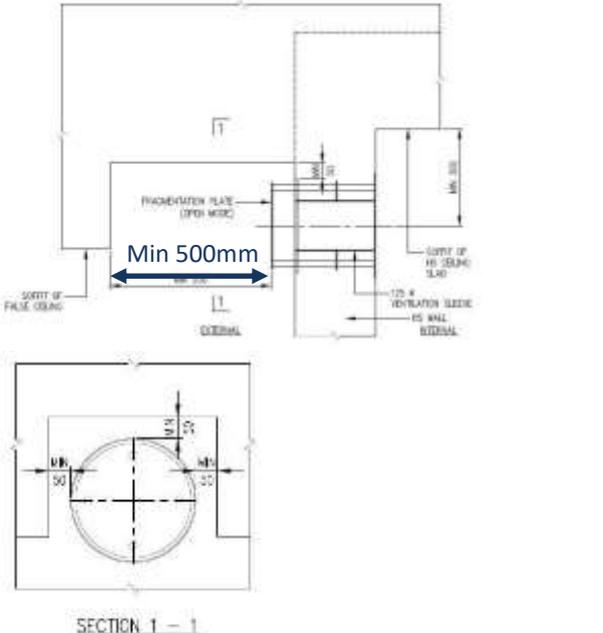
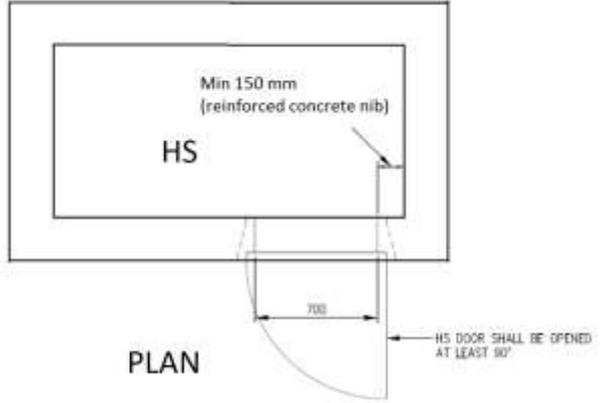
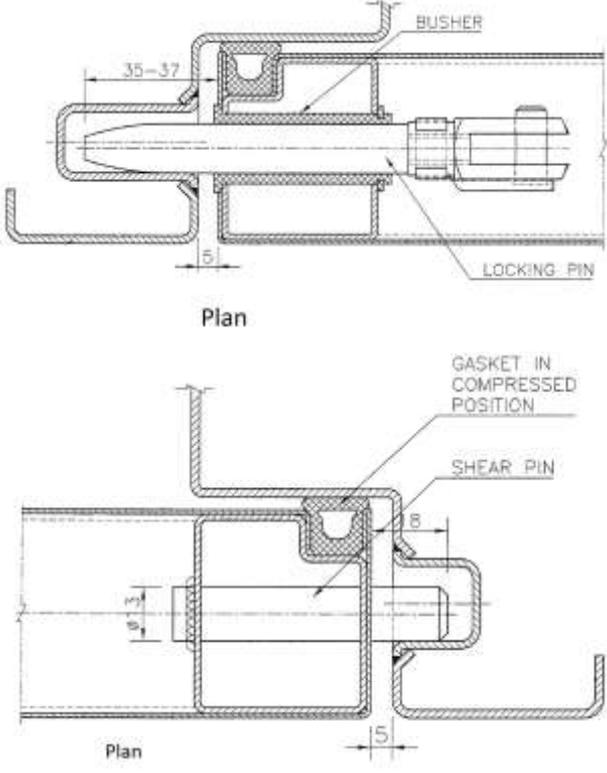


