

Installation of the Howe Green **5000/7500/1050** Floor Access Covers

» PREPARATION

Covers are supplied ready for installation internally without further preparation. In external locations, or those that may be permanently wet, all aluminium surfaces in contact with concrete should receive two coats of bituminous paint.

» SINGLE COVERS

- 1 The cover should be placed into the outer frame and securing bolts screwed in (finger tight only) if applicable. The spacers provided should be placed into the joint between the cover and frame to maintain a 1 mm joint.
- 2 If the units are from the stainless steel range there will be some anchor lugs fitted to the outer edge of the outer frame that require bending to 90° from the frame and then twisting 90° before installation.
- 3 The whole assembly should be bedded down to the correct level. Haunch mortar up on outside of outer frame to prevent any possible distortion of outer frame when surrounding floor finish is laid.
- 4 Leave the bedding mortar to cure, then complete the surrounding floor finish.
- 5 The cover should now be filled without removing it from the outer frame. (Note that the design loading and if applicable, fire resistance, can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa.)
- 6 When properly set, remove cover and clean, taking care not to damage any seals. Make good pointing to the underside of the outer frame. Replace cover.

» DUCT COVERS

- 1 The outer frame will be either of one piece construction if size permits, or sectional if large. If it is sectional several covers may have been screwed into the outer frame sections (loosen so finger tight only) to pre-space to the correct span dimensions if possible. If the unit incorporates steel beams, the beam receiving pockets (if not already attached to the outer frame) should be fitted using the screws provided. Fix stop ends to the end of the outer frame section with connecting spigots supplied. These are only for the purpose of locating one length of outer with the next and are not intended to provide a full strength joint

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FLOOR ACCESS

- 2 Fix anchor lugs to the outside edge of the outer frame by crimping with pliers at approx. 600mm centres. If the units are from the stainless steel range there will be some anchor lugs already fitted to the outer edge of the outer frame that require bending to 90° from the frame then twisting 90° before installation.
- 3 Place all of the removable cross members into position (if fitted) then bed frame down to correct line and level (if the frame is sectional, working away from the stop end) making sure that the frame remains straight and is not distorted in any way. If universal beams are incorporated they require levelling by placing epoxy packing mortar between base of beam pocket and loose beam seating plates supplied.
- 4 As work proceeds, place loose covers into duct frame to check that the gap between the outer frames is correct making sure that spacers supplied are used between cover and frame to maintain a 1mm joint.
- 5 When the outer frame is properly set, remove any "spacer" covers that have been screwed into the outer frame and place in correct position in the duct frame along with all of the loose covers making sure that spacers are used to maintain a 1mm joint between the cover and frame, and bolts (if fitted) are screwed in loosely. The covers may now be filled and the floor finish to the outside of the outer frame completed, again taking care not to distort either the cover or the outer frame sections. Larger span covers may require propping from below to prevent distortion caused by the weight of the wet concrete infill. (Note that the design loading and, if applicable, fire resistance can only be achieved if the infill is equivalent to the 28 day cube strength of OPC concrete of 40 MPa.)
- 6 When properly set the covers should be removed and cleaned, taking care not to damage any seals, the joint between the cross members (if fitted), and the outer frame should be sealed with mastic.

» LIFTING/MAINTENANCE PROCEDURES

- 1 Remove all bolts from the lifting points using key provided.
- 2 Screw in by at least 12mm a lifting key into each lifting point. A lifting device should be used where the weight to be lifted exceeds the Manual Handling Operations Regulations 1992.
- 3 Lift out cover without dragging across outer frame to avoid damage.
- 4 Clean thoroughly both the seating and cover checking the condition of the double base seal and intumescent seal if fitted, also checking the top edge dirt seal. Then re-treat the underside of the cover with Waxoyl or similar inhibitor if required.
- 5 Replace cover carefully and insert all securing/plug bolts taking care not to over tighten.

Should any of the seals or bolts be damaged or missing they are available for replacement

These details are intended as a general guide to correct installation but site practice may be varied to suit the design of the tile grid, the type of wall construction etc.

If required, further advice is available from the Howe Green Technical Department

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