

LIEBHERR

Design Guide 2017-09
Built In Models 24" and 48"

Liebherr's engineering excellence in Germany provides the largest selection of freezers, refrigerators and wine refrigerators worldwide.

Liebherr appliances consistently specializes in the manufacturing of high quality freezers and refrigerators. With more than 300 basic models, we have the widest selection in the world. Liebherr appliances feature premium quality, numerous innovative product ideas and advanced design. Liebherr freezers and refrigerators are manufactured at three modern production plants:

Liebherr Marica in Bulgaria, Liebherr-Hausgeräte Ochsenhausen GmbH in Germany and the Liebherr-Hausgeräte Lienz GmbH in Austria.

The appliances for the North American market are produced in Austria and in Germany.

Liebherr is committed to the protection of the environment and recognizes it as a critical priority. To guarantee an optimum and consistent implementation, all ecological aspects were observed and integrated into the quality control of Liebherr in compliance with DIN EN ISO 9001.

Liebherr's Commitment to the Environment

The components of Liebherr products can be recycled when the necessary resources are applied. A concern for the environment and a desire to protect resources has lead to increased levels of recycling year after year. When Liebherr manufactures products, it is essential that the recyclable recovery rate of the materials we use constantly increases.

Recycling is a common goal among all manufacturers, municipalities and recycling companies to protect our environment. Protecting the environment and producing products which have a low impact on the environment, is one of Liebherr's core values. Whether you are replacing a unit or starting fresh, remember to dispose of your old appliance in an environmentally safe and friendly manner.

Introduction

LIEBHERR WARRANTY PLAN

FULL TWO YEAR WARRANTY - For two years from the date of original purchase, your Liebherr Warranty covers all parts and labor to repair or replace any part of the product which proves to be defective in materials or workmanship.

FULL FIVE YEAR WARRANTY - For five years from the date of original purchase, your Liebherr Warranty covers all parts and labor to repair or replace any components that prove to be defective in materials or workmanship in the sealed system. The "Sealed System" means only the compressor, condenser, evaporator, drier and all connecting tubing.

LIMITED 6TH THROUGH 12TH YEAR WARRANTY - From the 6th through 12th year from the date of original purchase, your Liebherr Warranty covers all parts that prove to be defective in materials or workmanship in the sealed system (parts only).



Customer Service

If your appliance is not working properly, or if the temperature display reads "F0" to "F5", please call the numbers listed below.

Give the **fault number displayed**, together with the **Type Designation**, **Service Number** and **Appliance Number (Serial Number)** from the model plate, to ensure prompt, accurate servicing. The model plate is located inside the appliance.

Leave the appliance door closed until the customer service technician arrives to minimize any further cold loss.

For Service and Parts in the U.S.:

PlusOne Solutions, Inc.

3501 Quadrangle Blvd, Suite 120
Orlando, FL 32817

Toll Free: **1-866-LIEBHER or**
1-866-543-2437

Service-appliances.us@liebherr.com
www.liebherr-appliances.com

For Service and Parts in Canada:

Euro-Parts Canada

39822 Belgrave Road,
BELGRAVE, Ontario, N0G 1E0

Phone: (519) 357-3320
Fax: (519) 357-1326
Toll Free: **1-888-LIEBHER or**
1-888-543-2437

www.euro-parts.ca

Need help?

For design related inquiries not addressed in this Design Guide please email **install.americas@liebherr.com**

General Remarks

Safety Warnings	I
Electrical Requirements & Safety	II
IceMaker (if equipped)	III
Area Requirements	IV
Safety Regulations	V

Built In Models 24" and 48"

24" and 48" Models	1
Overview Stainless steel	4
Unit Dimensions Dimensions "Solo" Stainless steel	5
Unit Dimensions Dimensions "SBS" Stainless steel	7
Cabinet Opening Dimensions	9
Ventilation Requirements	10
Accessories for Stainless steel	11
Door Swing Clearance, Stainless steel appliances, Door hinges left 90°	12
Door Swing Clearance, Stainless steel appliances, Door hinges right 90°	13
Door Swing Clearance, Stainless steel appliances, Door hinges left 110°	14
Door Swing Clearance, Stainless steel appliances, Door hinges right 110°	15

General Remarks

I. Safety Warnings

PLEASE READ AND FOLLOW THESE INSTRUCTIONS

This design guide contains Warning and Caution statements. This information is important for safe and efficient installation.

This design guide is not replacing the use and care manual which contains important information on how to use Liebherr appliances.

Always read and follow all Warning and Caution statements!



indicates a hazardous situation, which if not avoided, will result in death or serious injury.



indicates a hazardous situation, which if not avoided, could result in death or serious injury.



indicates a hazardous situation, which if not avoided, will result in minor or moderate injury.

NOTICE

indicates a hazardous situation, which if not avoided, could result in damage to property.

NOTE

indicates useful advice and tips.

Make sure incoming voltage is the same as the unit rating.

To reduce the risk of fire, electric shock, or personal injury, the installation work and electrical wiring must be done by a qualified electrician in accordance with all applicable codes and standards, including fire rated construction.

To the Installer

It is very important that the guidelines and instructions are followed in this design guide to ensure proper installation and operation of the unit. The Installation Guidelines section contains important information for making sure the installation is correct. Read and understand all the information and installation guidelines in this manual before the unit is installed.

It is also very important to **know** the Safety Information.

General Remarks

II. Electrical Requirements & Safety

A 115 Volt, 60 Hz, 15 Amp (20 Amp for side-by-side installation) fused electrical supply is required. Connect undercounter wine cabinet to a 115 VAC, 10 amp (15 Amp for side-by-side installations) circuit that is controlled by a circuit breaker or fuse.

We recommend using a dedicated circuit for these appliances to prevent electrical overload. Comply with the National Electrical Code as well as local codes and ordinances when installing the receptacle.

The power cord is equipped with a three-prong (grounding) plug for your protection against possible shock hazards. To maintain this protection:

- Do not modify the plug by removing the round grounding prong.
- Do not use a power cord that is frayed or damaged.



WARNING

Do not ground to a gas pipe. Check with a qualified electrician if you are not sure the appliance is properly grounded. Do not have a fuse in the neutral or grounding circuit.



WARNING

ELECTROCUTION HAZARD

Electrical Grounding Required. This appliance is equipped with a three-prong(grounding) polarized plug for your protection against possible shock hazards.

- **DO NOT** remove the round grounding prong from the plug.
- **DO NOT** use a two-prong grounding adapter.
- **DO NOT** use an extension cord to connect power to the unit.

III. IceMaker (if equipped)

The icemaker is located in the freezer compartment. It must be connected to the water supply to function properly. The appliance must be level for the icemaker to function properly.

The water pressure must be between 21.8-87.0 psi (1.5-6 bar). Use a 1/4" OD copper line to connect the water supply to the solenoid valve. This is not supplied with the refrigerator.

If you have hard water, we recommend you install a water softener. Also, a filter must be installed if the water contains solids such as sand. All equipment and devices used to supply the water to the appliance must comply with the current regulations for your geographical area.

Safety Instructions and Warnings

- Do not attach the water source while the appliance is connected to an electrical outlet.
- A shut-off valve, must be installed between the hose line and the main water supply so that the water supply can be stopped if necessary. Do not install the shut-off valve behind the refrigeration unit.
- The connection to the water supply may only be made by a trained and licensed plumber.
- The water quality must comply with the drinking water regulations for the geographical area where the appliance is located.
- The icemaker is designed exclusively to make ice cubes in quantities needed by a household and may only be operated with water appropriate for this purpose.
- All repairs and work on the icemaker may only be done by customer service personnel or other trained personnel.
- The manufacturer cannot accept liability for damage caused by equipment or water lines between the solenoid valve and the water supply.

General Remarks

IV. Area Requirements

Verify the following:

- Floors can support refrigerator's weight plus approximately 1200 pounds (544 kg) of food weight. Not all Liebherr products are designed for 1200 pounds (544 kg) of food. Some units are smaller and total weights may vary.
- Finished kitchen floor height is level. Refrigerator must be shimmed to the floor level, or levelled, to make sure, air vents are not obstructed.
- Remove anything attached to the rear or side walls that can obstruct refrigerator opening.
- Cutout dimensions are accurate.
- Electrical outlet is in correct location.

