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Pre-Installation Guide

A-dec 541 Duo Delivery System and 545 Assistant's Instrumentation

Contents

Pre-Installation Notes and Cautions 1
Wall Construction Requirements 1
Standard Wood Wall Construction 1
Non-Standard Wall Construction 1
Other Construction Requirements 2
Floor Mounting – Concrete Floors 2
Floor Mounting – Non-Concrete Floors 2
Utility Specifications 3
Electrical Ratings 4
Shipping Weights 4
Documentation References 4
Plan Views and Dimensions 5
Utility Placement 5
Utility Elevations 5
A-dec 541B/545 Plan View with Elevation 6
A-dec 541A/545 Plan View with Elevation 7
A-dec 541/545 Range of Motion 8
Standard Wood Wall Construction, 2" x 6" (38 mm x 140 mm) Minimum 9
Standard Wood Wall Construction with Utilities, 2" x 6" (38 mm x 140 mm) Minimum 10
Non-Standard Wall Construction with Utilities, 7-1/2" (191 mm) Depth Minimum 11
Cabinet Mount Utilities 12
Foot Control Wall Plate 13
Umbilical Pass-Through 13



A-dec 541B 12 O'Clock Duo Delivery System



A-dec 545 12 O'Clock Assistant's Instrumentation

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For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.

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Product service is available through your local authorized A-dec dealer. For service information, or to locate an authorized dealer, contact A-dec at 1.800.547.1883 in the USA and Canada or 1.503.538.7478 worldwide, or visit www.a-dec.com.

Product Models and Versions Covered in This Document

Models	Versions	Description
541	A/B	Delivery System
545	A	Assistant's Instrumentation

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Pre-Installation Notes and Cautions

NOTE Job site construction should be completed before the dental equipment installation (including finished floors, ceiling, plumbing, lighting, paint, etc.).

CAUTION Local regulation may require licensed plumbers and electricians to install the utilities. All plumbing and utilities must conform to prevailing local codes.

CAUTION The manner and method for accessing the utilities within the wall is the responsibility of the design team working on the project (dental dealer, architectural services, and contractors). Utilities must be accessible without the use of tools.

CAUTION Consult a licensed professional, e.g., a structural or architectural engineer, for mounting to metal studs or masonry walls.

Wall Construction Requirements

Standard Wood Wall Construction

(With or without utilities) 2" x 6" (38 mm x 140 mm) minimum.

Non-Standard Wall Construction

7-1/2" (191 mm) depth minimum.

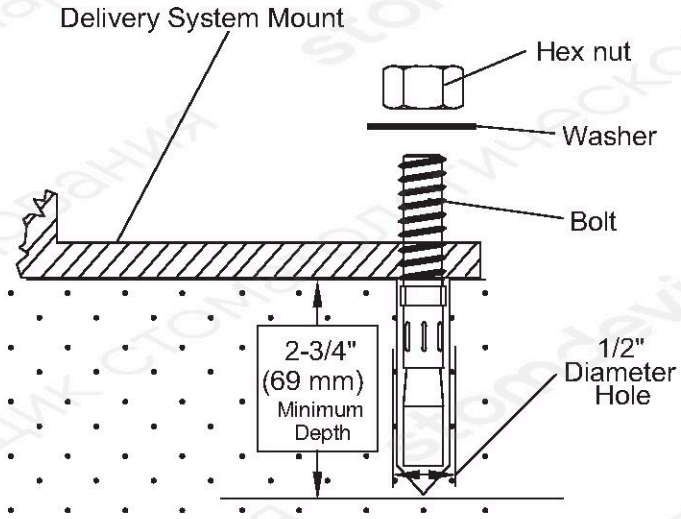
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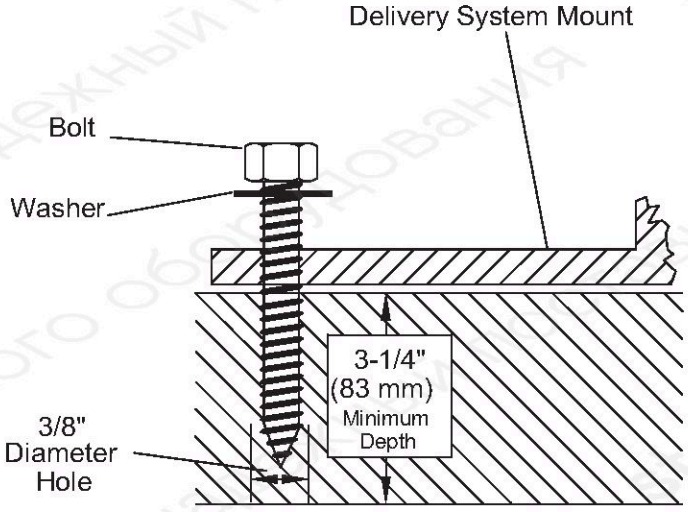
Other Construction Requirements

If the flooring material is not as thick as shown in the images below, consult your licensed contractor about adding reinforcement to the flooring.

