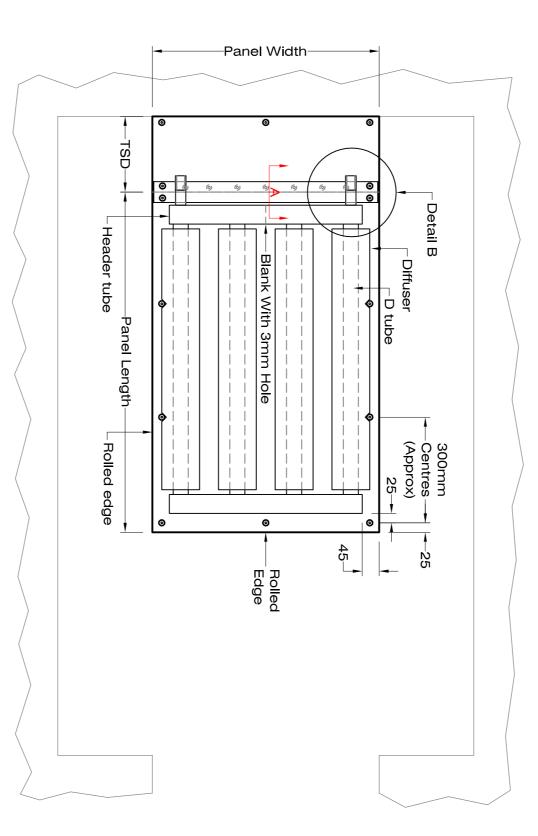
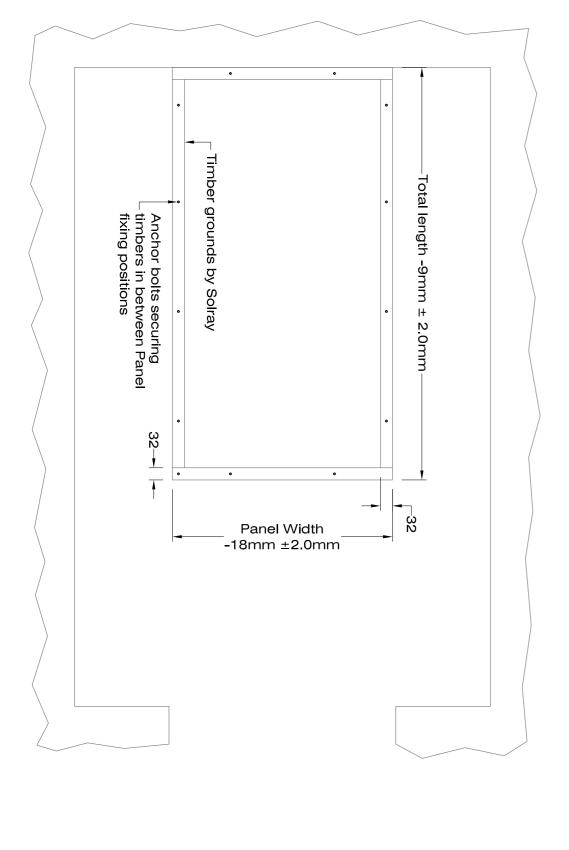


