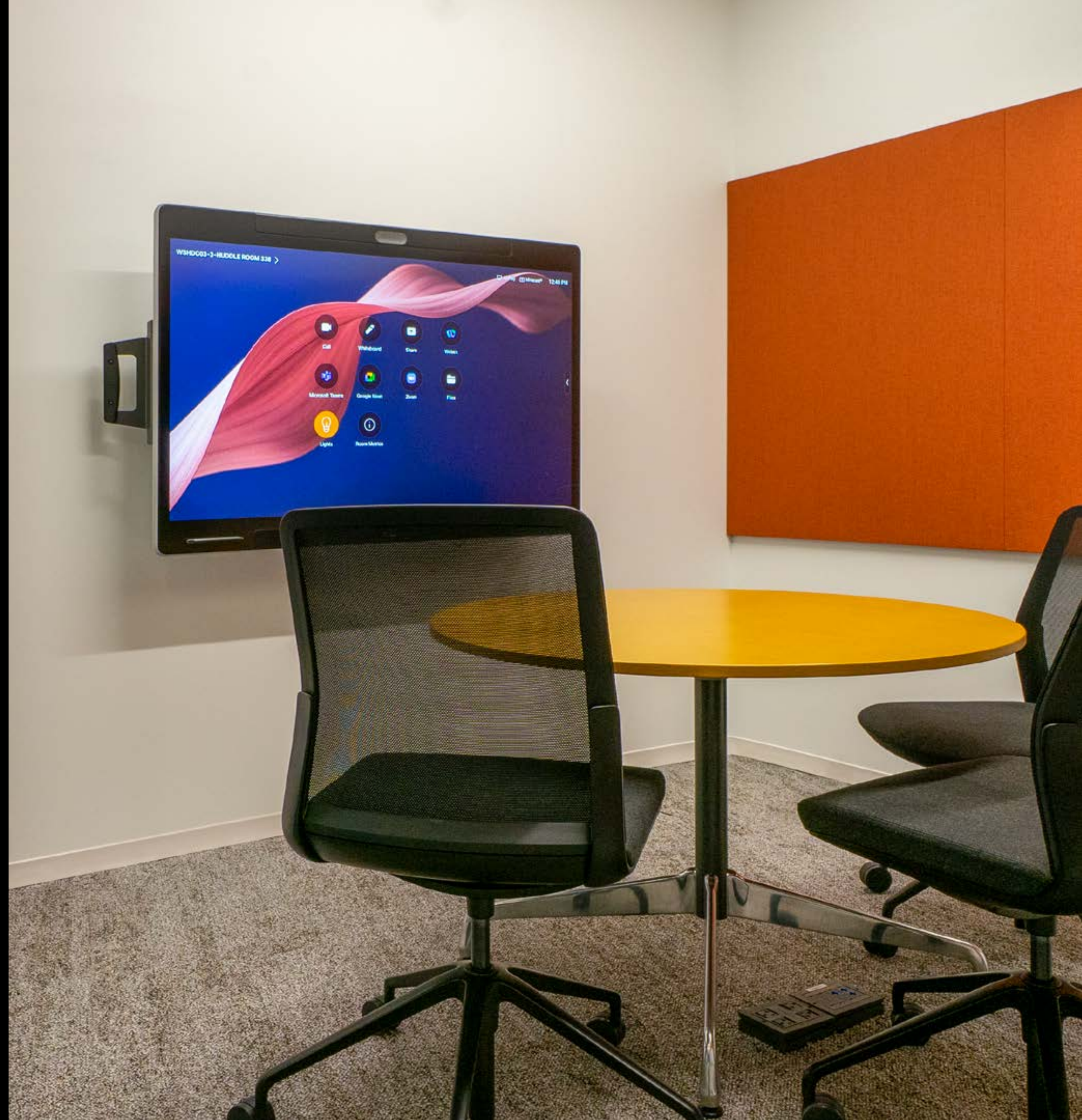




Smart Building Technology  
and Hybrid Work Solutions

# Cisco Talent and Collaboration Centers

Brainstorming Huddle Room Design Guide



# Introduction

## Overview and Intent

This document provides guidance on how to effectively design the Brainstorming Huddle Room.

This design brings space layout, technology, and furnishings together to create an optimal experience for those present locally and for remote attendees.

Each customer project is unique. Thus, it is important to involve local facilities teams, workplace design resources, architects and space designers, IT, and a Cisco-certified integrator. The collective goal is to finalize the details of any design, verify the applicability and address any local concerns – electrical/mechanical, orientation, and location of the room within the floor plan, accessibility, circulation, and external factors such as noise, light, and temperature.

## Room Description

A perfect space for an ad-hoc brainstorming session or when you want to co-create with a colleague on an important project. There are two furniture configurations, using a standard or bar height table, with different mounting options for the Cisco Board Pro 55 G2. Bar height is preferred, as the upright posture encourages people to interact with the technology and discourages employee from “camping.”

### Supported Collaboration Activities

Information Sharing	✓
Brainstorming	✓
Team Building	
Decision Making	✓

## Table of Contents

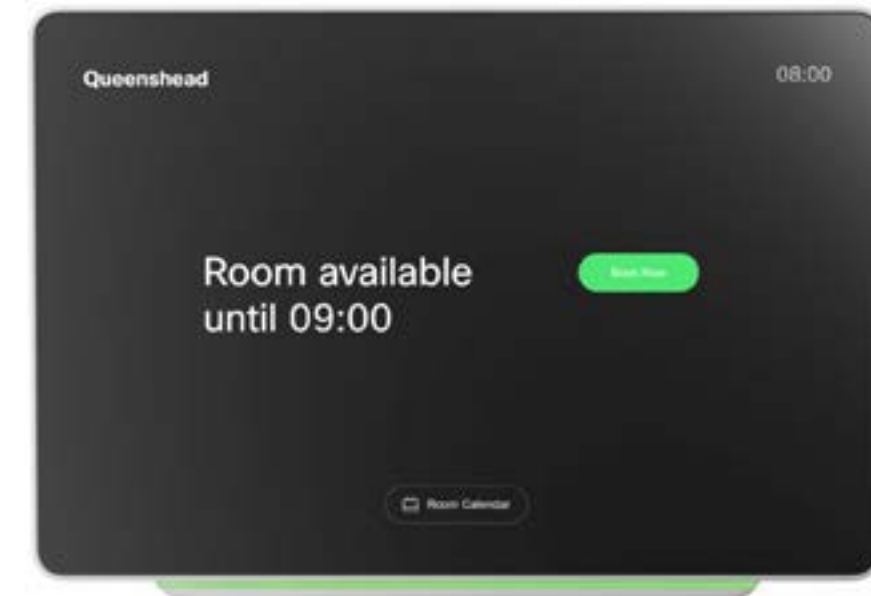
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# Visualization of key Cisco elements

Cisco Board Pro 55 G2  
Adjustable mount recommended



Cisco Room Navigator for Wall



# Video Device Mounting Options

If the wall is blocked, and standard height furniture (28" or ~71cm) is selected, the optimal mounting solution is to use an adjustable height wall mount. This option allows end users to use the device in both a standing and seated position.

If the wall is blocked, and a counter (~36" or ~91cm) or bar height (~42" or ~107cm) table is being used, the Cisco Board Pro 55 G2 is best deployed using the standard wall mount kit from Cisco.

If the wall is not blocked, there are a number of wall stands or low profile (shallow depth) credenzas available that only require wall tethering with anchors. Please note if the credenza option is used, the room may need to be slightly larger. Regardless of the option chosen, please consult the manufacturer for mounting details.