Floor Mounting – Concrete Floors



Floor Mounting – Non-Concrete Floors



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Utility Specifications

Utility	Finish	Requirements
Air	1/2" (13 mm) compression protruding 1" (25 mm)	• Right-angle manual shutoff valve with 3/8" compression outlet supplied and installed by the contractor. • 80-125 psi (550 to 860 kPa), 2.5 scfm (71 SL/min) minimum, during normal use (7.5 scfm [210 SL/min] peak intermittent flow). • Flush lines prior to making connections to dental equipment.
Central vacuum	1" PVC pipe (1.315" OD) protruding 2" (50 mm)	• Wet systems: 10 ± 2 inches of Hg (34 ± 7 kPa), 9 scfm (255 SL/min) minimum. • Dry/semi-dry systems: 4.5 ± 1 inches of Hg (16 ± 3.5 kPa), 12 scfm (340 SL/min) minimum.
Electrical (optional)	1/2" (13 mm) conduit and electrical box with a hospital-grade quad power receptacle.	• Conduit, electrical box, and power receptacle supplied and installed by the contractor (wired as per code). • Electrical box should be oriented horizontally, with the top no higher than 5" (127 mm) above the finished floor. • See the "Electrical Ratings" table for voltage and amperage ratings.
Nitrous Oxide (optional)	In most applications, 3/8" (10 mm) copper tubing protruding 5" (127 mm)	• Specified by the product manufacturer.
Oxygen (optional)	In most applications, 1/2" (13 mm) copper tubing protruding 5" (127 mm).	• Specified by the product manufacturer.

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Electrical Ratings

Power	Required Electrical Supply
240 Volt	220–240 VAC, 50–60 Hz, 5 Amps minimum
120 Volt	110–120 VAC, 50–60 Hz, 10 Amps minimum

IMPORTANT For additional electrical specifications, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Resource Center at www.a-dec.com.

Shipping Weights

Product/Box	Estimated Shipping Weight
A-dec 541 Delivery System	94 lb (43 kg)
A-dec 545 Assistant's Instrumentation	89 lb (40 kg)

Documentation References

Document Title	Part Number
Template	
541/545 Delivery Systems Stand-Alone Applications	85.0050.00
Installation Guides	
A-dec 541/545 Delivery System Mount Installation Guide	86.0003.00
A-dec 541 Duo Delivery System and 545 Assistant's Instrumentation Installation Guide	86.0763.00

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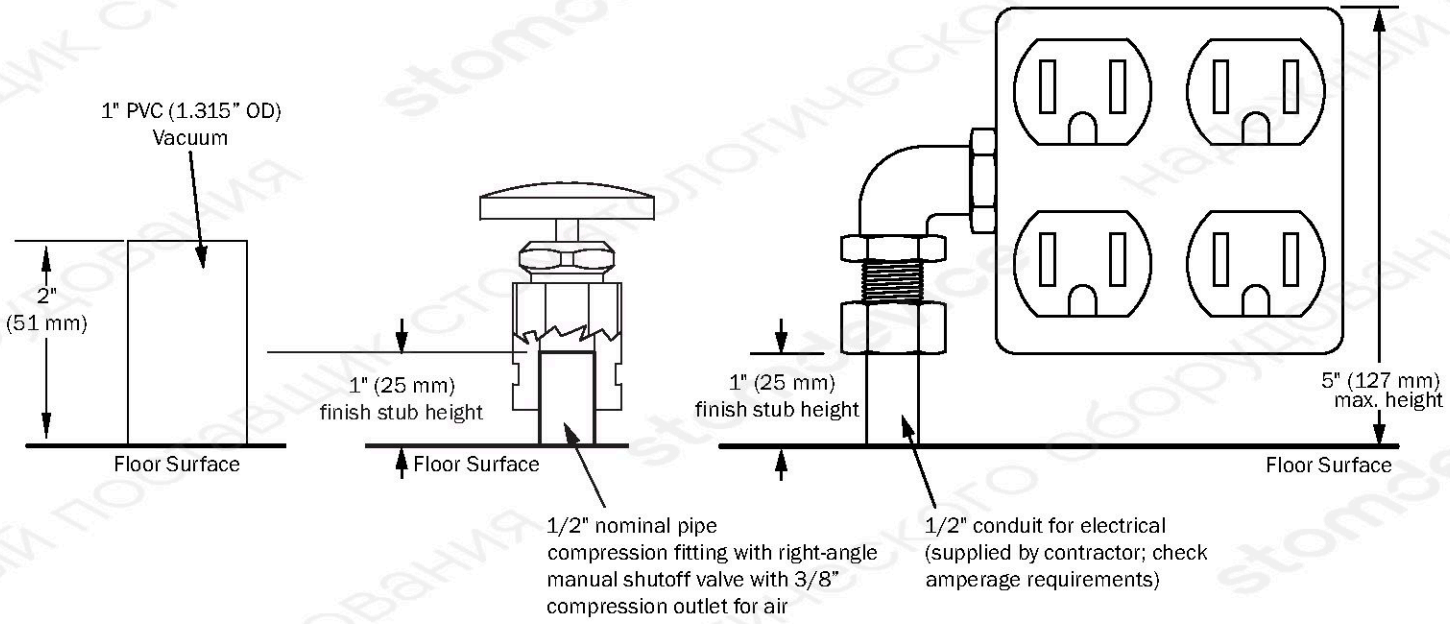
Plan Views and Dimensions

NOTE The dimensional drawings in this section are not to scale and are for reference only. For complete accuracy, use the appropriate full-sized templates.

