

Cisco Room Panorama (Low Ceiling)

Additional Guidelines and Requirements



The standard Cisco Room Panorama system requires a ceiling height of minimum 2.70 m (106.3 in.). In close cooperation with a Cisco certified AV integrator you can customize the Room Panorama system to also fit rooms with a ceiling height as low as 2.35 m (92.5 in.). This is referred to as the *low ceiling* option.

This document contains only the *extra* guidelines and requirements that applies when building the low ceiling option of Room Panorama. Therefore, also read the full *Cisco Room Panorama Room Preparation Guidelines* before you start planning the installation.

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Important! You must work with a Cisco certified AV integrator. It is the responsibility of the AV integrator to provide the technical solution for the content screens. The AV integrator is responsible for everything that is connected to the HDMI 3 output on the codec.

Introduction

A standard Room Panorama installation requires a ceiling height of minimum 2.70 m (106.3 in.). The content screen, which is a mandatory part of the system, is mounted above the main screens.

However, there is also an option that allows for installations in rooms with a ceiling height of minimum 2.35 m (92.5 in.). This option requires that you work with an AV integrator to customize the system.

We refer to this option as the *low ceiling* option.

Content screen not included

Even though the content screen is an integral part of any Room Panorama system, a content screen is *not* included in the *low ceiling* option as delivered by Cisco.

You must work with a Cisco certified AV integrator to design and provide a content screen solution that is tailored to your room. It is the responsibility of the AV integrator to provide a technical solution for the content screens that works in your environment.

Room Preparation Guidelines

It is important that you read our full *Room Preparation Guidelines* before you start planning the installation of the low ceiling version of Room Panorama. They are available online.

<https://www.cisco.com/go/panorama-installation>

Everything, except information about minimum room size and mounting of the content screen, also applies to the low ceiling option.



Low ceiling option: The AV integrator is responsible for the content screen location and operation.

Important! You must work with a Cisco certified AV integrator. It is the responsibility of the AV integrator to provide the technical solution for the content screens. The AV integrator is responsible for everything that is connected to the HDMI 3 output on the codec.

Set-up examples (page 1 of 5)

Two content screens on the side

You can set up a Room Panorama low ceiling configuration with two content screens, one on each side of the main system.

We advise you to work closely with your AV integrator to tailor the set-up for your specific room.

Content screen recommendations

- Use Cisco Webex Certified screens.
- Choose the screen size that works the best for your room.
- Mount the content screens high enough to give a clear view to a content screen from all the positions around the table.

Adjust the angle and height of the screens to give the optimal experience. It will depend on both the room size and table size.

- Do not mount the content screens so that they overlap with the main system. That would potentially block necessary access to the components behind the main screens.

Minimum room size

- Height: 2.35m (92.5 in.)
- Width (depends on the size of the content screens):
 - 7.3m (287 in.) for 55" content screens
 - 7.8m (307 in.) for 65" content screens
 - 8.3m (327 in.) for 75" content screens
- Length:
 - Depends on the table size (refer to the *Room Preparation Guidelines* for Room Panorama)



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Set-up examples (page 2 of 5)

Two content screens along the side walls

You can set up a Room Panorama low ceiling configuration with two content screens along the side walls.

This configuration works well if your room is not wide enough to place the content screens beside the main system.

We advise you to work closely with your AV integrator to tailor the set-up for your specific room.

Content screen recommendations

- Use Cisco Webex Certified screens.
- Choose the screen size that works the best for your room.
- Mount the content screens high enough to give a clear view to a content screen from all the positions around the table.

Minimum room size

- Height: 2.35 m (92.5 in.)
- Width and length:
 - Depends on the table size. It's the same as for rooms with full ceiling height (refer to the *Room Preparation Guidelines* for Room Panorama)



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Set-up examples (page 3 of 5)

Content screen below the main screens

You can set up a Room Panorama low ceiling configuration with one content screen below the main screens. This configuration works well with a classic video conferencing table for 6 participants¹.

We advise you to work closely with your AV integrator to tailor the set-up for your specific room.

Re-purposing an IX5000 room

The Room Panorama low ceiling configuration with the small classic video conferencing table requires a room that is 0.3 m (11.8 in.) longer than a minimum sized one-row IX5000 room².

- If your room isn't long enough, we recommend that you install the Room 70 Panorama instead.
- If your IX5000 room is larger, opportunities for different set-ups may open. We recommend the large classic table if your room allows for it.

