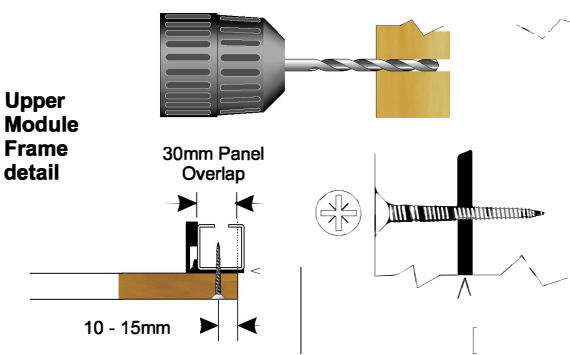


Fitting the Panels

8 Once the set of frames have been secured in position, the End, Central Connecting and Side Panels can now be fixed. Start by securing the skirting board, then the End and Connecting panels, and if applicable, the Side panels. Finally the header board is fitted. All these panels should be secured using the 3.5 x 40mm countersunk screws provided for which 3mm pilot holes will first need to be drilled through the panel and steel frame. The screw heads should leave a flush surface later covered by the Lift off Panels. **When using compact laminate panels it will be necessary to countersink the screw holes.** See Figures 16 & 17.



Note. When securing panels to the upper frame, make sure that screws only pass through the Lift off Panel Clips which ensure that all panels have a common front face.

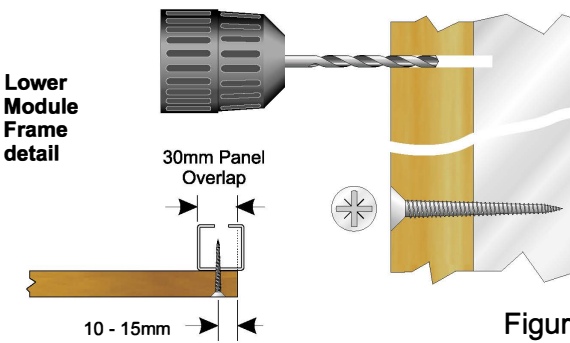
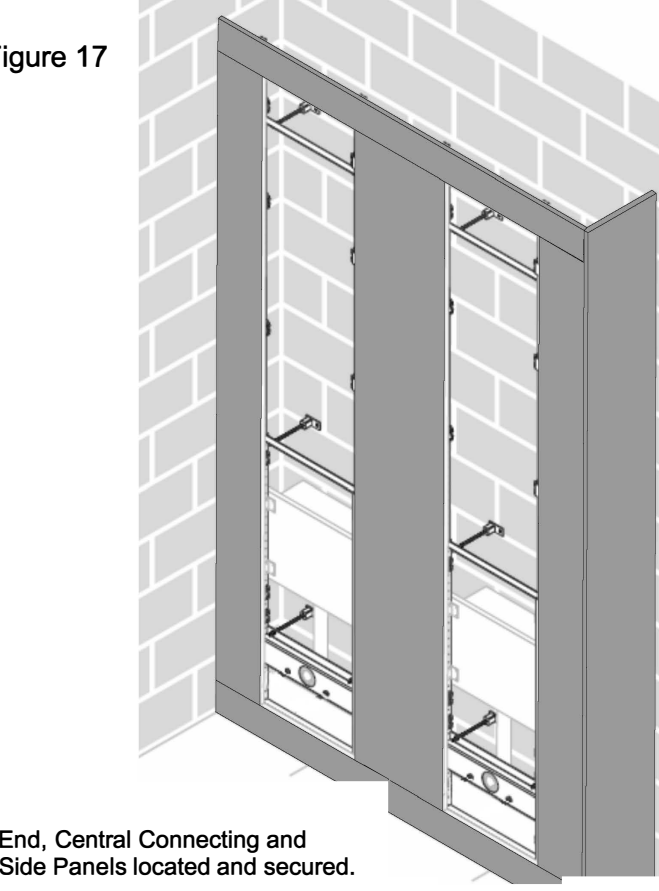


Figure 16

Figure 17



End, Central Connecting and Side Panels located and secured.