Adjustable Height  
Wall Mount

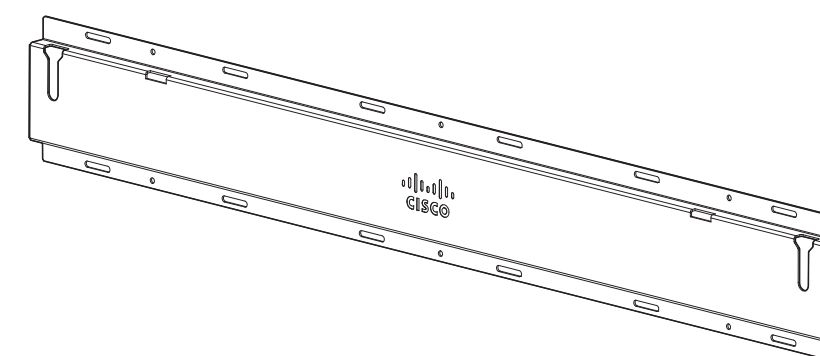


Floor Stand



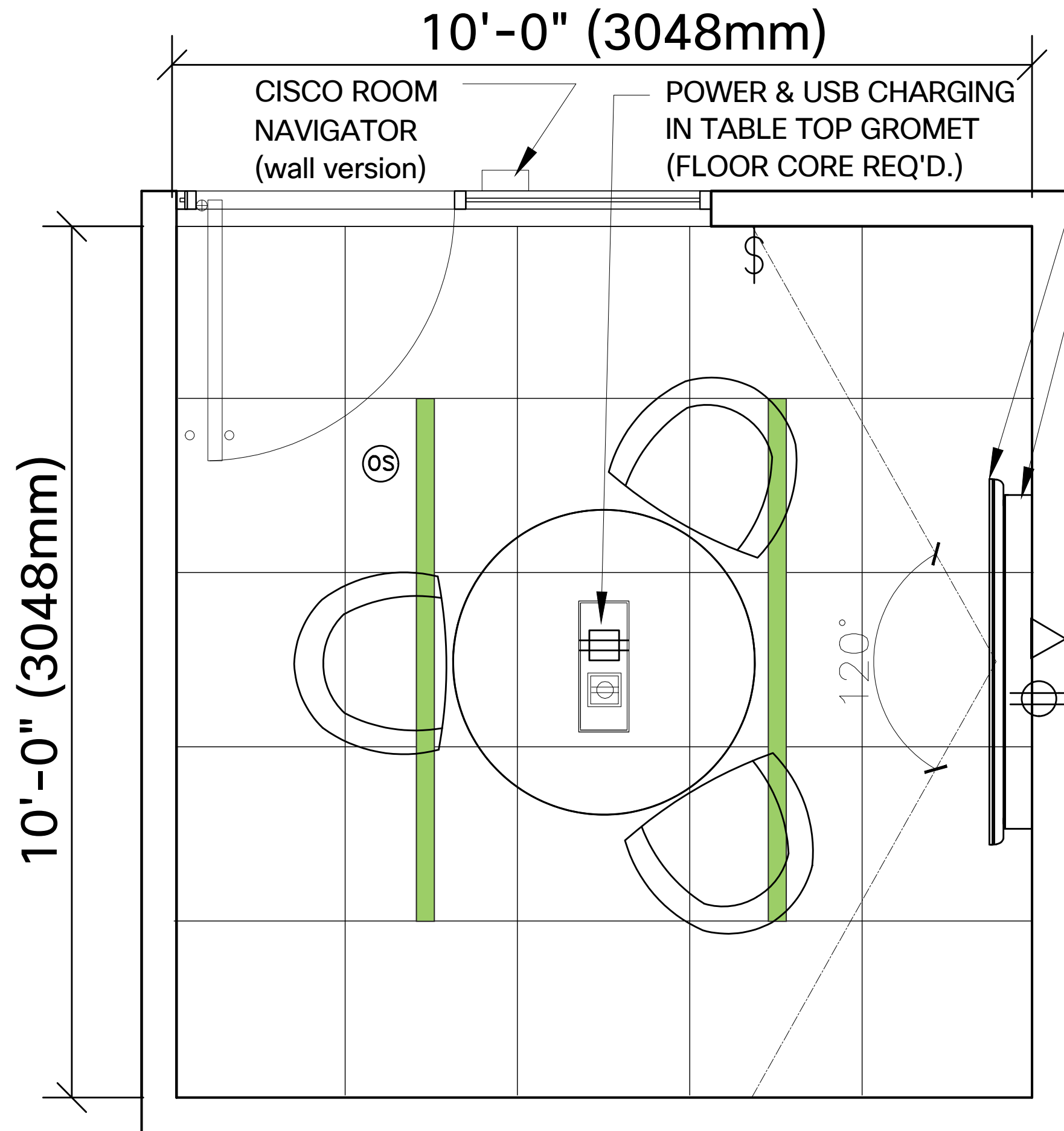
Cisco Board Pro  
Wall Mounting Kit

Board Pro 55  
Wall Mount Bracket



Low-profile  
Credenza

# Composite Plan

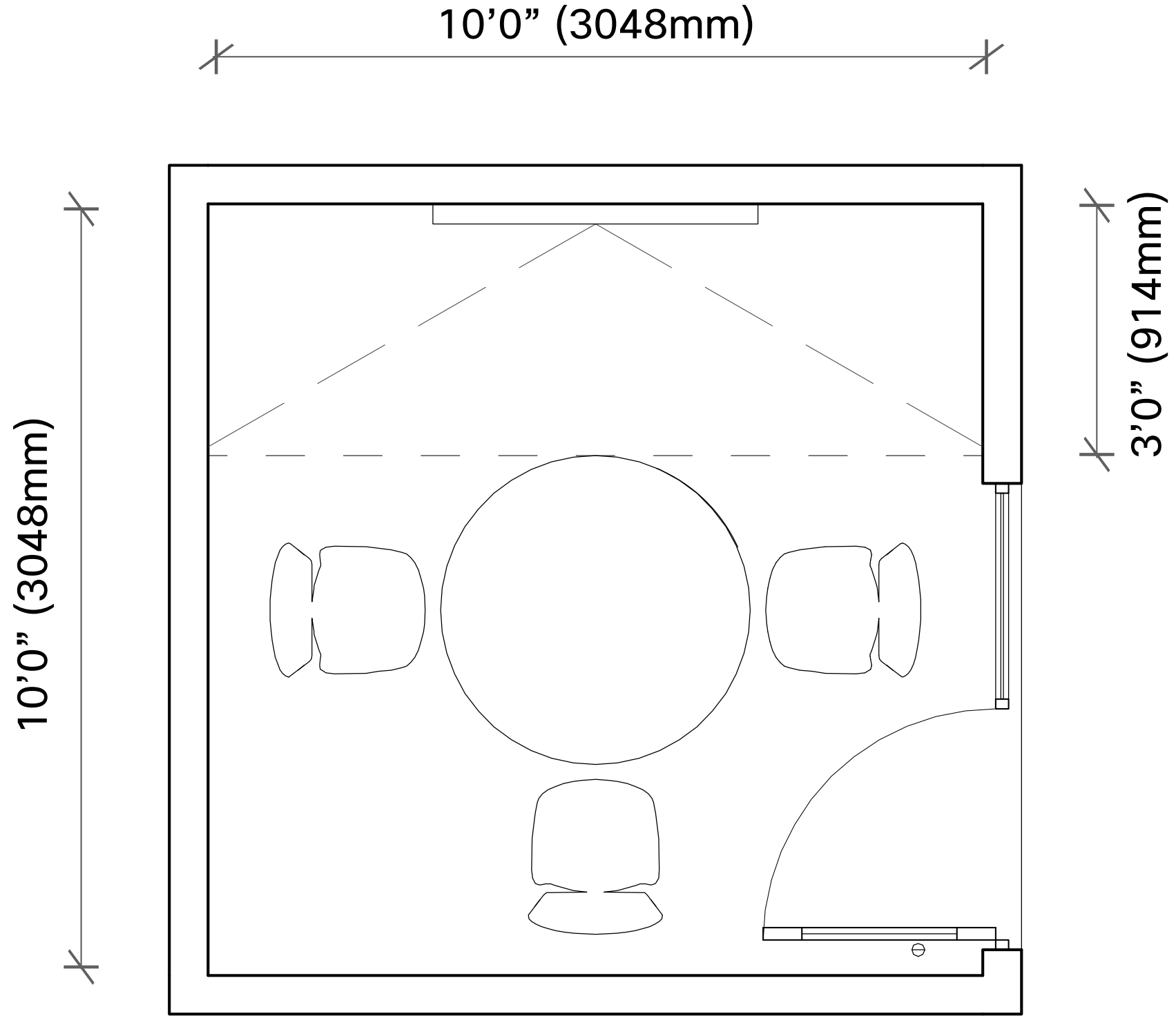
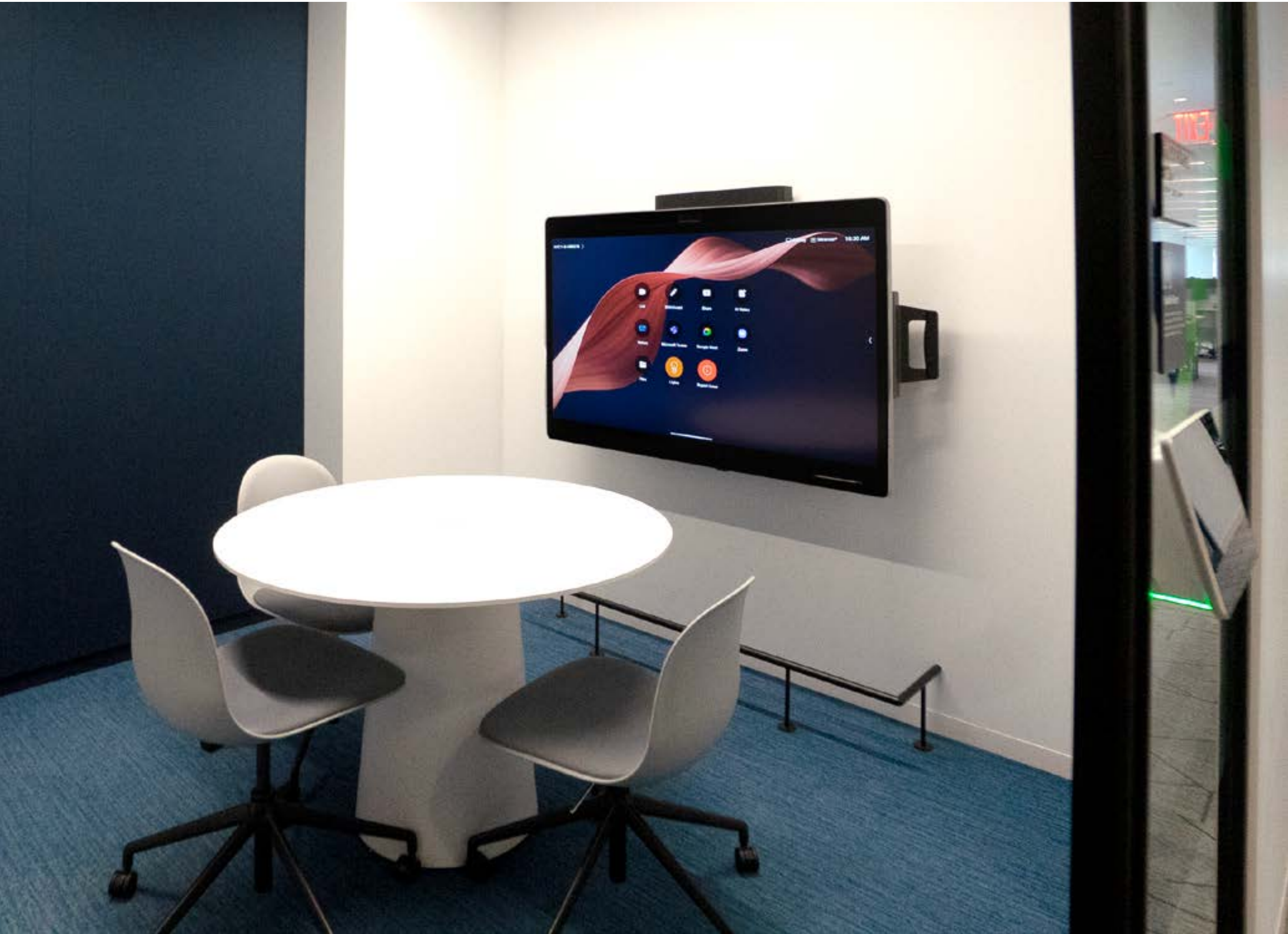


