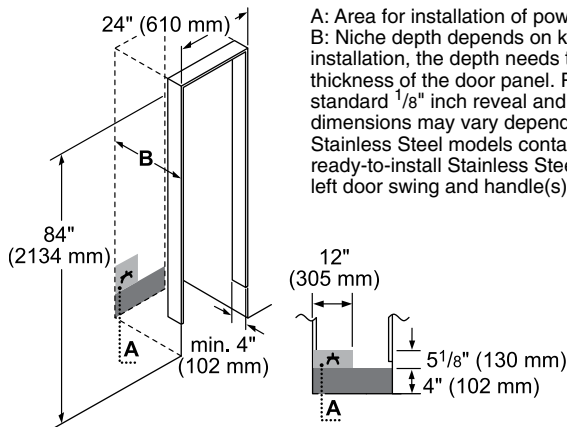
See page 241 for Freedom Collection accessories.

TFL24IR800 24" Flat Stainless Steel Panel	PR36HNDL10 36" Professional Handle	FRAMEKIT10 Freedom Frame Kit
TCH24IR800 24" Chiseled Stainless Steel Panel	MS36HNDL10 36" Masterpiece® Handle	HEATRKIT10 Freedom Heater Kit

**FREEDOM® COLLECTION**  
**24-INCH CUSTOM FRESH FOOD COLUMN**

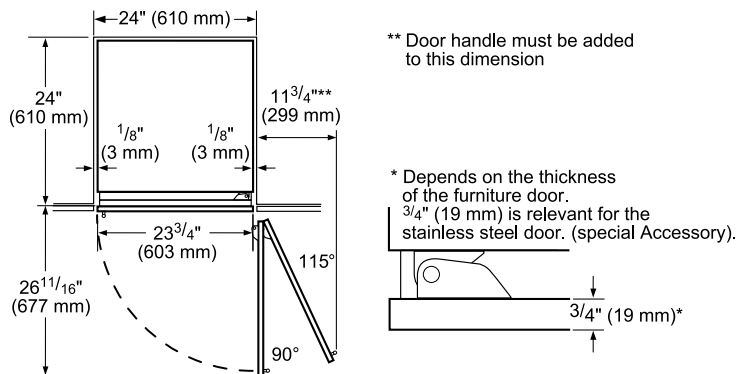
## T24IR800SP

## CUTOUT DIMENSIONS

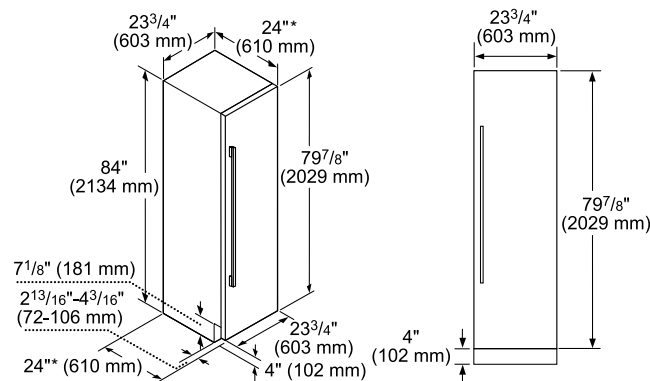


A: Area for installation of power connection.  
B: Niche depth depends on kitchen design. For a flush installation, the depth needs to be at least 24 inches plus the thickness of the door panel. Panel dimensions based on a standard 1/8" inch reveal and 4 inch toe kick. Custom panel dimensions may vary depending on kitchen reveals and toe kick. Stainless Steel models contain a panel-ready base unit, ready-to-install Stainless Steel door(s) with a right or left door swing and handle(s).

## TOP VIEW CLEARANCE



## PANEL DIMENSIONS



\*Excludes thickness of door panel. If standard panel with 3/4" thickness is mounted, total depth is 24 3/4".

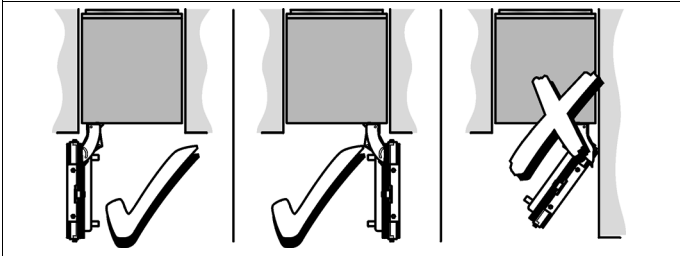


All refrigerators are UL and CUL approved.

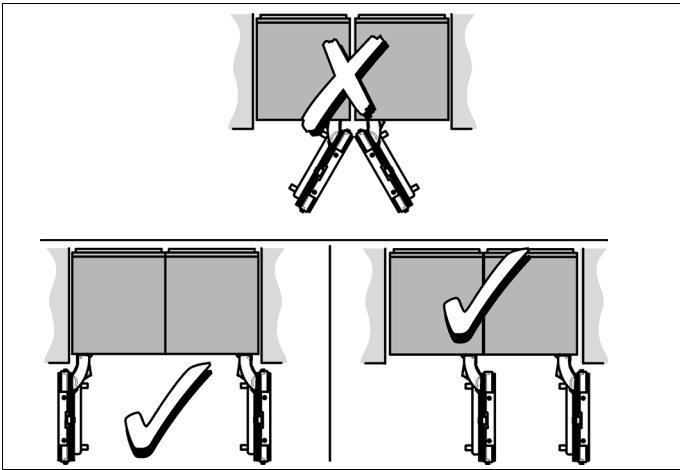
## Installation options

There are many different installation options. These are limited only by the design of the kitchen. See also "Kitchen Design Quick Reference".