Preparing the Frame Panels for WC fixing

9 Unless already provided, make any cut outs in the Panels required for sanitary ware and plumbing connections. When using wall hung WC's it will be necessary to insert the provide threaded rods through the lower lift off panels and into the captive nuts in the frame. See Figure 18

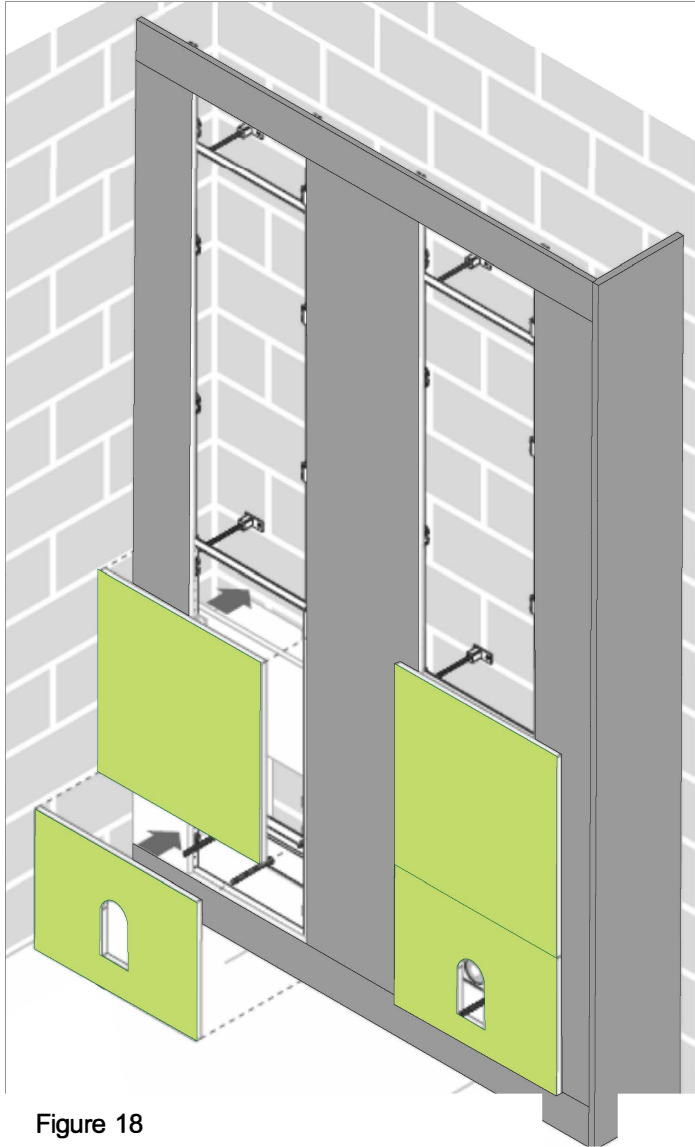


Figure 18

Installing the Sanitary Ware

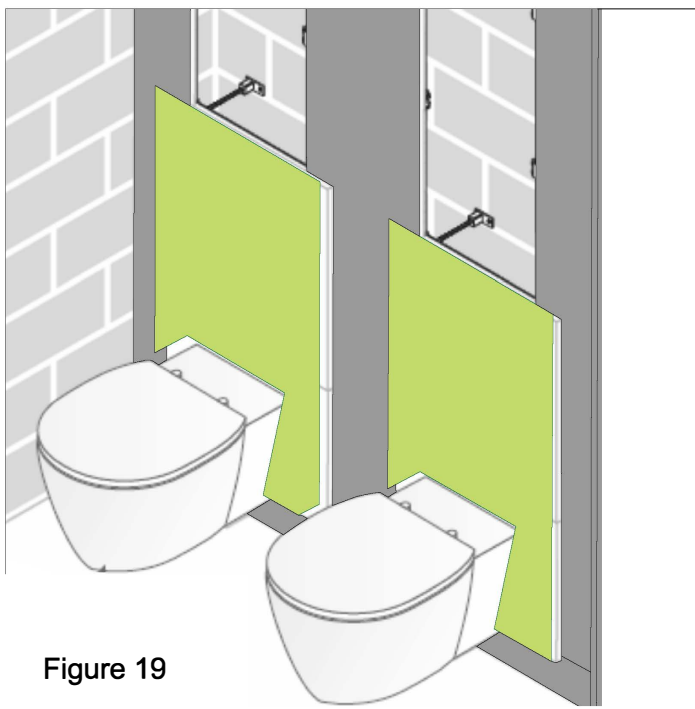
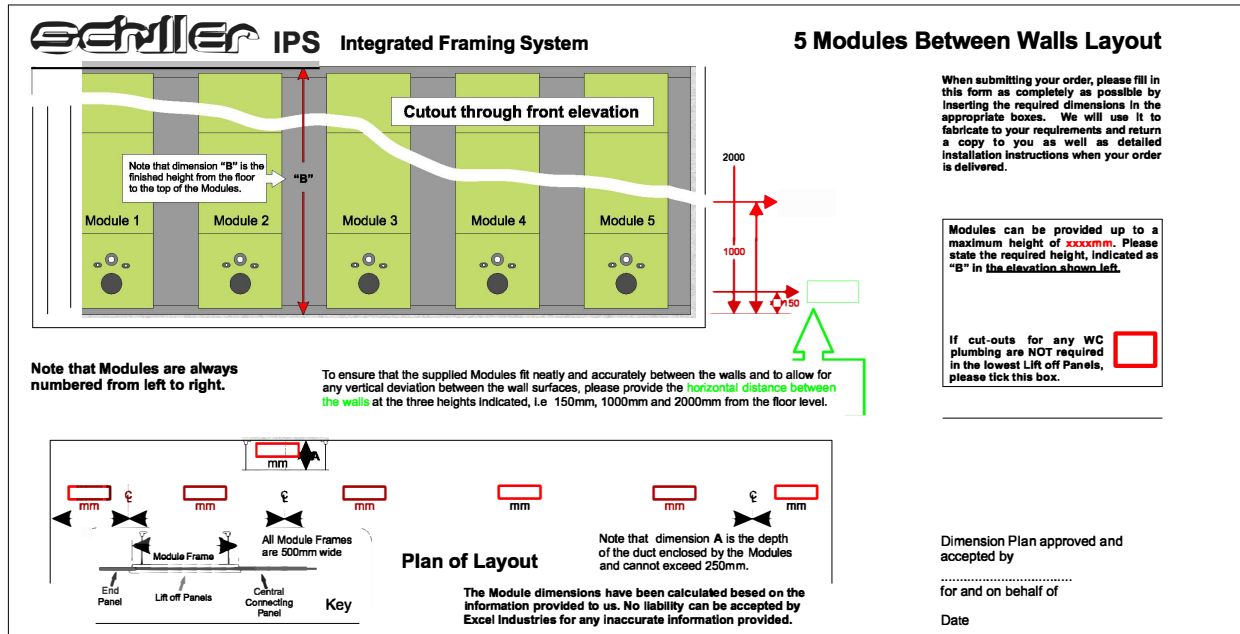


Figure 19

Supplied components for this installation are:

Module Frames Supplied as an unassembled unit with or without a pre-fitted concealed cistern. They are supplied with all the necessary Back-to-wall-Ties and supporting feet. With pre-fitted dual-flush concealed cistern. (flush plate not included) Quantity supplied	Module Frames Supplied as an unassembled unit with or without a pre-fitted concealed cistern. They are supplied with all the necessary Back-to-wall-Ties and supporting feet. Without pre-fitted concealed cistern. (This module is suitable for use with WC pans which require a cistern which will be fitted to the wall. It is suitable for use with urinal bowls.) Quantity supplied	Top Lift off Panel Quantity supplied	Middle Lift off Panel Quantity supplied
Side Panels Quantity supplied	Central Connecting Panels Quantity supplied	End Panels Quantity supplied	Header Board These may be supplied as several sections depending on the Cubicle layout Quantity supplied
Skirting Board These may be supplied as several sections depending on the Cubicle layout Quantity supplied	Bottom Lift off Panel PLAIN Quantity supplied	Bottom Lift off Panel WITH CUTOUTS Quantity supplied	3.5 x 40mm Self Tapping Screws Quantity supplied



