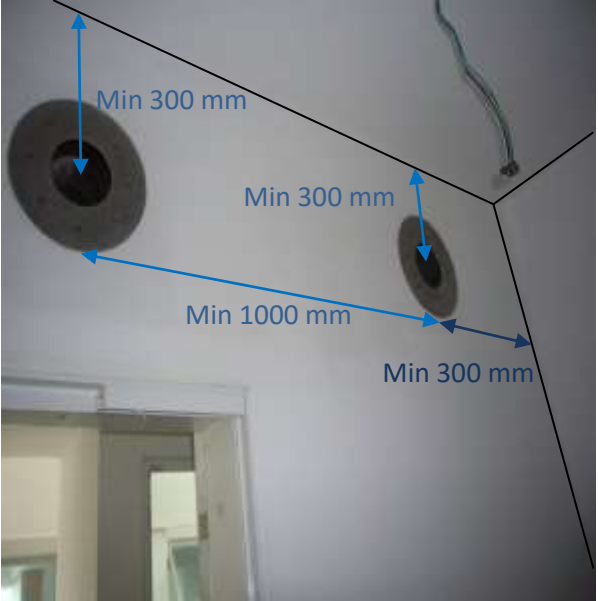

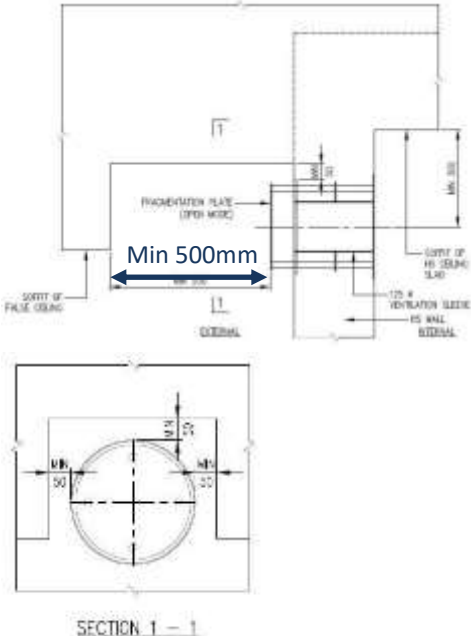
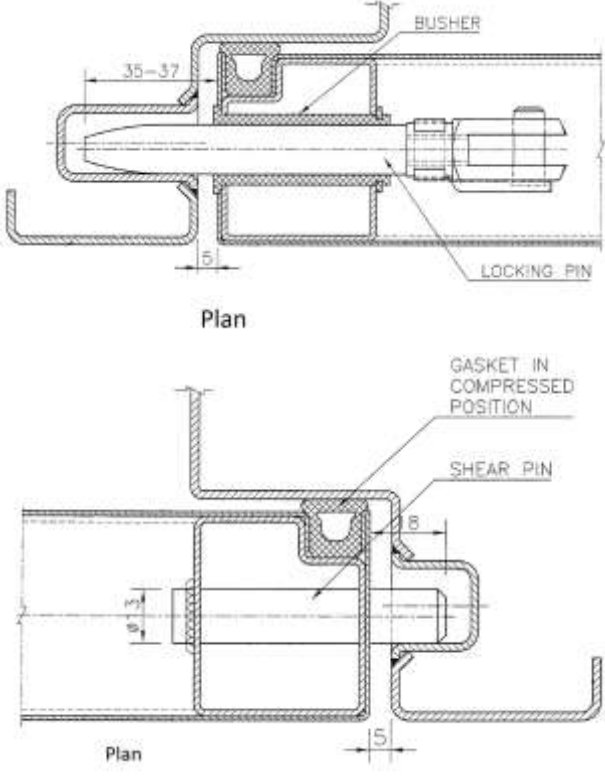





