

PBU Performance Requirements



Prefabricated bathroom units (PBU) suppliers must ensure their systems meet performance requirements before supplying development sites.

PBU Performance Requirements	
Performance Requirements for Wall Panels	<ul style="list-style-type: none">• Wall panels manufactured with non-concrete or lightweight concrete materials must be tested for strength, robustness, physical, and moisture-related properties. The list of required tests is available under Appendix C and Appendix D of the Building Innovation Panel (BIP) Application Checklist for PPVC Systems.• Wall panels should not be susceptible to corrosion.

Access to Utilities for Maintenance, Repair, and Replacement

- The vertical soil stack should be readily accessible from outside the PBU and within the dwelling unit or from the common areas of the same floor.
- Ceiling access panels must be installed in the PBU to allow for easy maintenance, repair, and replacement of overhead services and utilities.

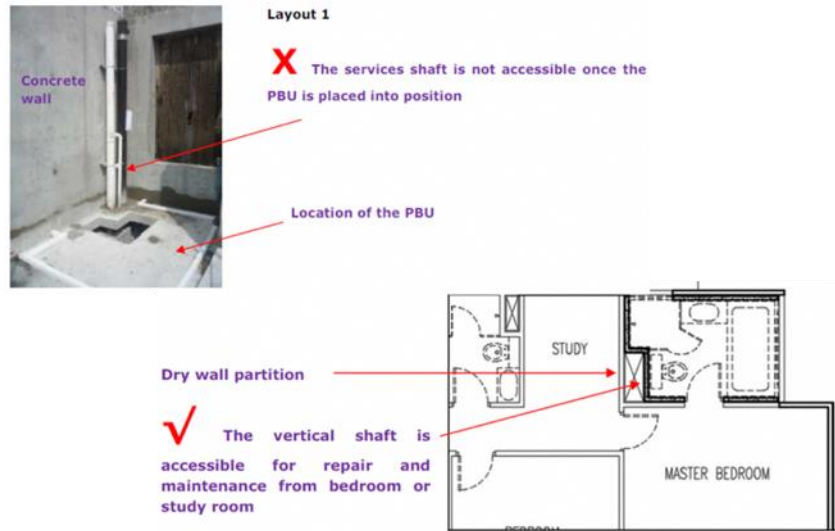


Figure 1: Sample layouts with different positions of vertical soil stack (or vertical shaft).



Figure 2: Alternative layouts that allow the vertical stack to be accessed for future maintenance from the air-conditioning ledge or an adjacent room.

<p>Allow for Replacement of Tiles</p>	<ul style="list-style-type: none">• The PBU must allow for tile replacement to be done via hacking with chisel and hammer, or their equivalent tools, without resulting in damage to the wall panels or backing board.
<p>Provision for Barrier-Free Accessibility Design Requirements</p>	<ul style="list-style-type: none">• For PBUs with wall panels made from non-concrete or lightweight concrete materials, the panels must be designed to allow for future installation of grab bars.• The locations and installation instructions for these grab bars should be clearly included in the homeowner user manual. <div data-bbox="673 926 1247 1373" data-label="Image"></div> <p>Figure 3: Example of grab bars in a bathroom.</p>
<p>Affix A Manufacturer's Label</p>	<ul style="list-style-type: none">• A manufacturer's label is to be affixed inside the PBU.• Label material should be waterproof and rustproof.• Dimension of label: 6cm x 10cm.

- Include the following information on the label:
 - (a) Date of manufacture in the following format:
Month/Year
 - (b) Name of manufacturer
 - (c) Company address of manufacturer
 - (d) Contact number of manufacturer
 - (e) Material of wall panel
 - (f) Material of floor pan

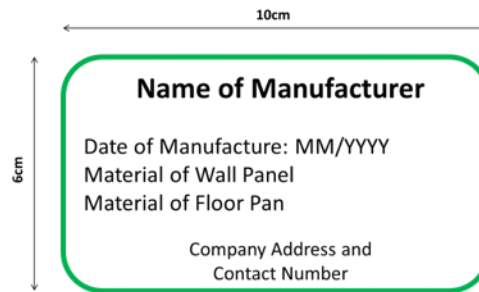


Figure 4: Sample of manufacturer's label to be affixed within PBU.

Other PBU Requirements

Regulatory Requirements

The detailed layout and design of the PBU system used in a development project must meet the technical requirements of all relevant regulatory authorities.

Industry Good practices

The [Industry Good Practices Guide](#) provides builders and manufacturers with recommendations in areas like transportation, protection measures, installation, renovation, and PBU maintenance.

Design Considerations

Designers can refer to the video below for PBU design considerations.



Tile Replacement Methods

Homeowners and renovation contractors can refer to the video guides below for recommended tile replacement methods on PBUs with drywall or metal panel walls.

Before starting any renovation or repair work, always check the homeowner user manual or consult your Developer to confirm the type of bathroom installed in your apartment.

