

# TECHNICAL DATA SHEET

## DS 085

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QCF 56 Issue 3

PAGE

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ISSUE

1

DATE

19 July 2006

APPROVED

M.T.P.

TITLE.

Installation Instructions for Self Assembly Inertia Pouring Frames Type SA

Details of Isolators as Leaflet PL015

### General Notes

The frame is supplied partially assembled but in order to complete the installation you will require the following additional materials:-

- A polythene separation sheet to facilitate base separation once the concrete has been poured and allowed to cure. This should be a minimum of 100 mm larger on all sides than the IPF size with a thickness of 500 to 1000 microns.
- Concrete infill with a compressive strength of at least 16 to 20 N/mm<sup>2</sup> (C16/20).
- A minimum of four hydraulic toe jacks with a rating of one tonne or more.
- Wooden or steel supporting blocks with a typical thickness of up to 50 mm.
- Suitable isolators i.e. open springs, enclosed springs or rubber turret mountings. Refer to individual Christie & Grey leaflets for further details.

### Assembly Instructions

- Lay out the polythene sheet in the required installation position. Ensure the surface is level, clean and free from debris. If the area is uneven or undulating, it may be necessary to first lay down a plywood sheet to ensure the polythene provides an effective seal around the frame perimeter to prevent percolation of concrete when being poured.
- Assemble the four sides of the frame with the bolt heads on the outside of the frame (See Figure 1). Only fully tighten the nuts when all the matting sides are aligned and little or no gaps exist between the frame sections and the polythene separation sheet.

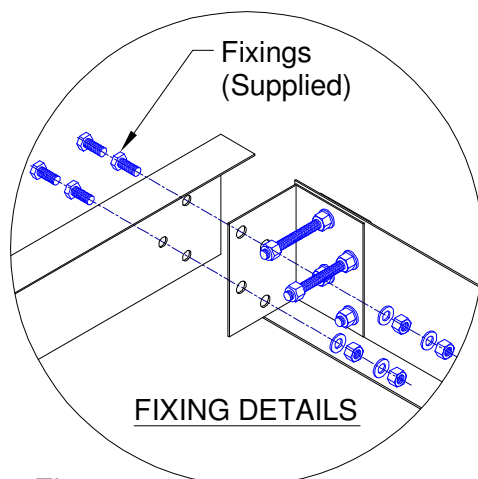
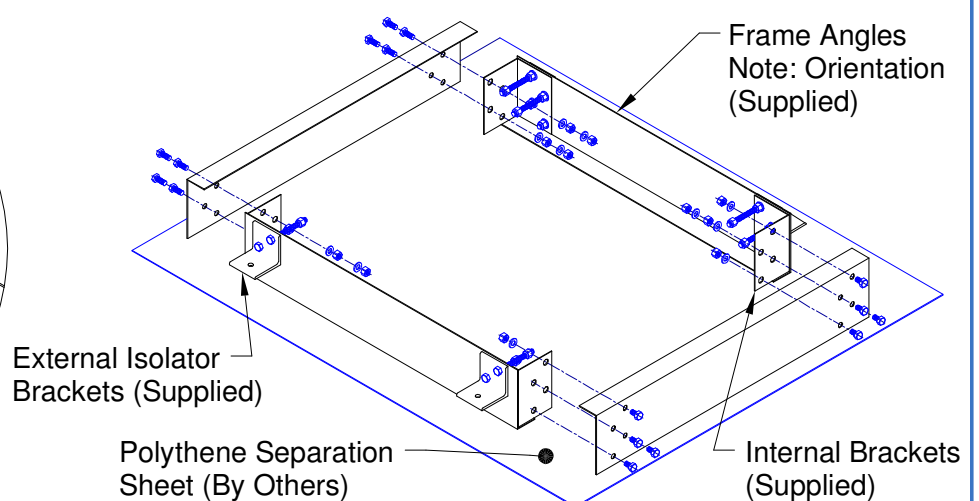


Figure 1



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- 3) Multiple frame sections should be typically assembled as previous procedure 2 (See Figure 2). Note: inertia pouring frames must be assembled and cast in their working position.