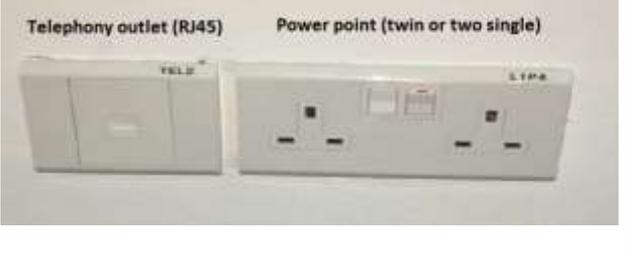
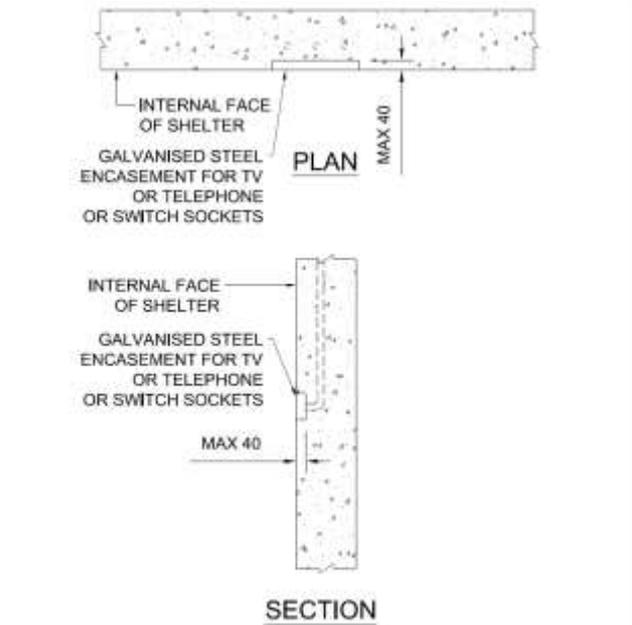
Sample checklist for Commissioning of Household Shelter (HS)

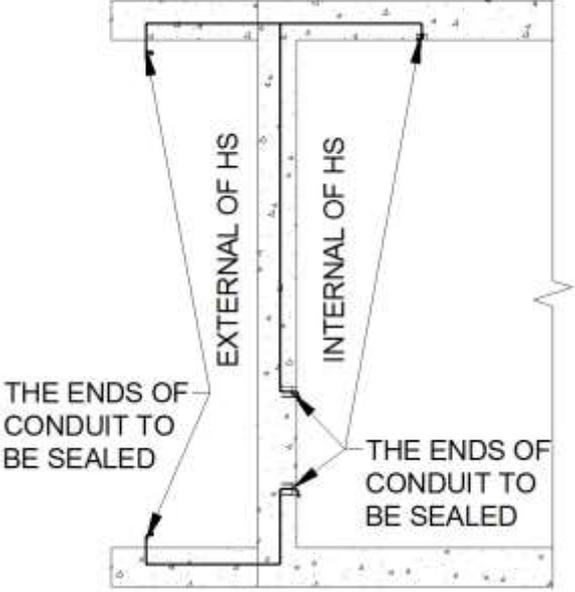
S/No	Items	Sample photos
A 1	<p>Readiness condition of HS</p> <p>To apply for commissioning inspection, building for the development must be near completion stage for TOP.</p>	<p>Overall view of building</p> 
2	<p>HS must be completed (see attached photo) in compliance with technical requirements. (e.g.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

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
<p>C</p> <p>1</p>	<p>HS Door and frame</p> <p>PLS label and HS door notice shall be pasted on the door.</p>	
<p>2</p>	<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	<p>All open ends of conduit at internal and external of HS shall be sealed with sealant to a minimum depth of 100mm.</p>	 <p>EXTERNAL OF HS</p> <p>INTERNAL OF HS</p> <p>THE ENDS OF CONDUIT TO BE SEALED</p> <p>THE ENDS OF CONDUIT TO BE SEALED</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>	

<p>2</p>	<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>The image consists of two photographs. The top photograph shows a person's hand applying a piece of chalk to the top edge of a white door frame. The bottom photograph shows a white door panel with a black seal. A red arrow points from a text box to the seal, indicating a successful chalk transfer. The text box contains the text: "Unbroken and uniform transfer of chalk marking onto door seal". Below the door panel, the text "Door panel" is visible.</p>
<p>3</p>	<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>	