Do not install this unit next to any other refrigerator or freezer except another Liebherr model. Liebherr models are designed to allow side by side installation. They are equipped with a heating system to eliminate condensation when units are installed side by side. Installing this unit next to any other refrigerator or freezer can cause condensation or cause damage to the Liebherr unit.

NOTICE

To protect the refrigerator from possible damage, allow the appliance to stand 1 hour in place before turning the electricity on. This allows the refrigerant and system lubrication to reach equilibrium.

Blocking For Safety

The anti-tip brackets must be installed to prevent the unit from tipping after it is installed.

V. Safety Regulations

The appliance complies with UL250 and CAN/CSA C 22.2 No. 93 and is designed to cool, freeze, store food as well as make ice (if equipped). It is designed as a household appliance. If used commercially, the relevant regulations on commercial use must be observed.

The appliance is set to operate within specific ambient temperature limits according to its climate rating. These temperature limits should not be exceeded. The correct climate rating for your appliance is indicated on the model plate.

This is explained as follows:

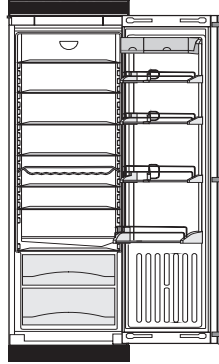
Climate Rating	Set for Ambient Temperatures of
SN	50°F to 90°F (10°C to 32°C)
N	61°F to 90°F (16°C to 32°C)
ST	61°F to 101°F (16°C to 38°C)
T	61°F to 110°F (16°C to 43°C)
SN-ST	50°F to 101°F (10°C to 38°C)
SN-T	50°F to 110°F (10°C to 43°C)

- The refrigerant circuit has been tested for leaks.

Built In Models 24" and 48"

R 1410 & BF 1061 - SBS 241

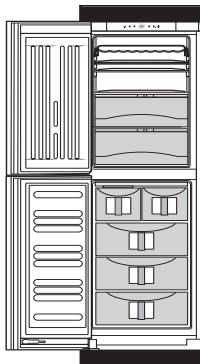
Liebherr offers a new concept in cooling technology to the American market. The compact 24" appliances can be used as a single unit or together as a Side-by-Side with stainless steel doors.



R 1410

Energy Star:	qualified
Energy consumption p. a.:	298 kWh
Energy Supply:	115V/60Hz/350W
Total capacity:	13.8 cu ft (391 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

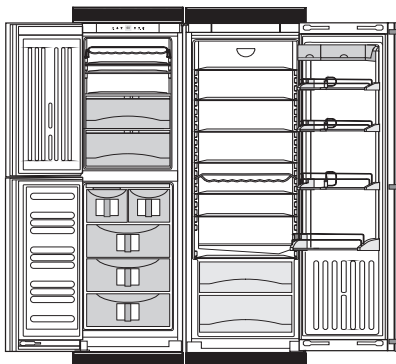
- Automatic refrigerator defrosting
- LED lighting
- Full extension vegetable drawers on telescopic rails



BF 1061

Energy Star:	qualified
Energy consumption p. a.:	495 kWh
Energy Supply:	115V/60Hz/350W
Total capacity:	10.0 cu ft (284 L)
BioFresh:	5.5 cu ft (157 L)
Freezer:	4.5 cu ft (127 L)
Ice cube capacity:	2.2 lbs./24h
Ice cube stock:	3.3 lbs.
Climate Rating:	SN-T
Door hinges:	left / reversible

- Automatic refrigerator defrosting
- LED lighting for refrigerator
- Full extension BioFresh drawers on telescopic rails
- Automatic freezer compartment defrosting
- Automatic IceMaker can be switched off



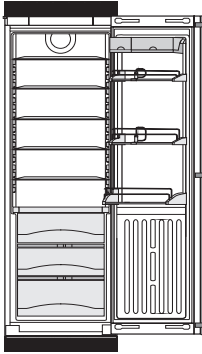
SBS 241 (BF 1061 & R 1410)

Energy Supply:	115V/60Hz/700W
Total capacity:	23.8 cu ft (675 L)
Refrigerator:	13.8 cu ft (391 L)
BioFresh:	5.5 cu ft (157 L)
Freezer:	4.5 cu ft (127 L)
Ice cube capacity:	2.2 lbs./24h
Ice cube stock:	3.3 lbs.
Climate Rating:	SN-T
Door hinges:	left / right / reversible

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- LED lighting for refrigerator and BioFresh
- Full extension vegetable drawers on telescopic rails
- Automatic IceMaker can be switched off

Built In Models 24" and 48"

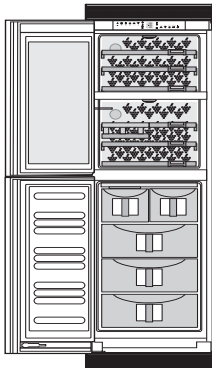
RB 1410 & WF 1061- SBS 246



RB 1410

Energy Star:	qualified
Energy consumption p. a.:	295 kWh
Energy Supply:	115V/60Hz/350W
Total capacity:	12.8 cu ft (363 L)
Refrigerator	8.7 cu ft (246 L)
BioFresh	4.1 cu ft (117 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

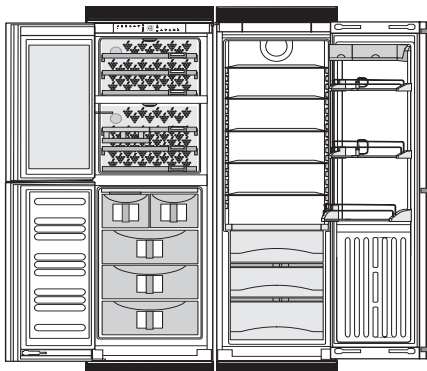
- Automatic refrigerator defrosting
- LED lighting for refrigerator and BioFresh
- Full extension BioFresh drawers on telescopic rails



WF 1061

Energy Supply:	115V/60Hz/350W
Total capacity:	9.0 cu ft (254 L)
Wine Storage:	4.5 cu ft (127 L)
Total amount of bottles:	34 bottles
upper rack:	15 bottles
lower rack:	19 bottles
Freezer:	4.5 cu ft (127 L)
Ice cube capacity:	2.2 lbs./24h
Ice cube stock:	3.3 lbs.
Climate Rating:	SN-T
Door hinges:	left / reversible

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- Automatic IceMaker can be switched off



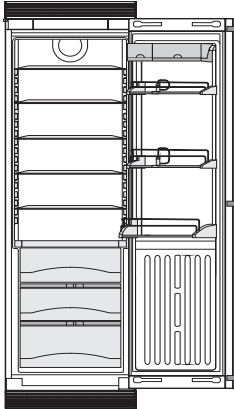
SBS 246 (WF 1061 & RB 1410)

Energy Supply:	115V/60Hz/700W
Total capacity:	21.8 cu ft (617 L)
Refrigerator:	8.7 cu ft (246 L)
BioFresh:	4.1 cu ft (117 L)
Wine Storage:	4.5 cu ft (127 L)
Total amount of bottles:	34 bottles
upper rack:	15 bottles
lower rack:	19 bottles
Freezer:	4.5 cu ft (127 L)
Ice cube capacity:	2.2 lbs./24h
Ice cube stock:	3.3 lbs.
Climate Rating:	SN-T
Door hinges:	left / right / reversible

- Automatic refrigerator defrosting
- Automatic freezer compartment defrosting
- LED lighting for refrigerator and wine compartment
- Full extension BioFresh drawers on telescopic rails
- Automatic IceMaker can be switched off

Built In Models 24" and 48"

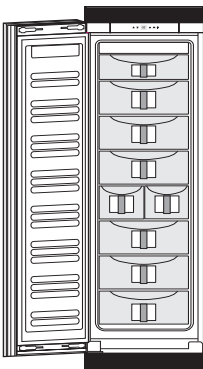
RB 1410 & F 1051- SBS 243



RB 1410

Energy Star:	qualified
Energy consumption p. a.:	298 kWh
Energy Supply:	115V/60Hz/350W
Total capacity:	12.8 cu ft (363 L)
Refrigerator	8.7 cu ft (246 L)
BioFresh	4.1 cu ft (117 L)
Climate Rating:	SN-T
Door hinges:	right / reversible

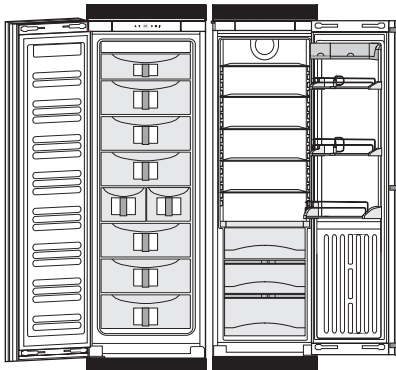
- Automatic refrigerator defrosting
- LED lighting for refrigerator and BioFresh
- Full extension BioFresh drawers on telescopic rails



F 1051

Energy Star:	qualified
Energy consumption p. a.:	465 kWh
Energy Supply:	115V/60Hz/350W
Total capacity:	9.4 cu ft (267 L)
Freezer	9.4 cu ft (267 L)
Climate Rating:	SN-T
Door hinges:	left / reversible

- Automatic freezer defrosting
- LED lighting for freezer
- Automatic IceMaker can be switched off
- Ice cube capacity: 2.2 lbs./24h
- Ice cube stock: 3.3 lbs.