In both cases, refer to the *Room Preparation Guidelines* for Room Panorama systems for ideas on how to re-use existing CTS-3x00, TX-9x00, and IX-5x00 rooms for Room Panorama.

Content screen recommendations

- Use a Cisco Webex Certified screen.
- Screen size: 55"
- The content screen cannot be mounted closer to the main system than 380 mm (15.0 in.).

Otherwise, the content screen will block necessary access to the components behind the main screens.

Minimum room size

With a *small* classic table:

- Height: 2.35 m (92.5 in.)
- Width: 5.8 m (228 in.)
- Length: 4.9 m (193 in.)

With a *large* classic table:

- Height: 2.35 m (92.5 in.)
- Width: 7.2 m (284 in.)
- Length: 5.0 m (197 in.)

See more details on the next pages.



¹ Room Panorama does not support a second row of participants in this set-up.

² The minimum size for a one-row IX5000 room is height: 2.4 m (94.5 in.); width: 5.8 m (228 in.); length: 4.6 m (181 in.).

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Set-up examples (page 4 of 5)

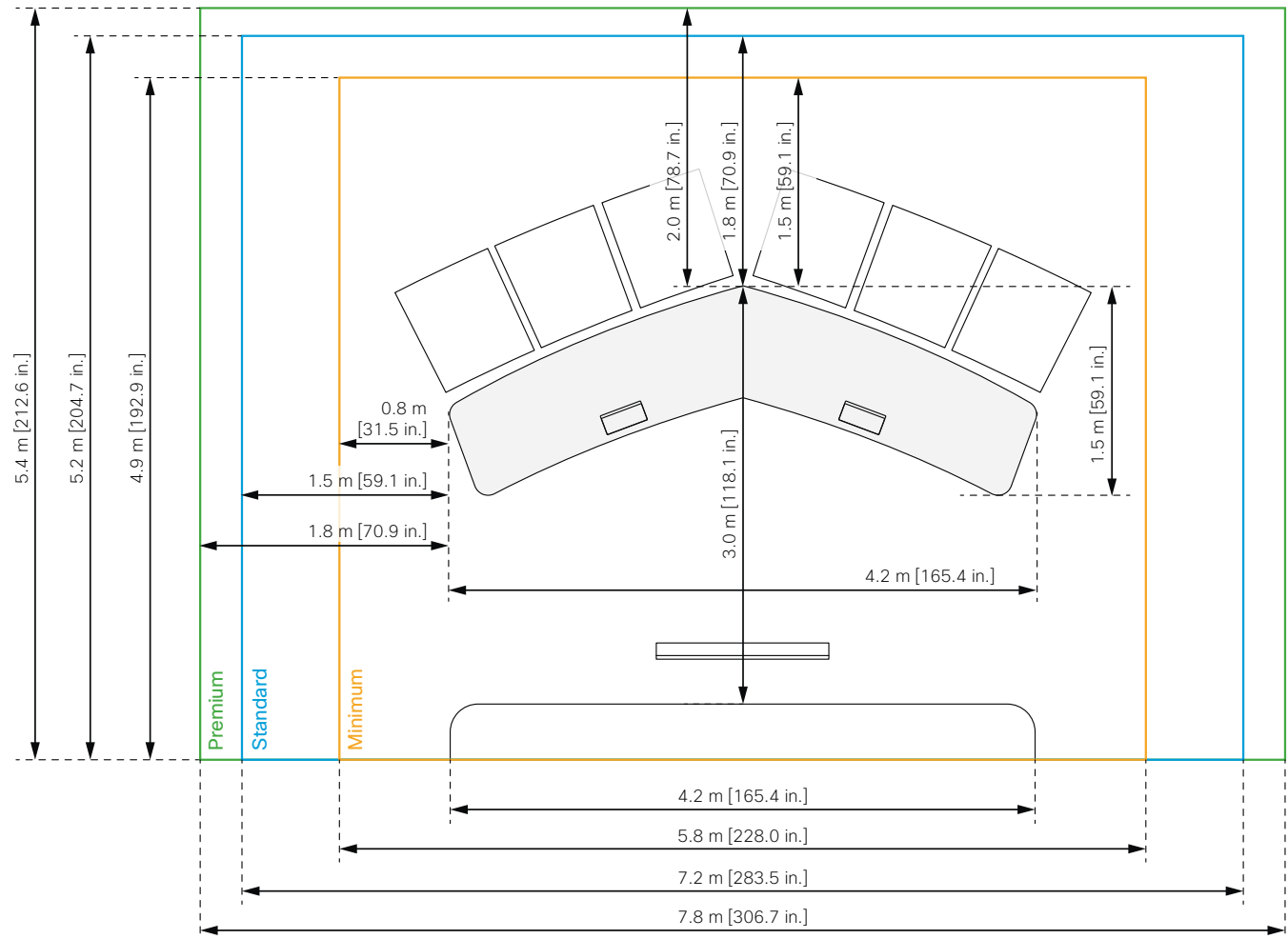
Room dimensions for Room Panorama with a small classic table