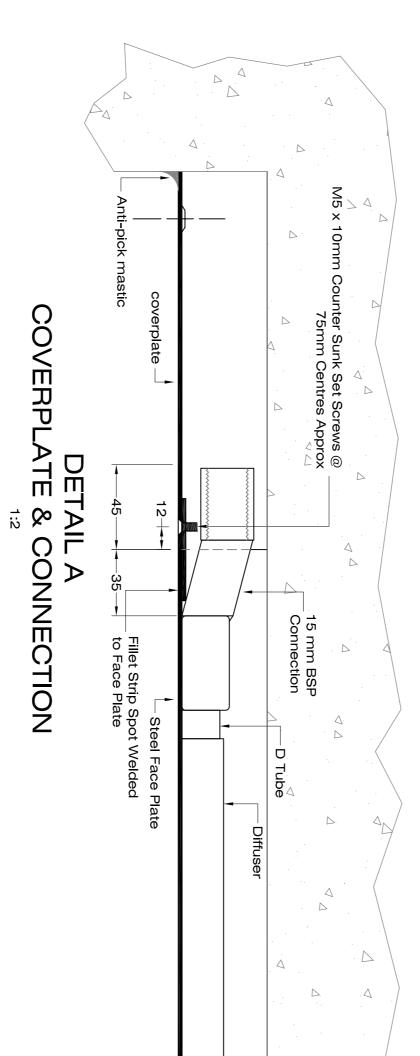
3RC1C-PS Viewed From Face

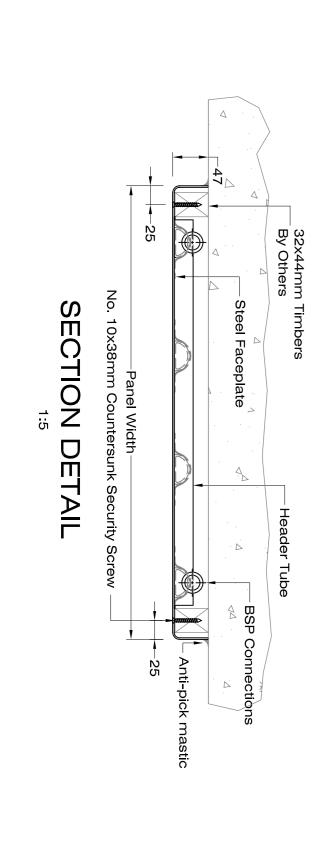


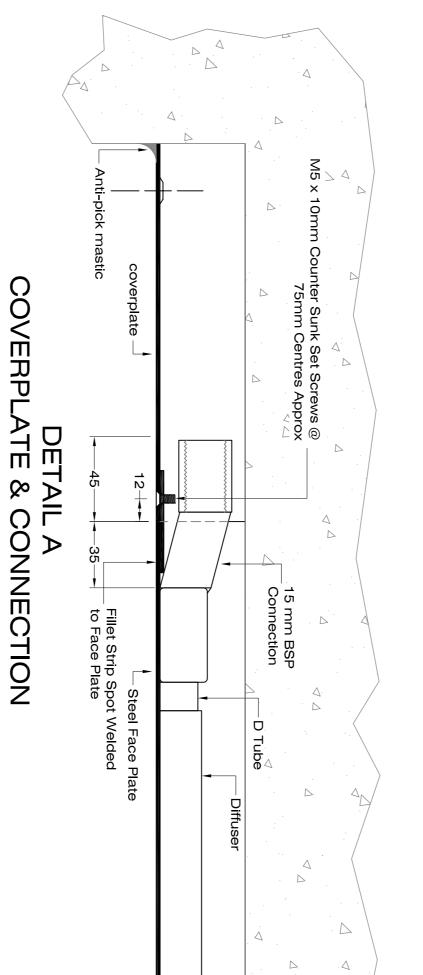
3RC1C-PS Viewed From Back



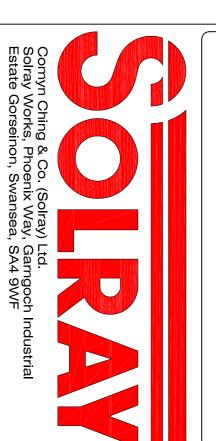
3RC1C-PS Viewed From Face







## SALES LITERATURE



**Sales Manager:** David Wing - 07768 127 643 **Estimator:** Mark Bowen - 01792 222 549 Tony Phipps - 01792 222 549

Approved Security Panel	Ministry of Justice NOMS
-------------------------	--------------------------

D. Wing G.J. Bevan NOMS Approval

awn By :

Paper

Tel: 01792 89 22 11
Fax: 01792 89 88 55
E-Mall: Address: sales@sol
Website: www.solray.co.uk

mattress.

3. Timber grounds by others to be level, straight & securely fixed.

4. Panels drilled at approx. 300mm centres along edges drilled for fixing with No.10 x 38mm counter-sunk security screws.

5. Panels to vent through connections.

6. Connections to be 150 BSP sockets.

7. Panels tested to 700kPa at works.

8. Panel mass = 40kg/m².

9. Design conditions: MWT =77 °C
AMB = 21°C

10. Cover plates to be fixed to panels with M5 x 10mm counter-sunk security screvilla. All panel timber frames should be fitted within tolerances of ± 2.0mm Solray Panels factory painted either at works to a spec primer for final painting on site by others.