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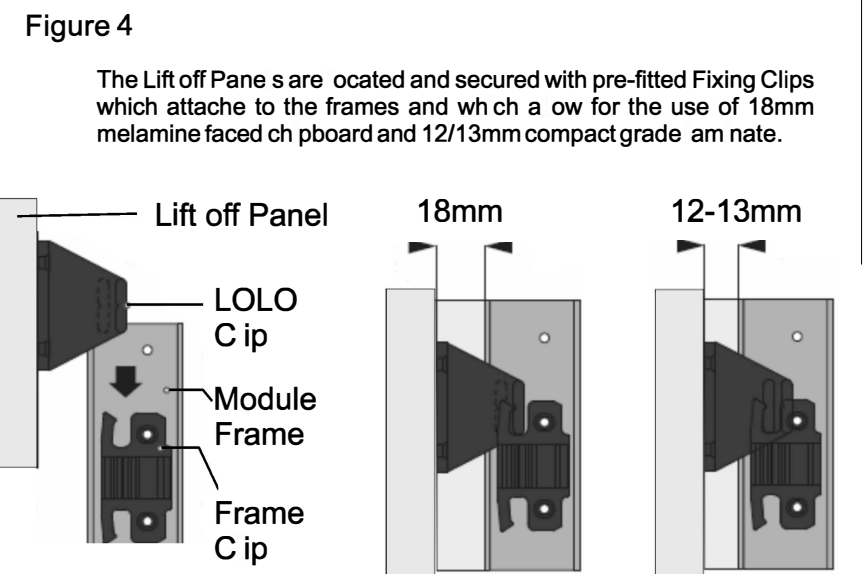
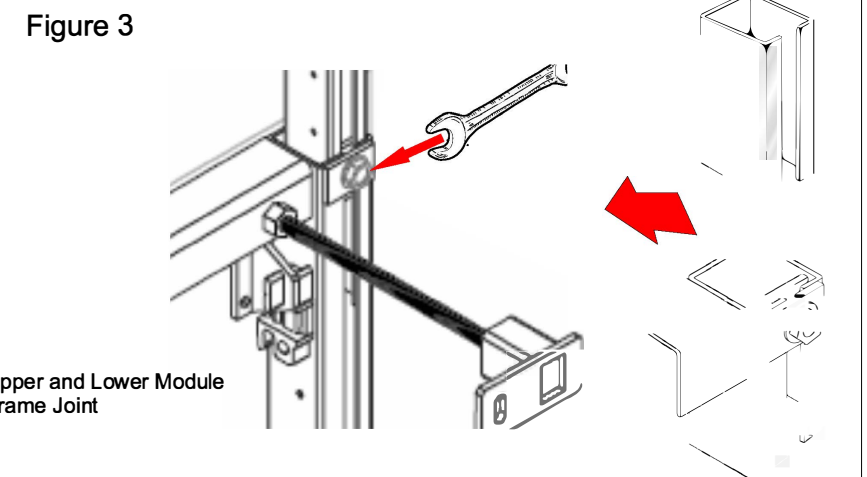
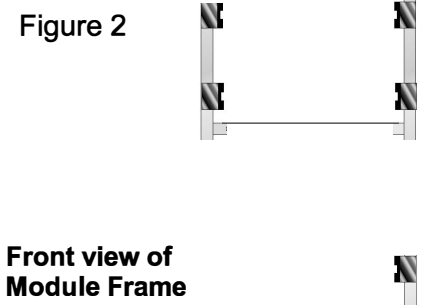
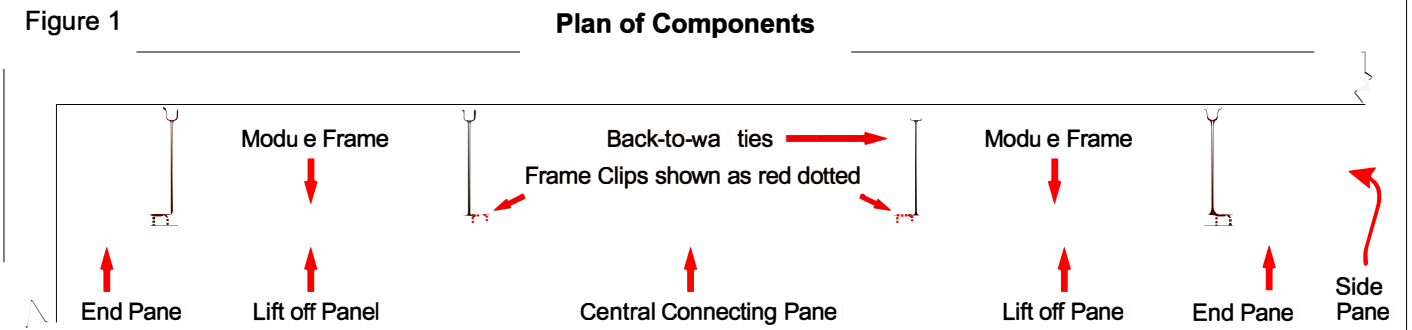
IPS Integrated Plumbing System Installation Instructions