SBS 243 (F 1051 & RB 1410)

Energy Supply:	115V/60Hz/700W
Total capacity:	21.8 cu ft (617 L)
Refrigerator:	8.7 cu ft (246 L)
BioFresh:	4.1 cu ft (117 L)
Freezer:	9.4 cu ft (270 L)
Ice cube capacity:	2.2 lbs./24h
Ice cube stock:	3.3 lbs.
Climate Rating:	SN-T
Door hinges:	left / right / reversible

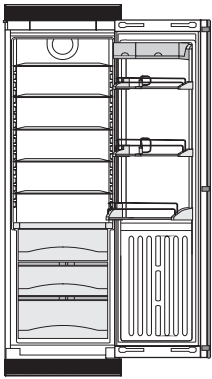
- LED lighting for refrigerator and freezer
- Automatic refrigerator and freezer defrosting
- Full extension BioFresh drawers on telescopic rails
- Automatic IceMaker can be switched off

Built In Models 24" and 48"

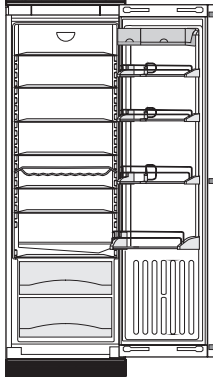
Overview Stainless steel:

R/RB 1410, BF/WF 1061, F 1051 - SBS 241/243/246

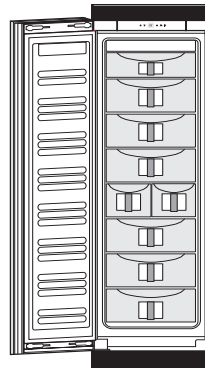
The Liebherr refrigerator-freezer with stainless steel doors can be easily integrated into any kitchen layout. The stainless steel gives a more professional style and it is easily cleaned. No panels are required.



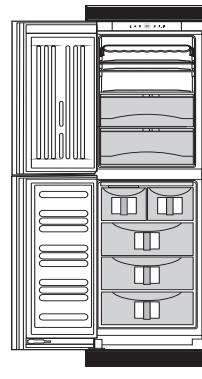
RB 1410



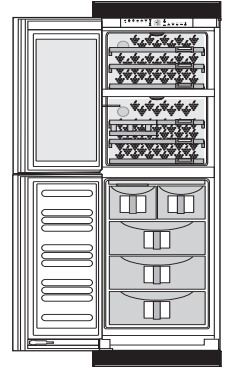
R 1410



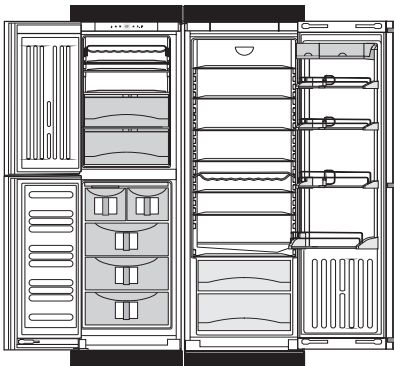
F 1051



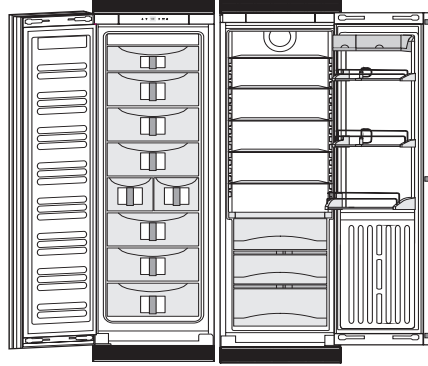
BF 1061



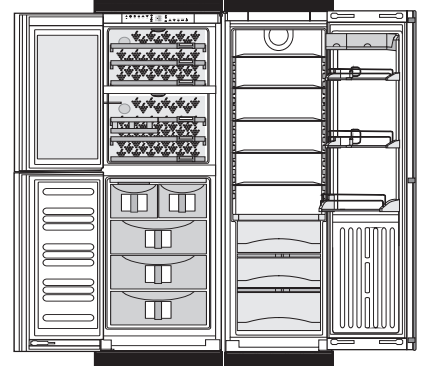
WF 1061



SBS 241



SBS 243

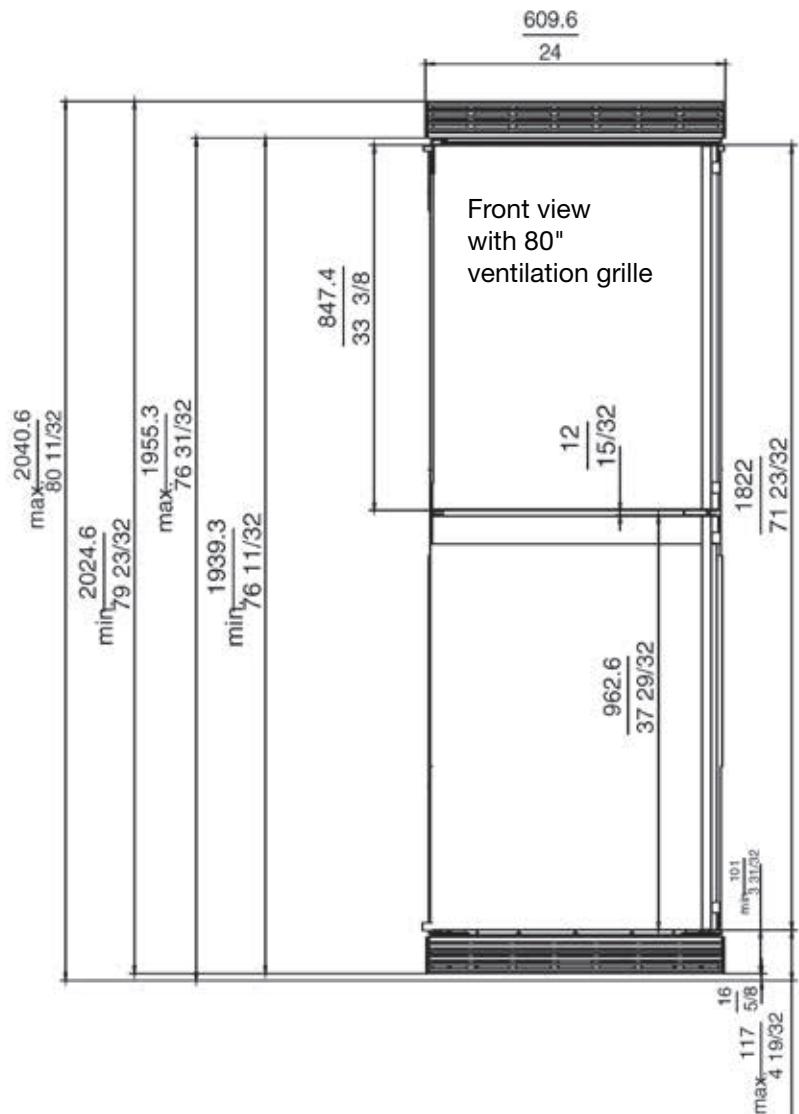
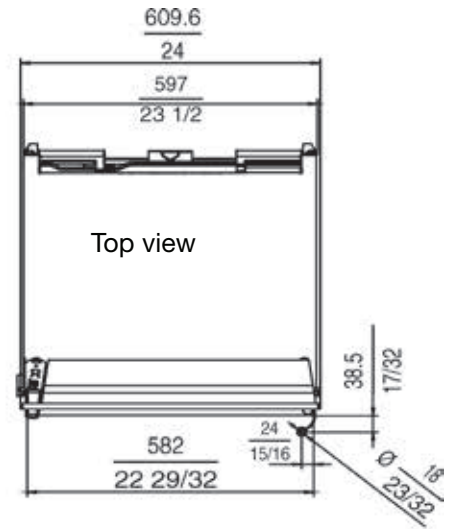
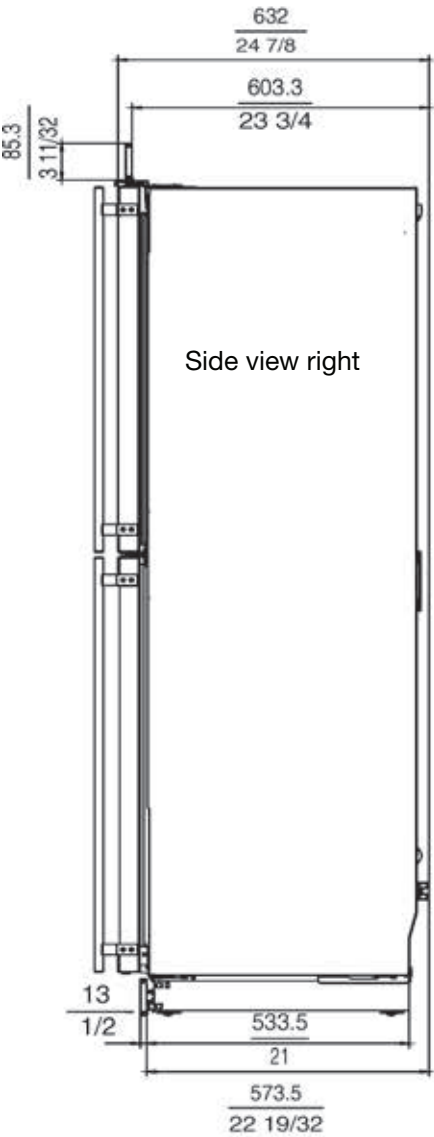