Utility Placement

CAUTION Due to specific plumbing elevation restrictions, the height and placement of utilities in the floor box can affect the ability to use the floor box cover. Failure to provide adequate space will prevent installation and removal of the cover. See "Utility Elevations." Please reference the appropriate full-size template which includes all of the necessary space constraints.

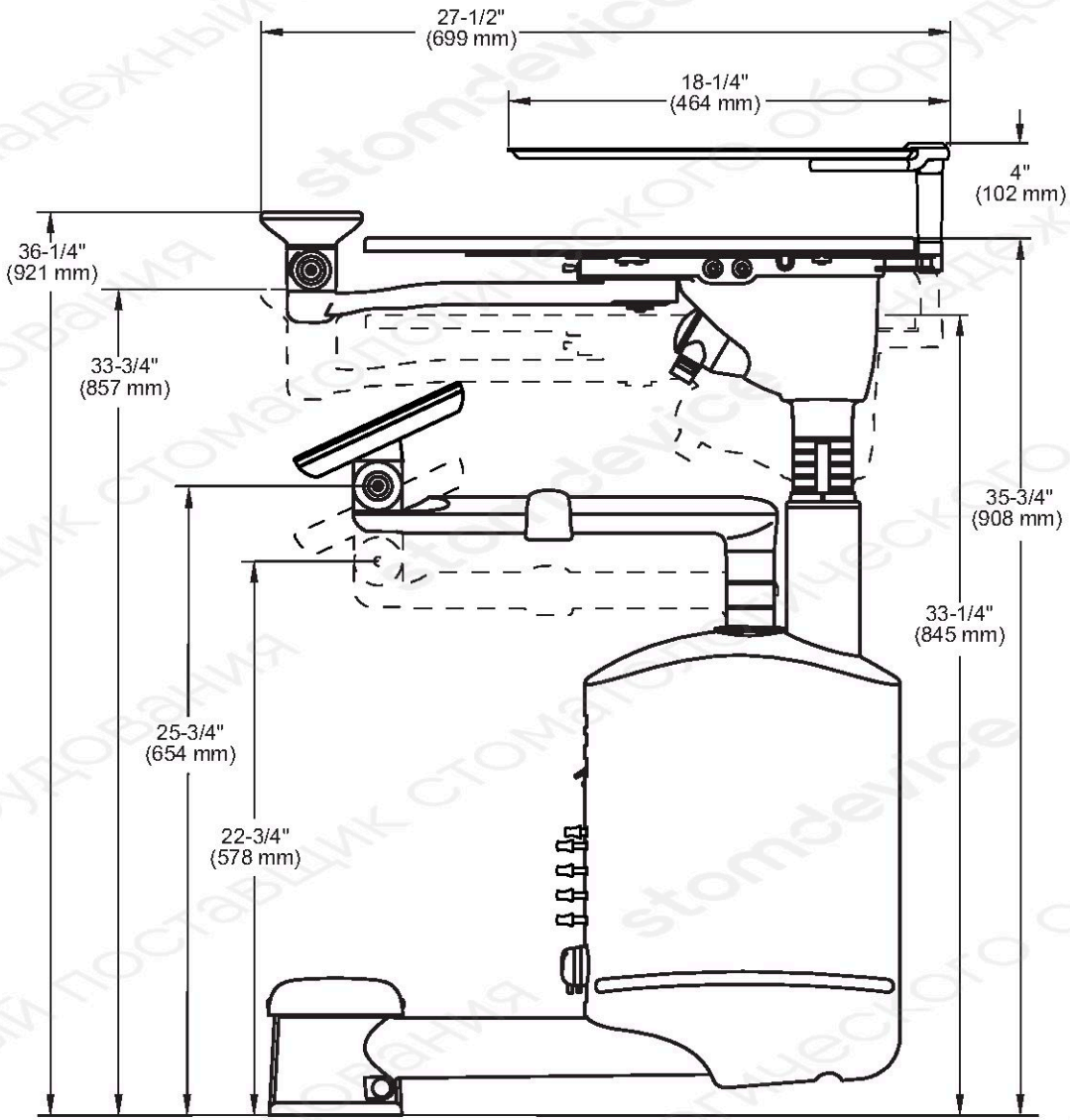
Utility Elevations



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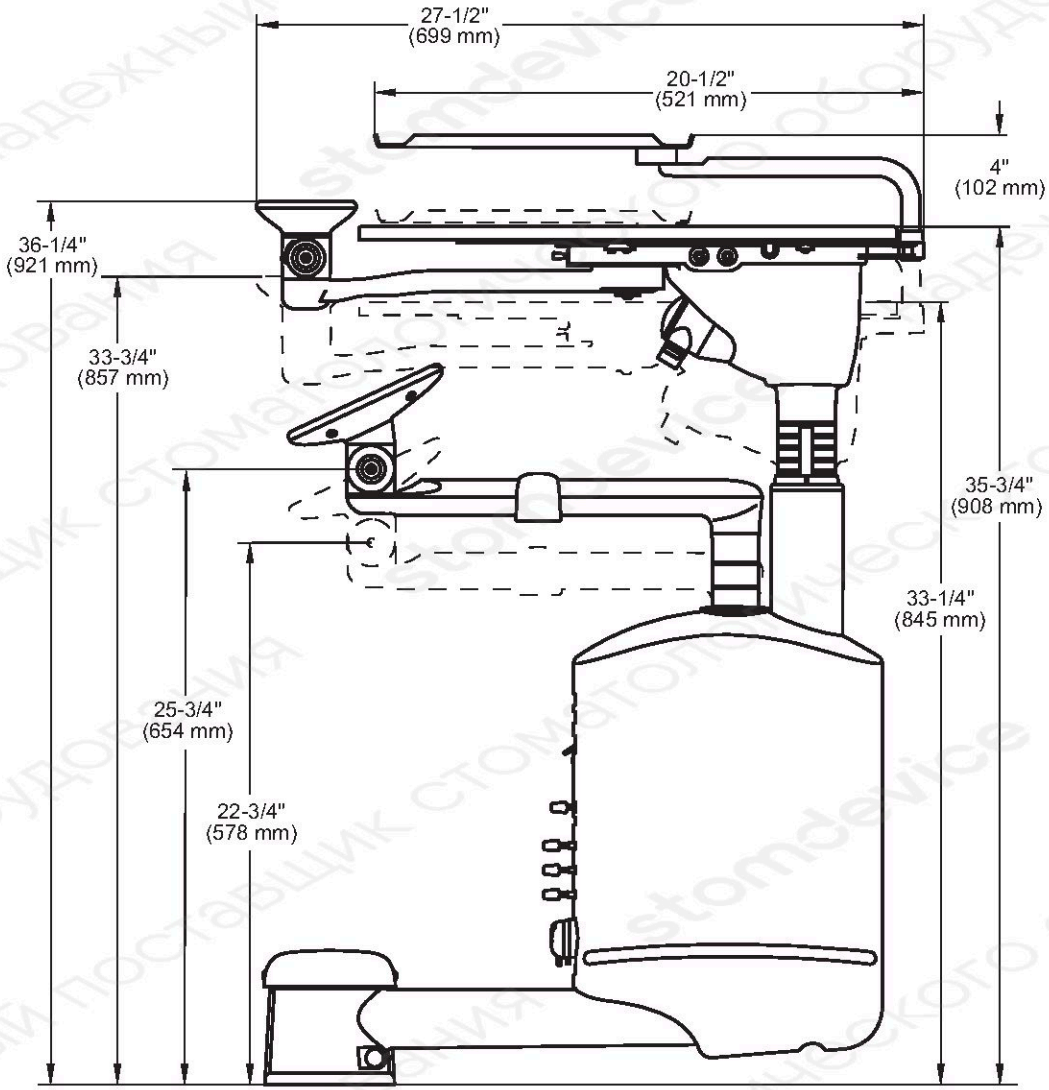
A-dec 541B/545 Plan View with Elevation



