

3.2 Sample Room Plan

3.2.1 SPECT System Requirements

Requirement:	Value:
Minimum ceiling height	2.44 m (8 feet or 96 inches)
Minimum door opening	876.3 mm (34.5 ")
Minimum door height	2032 mm (80 ")
Power Required for SPECT Gantry Single phase 200/208/220/240 volts +/- 10%, 47/63 Hz	

3.2.1.1 Rules and Assumptions

Use the Gantry home position when doing measurements for minimum Gantry-to-wall distances.

1. Minimum distances between stationary or manually moved components and wall is 50.8 mm (2").
2. For operator passage the minimum distance between the rear PHS and the wall is 571.5 mm (22.5 ").
3. The minimum distance between the end of the front PHS and the wall is 50.8 mm (2 ") after the bed is pivoted.
4. Any deviations from the minimum room size must be approved by a Siemens Planner.

5. 4.2 Floor Requirements and Preparation

6.4.2.1 Leveling and Flattening the Floor Area

7. The scan room floor must be leveled, and its surface must be smooth. Any deviation in levels will have a detrimental effect on the PHS-to-Gantry alignment which may effect collimator exchange.
8. It is recommended that the floor in the entire room will be leveled and flattened, according to the Siemens specifications given below. If this is not possible, it is imperative that the system installation area (see figure below - the crosshatch area) is leveled and flattened.
9. Upon completion of the installation floor area, verify the surface flatness, using a straight edge of 122 cm(4') in length (or longer).
- 10.
11. Fig. 54: Evo Minimum Floor Leveling Area (RH Patient Load)

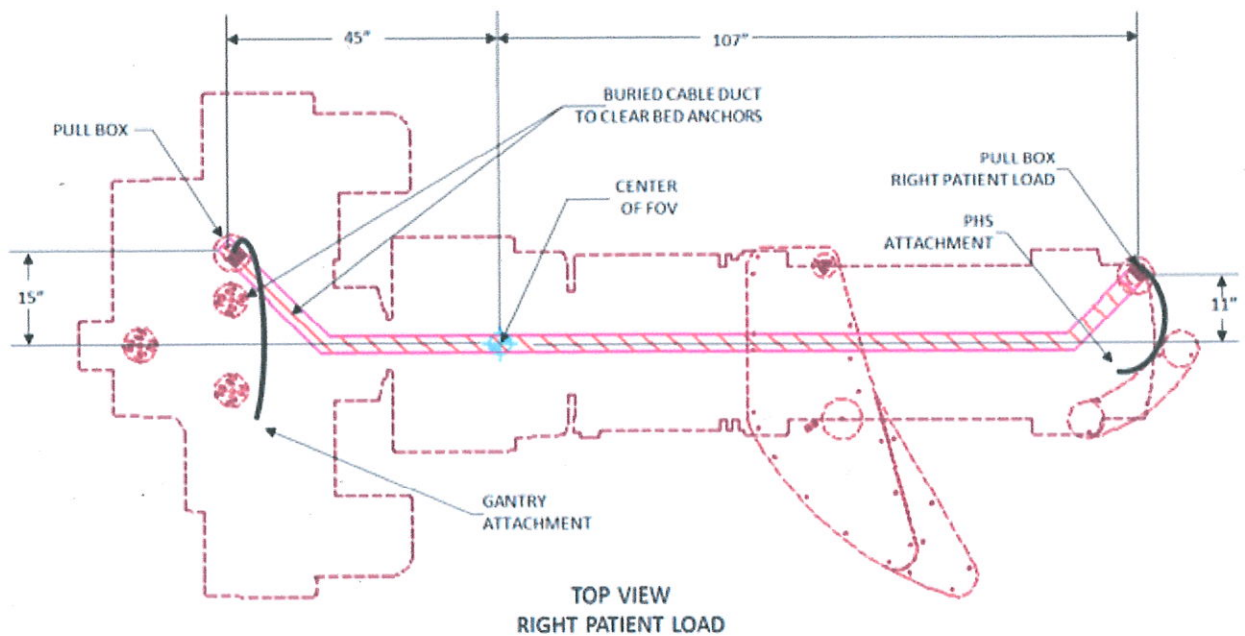
12. Fig. 55: Evo Excel Minimum Floor Leveling Area

13. Leveling specifications are listed in the Table below:

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Minimum Floor Leveling Area	Evo - 461 cm x 191 cm (182" x 75") Evo Excel - 346 cm x 165 cm (136" x 65")
Slope	0.25 degrees maximum. i.e. Evo - 20.1 mm (0.79") maximum over 4613 mm (182") - length, or 8.3 mm (0.33") maximum over 1910 mm (75") - width. i.e. Evo Excel, 15 mm (0.59") maximum over 3455 mm (136") - length or 7.2 mm (0.28") maximum over 1651 mm - width.
Flatness	Surface should be smooth and have no more then 0.5 cm (3/16") deviation in any 122 cm (48") throughout the room or system installation area
Floor Surface	Floor should have one single poured surface. No fill material should be used to compensate for holes or depressions in the floor surface.

Cable root Symbia Exel



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