CISCO BOARD PRO 55 PRO G2  
FIXED OR ADJUSTABLE MOUNT  
(DEPENDING ON TABLE HEIGHT)

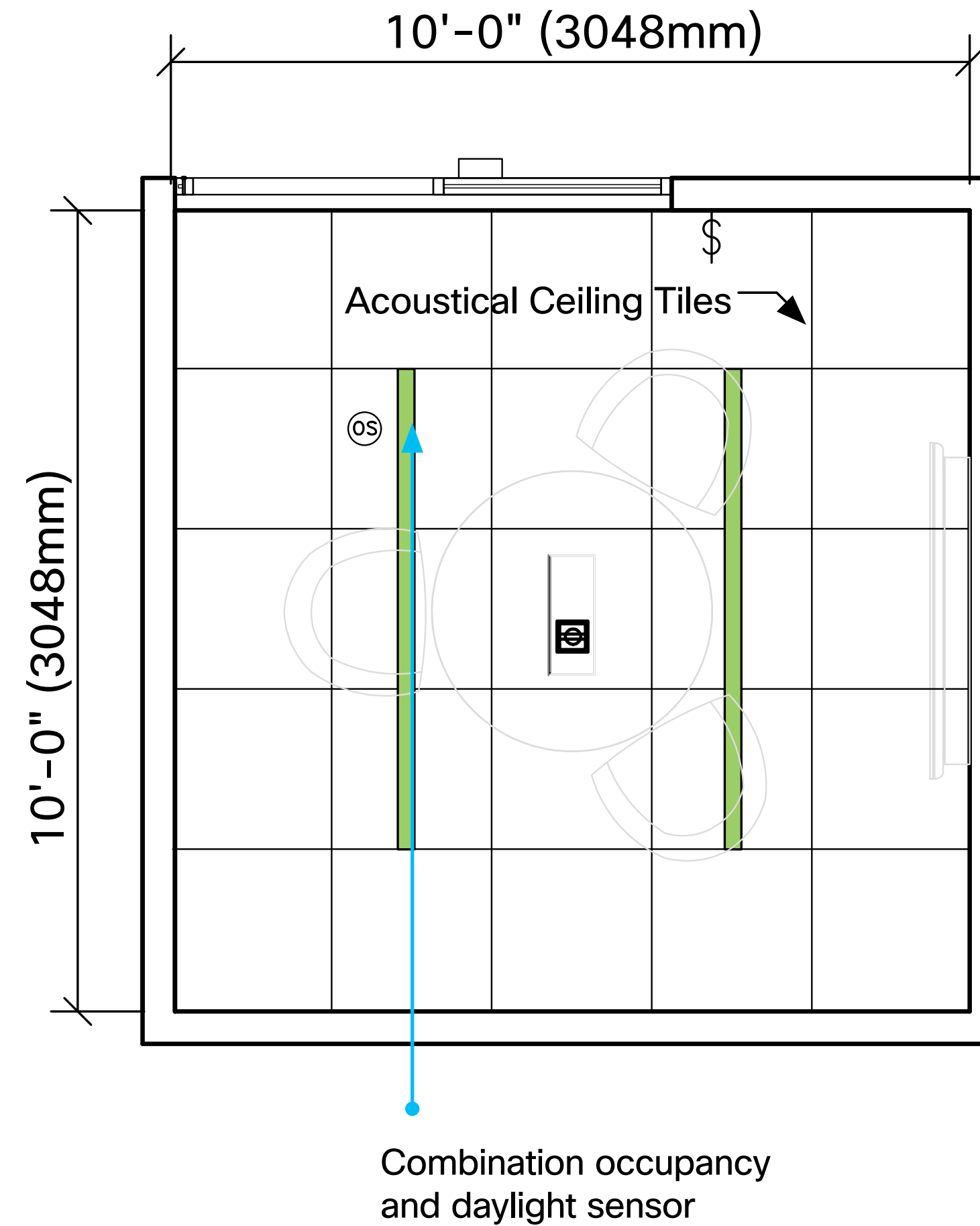
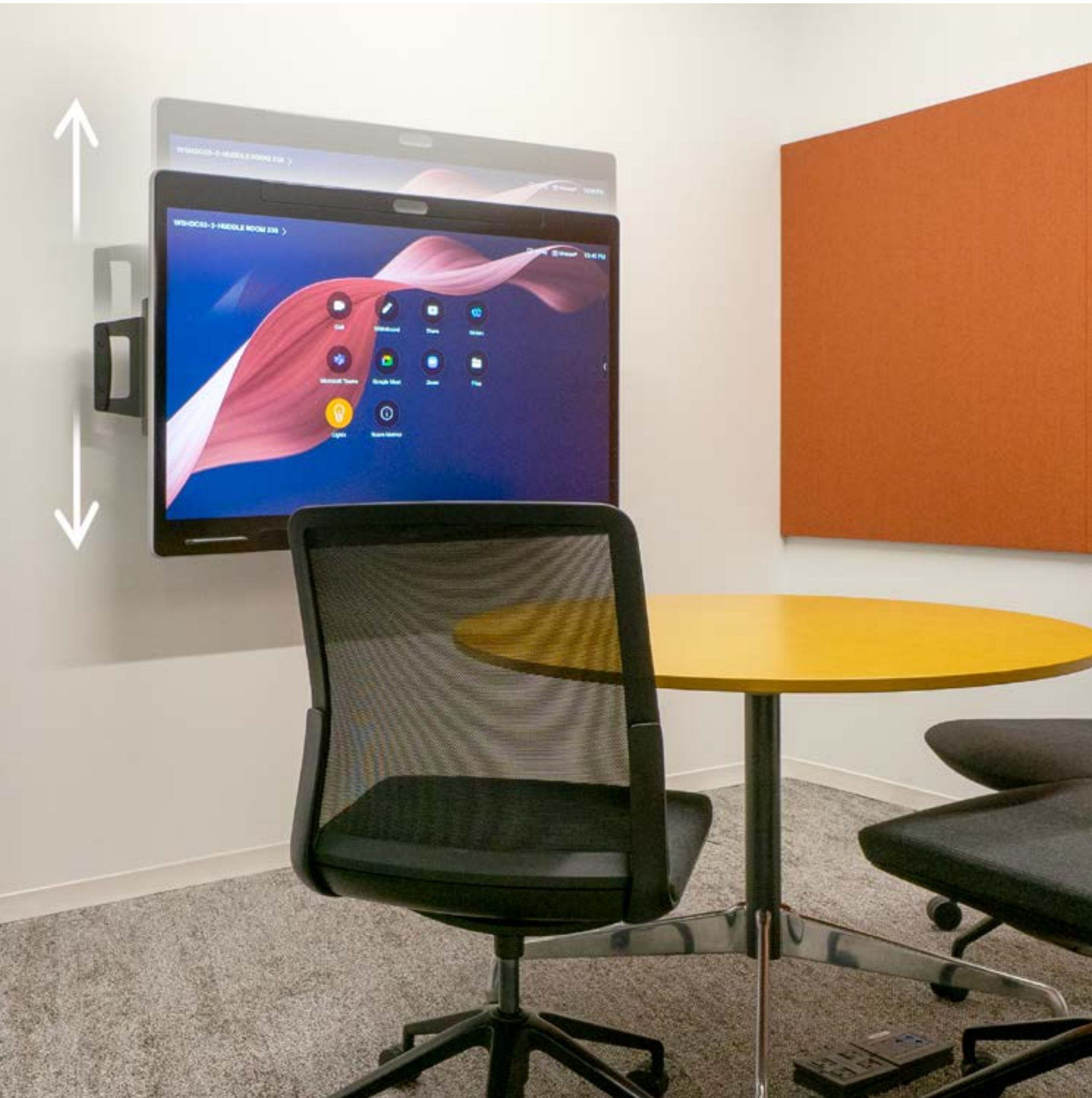
## Graphics Symbols

- ACOUSTICAL CEILING AND GRID
  - LIGHT FIXTURES
    - LIGHT FIXTURE
  - FURNITURE SYSTEMS MOUNTED DEVICES
    - DUPLEX RECEPTACLE
    - DATA RECEPTACLE
  - POWER AND COMMUNICATION
    - WALL MOUNTED DEVICES
      - DUPLEX RECEPTACLE
      - DATA RECEPTACLE
      - LIGHT SWITCH
      - AV RECEPTACLE
    - FLUSH FLOOR MOUNTED DEVICES
      - DUPLEX RECEPTACLE
- NOTE:** PROVIDE SOLID BLOCKING IN WALLS FOR ALL WALL MOUNTED EQUIPMENT & DEVICES