Solray Panels insulated with unencapsulated 50mm gl mattress. DO NOT SCALE IF IN DOUBT ASK class '0' foil backed

15mm BSP Connection

9

- Fillet Strip

Header Tube

Side Facing Security Screws

-62.5

9

Face Facing Security
Screws

Solray Prison-Security Ceiling Panels SW 4586 Installation Instructions

Materials Supplied
The materials delivered are listed below; the quote on the delivery note for the specific job. item will be s

ity for a 2000x600 mm Son Panel with cover plate

Solray Prison-security Ceiling Panel Prison-security Cover Plate 32x44 mm timber in standard lengths M10x60 mm Anchor bolts Glass fibre insulation, 50 mm thick, foil backed No. 10x1½ Pin-hex security wood screw M5x10 Pin-hex security setscrew Pin-hex security setscrew tite aset TC4 Epoxy resin, resin & curing 6.4 m 16 1800x520 mm strip 20 13

DETAIL 1:2

 $\Box$ 

(0)

12

Arbocol 1025 Anti-pick mastic Service Questionnaire 1 stick applicator 400 cm3 in 2 plastic containers 1 tin

2. Timber grounds

Please refer to the Solray drawing for this project for installation details, the different Solray Panel edge details, and the Solray Panel & Cover Plate sizes. Mark the positions of the timbers on the ceiling:

Mark the positions of the timbers on the ceiling:

3. Rolled Panel Edges
Solray Panels have rolled edges where they do not abut a wall, to conceal the timber grounds. Timber grounds along rolled edges of Solray Ceiling Panels are fitted 9 mm inside the Solray Panel edge, so that the timber ground centre line is 25 mm inside the edge.

4. Guillotined or Flat Panel Edges
Timber grounds along guillotined or flat edges of Solray Panels are fitted along the edge of the Solray Panel, or tight to the wall.
Cut the standard timber sections supplied to the lengths required to give a complete frame around the perimeter of the Solray Panel, at a maximum of 600 mm centres. At approximately 300 mm centres, clearance drill the cut lengths of timber to accept the M10x60 mm anchor bolts supplied, ensuring the anchor heads are recessed into the timber so they do not foul the Solray Panel.

Offer up the timber to the soffit, and mark where the soffit should be drilled for the anchor bolts.

Drill the soffit with 10 mm drill bits (through the holes in the timber grounds or after removing the timber grounds as preferred).

Fix the timbers to the soffit, ensuring there is a continuous frame all-round the perimeter of the Solray Panel.

The frame must be securely fitted to the soffit, allowing no movement in its position once fixed.

5. Solray Panel

If an end cover plate has been supplied with the Solray Panel, fix this to the Solray Panel using the M5x10 mm set screws supplied.

Fit the insulation provided to the rear of the panel, using the clips welded to the

panel. Mix the Rotaset resin and curing agent, as separate instructions. The work time is 20 minutes for a 400 cm3 filled cartridge, 60 minutes for 20 cm3, both @ 20°C. Full cure is achieved after 7 days.

Lift the Solray Panel into position; pushing all edges that abut walls tight to the sushing all edges that abut walls tight to the ugh the Solray Panel fixing holes into the tin

the Rotaset applicator nozzle into the pilot holes and inject the Rotafix TC4 nto the heated Solray Panel holes (not the cover plate holes). the No 10x1½" security woodscrews supplied, fix the Solray Panel, and cover f supplied, to the timber grounds. Tighten the woodscrews using a torque 1 to 7 Nm.

Remove the cover plate to connect the Solray Panel to the heating mains, keeping all the screws with the cover plate.

After pressure testing the pipework connections, refit the cover plate, using Loctite 248 thread locking compound (see separate instructions) on the M5 setscrews fixing the cover plate to the fillet strip of the Solray Panel, and Rotaset resin on the woodscrews as for the heating Solray Panel woodscrews.

Fit the woodscrews on the side edge of the Solray Panel at the cover plate joints to ensure the joint is held together even under attack, using Rotaset resin as for the heating Solray Panel woodscrews.

Lightly touch the screw heads with the touch-up paint supplied to give a good appearance.

Do not fill the screw head recesses up with paint, since this will cause problems if ever the Solray Panels had to be removed.

Apply anti-pick mastic to all gaps between the Solray Panel and the ceiling and/or walls (this is only necessary for uneven ceilings and walls.