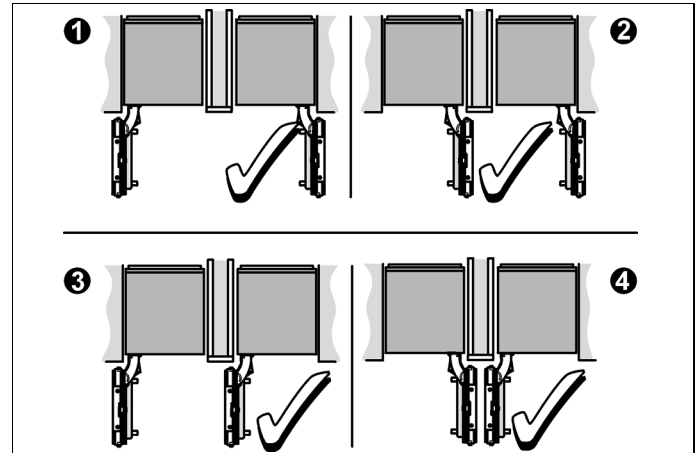
### Individual appliance



### Side-by-Side



### Individual appliances with partition



- When dimensioning the partition for model 4, note the thickness of the door panels to prevent damage if the doors are opened at the same time.
- Use the Heater Kit for Side-by-Side Installation if the gap between the appliances is less than 6" (160 mm).  
See the section on "Required accessories and tools/Optional accessories".
- Minimum thickness of the partition  $\frac{5}{8}$ " (16 mm).

### Individual appliance at the end of the kitchen

If one side of the appliance is visible, a side panel must be used.

The side panel must be connected firmly to the wall, the floor and overhead cabinet/fixtures before the appliance is placed in the installation enclosure.

The dimensions of the side panel are taken from the opposite installation enclosure wall. During installation ensure that the installation enclosure is square and the proper size.

## Installation

### **WARNING:**

Do not install the appliance:

- outdoors,
- in an environment with dripping water,
- in rooms which are less than 32 °F (0 °C).

Appliance is very heavy:

Refrigerator 24"	approx. 310 lbs/140 kg
Refrigerator 30"	approx. 350 lbs/158 kg
Freezer 18"	approx. 255 lbs/115 kg*
Freezer 24"	approx. 300 lbs/135 kg*
Freezer 30"	approx. 335 lbs/150 kg*
Wine unit 18	"approx. 300 lbs/135 kg
Wine unit 24	"approx. 360 lbs/160 kg
(* without Water Dispenser)	

## Installation room

The appliance should be installed in a dry, ventilated room.

The ambient temperature should not drop below 55 °F (13 °C) or rise above 110 °F (43 °C), otherwise malfunctions may occur.

The installation location should not be exposed to direct sunlight and not placed near a heat source, such as an oven, radiator, etc. If installation next to a heat source is unavoidable, use a suitable insulating plate or observe the following minimum distances from the heat source:

- 1<sup>1</sup>/<sub>4</sub>" (30 mm) from an electric range,
- 12" (300 mm) from a gas range.

## Stable installation

The appliance is very heavy and has a tendency to tilt forwards when the appliance door is opened. Do not open the door until there is no possibility of the appliance tilting over.

The safest method of installing the appliance in a stable position is to use the supplied anti-tip devices.

If the installation enclosure is adequately stable and the appliance can be attached securely to the upper and side walls of the installation enclosure, this may provide additional stability. A prerequisite for this is always a firm connection between the installation enclosure and back wall!

If in doubt, contact an architect or a building expert.

## Installation enclosure

### **Note:**

It is strongly recommended the top panel of the niche be of solid material at least <sup>5</sup>/<sub>8</sub>" (16 mm) thickness. If, for some reasons, a separate niche cabinet is created, make sure that the furniture return area is at least 4" deep.

It is important to observe the specified dimensions of the installation enclosure for a trouble-free installation of the appliance.

In particular ensure that the installation enclosure is square.

Squareness can be checked by suitable means, e.g. level, diagonal measurements, etc.

## Furniture

The new appliance must be screwed securely to adjacent and overhead furniture.

For this reason it is essential that all attachable furniture are connected securely to the floor or the wall by suitable means.

## Floor

### **WARNING:**

A fully-loaded appliance is very heavy – for the loadbearing capacity minimum see the following:

Refrigerator 24"	approx. 890 lbs/400 kg
Refrigerator 30"	approx. 1110 lbs/500 kg
Freezer 18"	approx. 560 lbs/250 kg*
Freezer 24"	approx. 780 lbs/350 kg*
Freezer 30"	approx. 950 lbs/425 kg*
Wine unit 18"	approx. 550 lbs/245 kg
Wine unit 24"	approx. 694 lbs/310 kg
(* without Water Dispenser)	

To ensure that the appliance is installed securely and functions properly, the floor must be flat and level.

The floor must be made of a hard, rigid material.

The floor in the installation area must be at the same level as the rest of the room (no step up or down).

On account of the heavy weight of a fully loaded appliance, a load-bearing floor is required. If in doubt, contact an architect or a building expert.

## Aligning the appliance

To ensure that the appliance functions correctly, it must be levelled properly.

If the appliance is not level, water may flow out of the ice maker, ice cubes may be irregular or the doors may not close properly.

## Connecting the power

### **WARNING:**

#### **Electrical Shock Hazard**

- Plug into a grounded 3 prong outlet.
- Do not remove ground prong.
- Do not use an adapter.
- Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

Follow all state and local codes or NEC.

The appliance comes with a UL listed 3 wire power supply cord.

The appliance requires a 3-wire receptacle.

The receptacle must be installed by a licensed electrician only.

The receptacle must be a 15 A breaker or fuse.

<b>Appliance</b>	<b>Maximal load at one time</b>
Refrigerator 24"	2.0 Ampere
Refrigerator 30"	2.0 Ampere
Freezer 18" (incl. IceMaker)	3.5 Ampere
Freezer 24" (incl. IceMaker)	4.0 Ampere
Freezer 30" (incl. IceMaker)	4.5 Ampere
Wine unit 18"	2.0 Ampere
Wine unit 24"	2.0 Ampere

For the installation position of the receptacle see "Installation dimensions".

## Grounding instruction

This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current.