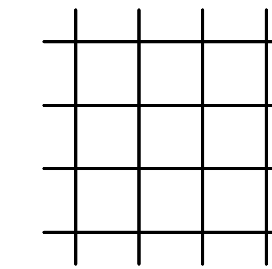
# Room Layout



# Reflective Ceiling Plan



## Graphics Symbols



ACOUSTICAL CEILING AND GRID

### LIGHT FIXTURES



LIGHT FIXTURE

### POWER AND COMMUNICATION

#### CEILING MOUNTED DEVICES



ROOM OCCUPANCY SENSOR

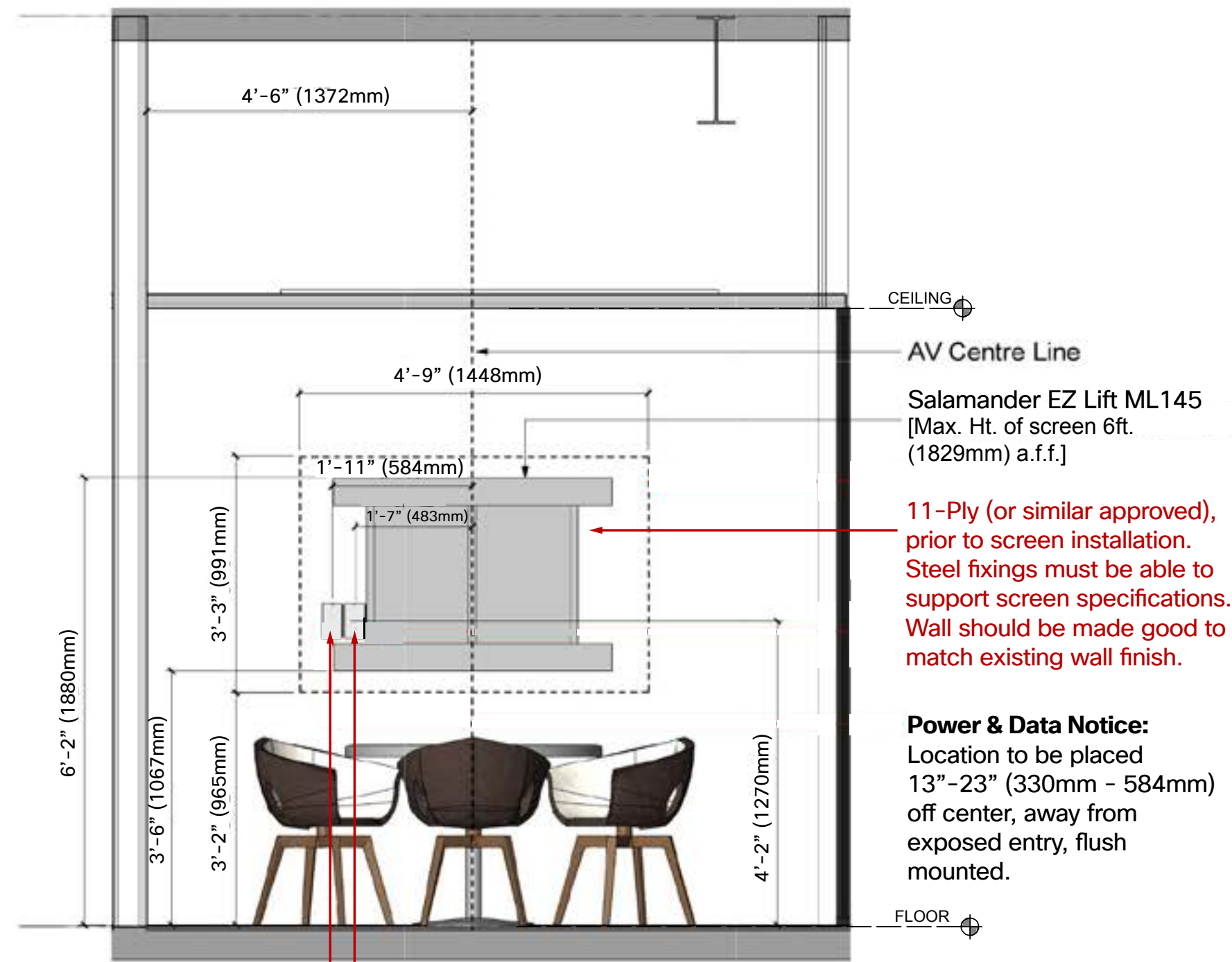
#### WALL MOUNTED DEVICES



LIGHT SWITCH

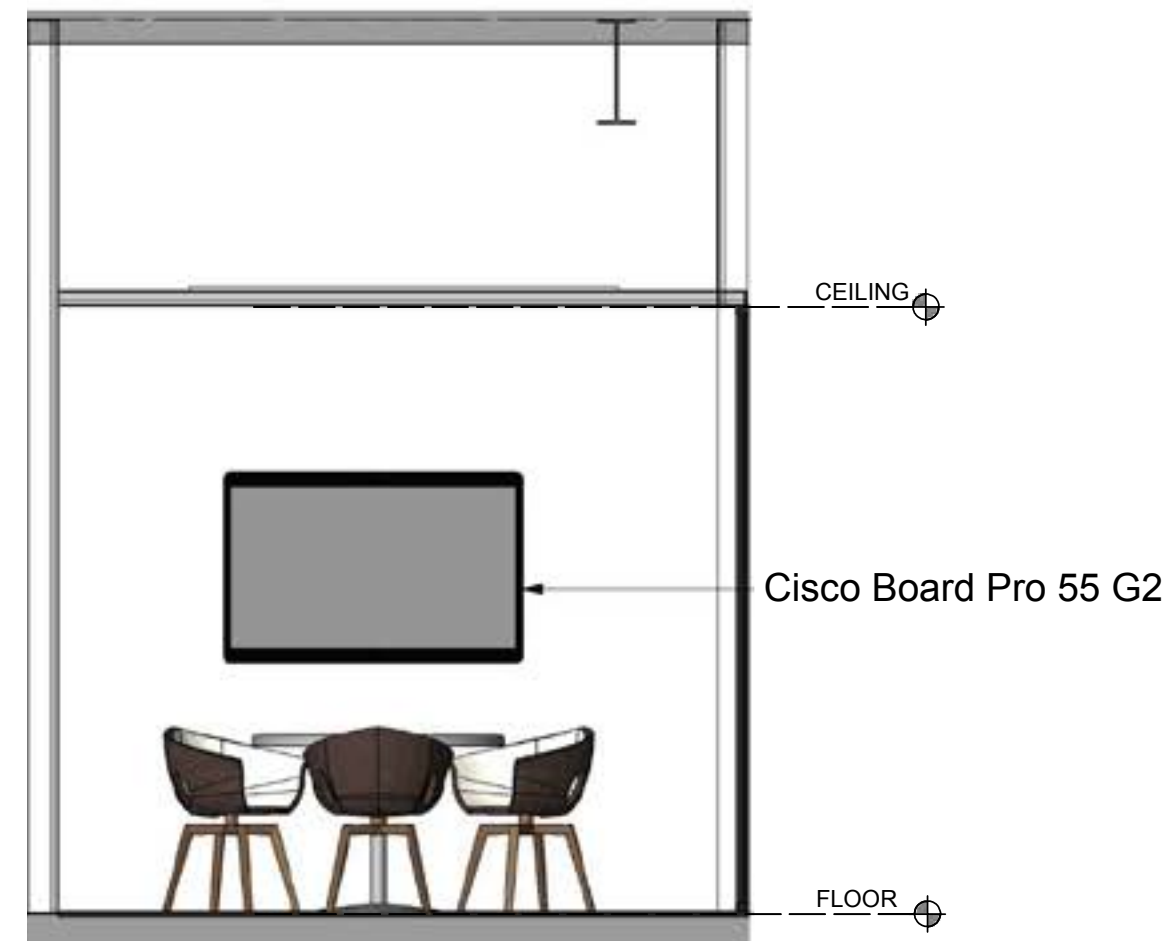
# Room Elevations - Standard Height Furniture Option