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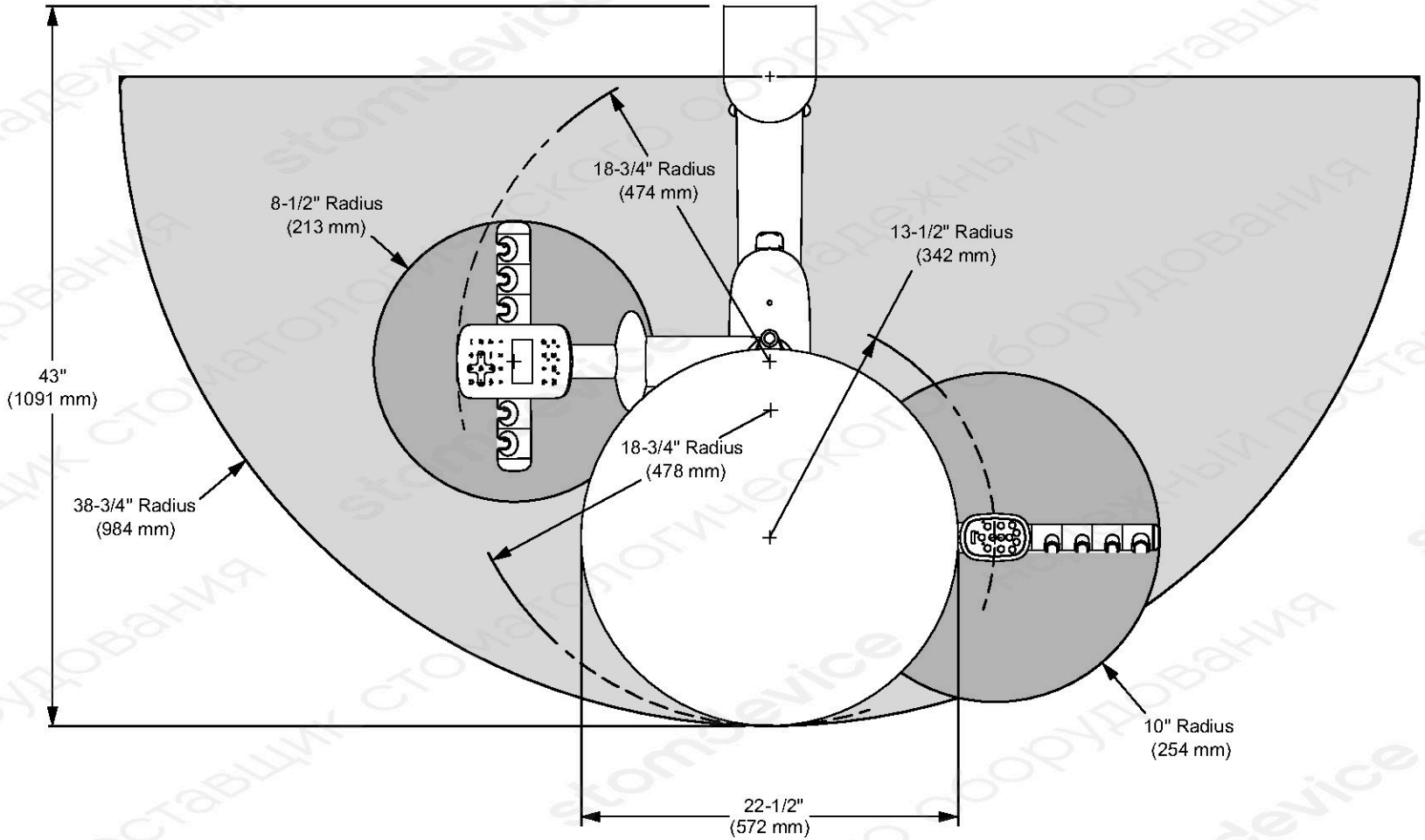
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A-dec 541A/545 Plan View with Elevation



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A-dec 541/545 Range of Motion