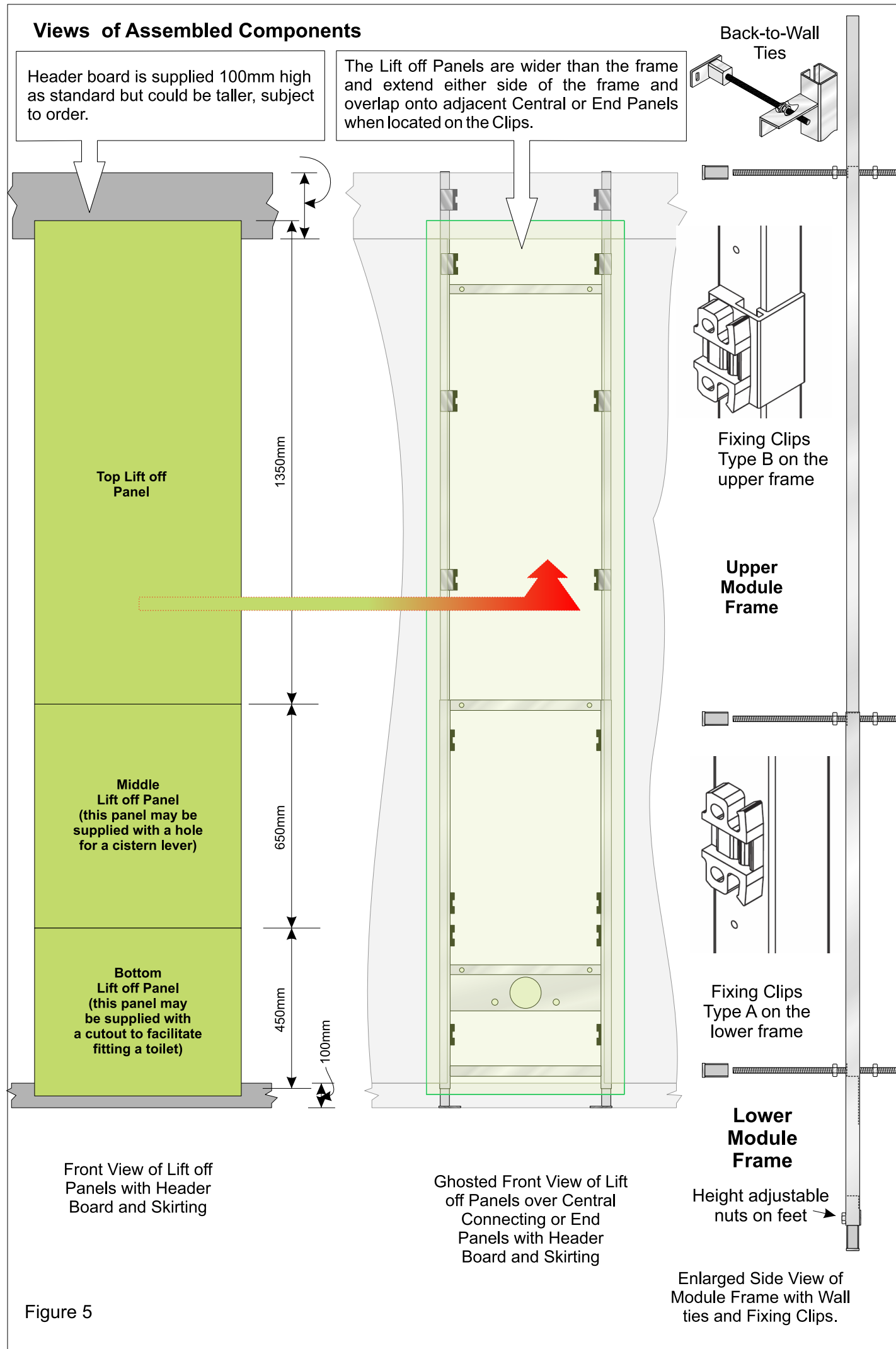
Introduction

The Schiller IPS System is manufactured from modular welded steel frames combined with laminated/MFC paneling. Consisting of a base frame and a connected upper frame, it is designed to provide an easily installed and strong framework for duct panelling and associated sanitary ware and fittings. It is particularly suitable as a frame to support wall hung WCs, while also providing a skeleton structure to which Central Connecting Panels are secured. See Figure 1. The system has been designed to take into consideration modern building needs and has been developed to accommodate a wide range of sanitary ware options including wall hung WCs, floor standing back to wall WCs, washbasins and urinals. The system may also be supplied as a plain wall to conceal services.