## Construction Elevation



1 Gang Power 1 Gang Data  
@ 4'-2" (1270mm) (2 Ports) @ 4'-2" (1270mm)

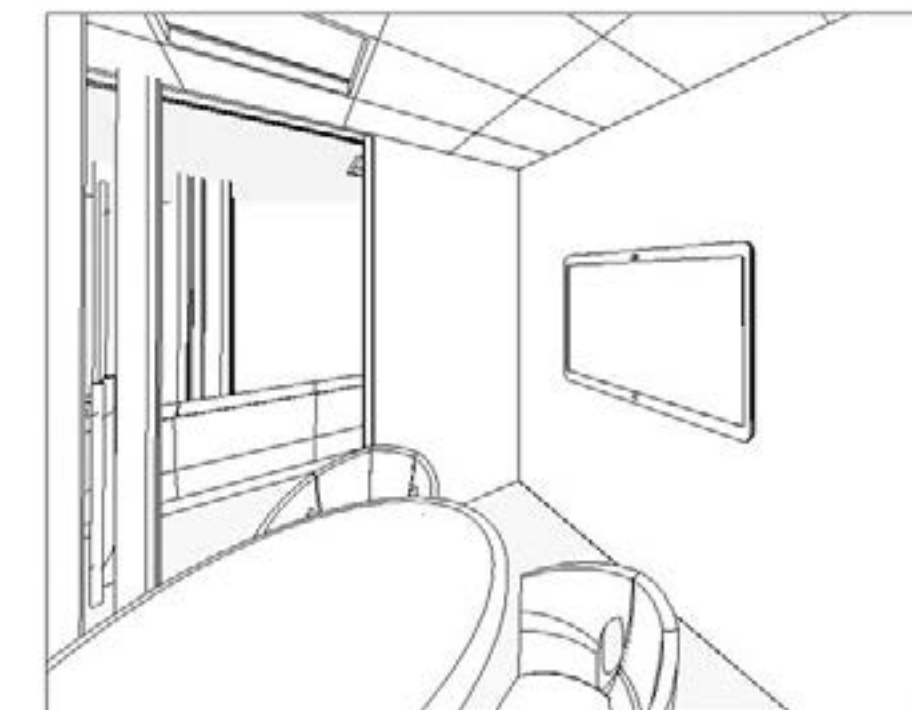
## Front Elevation



## Side Elevation



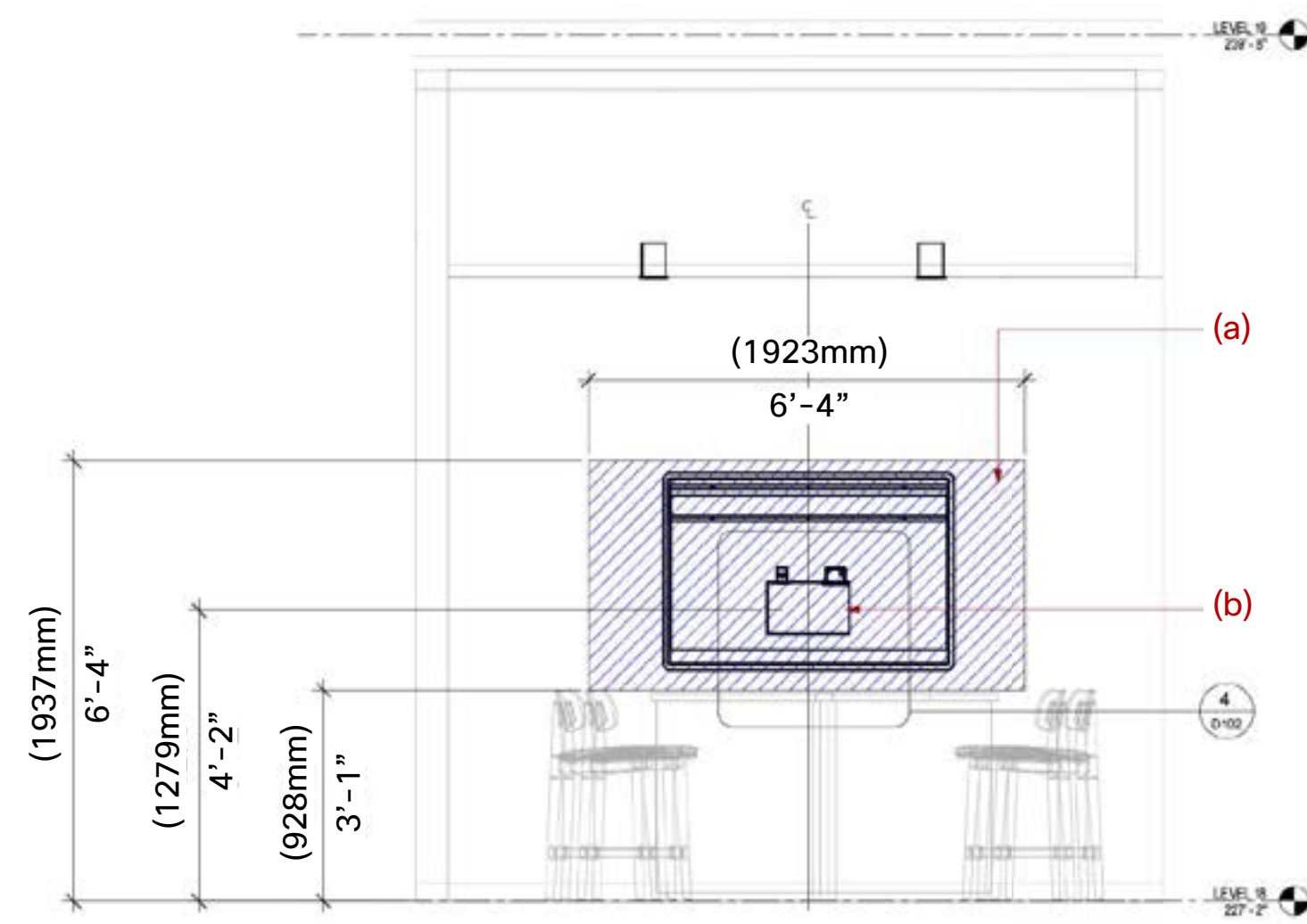
## Perspective View



Note: The exact locations of power and data, as well as the finished elevation, vary by mount type and should be confirmed with the specific manufacturer. Details on this page are based on a Salamander Designs EZ Touch Wall Mount.

# Room Elevations - Bar or Counter Height Furniture Option

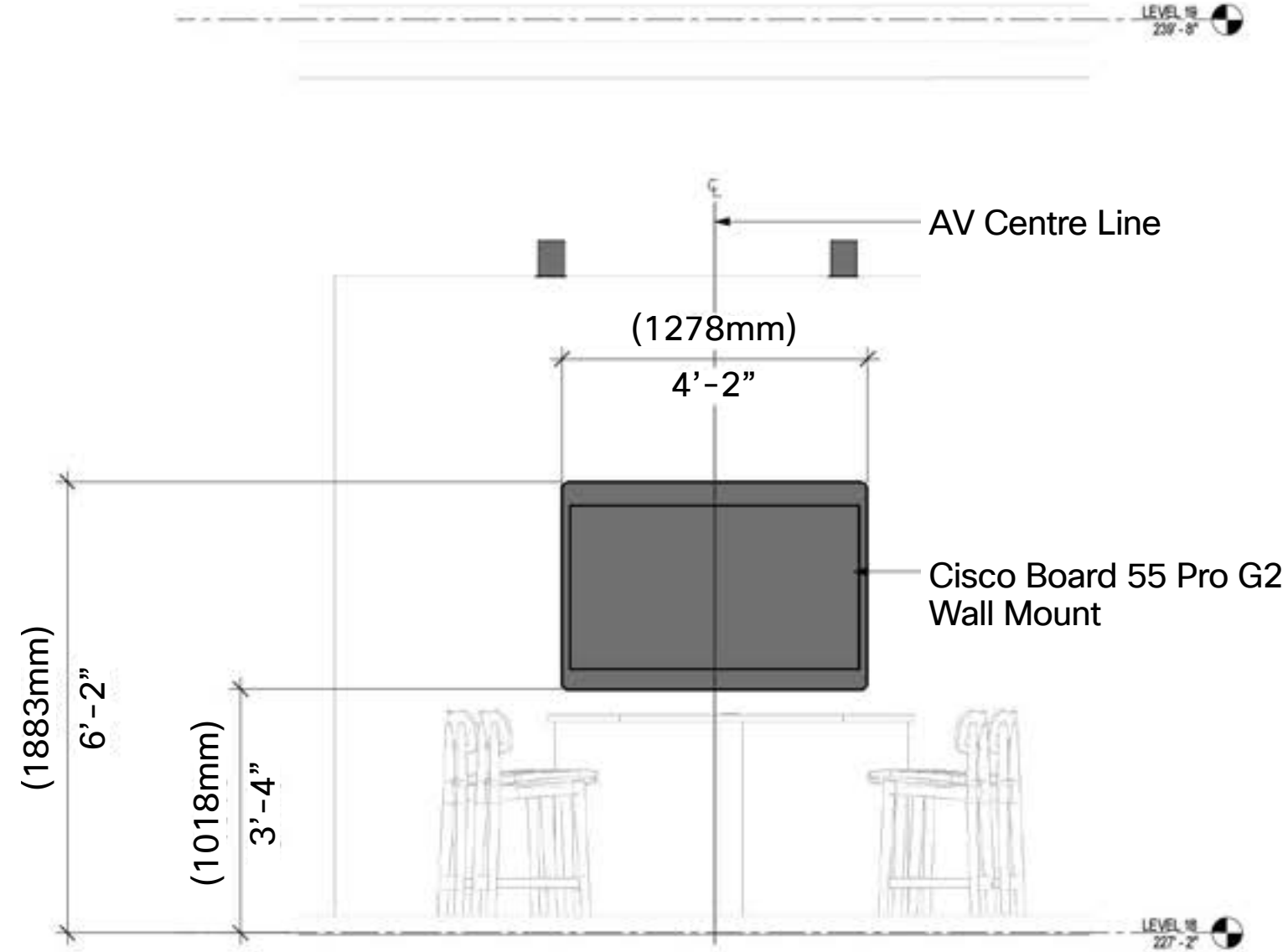
## Construction Elevation



(a) 11-Ply (or similar approved), prior to screen installation. Steel fixings must be able to support screen specifications. Wall should be made good to match existing wall finish.