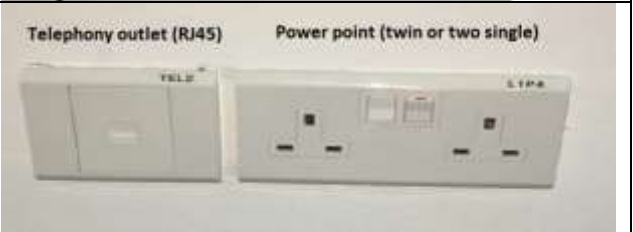
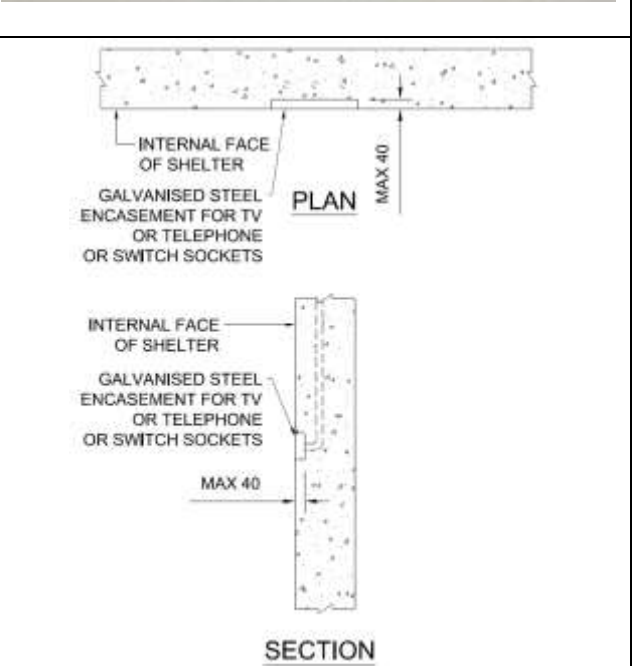
Sample checklist for Commissioning of Household Shelter (HS)

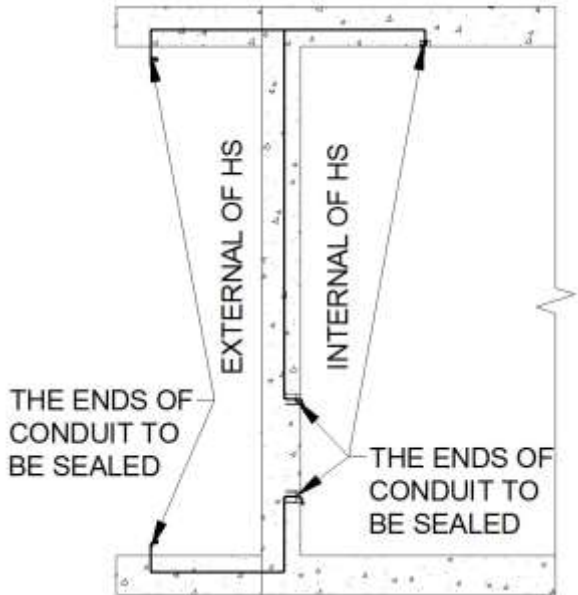


| S/No | Items | Sample photos |
|--------|--|--|
| A 1 | Readiness condition of HS To apply for commissioning inspection, building for the development must be near completion stage for TOP. | Overall view of building  |
| 2 | HS must be completed (see attached photo) in compliance with technical requirements. (e.g. setback distance, services, CD door, ventilation sleeves, internal/external floor finish level and no plastering on the internal wall.) | Overall view of Household shelter unit  |
| B 1 | Ventilation Sleeves Both external and internal face of ventilation sleeve shall be cleared and free of cement grout and paint. |  <div> <div>External face of ventilation sleeve with Fragmentation plate</div> <div>External face of ventilation sleeve</div> </div> |
| 2 | Screw threaded holes on the internal flange of ventilation sleeve shall be cleared and free of cement grout. |  |
| 3 | The inner flange of ventilation sleeve shall be flushed with internal face of the HS wall. | Internal flange of ventilation |