### **WARNING:**

Improper connection of the equipment grounding conductor may result in electric shock. Have the appliance checked by a qualified electrician or service technician if you are in doubt as to whether the appliance has been properly grounded.

## Additional grounding procedure

Some local regulations may require a separate ground. In such cases, the required ground wire, clamp and screw are available as a separate accessory and must be purchased separately.

Never ground the appliance to plastic plumbing lines, gas lines or water pipes.

## Connecting the water

### **CAUTION:**

Only connect the appliance to drinking water!

A cold water connection is required for operation of the automatic ice maker. The water pressure must be between 25 and 120 psi. (1.72–8.25 bar). The installation must comply with local plumbing regulations.

A separate shut-off valve must be installed for the appliance water connection.

Do not use a self-piercing valve!

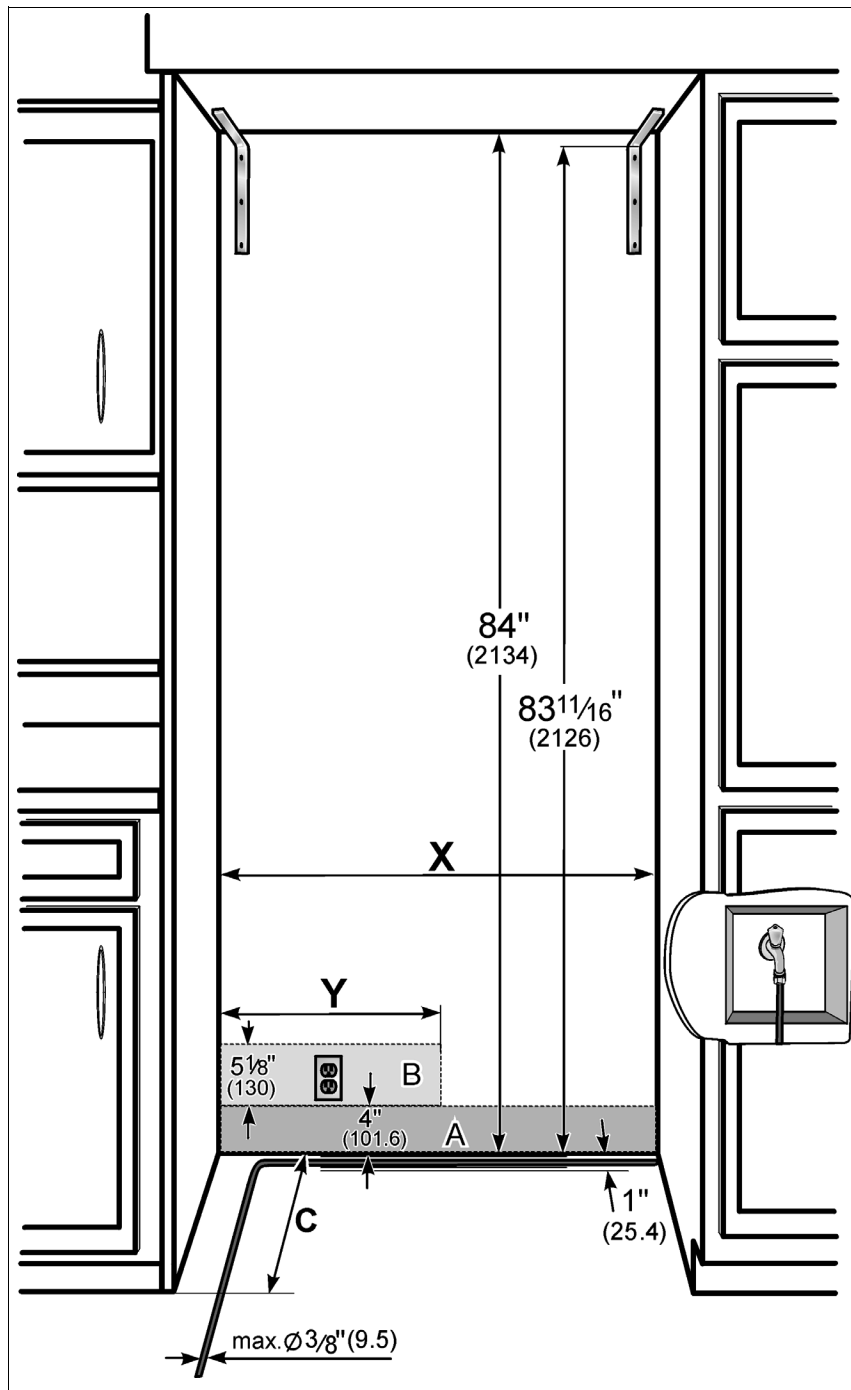
The shut-off valve for the water connection must not be behind the appliance. It is recommended to place the shut-off valve directly next to the appliance or in another easily accessible location.

When installing the water connection, observe the permitted installation areas for the pipe. For the permitted installation areas and dimensions see "Installation dimensions".

The supply pipe can be located at the side on the right (a), at the side on the left (b) or underneath (c).

Maximum outer diameter of the water pipe (without fittings):  $\frac{3}{8}$ " (9.5 mm).

## Installation dimensions



X	Y
18" (457 mm)	9" (229 mm)
24" (610 mm)	12" (305 mm)
30" (762 mm)	15" (381 mm)

### IMPORTANT !

It is strongly recommended the top panel of the enclosure be of solid material at least  $\frac{5}{8}$ " (16 mm) thickness.

### IMPORTANT !

The side walls of the enclosure must be perfectly straight. The furniture return area has to be at least 4" (100 mm) deep.

### Legend:

A Area for installation of the water connection

It is recommended the water-box be placed adjacent to the installation enclosure, so that it can be accessed for service without uninstalling the appliance. If this is not possible, place the recessed water box within the shaded area.

B Area for installation of the power connection

C Opening depth of enclosure, depending on kitchen design

C = 24" (610 mm) minimum

## 1. Attaching the anti-tip-brackets

### ⚠ WARNING:

Risk of injury and damage!

Assure that there are no electrical wires or plumbing in the area which the screws could penetrate.