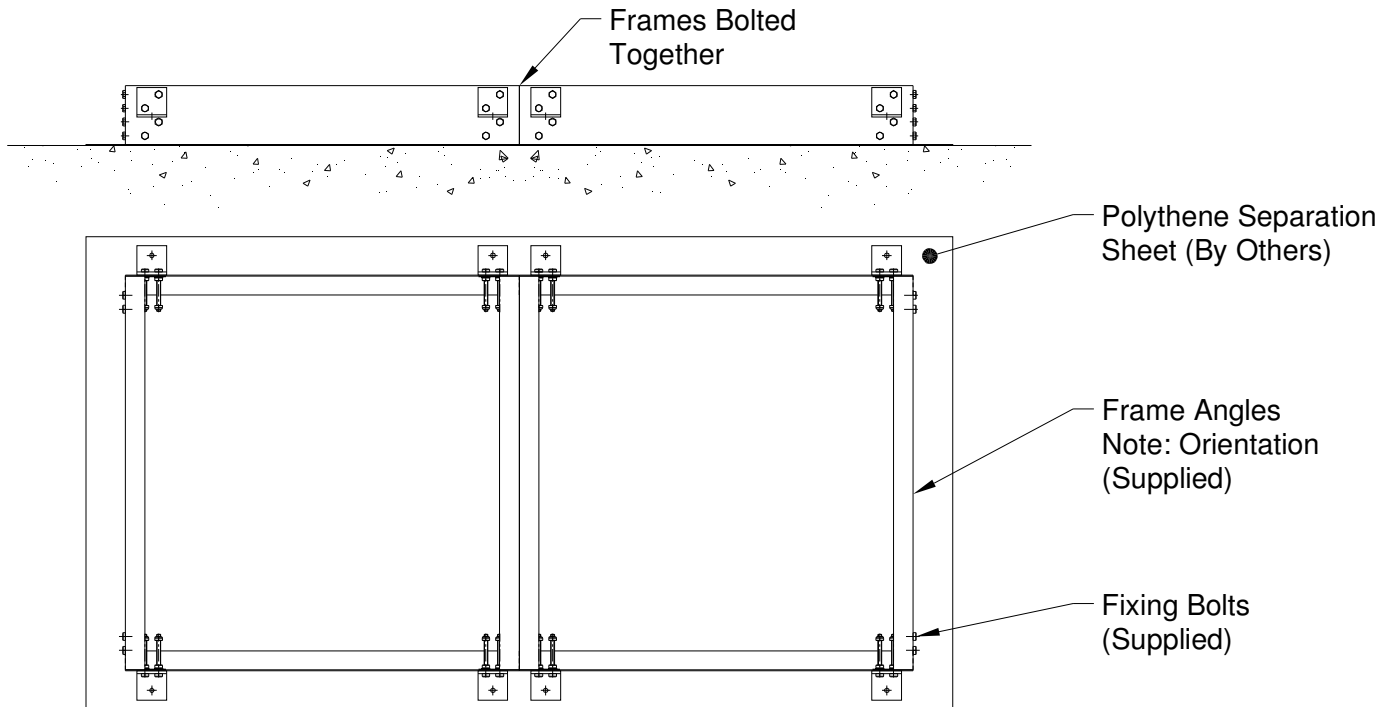


Figure 2

- 4) Once the sides of frame have been assembled the mesh spacers can be positioned inside to support the reinforcement bar intersections at approx 200 mm centres (See Figure 3).