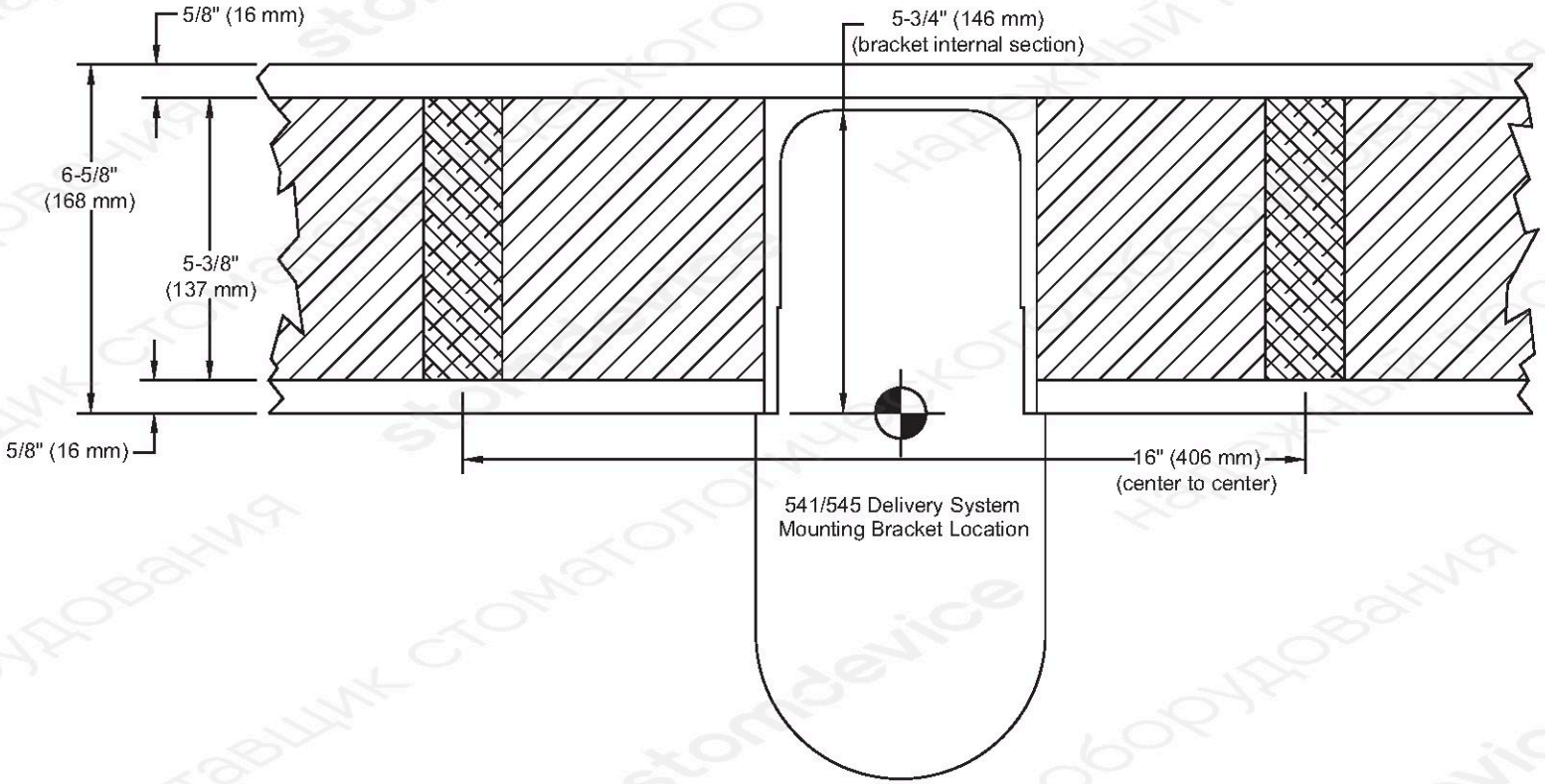


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Standard Wood Wall Construction, 2" x 6" (38 mm x 140 mm) Minimum

- General wall dimensions are shown for reference only.
- The starting point for all plumbing utility dimensions are referenced by a spotting target (⌖). This marks the intersection of the mounting bracket center line and the front side of the 12 o'clock wall.