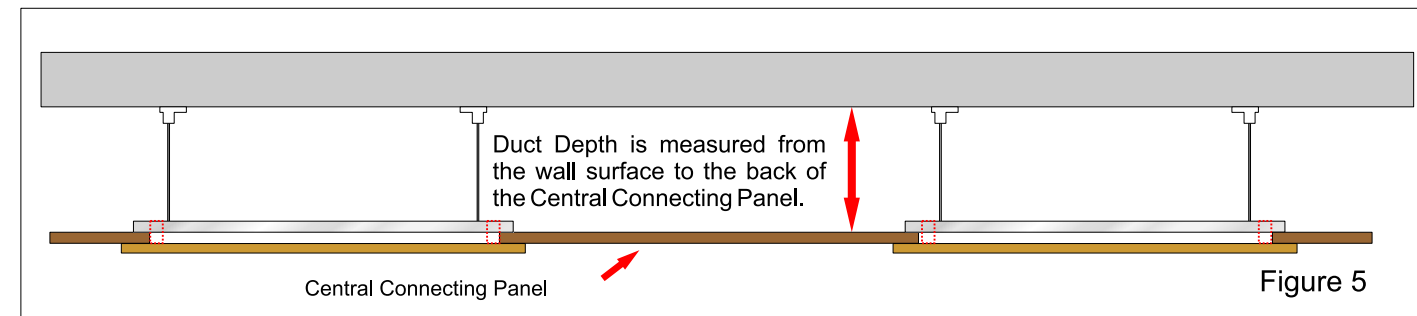
The illustrations in these instructions are not to scale and are intended to identify the correct installation procedure. Whilst just one frame is shown in most of the illustrations, the process of locating and installing subsequent frames is identical and applies whether installing left to right or vice versa.

Each module frame is 500mm wide and is supplied pre-assembled and ready for installation on site. The kits include top and bottom skirting and header boards, end panels, central connecting panels, lift off panels and where appropriate, side panels. The Lift off Panels are located and secured with pre-fitted Fixing Clips which attach to the frames and which allow for the use of 18mm melamine faced chipboard and 12mm compact grade laminate. Composite grade laminate is especially suitable for use in wet areas. Each module is available either with or without a pre-fitted concealed cistern.