### ⚠ CAUTION:

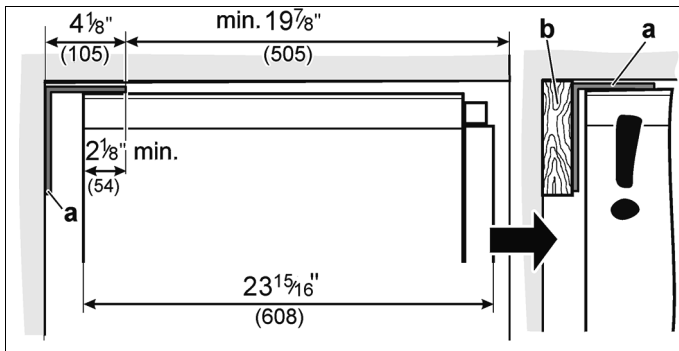
Risk of injury! Always wear safety glasses and other necessary protective devices or apparel when installing or working with dowels.

#### Note:

- 2 anti-tip-brackets are required for each appliance.
- The supplied set contains fastening screws for various applications. Select the fastening screws according to the local conditions.

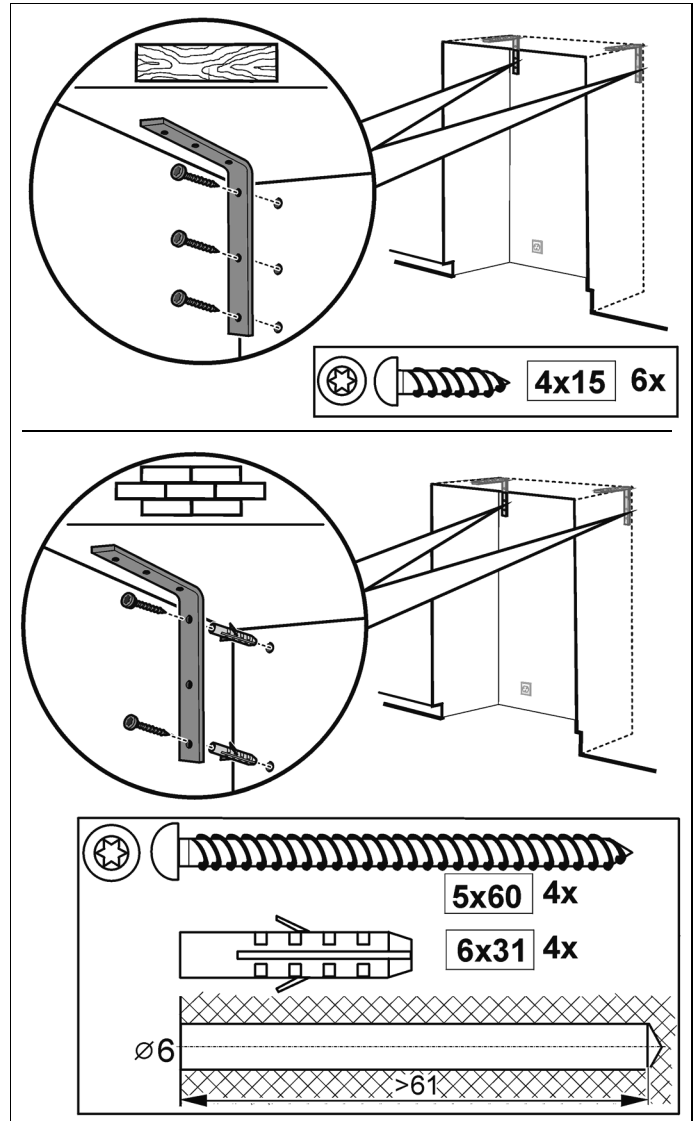
The anti-tip-brackets (a) must overlap a minimum of  $2\frac{1}{8}"$  (54 mm) over the appliance to secure the appliance.

If this minimum length cannot be observed for structural conditions it is possible to do this by fastening a spacer (b) behind the anti-tip angle, e.g. a sufficiently dimensioned wood board.



The length of the plank should correspond to the width of the installation enclosure!

1. Specify the attachment points of the anti-tip-brackets according to the section on "Installation dimensions".
2. Attach the anti-tip-brackets completely. Be sure screws hold tight.



#### Important notes for fastening with dowels and screws:

Not recommended for use in light-weight masonry material such as cinder block.

Not recommended for use in new concrete which has not had time to cure.



**A**

## 2. Attaching an alternative anti-tip device

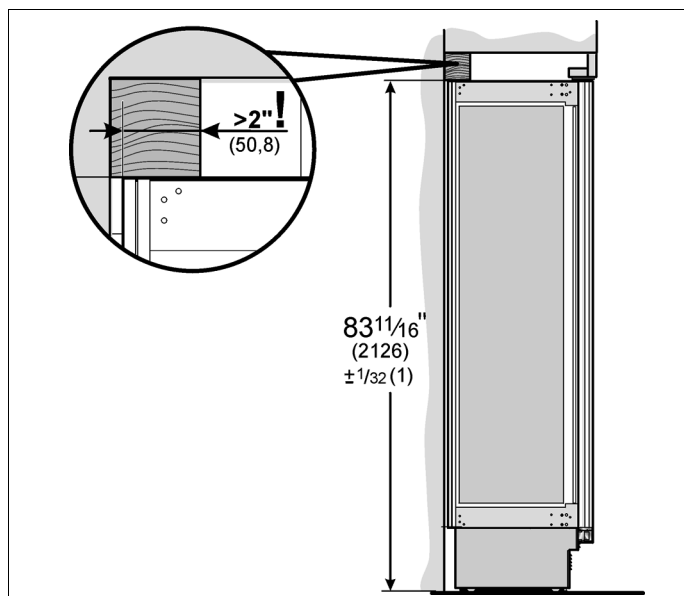
### Important note:

If the anti-tip brackets cannot be attached securely, an alternative anti-tip-device can be attached. However, ensure that there is no play between the appliance and the anti-tip-device. If possible, always screw the wooden beam to existing studs on the rear panel of the installation enclosure.