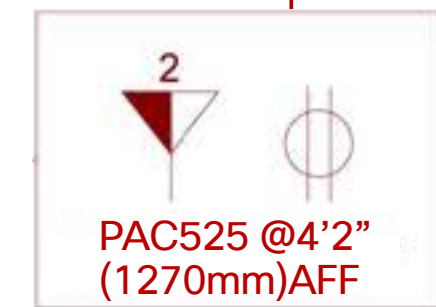
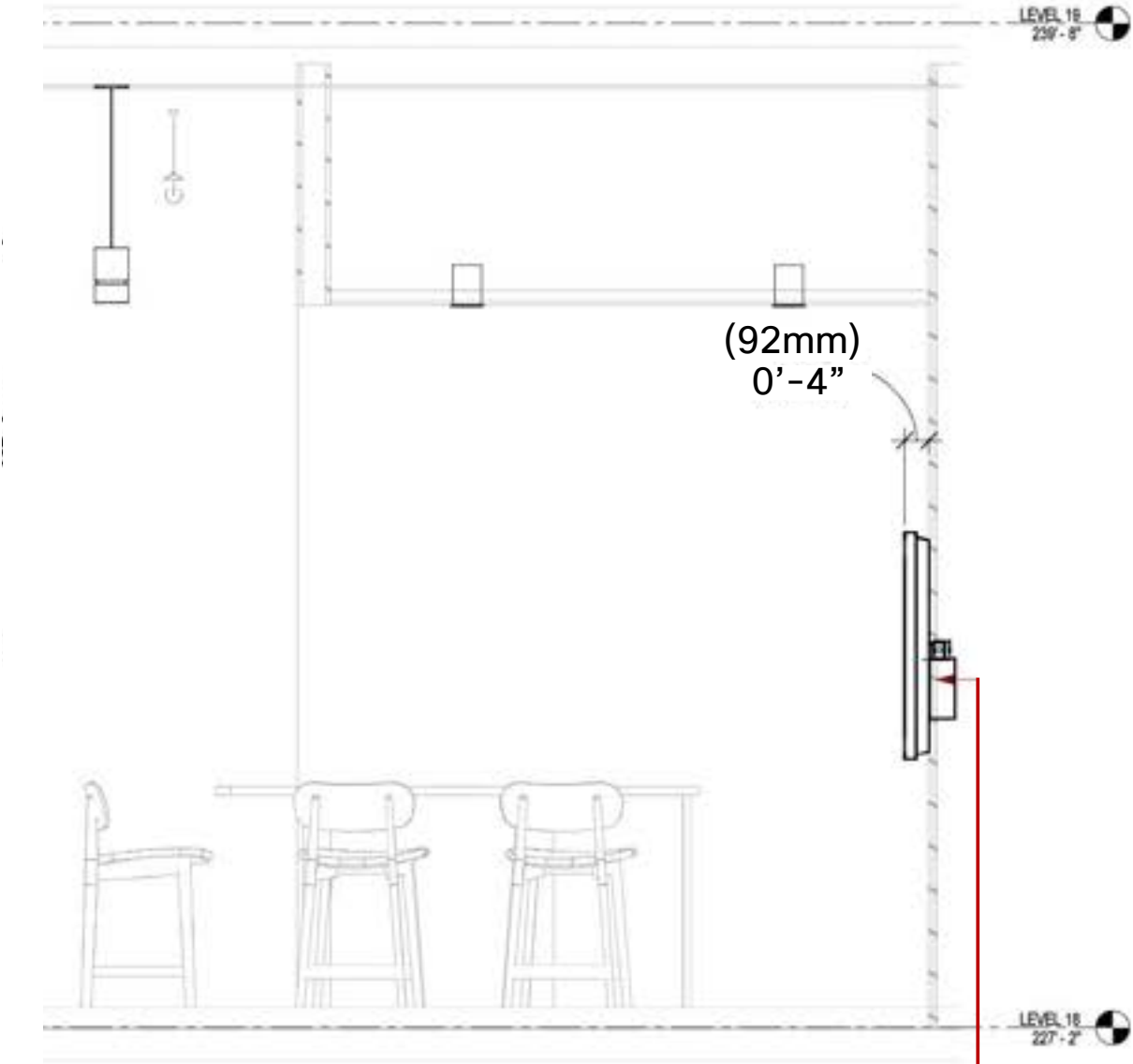
(b) Chief PAC525 installed by others

## Front Elevation

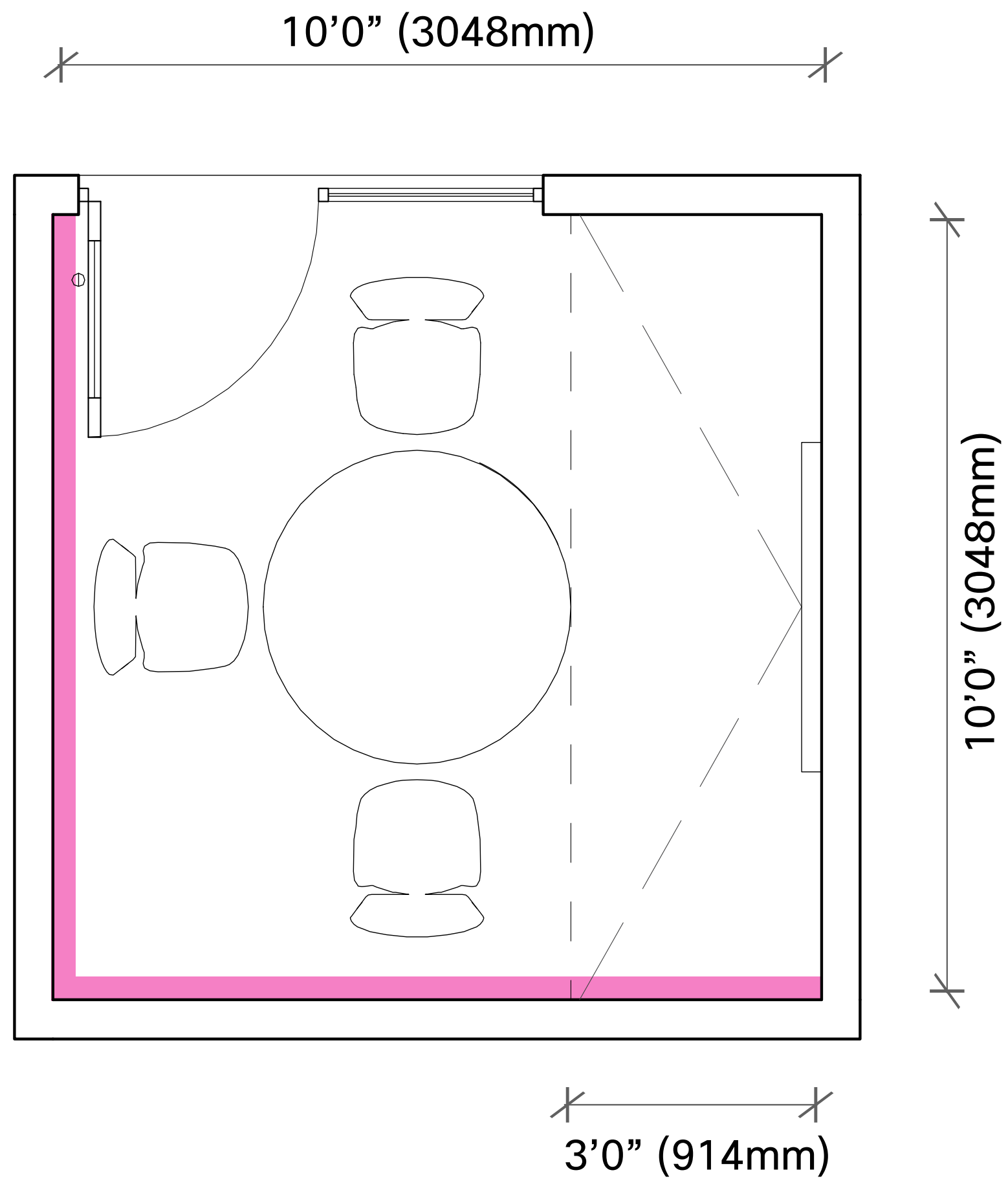


Note: AV Centre Line will be determined by Dimensions on Room Specific Floor Plans

## Side Elevation



# Acoustical Treatment



●  
Installation of an absorptive ceiling, through the use of acoustic ceiling tiles, as well as the addition of acoustical panels to two adjoining walls within the room (preferably opposite the device and away from the entry location) is highly recommended.

The color of that fabric should complement skin tones, orange, yellows, reds and green should not be used. In addition, small patterns and strips should be avoided as they may result in undesirable visual effects, such as moiré patterns.



# Power & Data

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## General Specifications

Power and data requirements need to be verified for each project. Provide video device power and data even if the project plan does not include it on day one. Based on the design of this space, core drills, and floor boxes will not be required.

## Power & Data

Provide one (1) duplex power outlet and one data receptacle with two (2) ethernet ports on the wall behind the video device. If a wall mounting option is used, power and data should be centered and recessed behind the device. If an adjustable lift is used, power and data will be flush mounted and off-center (away from any doors or sidelights so it is not visible), per the manufacturer's requirements. Power and data can be standard height per local code when using the credenza option. The specific location should be confirmed with the manufacturer.

# Exploded IT Diagram



## Cisco Room Navigator for Wall

It is recommended to run the cable inside the wall or through the door frame directly back to a network switch.