Number of persons:

- 6 seats → 75 cm [29.5 in.] per seat
- Note that 75 cm [29.5 in.] per seat requires the use of the entire table width. Work with the table supplier to ensure that the table legs do not prevent comfortable seating.

Minimum room height:

- 2.35 m [92.5 in.]



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Set-up examples (page 5 of 5)

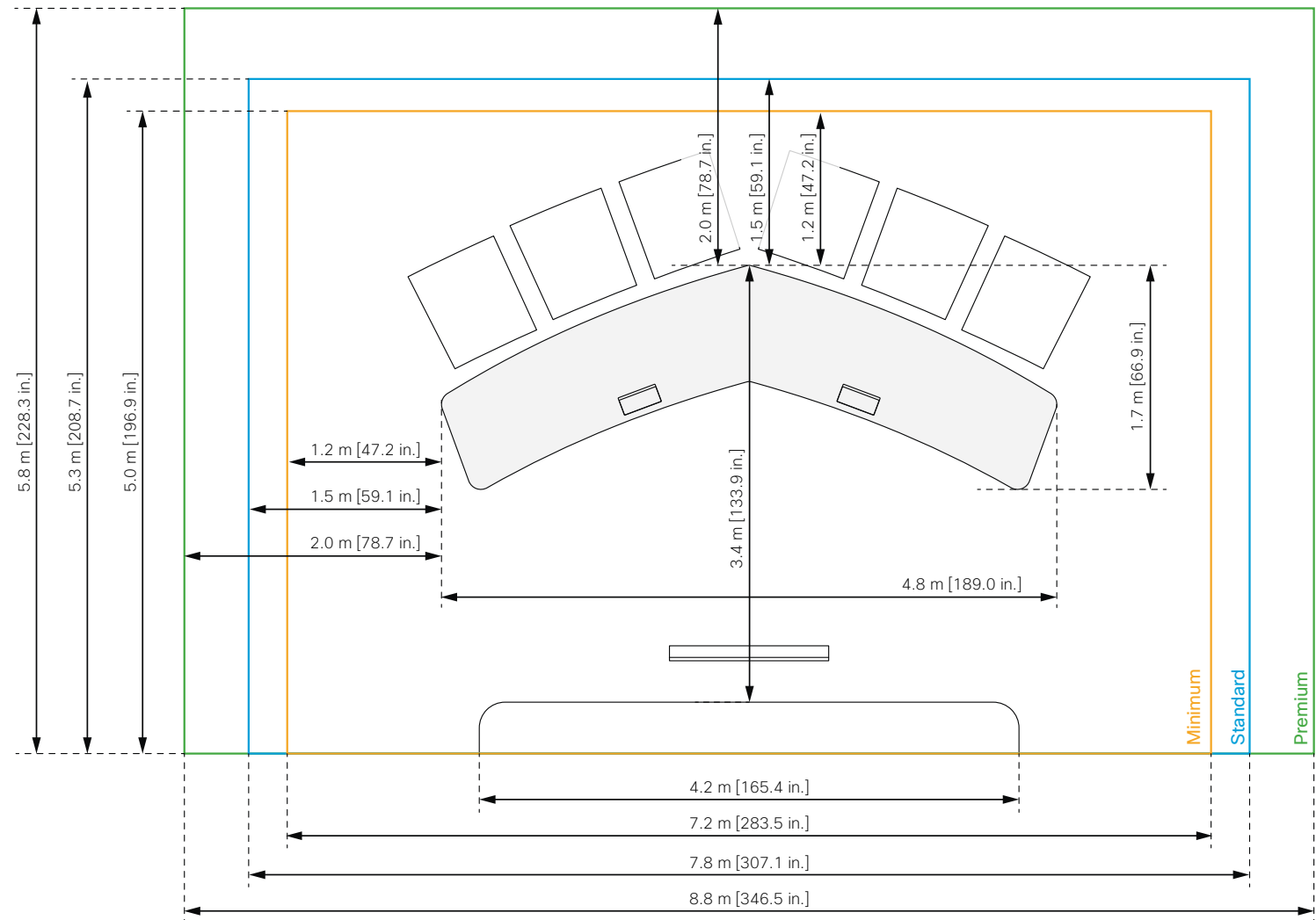
Room dimensions for Room Panorama with a large classic table

Number of persons:

- 6 seats → 80 cm [31.5 in.] per seat

Minimum room height:

- 2.35 m [92.5 in.]