SBS 246

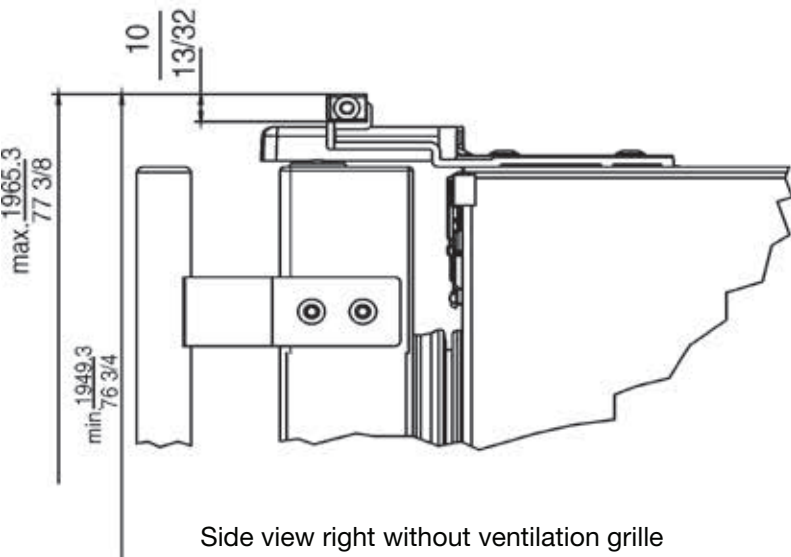
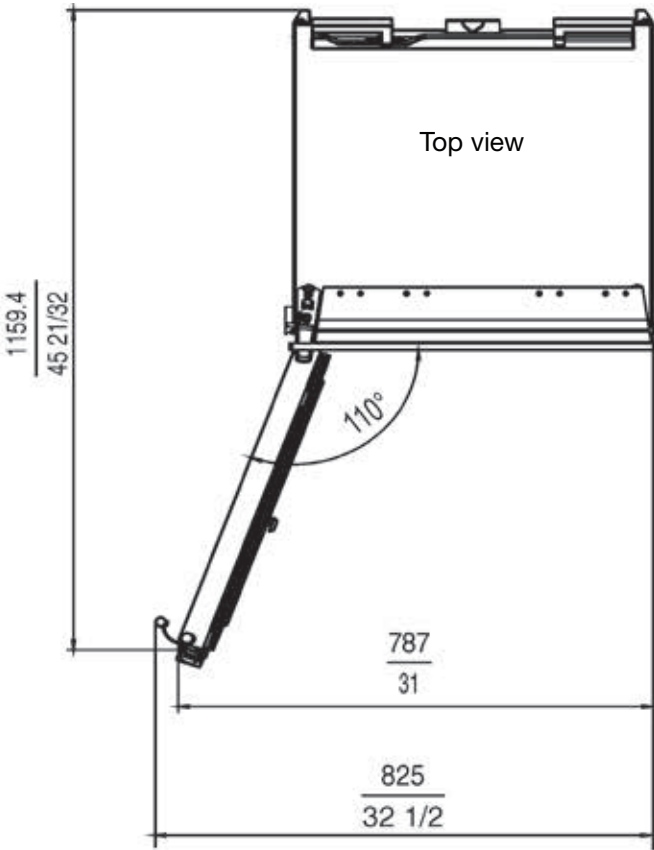
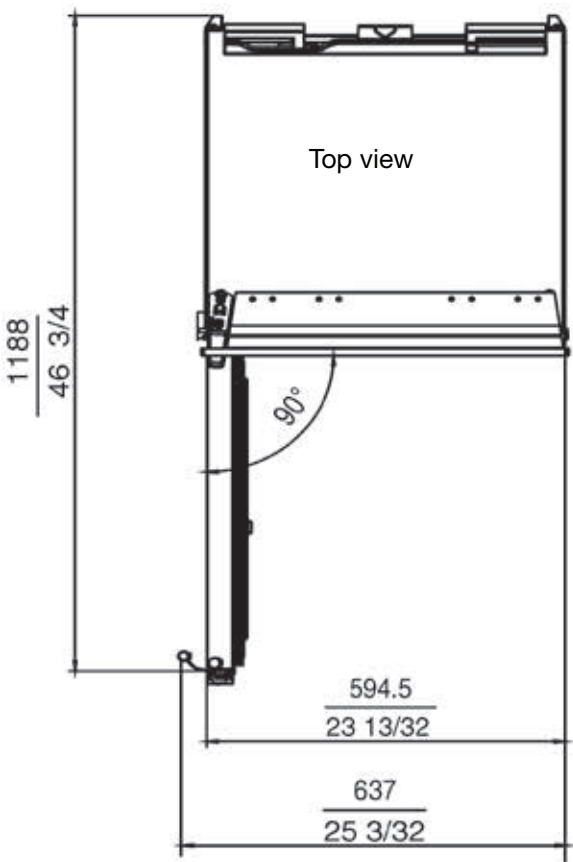
Built In Models 24" and 48"