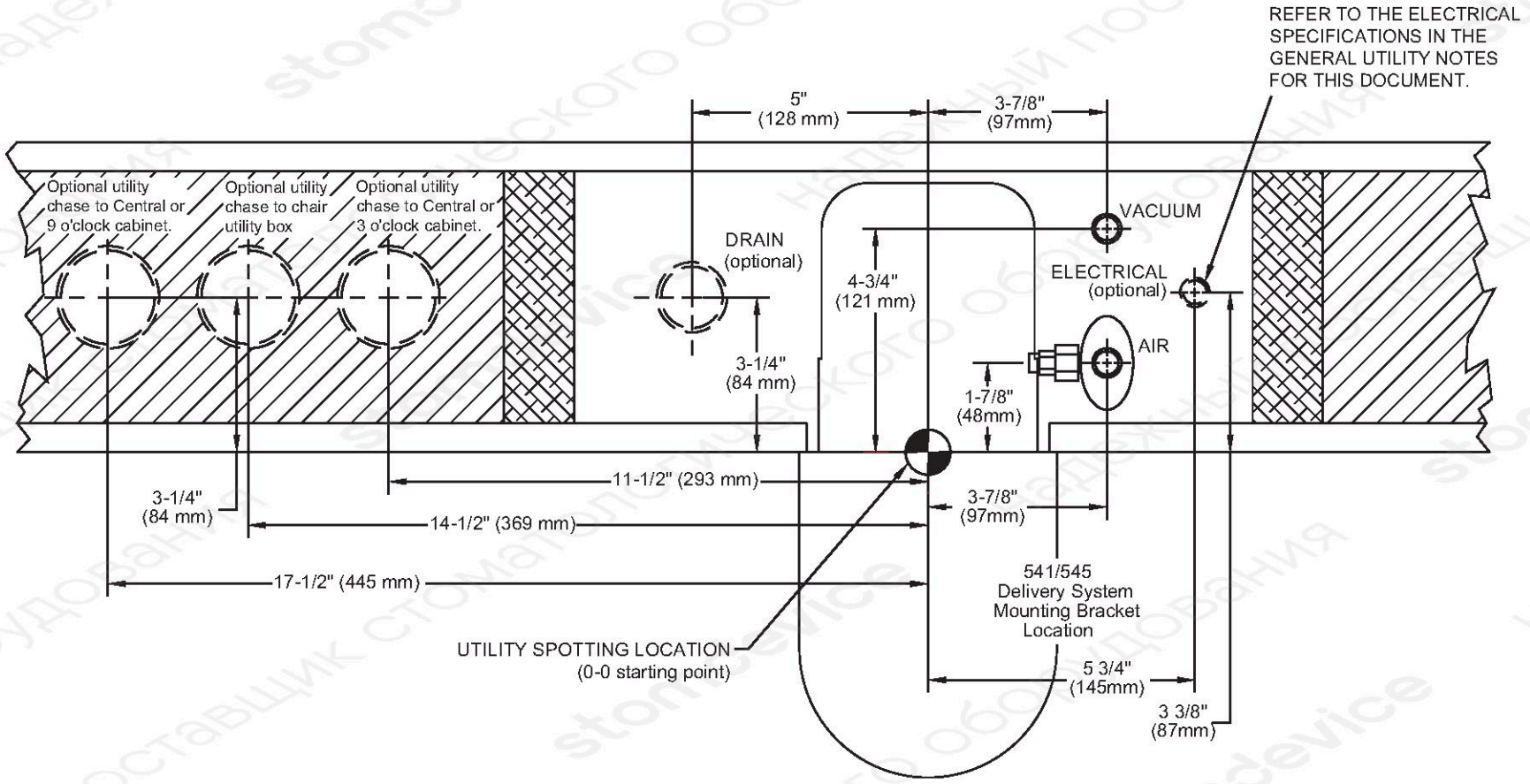


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Standard Wood Wall Construction with Utilities, 2" x 6" (38 mm x 140 mm) Minimum

The starting point for all plumbing utility dimensions are referenced by a spotting target (⊕). This marks the intersection of the mounting bracket center line and the front side of the 12 o'clock wall.