1. Saw the wooden beam (cross section min. 3" x 4") to the required length. Length is equal to the width of the installation enclosure!

### Note:

- If the installation enclosure is deeper than the appliance, select a beam which has a larger cross section or attach 2 beams.
- The beam must cover the appliance by at least 2" (50.8 mm).



2. Mark the installation height (lower edge of the beam) on the rear panel of the installation enclosure.
3. Select screws according to the thickness of the wooden beam: length = min. 2.5 x beam thickness, diameter #12 or #14.

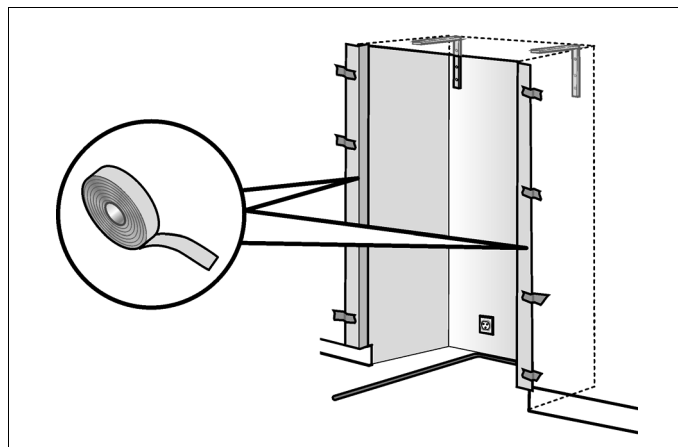
### Note:

Choose the number of screws according to the installation enclosure width, thereby ensuring that the beam can be attached securely.

4. Depending to the subsurface:  
Locate wall studs in the rear of the installation enclosure and accordingly transfer their location to the wooden beam  
or  
fasten suitable dowel into the rear wall.
5. Predrill the wooden beam.
6. Attach the wooden beam to the rear panel of the installation enclosure.

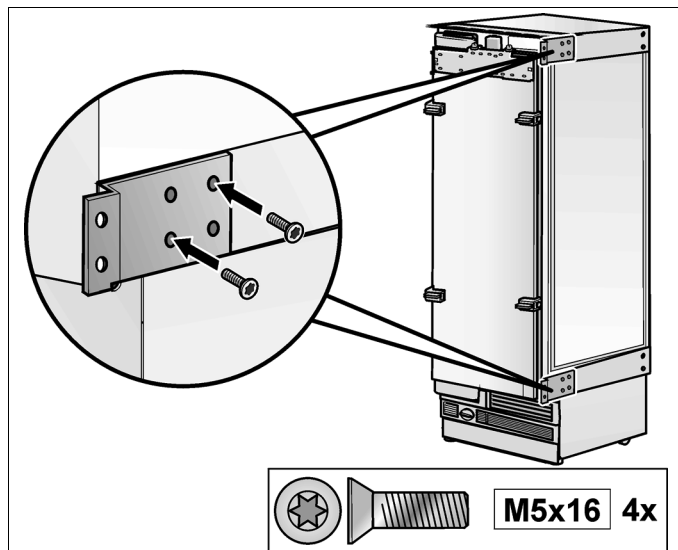
## 3. Attaching an edge protection

To protect the edges of the installation enclosure, it is recommended to attach edge protection made of a suitable material.



## 4. Attaching the fastening sheets (lateral)

Attach the fastening sheets (lateral) to the appliance.



These are special installation steps. Instructions are provided after section C.

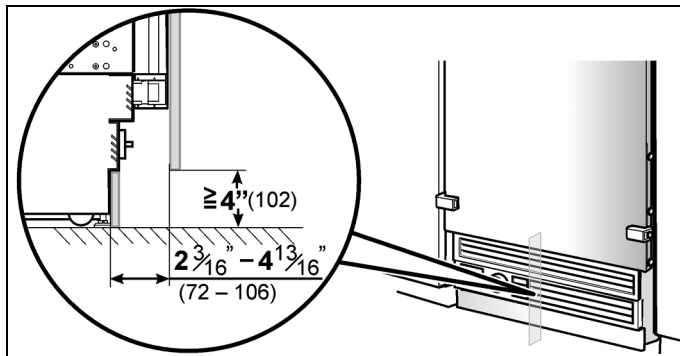
- Change over door hinge, see "Changing over the door hinges".
- Sealing mat, see "Removing/ changing over the sealing mat"
- Side-by-Side installation, see "Side-by-Side installation".
- Connecting the water, see "Preparing to connect the water".

## 1. Attaching the toe kick panel

### Note:

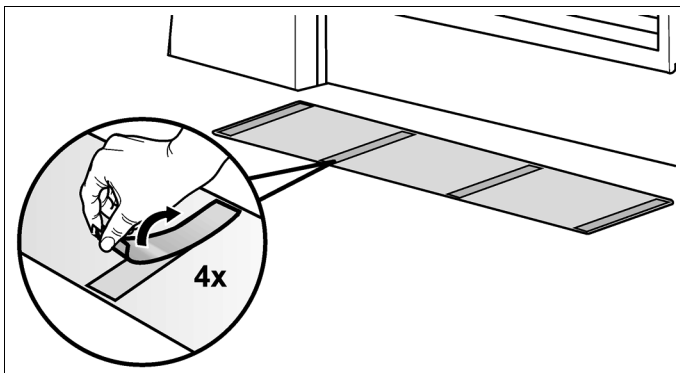
Risk of damage to the appliance. Do not cover ventilation slots in the base panel.