## Table Top Charging

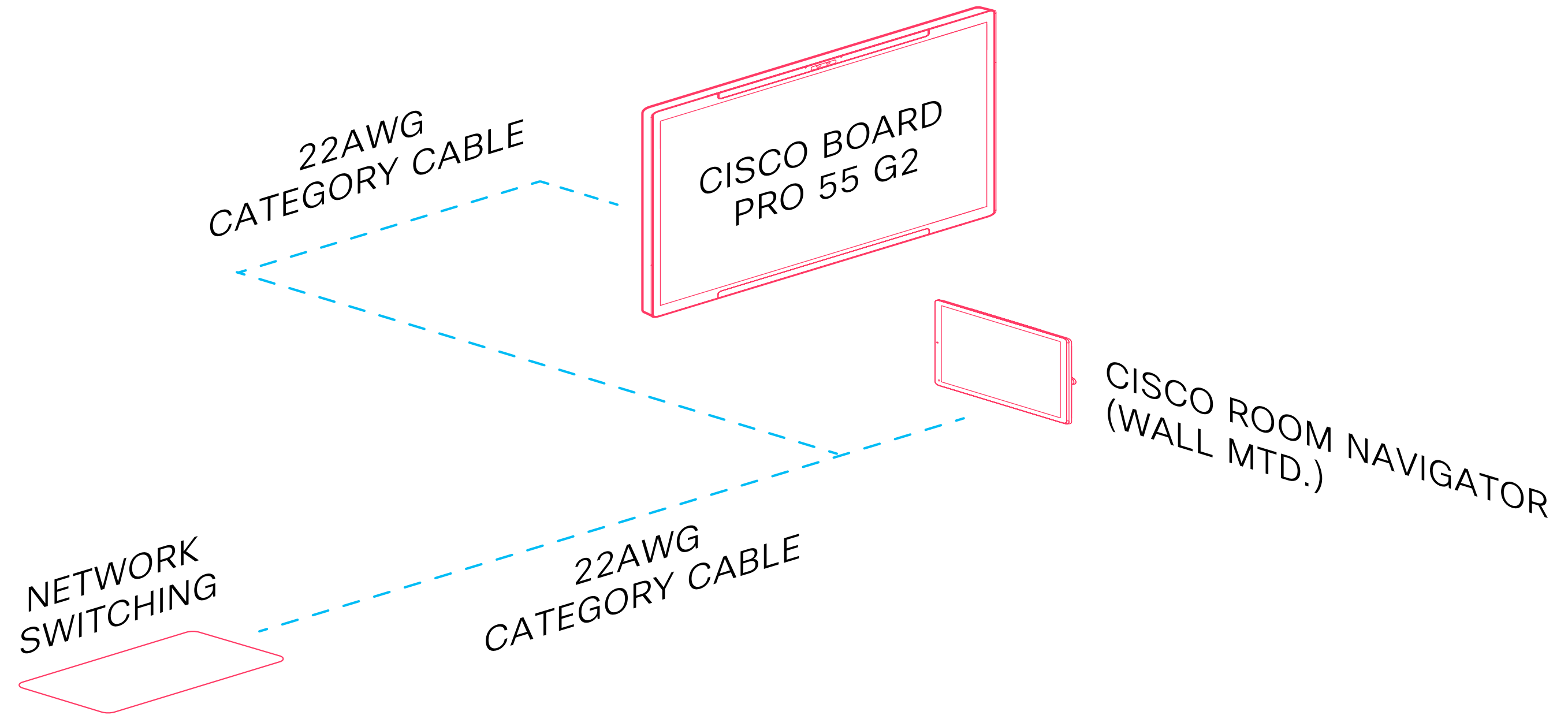
USB-C charging and convenience outlets on table top. Ensure the size of the trough and layout can accommodate a variety of laptop power supplies.

## Wall Blocking

Required when the device is wall-mounted. The size and composition of blocking materials should be determined based on the overall weight of the solution deployed.

## Core Drilling

Not required unless HDMI/USB-C cables are present for content sharing, and/or if a Cisco Room Navigator for Table is used and directly connected to the Cisco Board Pro 55.



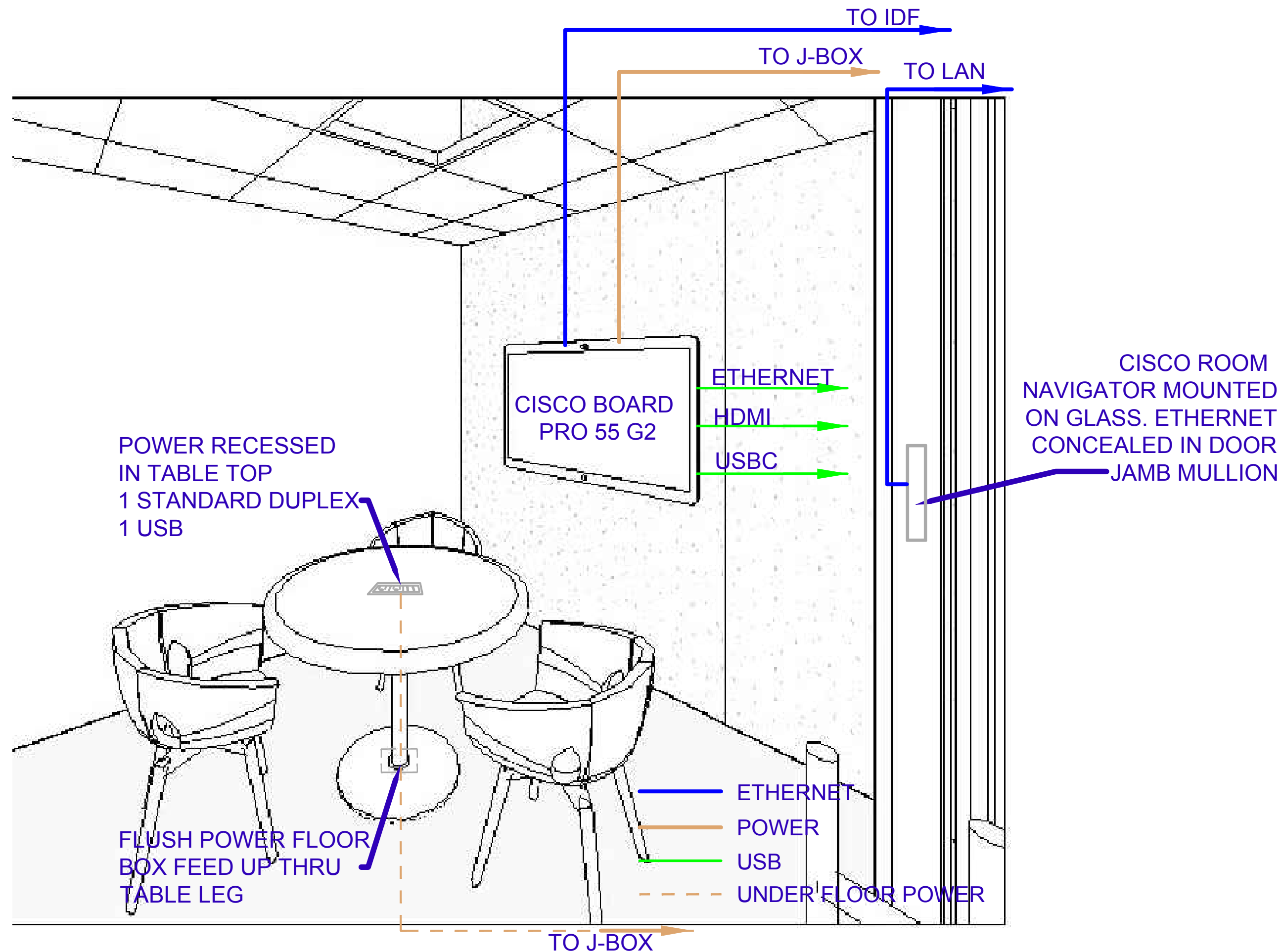
# Connectivity View



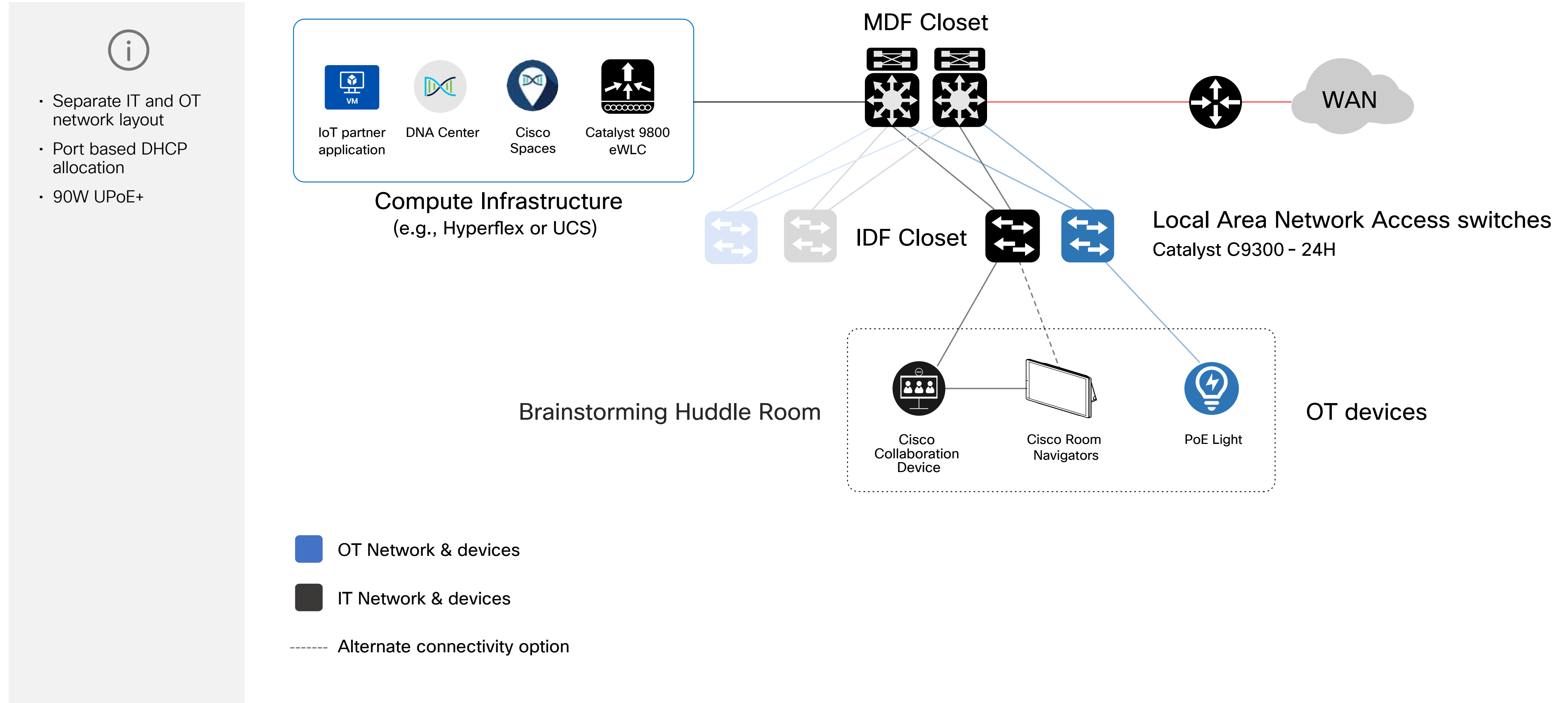
## Cisco Room Navigator for Wall Installation