Important! You must work with a Cisco certified AV integrator. It is the responsibility of the AV integrator to provide the technical solution for the content screens. The AV integrator is responsible for everything that is connected to the HDMI 3 output on the codec.

Requirements

Your AV integrator is responsible for the full installation of the Room Panorama system. This includes both the technical solution and the complete user experience.

The AV integrator must provide all the equipment that are required to mount and integrate content screens with your Room Panorama system. It may include signal splitters and a controller, as well as other customizations required to provide an excellent user experience in your room.

Content screens

- We recommend the Cisco Webex Certified screens. See <http://cs.co/certifiedvendors>
- Content screens should support 4Kp30 resolution.
- You can have one or more content screens. The AV integrator must also provide a suitable mounting solution.
- The AV integrator is responsible for checking that the screens are compatible with Room Panorama.
- The AV integrator must make sure that the content screens integrate well with the codec, e.g. allowing state monitoring and automatic screen control.

More than one content screen

- The Room Panorama codec has only one HDMI output that is available for content screens (HDMI 3). Therefore you need a way to split the output signal from the codec, e.g. an HDMI splitter, if your setup has more than one content screen.
- You may also need a controller to ensure that the content screens and the Room Panorama codec work well together. It is the AV integrator's responsibility to find a solution that works for your set-up.

HDMI cables

- The Room Panorama low ceiling option ships with one HDMI cable for the content screen. The cable is 8m (351 in.).
- The AV integrator must provide more HDMI cables if the content screen set-up requires that.
- The HDMI cables must support 4K resolution (HDMI 1.4b or 2.0).

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Preparing the wall (page 1 of 4)

Due to the size and mass of the Room Panorama system, it must be installed by qualified personnel. The installer must determine whether the wall must be reinforced prior to the installation and calculate the number and type of screws required for a safe installation.

The product is fastened to the wall through three horizontal rails. The rails must be fastened so that they can safely support the product. In total, the product weighs close to 575 kg (1270 lb). When installed correctly, the system rests on the floor.

No obstructions



Once installed, the system covers the shaded area. There should be no obstacles in this area, not even baseboards / skirting boards.



The system will be fastened to the wall with screws in the areas marked with solid red color.

See more details on the next pages.