Nominal dimensions to be observed:

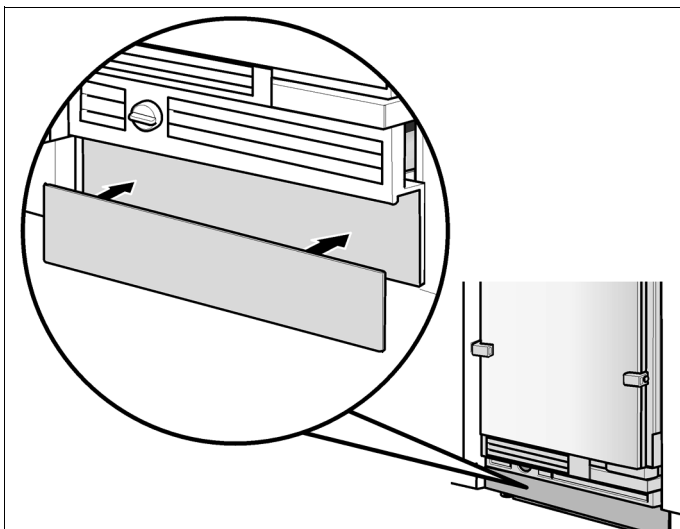


### Stainless steel panel (accessory)

1. Attach the base panel to the appliance (do not screw on).
2. Remove the protective film from the adhesive pads.



3. Fit the toe kick panel to the base panel and press firmly into place.

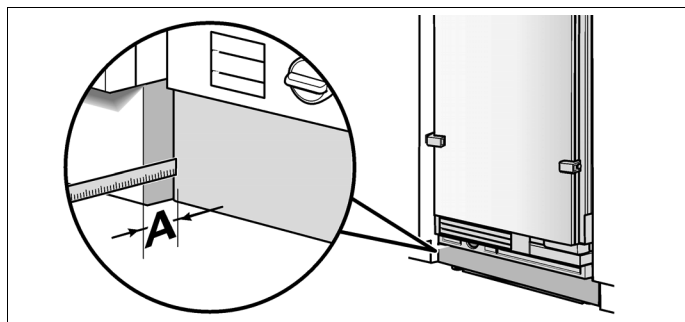


## Wooden panel

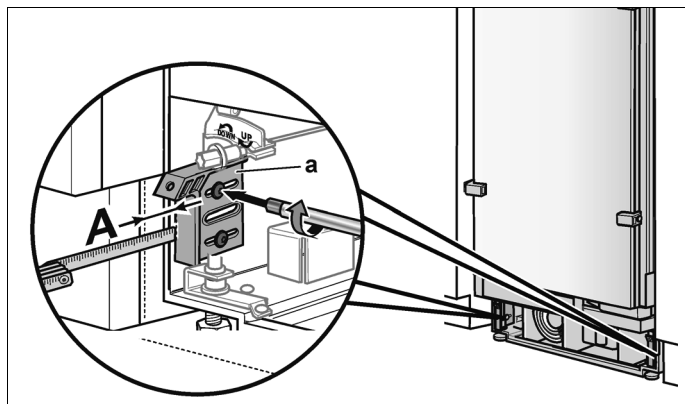
1. If required, shorten wooden panel to the required length.
2. Screw wooden panel to the base panel from behind. There are already screw holes in the base panel.

## 2. Aligning the base panel

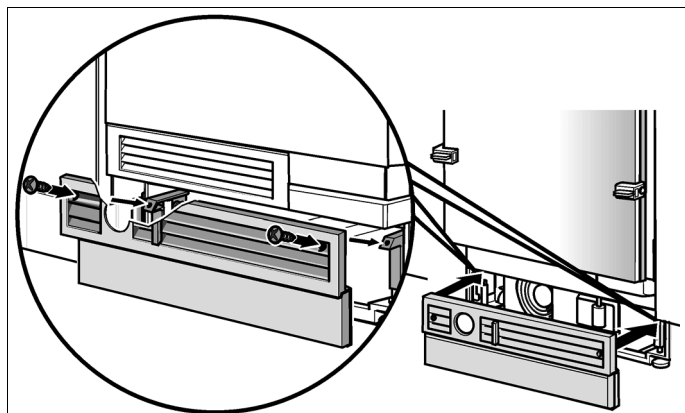
1. Put on the base panel (do not screw on) and measure the difference in depth **A** between the base panel and toe kick panel of the adjacent cabinet.



2. Remove the base panel.
3. Adjust the brackets (a) to the dimensions **A** and tighten.



4. Attach the base panel.



### 3. Switching the appliance ON

To guarantee the accuracy of the following working steps and thus the appearance of the overall kitchen front later on, the appliance should now be operated.

1. Open the appliance door.
2. Press the POWER button.
3. Press the POWER button again to shut off.

#### Only for appliances with a water connection:

In order to avoid the risk of damage caused by leaking water from damage possibly caused to the water pipe feeding the appliance, keep the shut-off valve closed.

### 4. Preparing the door panels

#### Important note:

When performing any work on the door panels, always observe the following:

- Always screw into the best load-bearing material of the door panel.
- Never screw into fillers, decorative strips or similar.
- Select a screw length which is always shorter than the thickness of the door panel.
- To prevent damage, protect surfaces of the door panels during installation.

The total weight of the door panel must not exceed the following values:

- 18" Appliance 44 lbs/20 kg (19 lbs/8.5 kg \*)
- 24" Appliance 55 lbs/25 kg (32 lbs/14.5 kg \*)
- 30" Appliance 64 lbs/29 kg

(\* Wine unit)

In the case of 30" and 36" wide appliances 2 adjacent door panels can be attached instead of one large door. These door panels must be connected to a metal strip on the rear.

This metal strip can be purchased from customer service as an optional accessory, see the section on "Required accessories and tools/Optional accessories".

#### Note:

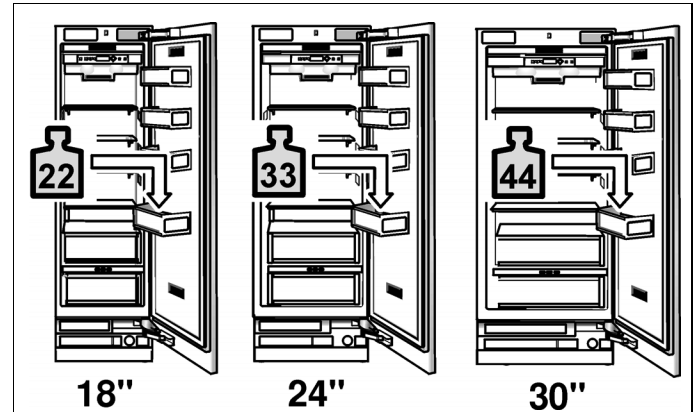
The instructions for carrying out this work step can be found in the separate installation instructions for this accessory.