The ideal finished height to the bottom of the Cisco Room Navigator for Wall is 42" (1060 mm) AAF, which requires the ethernet cable to be located on the wall or storefront door jamb at 43" (1090 mm) AFF.

Occasionally, the Ethernet cable can be damaged as it is pulled through the wall or jamb. As a best practice, consider running a single cable from the IDF to a female RJ-45 termination jack at the top of the door frame, then run a separate cable down the wall or door frame. This approach will minimize the effort required to replace the cable if it is damaged during installation.



# IT/OT Reference Architectures



# IT/OT Bill of Material

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## Cisco Products - Video Endpoint in Brainstorming Huddle Room

- **CS-BRD55P-K9** Cisco Board Pro 55 G2
- **CS-T10-WM-K9=** Cisco Room Navigator for Wall

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## IOT Devices

- IAQ coming from the Cisco Room Navigator or the Cisco Board Pro 55, No additional IoT IAQ
- Occupancy sensing is coming from the Cisco Endpoints
- Suggested lighting specifications: 220LPW raw, 140LPW delivered
- Each Huddle room PoE lights being power by a single port on the ceiling
- Traditional DC Wall Switch
- Ensure the device is not plugged into ASHRAE 90.1 outlet (if used)

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## External microphones and speakers

- Mic and speakers are embedded in the Cisco Endpoints, no additional mic or speakers required
-

# Commissioning-User Acceptance Testing Criteria (Sample)



Defining a comprehensive provisioning and end-user acceptance process is critical to successfully deploying technology-enabled collaboration spaces. Listed below is an example of the approach Cisco uses when deploying these types of spaces in our work environments.

Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Network Connectivity	Device is plugged into an active network port	Check network status in device settings, connected, and receiving a valid IP Address.	IT-Network and Operations
Wallpaper	Set wallpaper on device	Verify dark mode wallpaper (should be the default setting)	IT-Collaboration
Space Management	Verify booking option is properly set on Cisco Room Navigator for Table and Wall	Cisco Space Management policy states that these rooms should NOT be bookable. Confirm that there is NOT a "Book this Room" option on the Cisco Room Navigator for Wall or the Board itself (Board Pro series).	IT-Collaboration
Cisco Wall Navigator	Confirm Cisco Wall Navigator displays correct details on room configuration and presence.	Check that the occupancy count displayed on the Cisco Room Navigator for Wall matches the actual number of seats in the room, that the temperature and humidity are displayed, and that, as you enter, the Navigator changes from green to red.	IT-Collaboration
Cisco Spaces	Confirm room is administered in Cisco Spaces	Verify that the room is properly administered in Cisco Spaces: <ul style="list-style-type: none"> <li>On the Cisco Spaces map, the room is showing either red or green status</li> <li>The layout of the room within Cisco Spaces matches how the room visually appears</li> <li>When you bring up details on the space (by touching the space on the map), the environmental metrics appear, and the room occupancy matches the actual number of seats in the space</li> <li>When you hit "get directions," pathfinding shows a logical path to the space. Scan the QR code on your mobile device and verify the applet downloads and provides step-by-step directions.</li> </ul>	Facilities, IT-Spaces

Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Display Signage	Configure optional digital signage package	Configure signage based on the intent of the space. For customer-facing rooms, use the corporate package; for back office/employee spaces, use the facilities package.	IT-Collaboration
Lighting (if applicable)	If applicable, verify intelligent lighting is working properly	Although defined by local building code, intelligent lighting generally should automatically turn lights on and off based on room occupancy. <ul style="list-style-type: none"> <li>As you enter the room, the lights should turn on automatically.</li> <li>Verify all lighting elements are on with equal brightness</li> <li>Verify that the wall switch controls the lighting function</li> <li>After exiting the space, return to ensure the lights have automatically turned off.</li> </ul>	Facilities
Shading (if applicable)	If applicable, verify intelligent shading is working properly	Shades are adjusted based on external environmental conditions (sun path) and are controllable using in-room controls.	Facilities
Smart Building Macros-Lighting and shading (if applicable)	If applicable, add lighting and shading controls, if smart building components are added to the Cisco Room Navigator for Table	Confirm lighting controls are working properly <ul style="list-style-type: none"> <li>Toggle through various settings to see how lights and shades react. These should be independent of the wall switch setting.</li> </ul>	IT-Collaboration
Room Metrics	Add customer Room Metrics macro to the device	As you enter the room, environmental metrics should be displayed in the upper right-hand corner. Additionally, a menu button should be present on the Board (Board Pro series) and when pressed, should display the same information.	IT-Collaboration

# Commissioning-User Acceptance Testing Criteria (Sample)

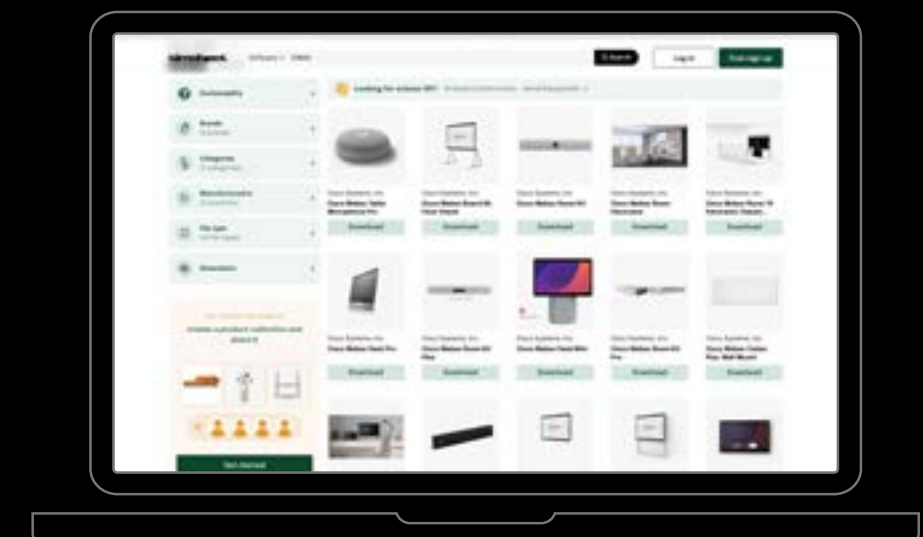


Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Camera Settings	Verify is camera is configured correctly	<p>In Device Settings -&gt; Camera, go through each of the camera modes to ensure they work properly</p> <ul style="list-style-type: none"> <li><b>Manual</b> - The camera should capture the entire room, with the table centered in the frame</li> <li><b>Group</b> - The camera will adjust to show everyone, dynamically adapting to subtle changes in the group so that all participants are optimally framed.</li> <li><b>Frames</b> - The camera will zoom and show people individually or in smaller groups.</li> <li><b>Speaker</b> - The camera will follow the person speaking, automatically adjusting close-ups to follow the speaker's movements. The maximum distance for speaker tracking to work is 7.5 meters.</li> <li><b>Dynamic</b> - the system chooses the camera mode best suited to the situation in the room. If up to four people are in the room, you'll get Frames mode. When a fifth person enters the room, the camera mode switches to a cropped overview and then to Speaker or Group and Speaker mode.</li> </ul> <p>• Set the default to "Dynamic" once complete</p>	IT-Collaboration
Collaboration Functions	Check collaboration functions- make a test call, join a meeting and share content	<ul style="list-style-type: none"> <li>• Verify that the laptop automatically pairs with the device when entering the room</li> <li>• Confirm display mirroring - Share content wirelessly (via Webex App) and with a USB-C cable</li> <li>• Start a meeting via the Webex app, share content, and end meeting</li> </ul>	IT-Collaboration



## Design Files

Design files (Revit, AutoCAD, Sketch up, Rhino3D, etc.) for Cisco's collaboration devices, network switches, wireless access points and Meraki security cameras can be found at [www.bimobjects.com](http://www.bimobjects.com), search "Cisco."



## Resources

Guide: Best Practices for Creating Effective Video-enabled Rooms

Cisco Board Pro G2 Data Sheet

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The intent of this document is to highlight the details, components, and partners used in the creation of this room type. Any reference herein to any specific commercial products or services does not necessarily constitute or imply their endorsement or recommendation.