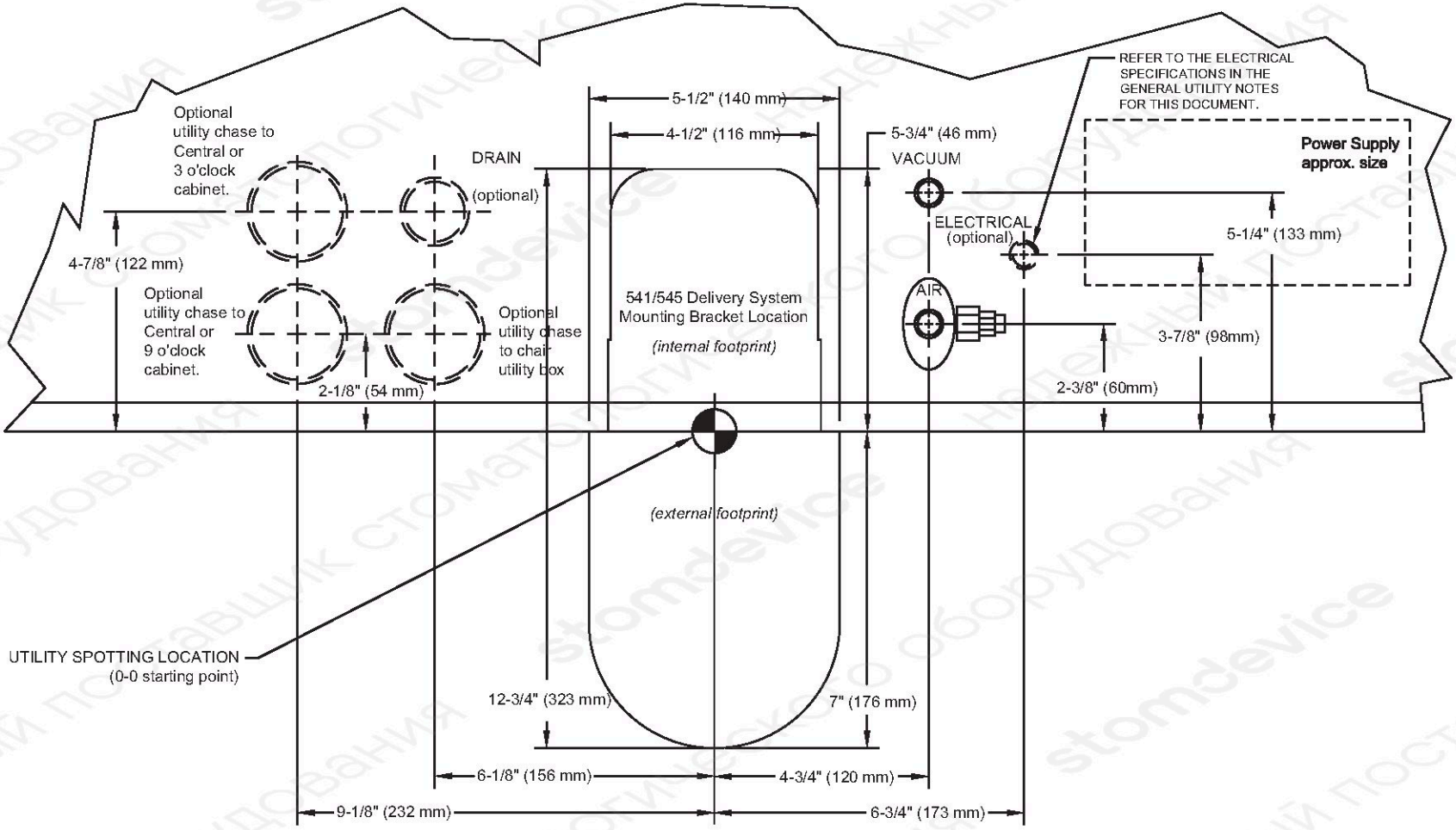


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Non-Standard Wall Construction with Utilities, 7-1/2" (191 mm) Depth Minimum

- The plumbing locations shown within this footprint are specific to metal or other wall construction methods only.
- The finished wall depth is unspecified and must be reviewed and approved by the project design team.
- The starting point for all plumbing utility dimensions are referenced by a spotting target (⊕). This marks the intersection of the mounting bracket center line and the front side of the 12 o'clock wall.