**Unit Dimensions:
Solo Stainless steel**

**BF, WF 1061
R, RB 1410
F 1051**



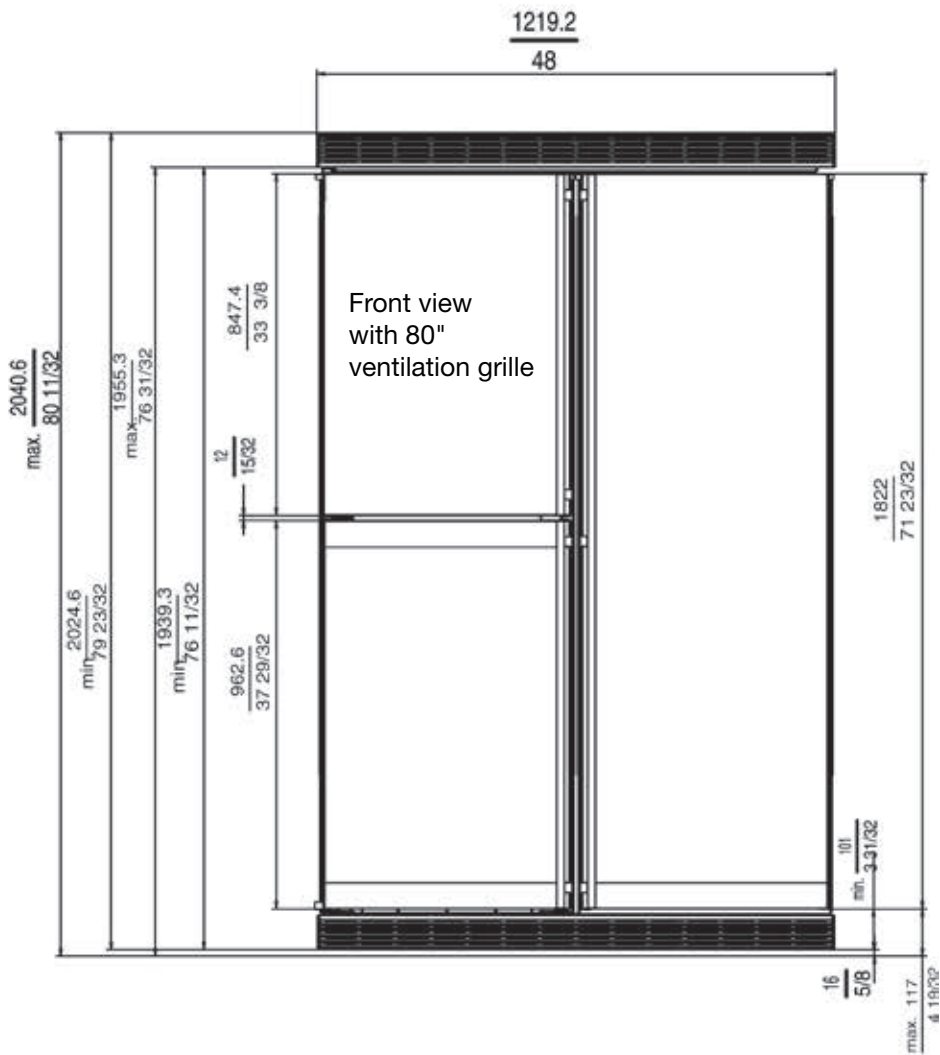
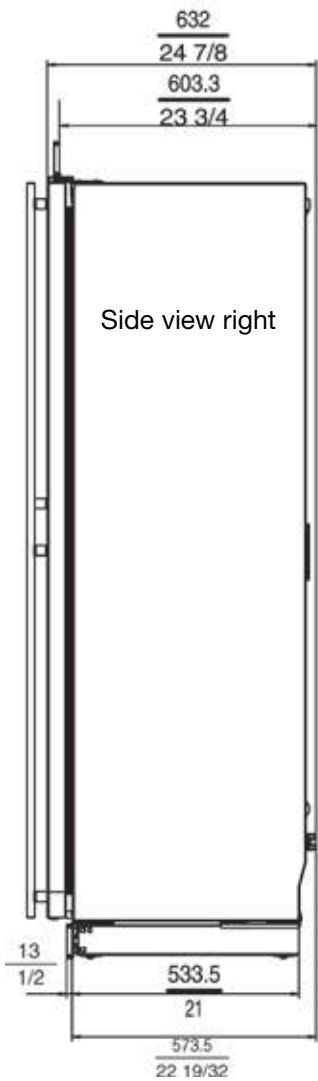
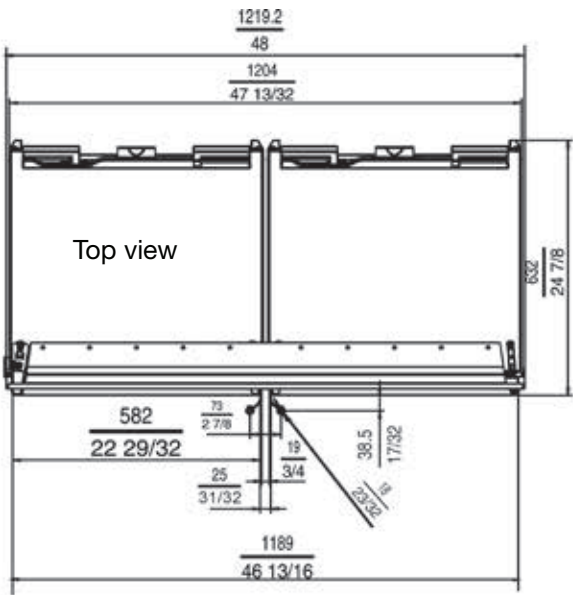
Built In Models 24" and 48"



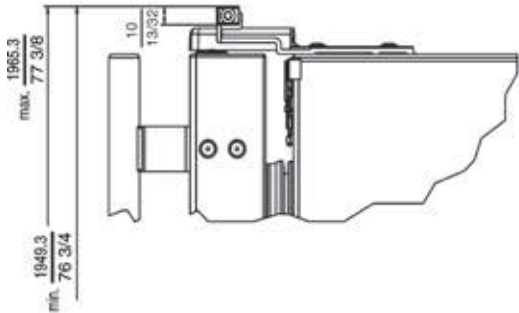
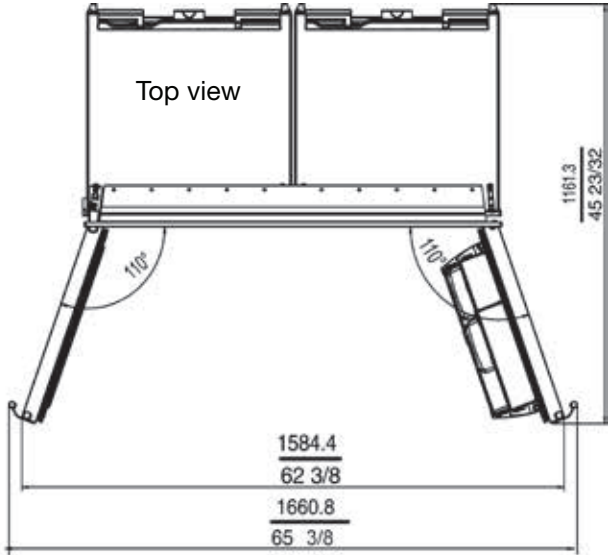
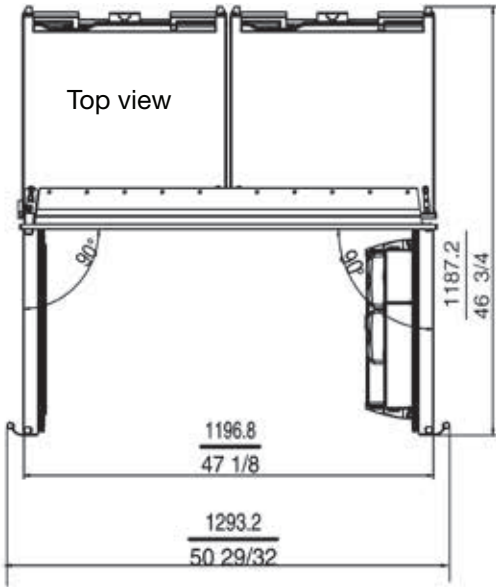
Built In Models 24" and 48"

**Unit Dimensions:
SBS Stainless steel**

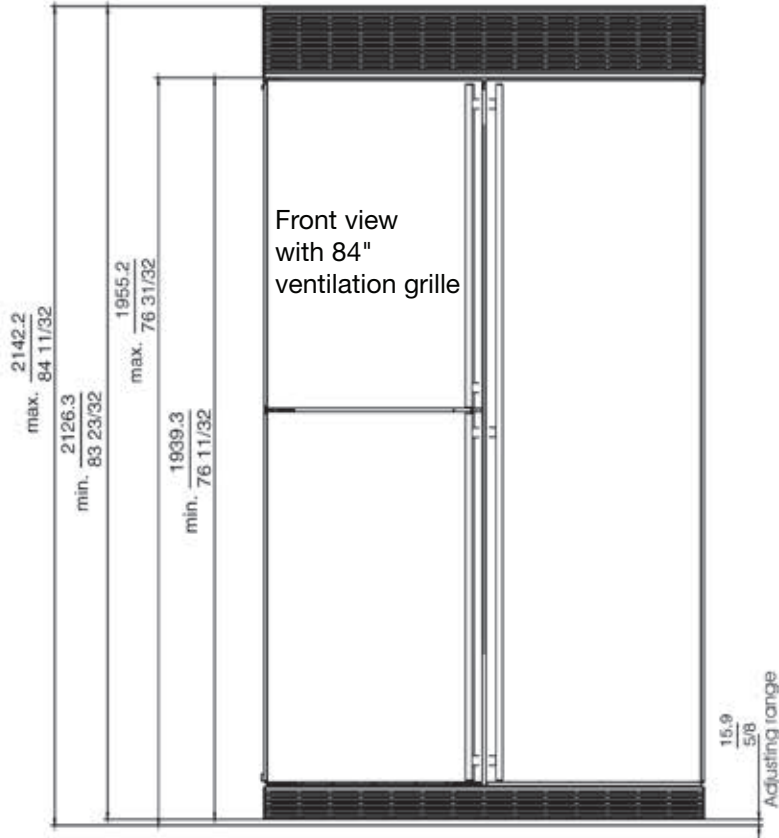
- SBS 241**
- SBS 243**
- SBS 246**



Built In Models 24" and 48"