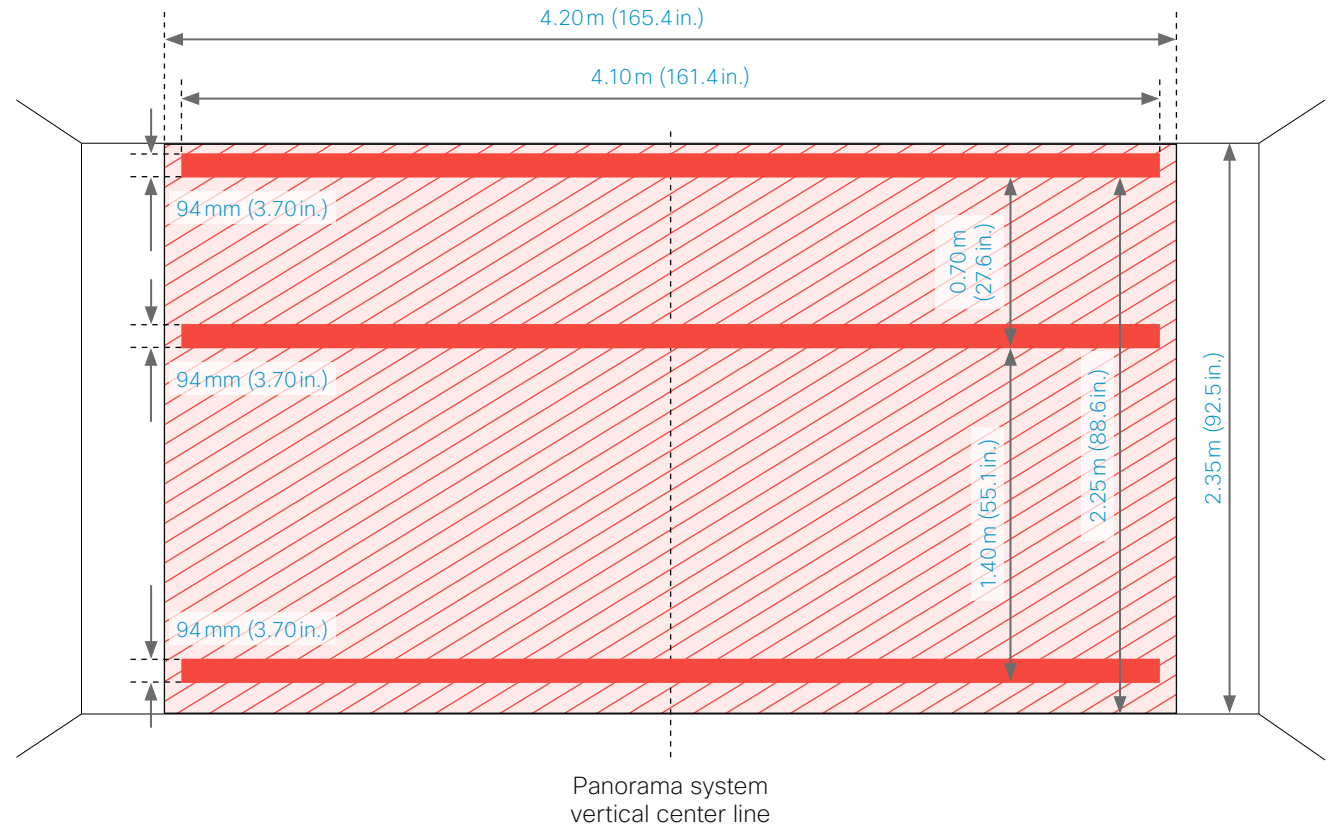
Perfectly flat wall and floor

The rails must be level. If the wall is not perfectly flat, horizontally and vertically, this must be compensated for before you mount the rails.

The system has adjustable feet, which can compensate for the floor not being perfectly flat.

Socket outlets

You must install socket outlets for power and Ethernet in the shaded area. Their exact position is shown in the "Power and Ethernet" chapter.



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Preparing the wall (page 2 of 4)

Horizontal rails

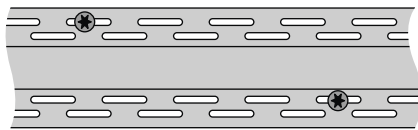
Each rail is composed of three parts. All parts must be fastened securely to the wall. The number of screws depends on the type of wall.

Typical example for plaster wall:

- Upper rail: 4 + 8 + 4 screws
- Center rail: 4 + 8 + 4 screws
- Lower rail: 2 + 3 + 2 screws

You can use any of the horizontal slots.