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Cabinet Mount Utilities

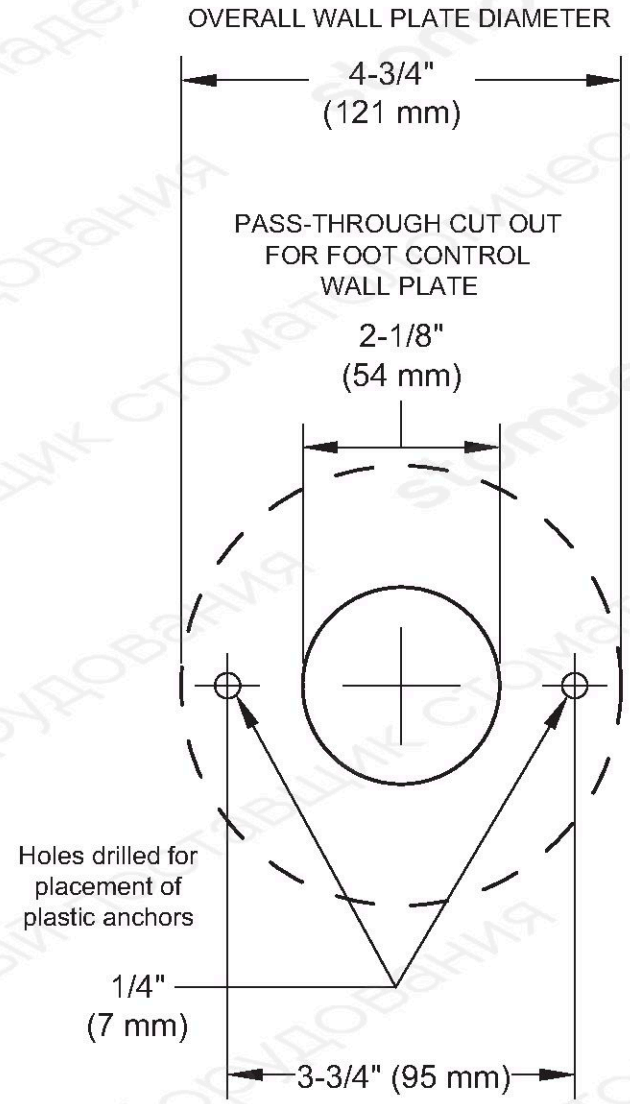
To locate and place cabinet mount utilities, see the following documents:

- *A-dec Inspire® Dental Furniture Pre-Installation Guide* (p/n 86.0528.00)
- *Preference Collection® Dental Furniture Pre-Installation Guide* (p/n 86.0142.00)

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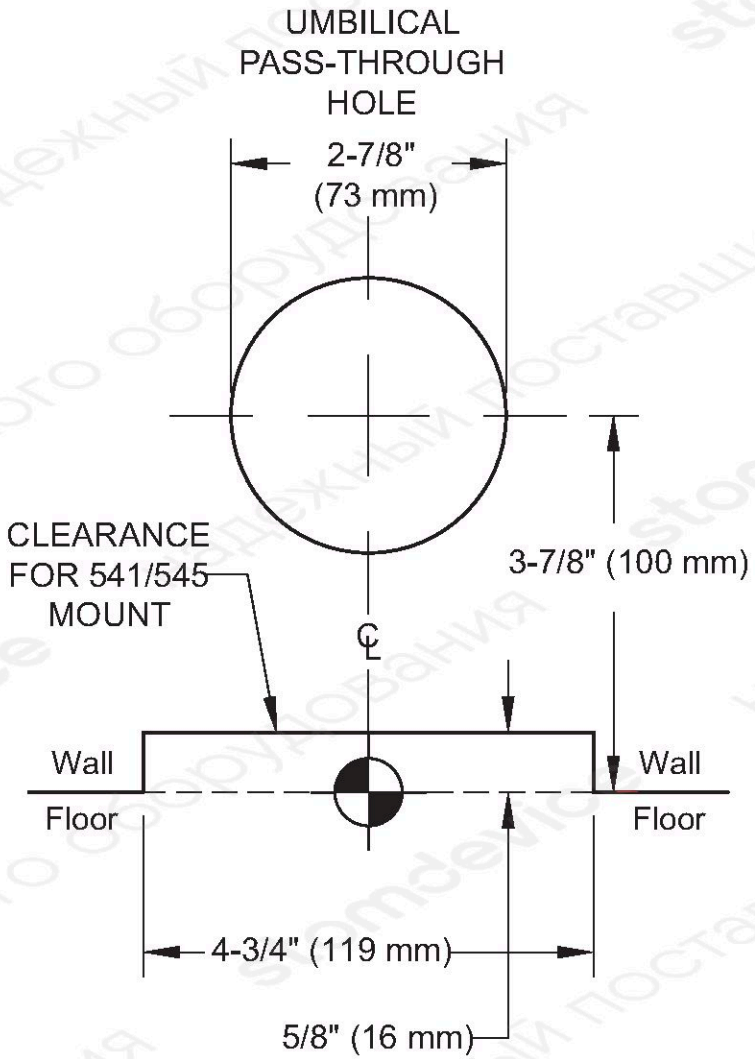
Foot Control Wall Plate

Position the foot control wall plate in any location on the wall; there is no specific placement relationship with the 541/545 mounting bracket.



Umbilical Pass-Through

The umbilical pass through hole and mounting bracket clearance slot must align with the final position of the 541/545 mounting bracket.



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A-dec Headquarters, 2601 Crestview Drive, Newberg, Oregon 97132, USA
Tel: 1.800.547.1883 Within USA/CAN, Tel: +1.503.538.7478 Outside USA/CAN
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