### 5. Loading the appliance door

When attaching the door panels, it is recommended to load the door storage compartments in the appliance with weights in order to ensure that the gap width is as precise as possible.

Recommendations:

- 18" Appliance: 22 lbs/10 kg
- 24" Appliance: 33 lbs/15 kg
- 30" Appliance: 44 lbs/20 kg

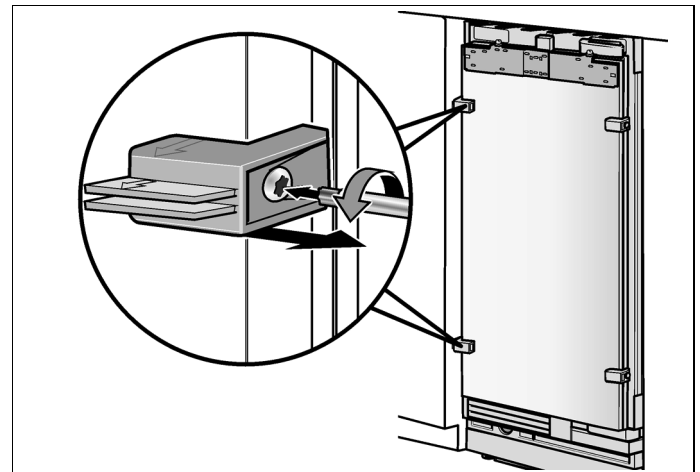


### 6. Removing the installation support part

Unscrew the positioning aid from the appliance door.

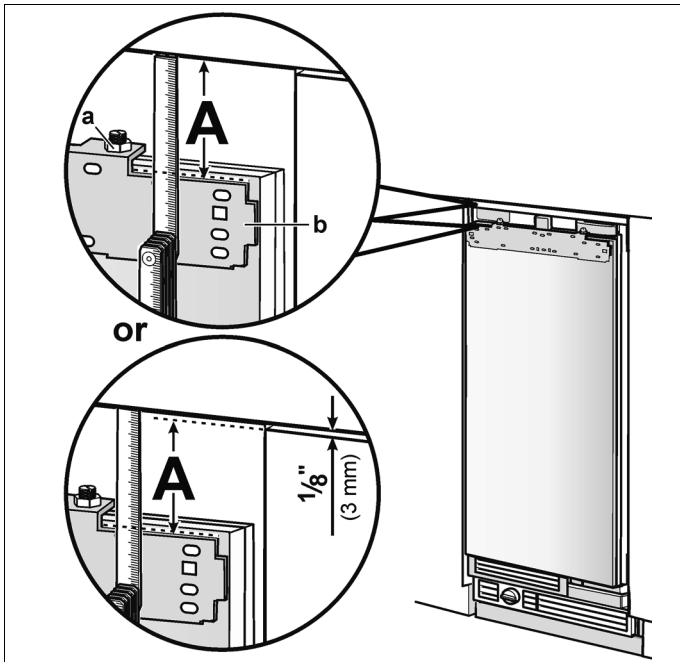
#### Note:

Store the positioning aids, there will be used in an installation step later.

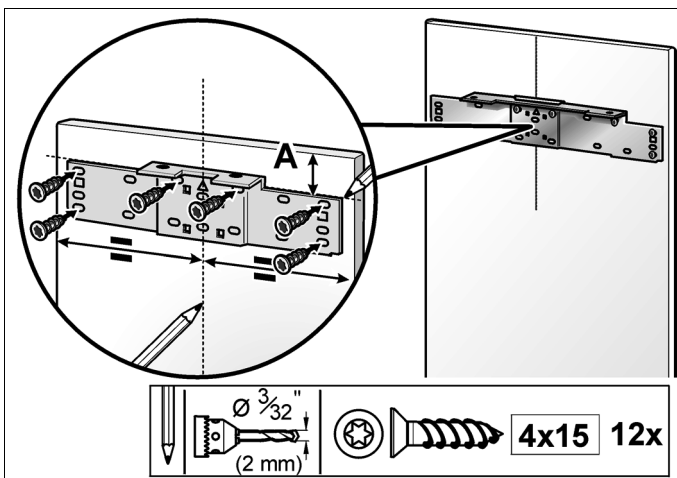


## 7. Attaching the adjusting rail to the door panel

1. Measure the distance **A** between the adjusting rail and the overhead cabinet/fixtures.



2. Loosen the 2 nuts (a) and remove the adjusting rail (b).
3. Mark this amount **A** on the rear of the door panel.
4. Determine and mark the centerline of the door panel.
5. Put on the adjusting rail and align along the marks. Mark the drill holes.
6. Drill the holes.
7. Screw on the adjusting rail tightly.



### Notes:

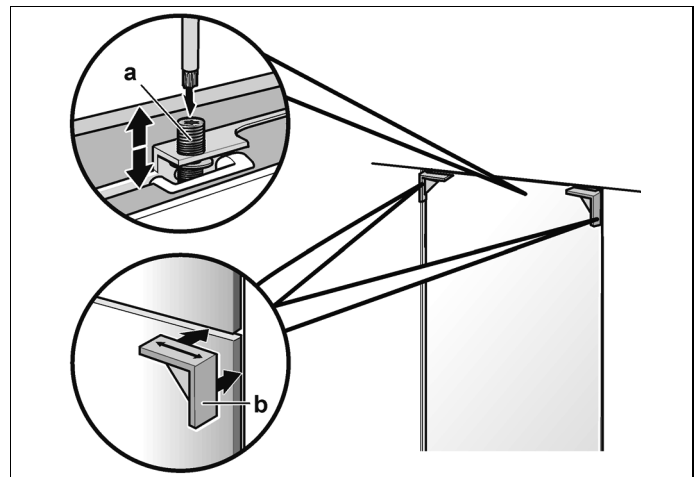
- Attach the adjusting rail to the door panel with at least 10 screws. One screw should be inserted under each double threaded bolt.
- The adjusting rail features a variety of holes for the many different design options of door panels. Always screw into the best load-bearing material of the door panel.