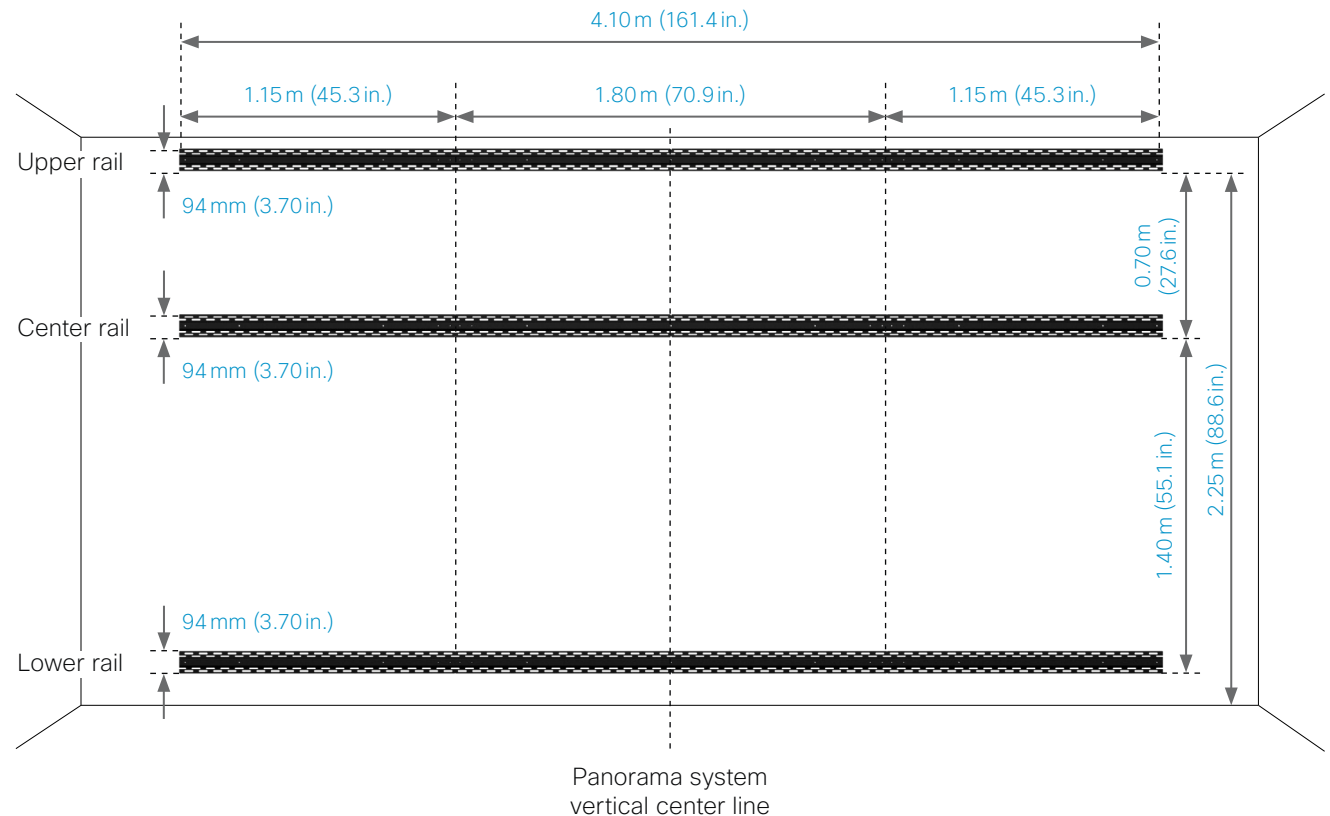
It is important that the rails are level. If the wall is not perfectly flat, horizontally and vertically, this must be compensated for before you mount the horizontal rails.



