**Room Body Protection Checklist**

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| **Job #** |  | |
| **Project** |  | |
| **Room #** |  | |
| **Drawing Reference** |  | |
| **Drawing Revision** |  | |
| **Inspected By** |  | |
| **Date** |  | |
| **Activity** | Rough In | Fit Off |

| **Item #** | **Item** | **Conforming** | **Non**  **Conforming** | **N/A** |
| --- | --- | --- | --- | --- |
| 1 | Light Switch installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 2 | RCD installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 3 | Socket-outlet installed in ceiling |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 4 | Normal Supply Socket-outlet (White) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 5 | Essential Supply Socket-outlet (Red) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 6 | UPS Socket-outlet (Dark Blue) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 7 | “Cleaning Purposes Only” Socket-outlet (Beige) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 8 | Normal Supply Double Socket-outlet (White) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 90 | Essential Supply Double Socket-outlet (Red) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 10 | UPS Double Socket-outlet (Dark Blue) installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |
| 11 | Medical Services Panel installed |  |  |  |
| Installed at correct RL |  |  |  |
| Installed in compliance with architectural drawing/s |  |  |  |
| Installed in compliance with AS/NZS 3003 |  |  |  |
| Comments: | | | |

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| Photos: |
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**Body Protected Electrical Area Compliance Notes:**

* Installation has been tested and verified in accordance with AS/NZS 3003 clause 2.13 & AS/NZS 3000 clause 8.3.3.
* Mechanical protection of wiring systems installed in a patient area. AS/NZS 3003 clause 2.4.2.
* Earthing shall be in accordance with AS/NZS 3003 clause 3.2.
* Final Sub-circuits
  + Only supply one body protected room and its adjoining ensuite, not looped from room to room. (The ensuite still requires a separate RCD, 10mA double pole). AS/NZS 3003 clause 2.4.1.1.
  + Socket-outlets identified “Cleaning Purposes Only” shall not be supplied from any final sub-circuit supplying socket-outlets not identified “Cleaning Purposes Only”. AS/NZS 3003 clause 2.4.1.3.
* Socket Outlets
  + RCD’s shall be provided to permanently installed ELV charging socket-outlets. Note: This includes USB charging socket-outlets. AS/NZS 3003 clause 2.4.3.1.2.
  + Socket-outlets that are accessible in patient areas without the use of a key or tool are to be RCD protected. AS/NZS 3003 clause 2.4.3.2.2 (a).
  + Socket-outlets within 2 metres of a body protected area and are accessible without the use of a key or tool are to be RCD protected. (RCD shall be 10mA double pole). AS/NZS 3003 clause 2.4.3.2.2(b).
  + Socket-outlets connected to a UPS system, require a UPS status indicator. The status indicator must be connected to the UPS battery system to indicate loss of mains supply to the UPS. AS/NZS 3003 clause 2.4.4.3.
  + Socket-outlets not readily accessible and not protected by a dedicated RCD require a separate readily accessible double pole isolation switch (height of switch no more than 2m from the ground, floor, or platform). Isolation switches shall not be located within 500mm of the light switch at the entrance of the room. Socket-outlets mounted under benches or in cupboards are not readily accessible if they are obstructed by equipment. AS/NZS 3003 clause 2.7.2.
  + Socket-outlets (Cleaning Purposes Only) to be within 15 metresof a body protected area or within the patient area. The socket-outlet may be placed in a location to service multiple body protected rooms such as a corridor, provided it meets the 15 metre distance requirement. AS/NZS 3003 clause 2.7.3.1.
  + Socket-outlets
    - connected to a normal supply shall be colour-coded white.
    - connected to an essential supply shall be colour-coded red.
    - connected to a UPS supply shall be colour-coded dark blue.
    - identified “Cleaning Purposes Only” shall be colour-coded beige.

AS/NZS 3003 clause 2.7.4.3.1.