Side view right without ventilation grille

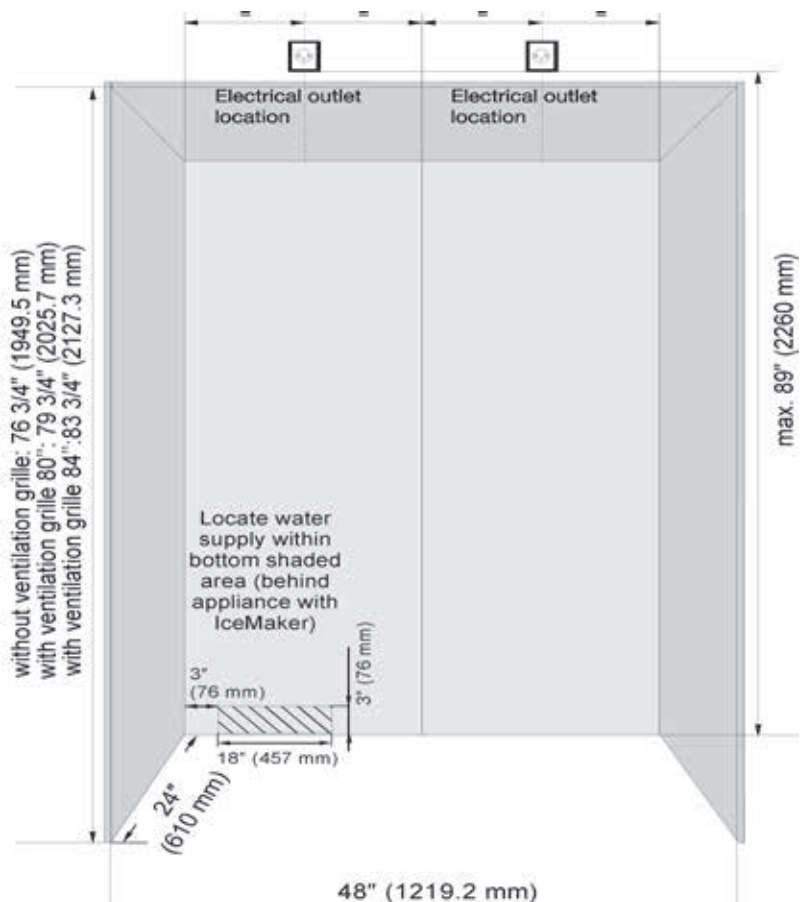


Cabinet Opening Dimensions

- Use a minimum 2" (51 mm) filler, for corner installations, so the door can be opened to 90°. If you're using raised panels, consider using a wider filler.
- Use the supplied filler strip when units are installed side by side.

The given cabinet opening height dimension includes top air vent. If you choose to place the vent above the cabinet or in a soffit, you will need to adjust the height dimension accordingly.

SBS 241
SBS 243
SBS 246



Ventilation Requirements

„This is a built-in refrigerator-freezer with stainless steel doors. The unit is not intended for freestanding use and has to be installed inside a cabinet. This type of cabinet must be carefully constructed using the proper dimensions and it must provide proper ventilation to ensure proper appliance operation.

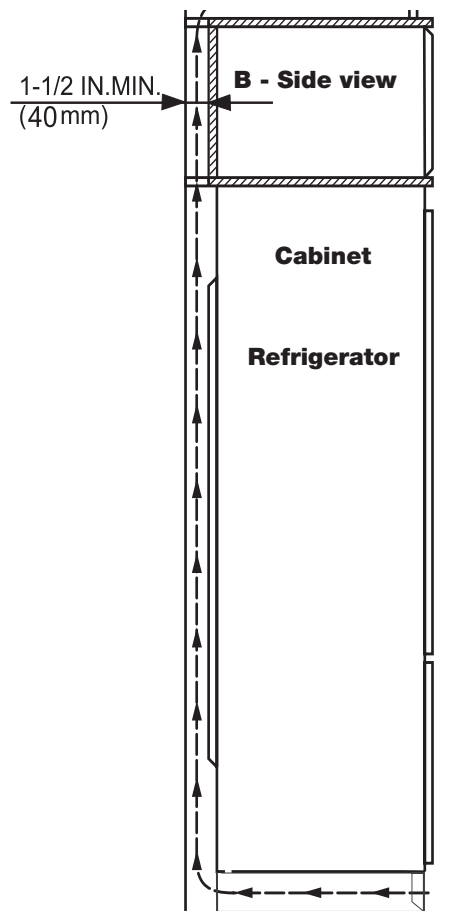
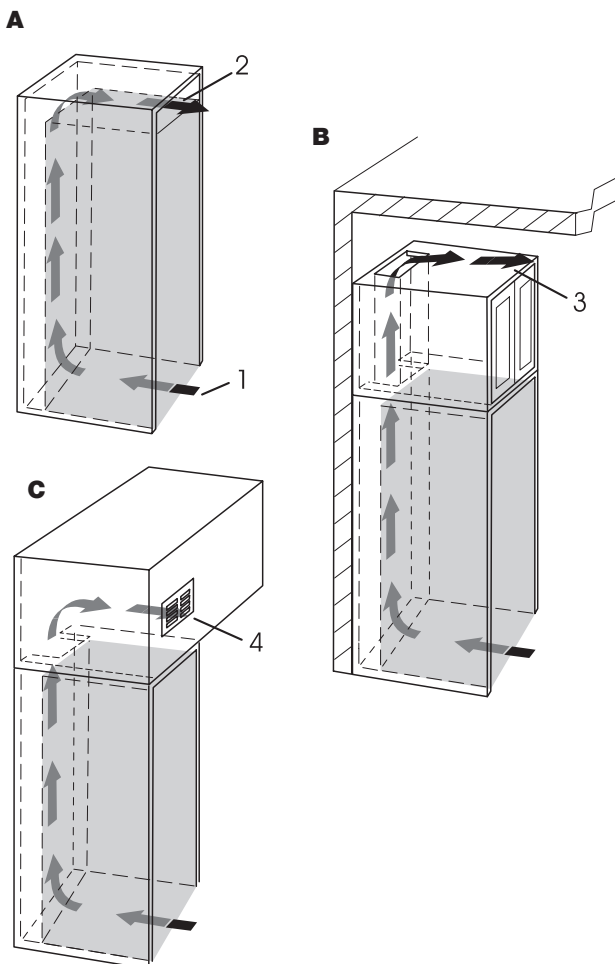
Kitchen Cabinet Airflow

1. The following ventilation dimensions must be observed:

There must be a ventilation space at least 31 in.² (200 cm²) at the airflow inlet (1) and at the airflow outlet (2).

The top ventilation space can be directed in one of the following ways:

- A) Directly over the appliance (2) with an optional factory air vent.
- B) Above the cabinet and below the ceiling (3).
- C) Through a vent installed in a soffit (4).



The refrigerator is designed to allow proper air flow when the appliance is installed up against the wall. A minimum space of 1 1/2" is required when a cabinet is built above.

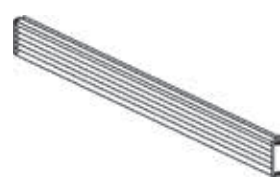
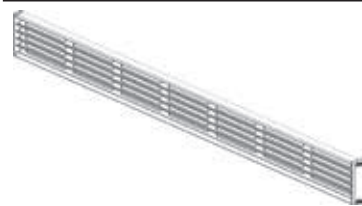
Built In Models 24" and 48"

Accessories for Stainless steel



Kits may be necessary to complete this unit's installation or to apply it in a different manner than its original intent. If a kit is necessary, contact your Liebherr retailer or distributor.