Front view of rail, fastened with screws



Side view of rail, fastened with screws

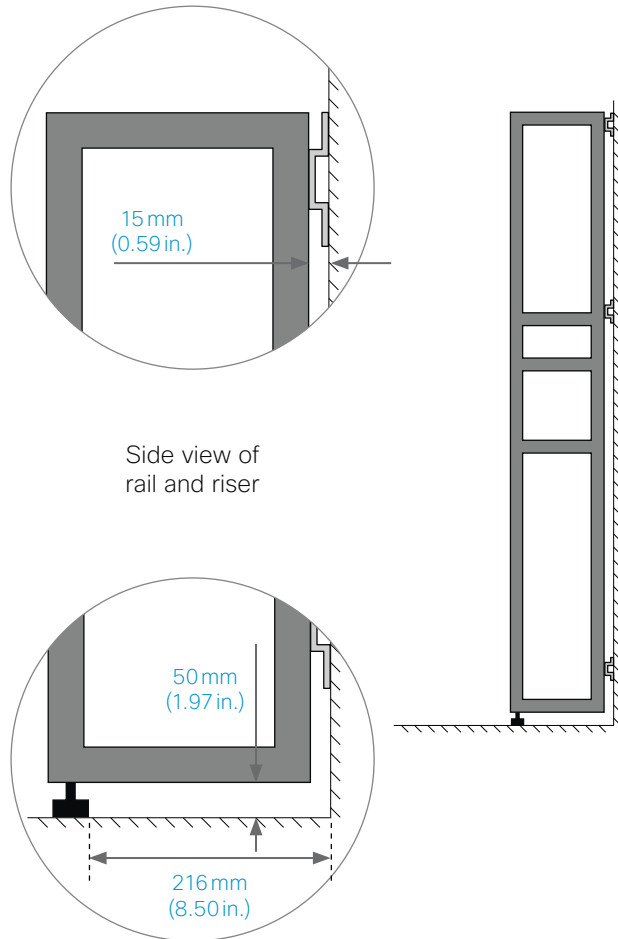


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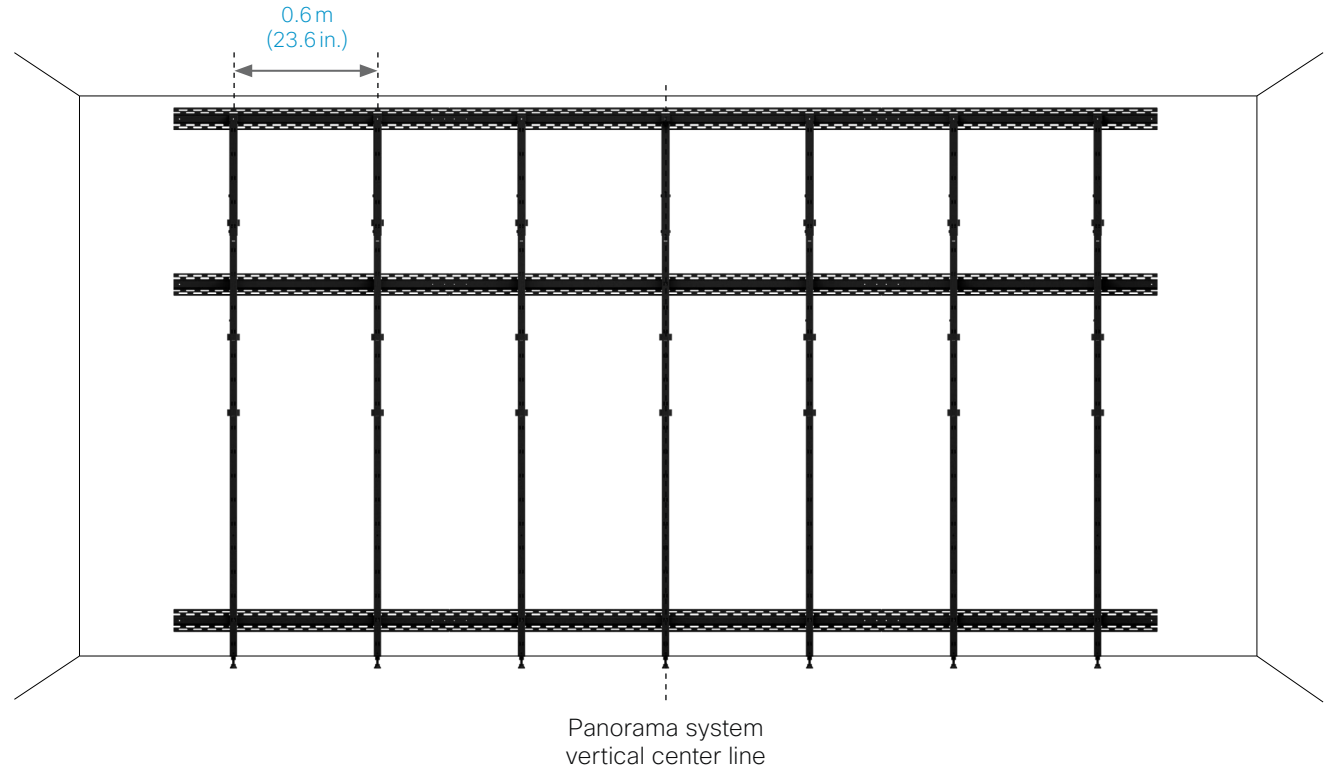
Preparing the wall (page 3 of 4)

Vertical risers

Seven risers hang on the rails. Their foot should be adjusted so that they rest on the floor.



Side view of rail and riser



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Preparing the wall (page 4 of 4)

Wall panels

We offer cosmetic wall panels as an option when you buy Room Panorama. Alternatively, you can design and build your own custom wall.

Cosmetic wall panels

The cosmetic panels curve toward the wall on each side. They are adjacent to the wall all the way from bottom to top. See illustration.

You can choose between two types of finish:

- Wooden panels (light oak)
- Ready-to-paint panels

Read more about the cosmetic wall panels in the *Room Preparation Guidelines*.

Custom wall

The custom wall must be designed to level at the same depth as the cosmetic wall offered by us. If not, the screen brackets and the hinge mechanism to access the components behind the screens will not work as they should.

Read more about the requirements for a custom wall in the *Room Preparation Guidelines*.



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Power and Ethernet

Power

Wall socket outlets must be installed by a qualified electrician. Room Panorama consists of separately approved components. This requires each component to be connected directly to a wall socket outlet. You are not allowed to use a power strip (multi-socket extension cord).