* + Socket-outlets installed outside the patient area but used to supply medical equipment in the patient area shall have RCD protection. RCD shall be 10mA double pole. AS/NZS 3003 clause 2.4.3.2.2(c).
  + Socket-outlets on RCD protected supplies shall be identified by the specific words:
    - “RCD Protected” or “Isolation Transformer Protected”;
    - “from RCD X” or “from LIM X”; and
    - “Cleaning Purposes Only”, where applicable

AS/NZS 3003 clause 2.7.4.1

* + Socket-outlets on RCD protected supplies shall be fitted with one amber, yellow or orange indicator light to show when supply is available. Not required on “Cleaning Purposes Only” and ELV/USB charging socket-outlets. AS/NZS 3003 clause 2.7.4.4.
  + Each socket-outlet shall be individually controlled by its own accessible manual switch. Socket-outlets shall be switched in all active conductors. AS/NZS 3003 clause 2.7.5.
* RCD’s
  + RCD’s shall not protect socket-outlets in different rooms, or socket-outlets in different patient areas. AS/NZS 3003 clause 2.4.3.2.1.
  + Each RCD shall be:
    - Type I
    - With a maximum rated residual current not exceeding 10mA
    - With a maximum tripping time not exceeding 40 ms
    - Switch all live conductors i.e., active and neutral
    - Comply with AS/NZS 3190, AS/NZS 61008.1 or AS/NZS 61009.1
    - This requirement also applies to RCD’s used to protect socket-outlets identified “Cleaning Purposes Only”.

AS/NZS 3003 clause 2.8.1.

* + 10mA RCD’s shall not be backed up by 30mA RCD’s. AS/NZS 3003 clause 2.8.2.
  + RCD’s shall not protect
    - more than 12 electrical points i.e., socket-outlets, permanently wired equipment or combination thereof, or
    - Note: a double socket outlet is considered to be 2 points
    - socket-outlets in different rooms

AS/NZS 3003 clause 2.8.3

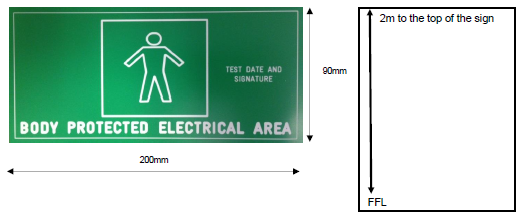
* + RCD’s are not required for socket-outlets above 2.3 metres and clearly intended for permanently mounted plug-in equipment other than medical electrical equipment. AS/NZS 3003 clause 2.4.3.2.2
  + RCD’s are not required for socket-outlets that are mounted on, and form part of, a permanently installed medical system provided that such socket-outlets are clearly intended to power specified component parts of the medical electrical system. AS/NZS 3003 clause 2.4.3.2.2.
  + RCD’s shall be:
    - Readily accessible (not more than 2 meters above the ground, floor, or platform);
    - Be located in accordance with table 2.1;

|  |  |
| --- | --- |
| **Location of Socket-outlet** | **Location of controls and indicators of associated RCD** |
| Within patient area | Within patient area |
| Accessible outside patient area | Within the room, corridor, staff base etc. in which the associated socket-outlets are located |
| Inaccessible outside a patient area e.g., in ceiling space | Within patient area |

* + - Not be mounted under benches, or structures that protrude more than 250mm out from a wall and less than 1200mm above ground floor or platform;
    - Be located in a visible position;
    - Not be within cupboards or cabinets;
    - Not be behind bulky equipment in such manner as to inhibit easy access to the controls and indicator;
    - Where mounted near the entrance of a room, be separated by at least 500mm from any wall-mounted light switch

AS/NZS 3003 clause 2.6

* + Each RCD shall be labelled to identify the associated distribution board and its circuit breaker and have an additional identifier unique within the patient are e.g., “RCD X”. AS/NZS 3003 clause 2.8.5.
  + Where a test facility is required, it shall be a socket-outlet with round pin earth in accordance with AS/NZS 3112 and be readily accessible. AS/NZS 3003 clause 2.8.7.
* Isolation Switches
  + Where permanently wired electrical equipment is supplied from an RCD that also supplies socket-outlets or other equipment, the electrical equipment shall be provided with a separate, individual, readily accessible isolation switch that opens all live conductors. AS/NZS 3003 clause 2.10.
* Labelling
  + Labelling shall not be fixed to removable surrounds of RCDs or socket-outlets unless duplicate identification is permanently affixed to the body of the RCD or socket-outlet and visible when the surround is removed. AS/NZS 3003 clause 2.12.1.
  + Body-protected Electrical Area sign to be installed on a wall and be readily visible in the patient area, and at a height of 2 metres to the top of the sign. AS/NZS 3003 clause 2.12.2.



* The body-protected electrical area sign/s shall have all superseded inspection labels and alteration and addition labels (excluding commissioning labels) removed and relabelled to indicate the following:
* The date at which the current inspection and test was completed.
* The identity of the person undertaking the test.
* The date at which the next inspection and test is due.
* Report number of latest test.