The following kits are available:

For Single 24" Installation R, RB 1410 and BF, WF 1061, F 1051

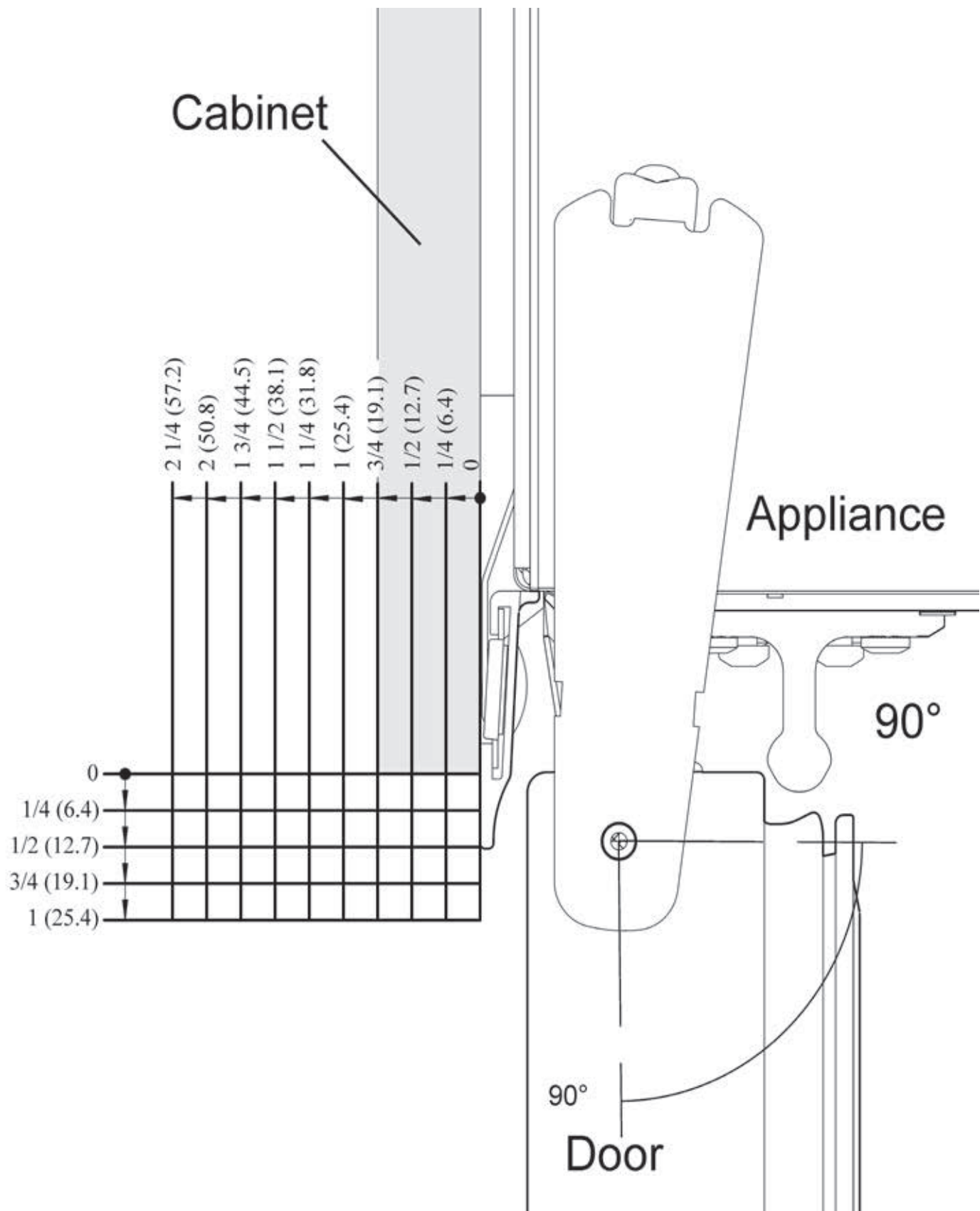
	9900306	Single Installation Set Bottom ventilation grille, Installation parts Standard installation accessory
	9900302	Top Ventilation Grille Optional installation accessory

For Side-by-Side 48" Unit Installation SBS 241, 243, 246

	9900308	Side-by-Side Kit SBS 240 Standard installation accessory
	9900304	Top Ventilation Grille SBS 80"
	9900344	Top Ventilation Grille SBS 84" Optional installation accessory

Built In Models 24" and 48"

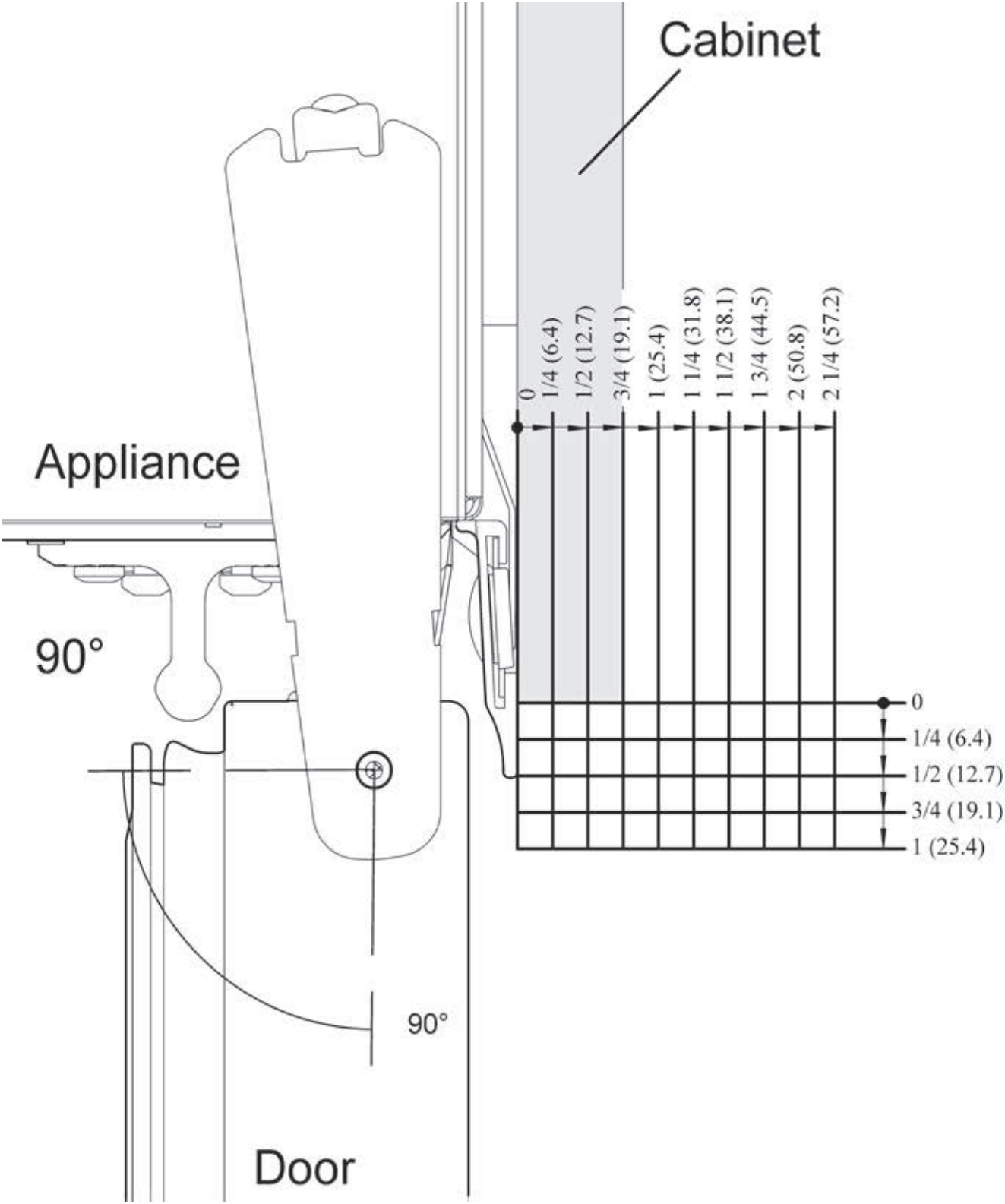
Door Swing Clearance, Stainless steel appliances, Door hinges left 90°