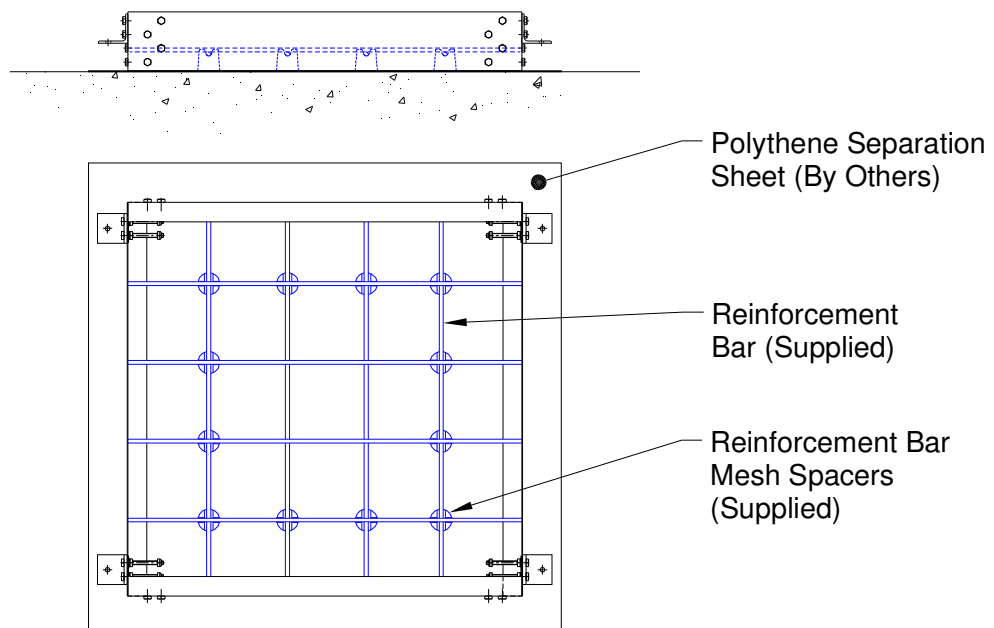


Figure 3

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- 5) The concrete mix can then be poured into the frame. It is important to ensure that the reinforcement mesh is not displaced and no air pockets exist around corners and edges. Tamp or trowel the top surface to provide a smooth finish.
- 6) When the concrete has cured sufficiently (minimum of 72 hours) the equipment or machine can then be securely fixed to the upper surface using suitable expanding type bolt fixings. Note: it is important that the centre of gravity of the equipment or machine is positioned vertically above the centre of gravity of the inertia pouring frame (See Figure 4).