Number of outlets

In total you need 6 power outlets on the wall. For flexibility and the possibility to distribute the load, we recommend at least 4 socket outlets on each side. In addition, you need one outlet on or close to the table. The equipment must be grounded.

Outlets for the content screen(s) are *not* included in the numbers and specification above.

Amount of power

The total amount of electrical power needed is (temporary figures; subject to change):

- 100V, 60Hz: 16 A / 1600W *
- 240V, 50Hz: 7 A / 1600W *

* These numbers include the 65" content screen that is used in a standard Room Panorama system.

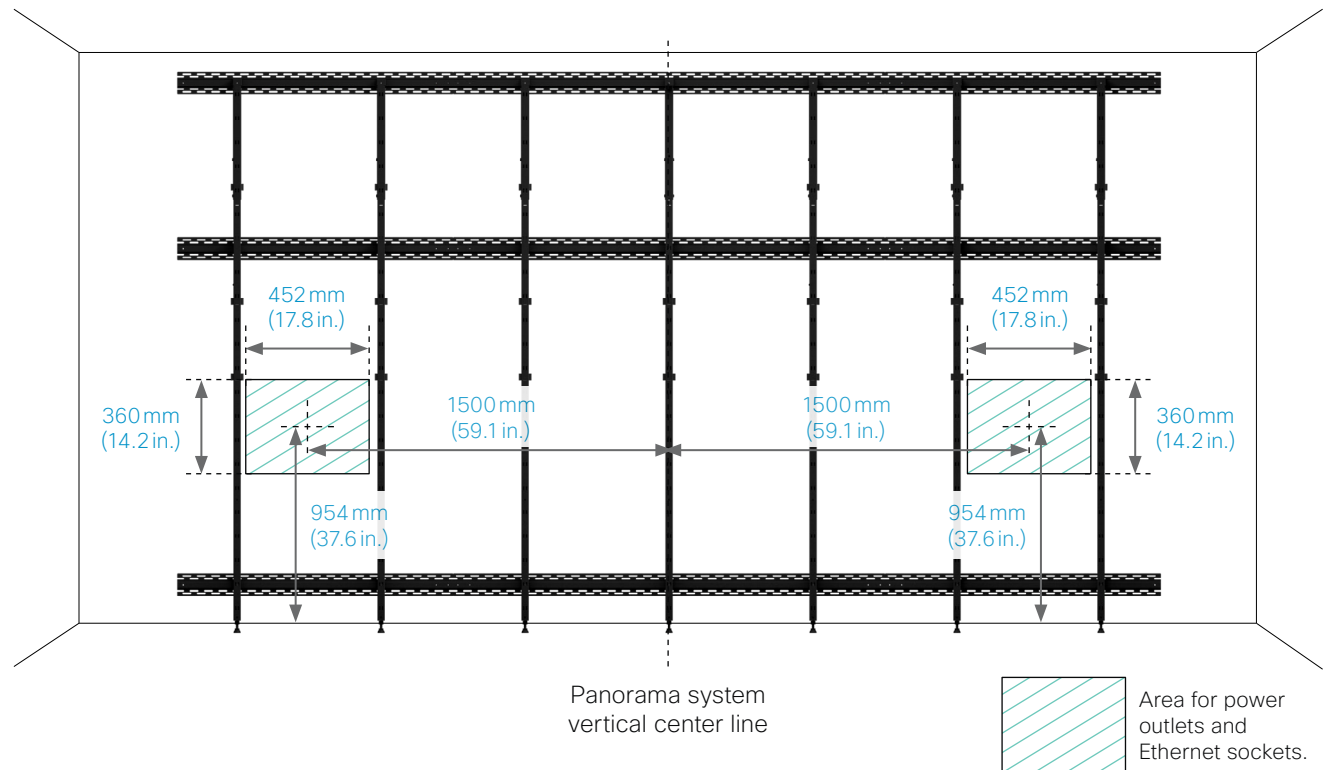
LAN/Ethernet

You only need one Ethernet socket on the wall. For flexibility, you may want to have Ethernet sockets on both sides.

The Ethernet bandwidth requirement is typically 20Mbps, or higher.

Location of sockets

Sockets for power and LAN/Ethernet must be placed within the two shaded boxes, see illustration. These areas are hidden, but easily accessible, when the Panorama system is fully mounted. You just have to pull the main screens down to get access to the sockets.



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