Scale 1:1

Built In Models 24" and 48"

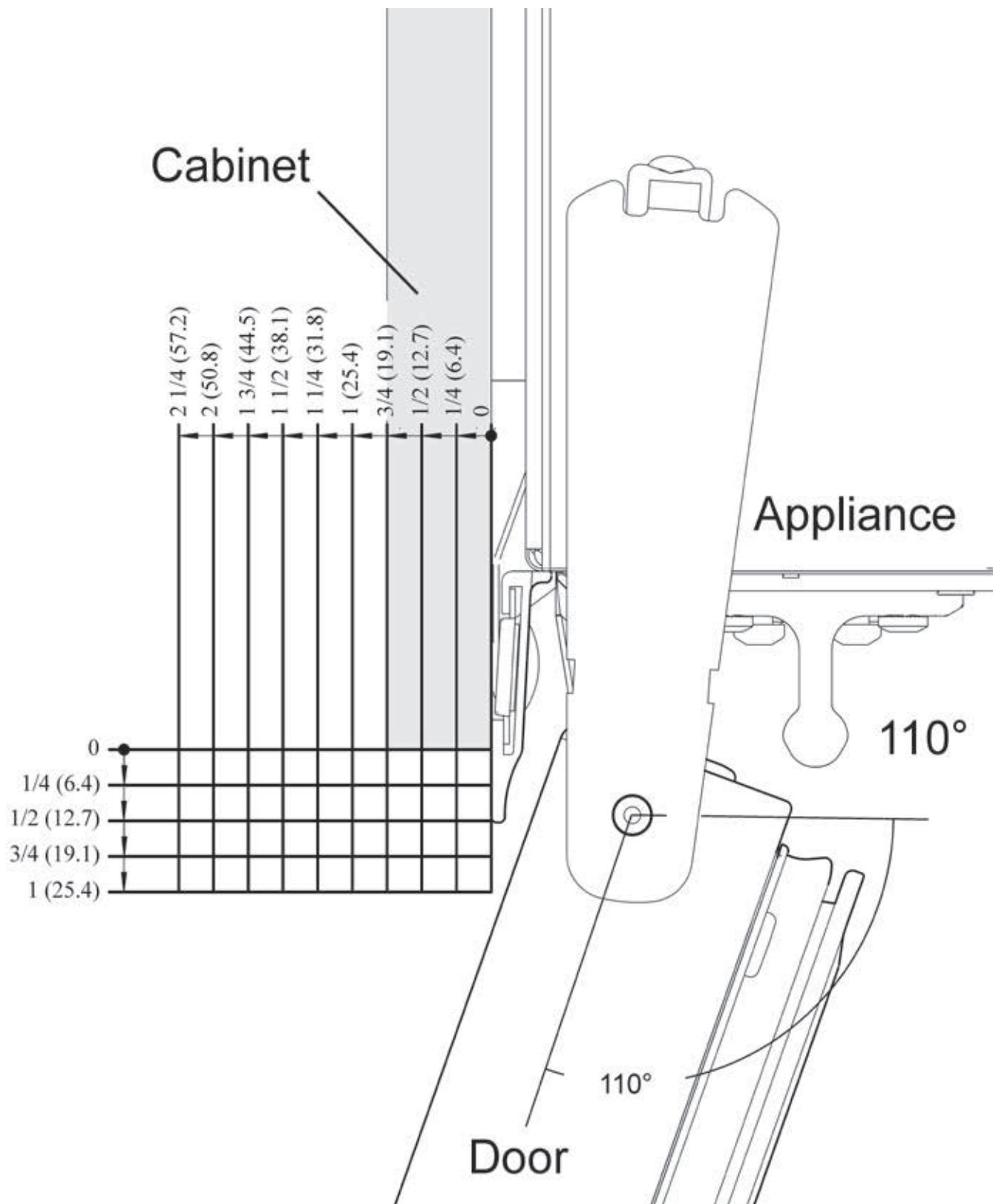
Door Swing Clearance, Stainless steel appliances, Door hinges right 90°



Scale 1:1

Built In Models 24" and 48"

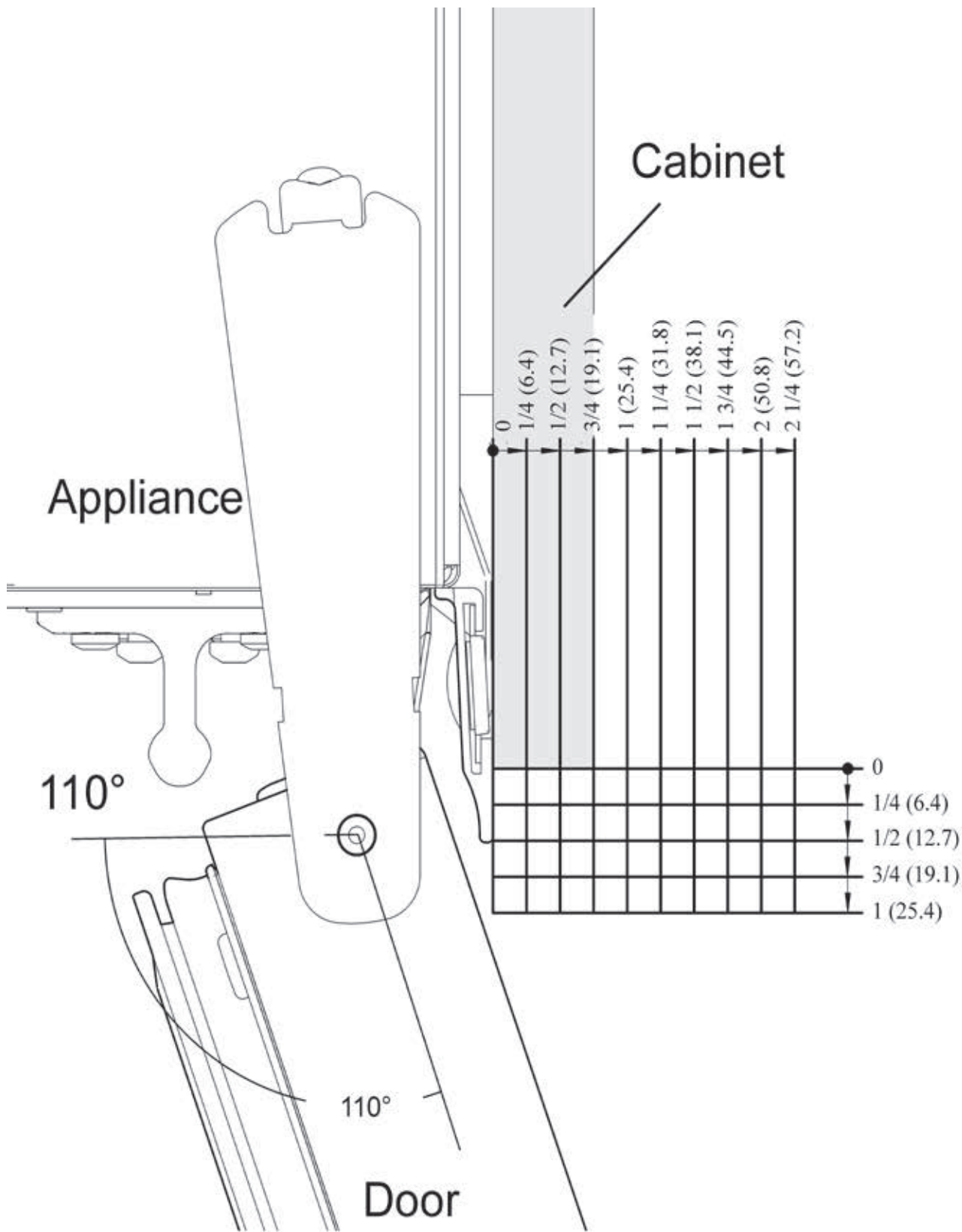
Door Swing Clearance, Stainless steel appliances, Door hinges left 110°



Scale 1:1

Built In Models 24" and 48"

Door Swing Clearance, Stainless steel appliances, Door hinges right 110°



Scale 1:1

LIEBHERR

Design Guide 2017-09