| S/No | Items | Sample photos |
|------|---|--|
| 4 | <p>Ventilation sleeve (inside HS) shall be positioned such that the centre of the sleeves shall be:</p> <ul style="list-style-type: none"> a) minimum 300 mm from any wall or ceiling slab. b) minimum 1900 mm and Maximum 3600 mm above finished floor level. c) minimum 1000 mm apart. |  |
| 5 | <p>For ventilation sleeve above false ceiling (outside HS wall), access opening shall be covered by perforated panel of 600 mm X 600 mm.</p> |  |
| 6 | <p>Fragmentation plate of the ventilation sleeve above false ceiling (outside HS wall) must be able to close and open without obstruction.</p> | |
| 7 | <p>False ceiling (outside HS) fronting the ventilation sleeves shall have a minimum clear distance of 500 mm away from the fragmentation plate in open position.</p> |  |

| S/No | Items | Sample photos |
|--------|---|--|
| C 1 | <p>HS Door and frame</p> <p>PLS label and HS door notice shall be pasted on the door.</p> |  |
| 2 | <p>HS door and door frame shall be completed with final painting. (Note: rubber gasket, Door hinges, locking pins and shear pins shall not be painted over)</p> |  |
| | <p>HS door shall be able to close and lock in CD mode as indicated in the door notice.</p> | |
| | <p>External floor finish shall be clear from the bottom edge of the HS door to ensure unimpeded opening of HS door.</p> | |
| | <p>There shall be a minimum 150mm reinforced concrete nib next to the nearest vertical edge of the door frame.</p> |  |

| S/No | Items | Sample photos |
|------|--|--|
| 3 | <p>The locking pin and the pin hole on the door frame shall be aligned so that the door can be engaged in CD mode easily.</p> |  |
| 4 | <p>The design gap between the door and door frame is 5mm.</p> <p>The maximum gap allowable shall not more than:</p> <ul style="list-style-type: none"> - 6mm along door with hinges - 7mm along door with locking pins <p>Maximum total gap (hinges side + locking pin side) shall not exceed 13mm or maximum clear width of doorframe shall not exceed 803 mm.</p> |  |

| S/No | Items | Sample photos |
|--------|--|--|
| 5 | Rubber gasket shall be fully secured into the recess along the sides of the door panel. |  |
| 6 | Handle shall be secured properly such that it is not loose or jammed when turning. |  |
| D 1 | Services Socket outlet/fixtures for Lighting switch, Telephony (RJ45) and Power point (2nos or twin) shall be installed inside HS. |  |
| 2 | Galvanised steel encasement for Telephony (RJ45), power point and lighting switch shall be placed within 40 mm measured from internal surface. |  |

| S/No | Items | Sample photos |
|--------|--|--|
| 3 | All open ends of conduit at internal and external of HS shall be sealed with sealant to a minimum depth of 100mm. |  <p>Diagram illustrating the sealing of conduit ends. The diagram shows a cross-section of a structure with 'EXTERNAL OF HS' and 'INTERNAL OF HS' sections. Arrows point to the 'THE ENDS OF CONDUIT TO BE SEALED' on both the external and internal sides.</p> <p>Conduit sealed with sealant</p>  |
| E 1 | <p><u>Commissioning Testing (Trial)</u></p> <p><u>Air-tightness test</u></p> <p>The pressure difference of 250 Pa between inside and outside of HS shall shows more than or equal to 50 Pa after 45 seconds.</p> <p>Note: Trial testing shall be carried out at the site by a competent site representative for all shelter units prior to application for commissioning inspection.</p> |  |

| | | |
|---|--|--|
| 2 | <p><u>Chalk mark test</u></p> <p>To apply chalk to the part of the door frame where the door seal will come into contact with when the door is closed.</p> <p>The test is considered to have passed if there is an unbroken and uniform transfer of the chalk markings onto the door seal when the door is closed and re-opened.</p> |  <p>Unbroken and uniform transfer of chalk marking onto door seal</p> <p>Door panel</p> |
| 3 | <p><u>Light penetration test</u></p> <p>To check on light penetration into the SS is to use torchlight from the exterior of SS door.</p> <p>The test is considered to have passed if no light could be seen from the inside of SS.</p> | |