## 8. Attaching the fixation strips to the door panel

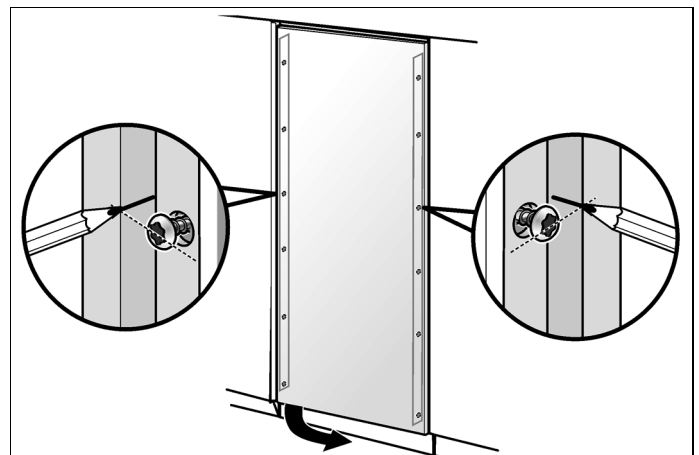
### Note:

The fixation strips are pre-assembled for stainless steel doors. In this case continue with the next installation step ("C / 9. Attaching the door panel").

1. Hang the door panel on the double threaded bolt (a).
2. Align the door panel with the double threaded bolts (Torx screwdriver). Re-examine the dimensions of the gap continuously. Use the height adjustment gauge (b).

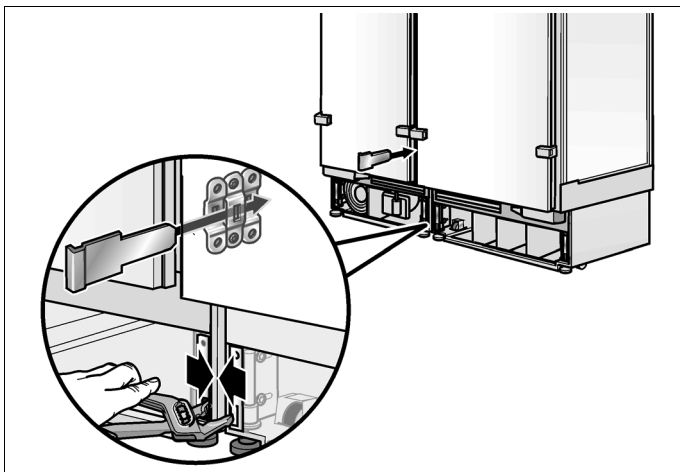


3. Transfer the middle drill holes along the outer edge of the appliance door to the door panel and mark.

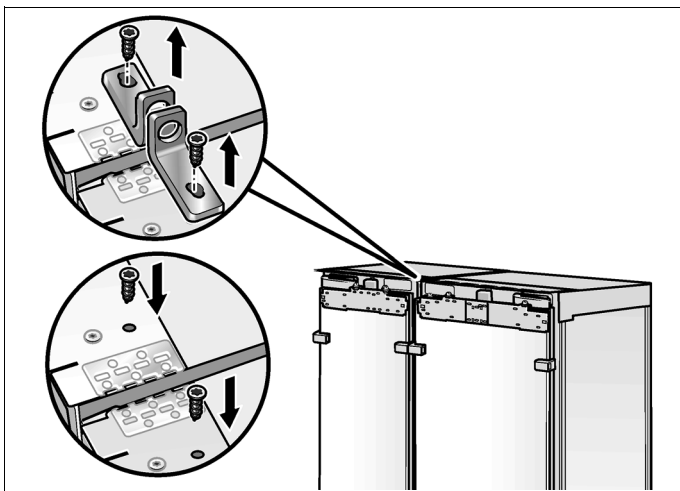


4. Remove the door panel.

- ?**
14. Pull the appliances together at the bottom with Water pump pliers.
  15. When the appliances have been completely pulled together, insert the bar into the lower plates. Use a tool to push the bar in all the way.

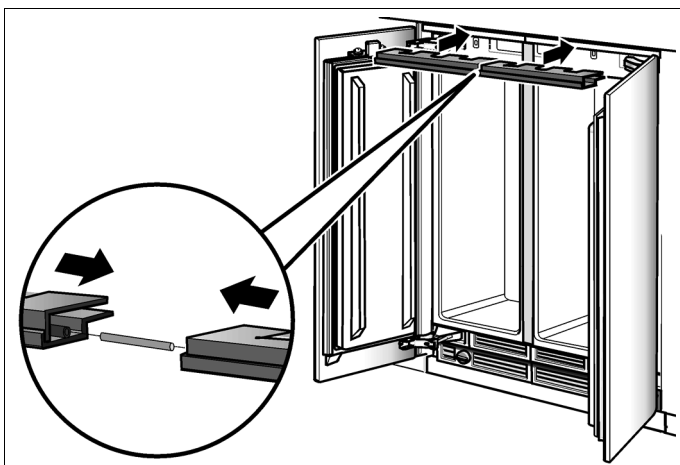


16. Remove the installation aids.



To attach the cover strip to the attachment plate (top):

17. Connect both cover rails to the bolt included in the Side-by-Side kit.



## Preparing to connect the water

(only for appliances which require a water connection)

### Note:

Turn off the main water tap to prevent damage caused by leaking water.

1. Attach the water line to the shut-off valve according to the instructions supplied by the manufacturer of the ice maker installation kit.
2. Install the water line.

Always observe the indicated dimensions to prevent damage to the water line when pushing in the appliance.