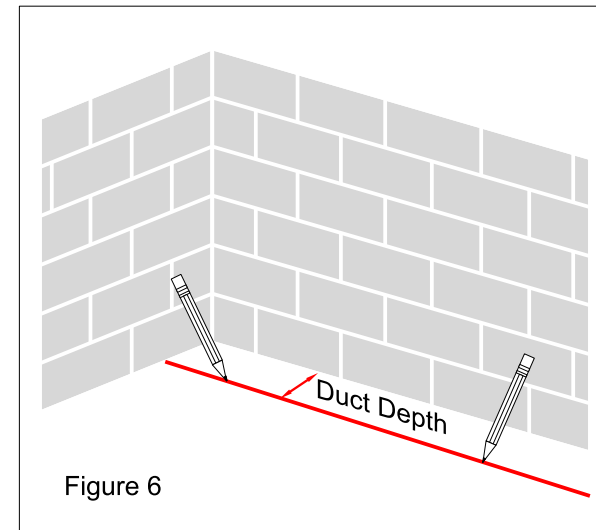




Determining the Required Duct Depth



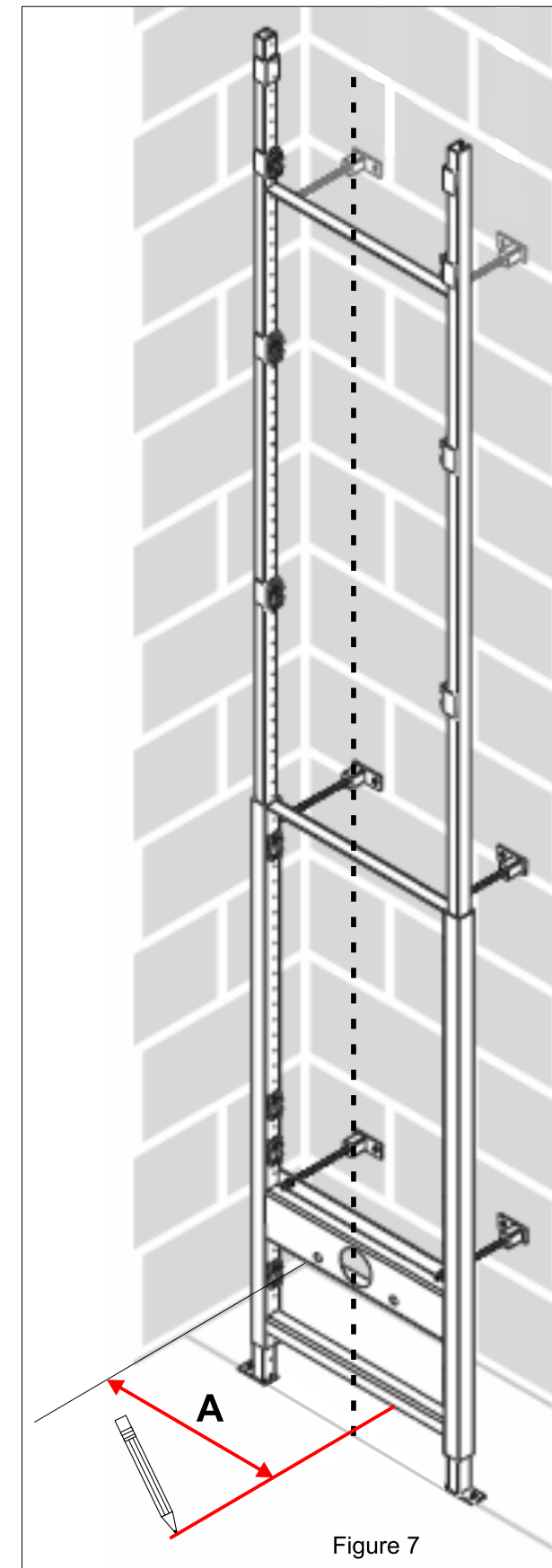
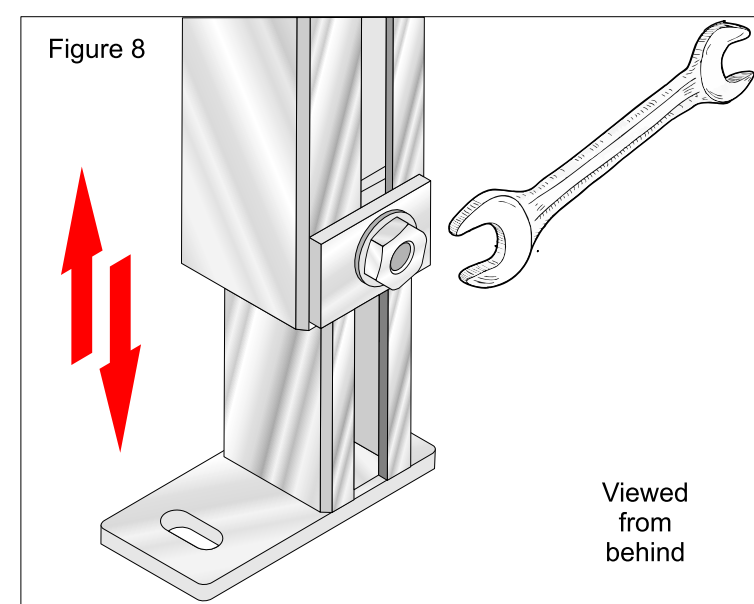
- 1 Refer to the layout drawings/plan to establish the required depth of the duct. This dimension will always be measured from the wall to the back of the Central Connecting Panel and **cannot exceed 250mm**. Make a clearly identifiable line on the floor. See Figures 5 and 6.



Positioning the Frames

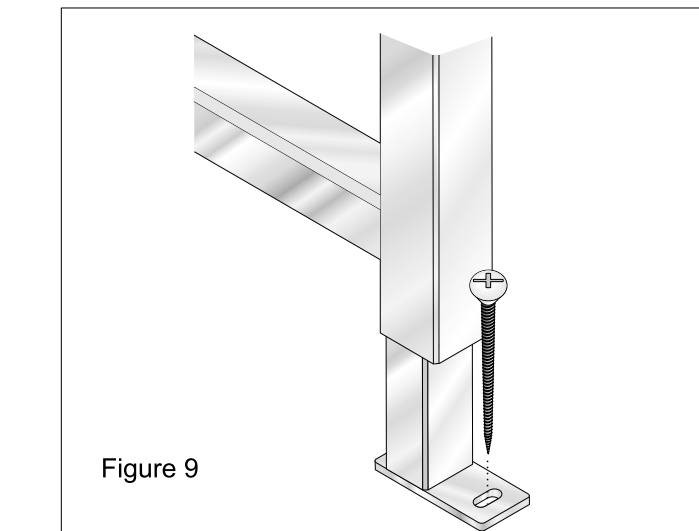
- 2 Refer to the layout drawings/plan to establish the centre locations of each frame.
- 3 Determine the vertical centre lines for the frames and make clearly identifiable lines on the floor. The first measurement is to mark the centre line of the first frame's distance from the wall as shown in Figure 7. **NOTE:** There is only one frame shown here and that the centre line distances between each subsequent frame will vary on the order requirements and be shown on the layout plan.

Note: Each Frame features height adjustable feet. These are required to offset any irregularity in the floor levels thereby ensuring that the frames can be fitted plumb. See Figures 8.

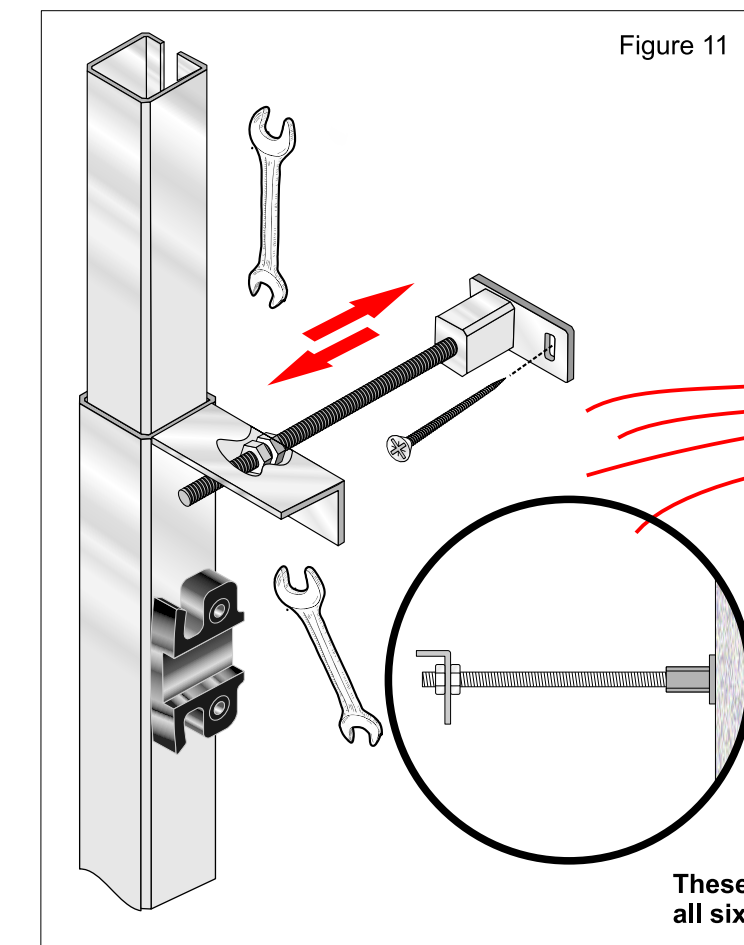


Securing the Frames

- 4 The process of securing the frames to the wall by using the Back-to-the-Wall Ties is shown here. Temporarily locate the bottom Lift off Panel by lowering it onto the Frame Fixing Clips and ensure that frame is both horizontally level and vertically perpendicular. This can be achieved by adjusting as required the height adjustable feet using an Mxx spanner. See Figure 8. Remove the temporarily located Lift off Panel to enable the next installation sequence.
- 5 With the Frame now correctly located, secure the feet to the floor with suitable fixings. See Figure 9. Note that the feet feature slotted holes to facilitate minor adjustments.



- 6 With the frame floor position determined, secure all of the Back-to-the-Wall Ties to the wall with suitable fixings and locate the threaded rods through the angled sections on the back of the Frames. See Figure 10. Note that the Ties similarly feature slotted holes to enable minor adjustments during assembly.
- 7 Adjust the depths to the required distance, remove any surplus threaded rod and tighten the nuts. See Figure 11.



These instructions apply to all six sets of the Wall Ties.