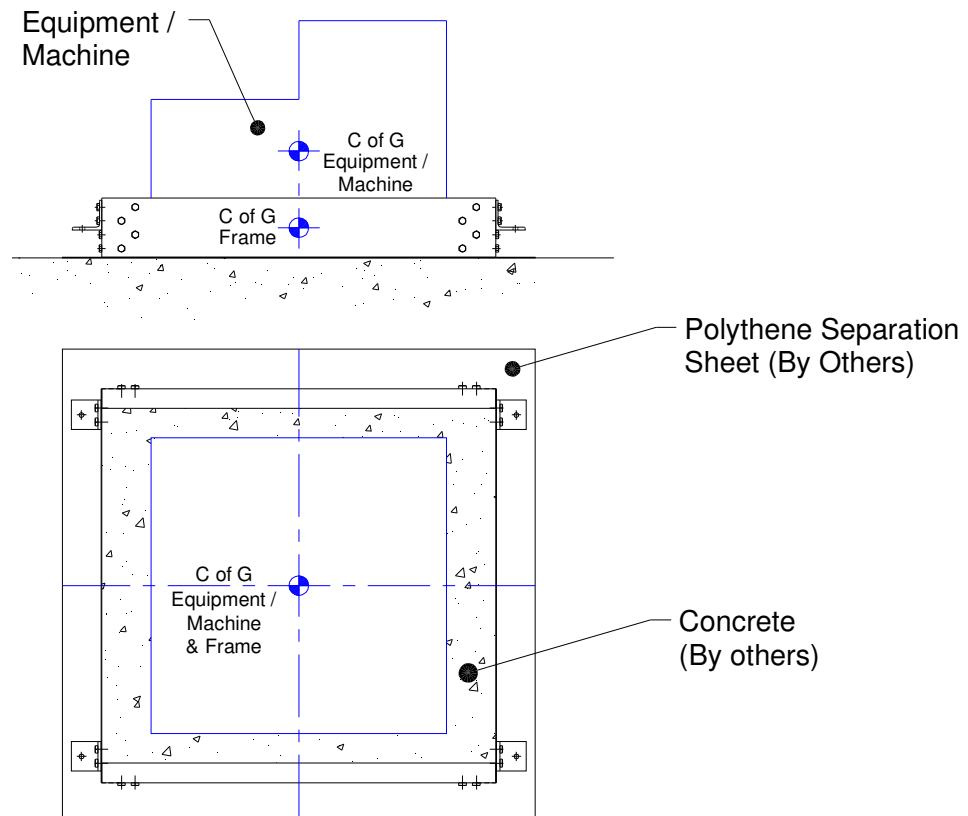


Figure 4

- 7) The frame should now be lifted using a minimum of four hydraulic jacks (more are required for large sectional frames) positioned under each frame bracket and intermediate positions if required. The jacks must be raised simultaneously to ensure that the frame remains as level as possible during the lift. Once clear of the floor the polythene sheeting must be removed and the frame lifted to a height so that the selected isolators can be positioned under the supporting brackets. Wood or steel blocks correctly sized to fit the gap under the frame must then be positioned evenly around the frame to provide a level and solid support (See Figure 5). Once this has been achieved the jacks can be removed.

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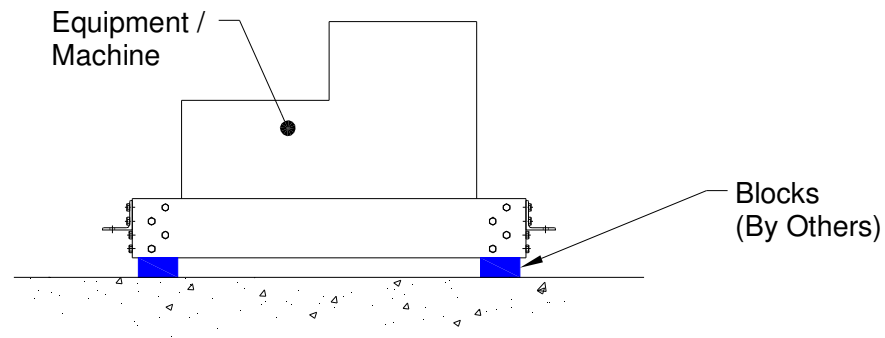


Figure 5

- 8) The selected isolators can now be installed and the top screws adjusted or shimmed to the underside of the supporting brackets. The hydraulic jacks can now be repositioned and raised sufficiently only to remove the blocks. The jacks can then be lowered and removed, whereupon the isolators will take the full load of the equipment and inertia base weight (See figure 6) .

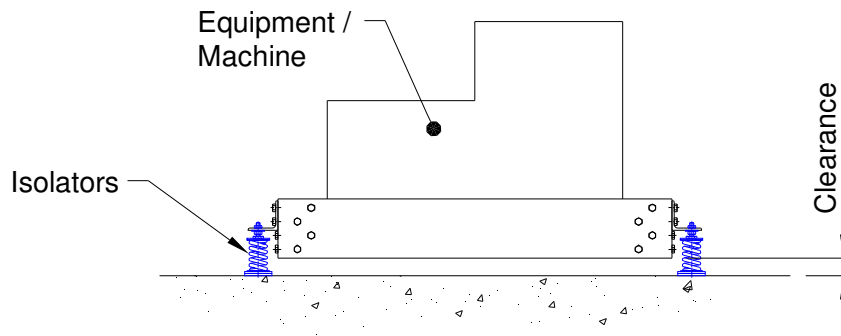


Figure 6

- 9) Further adjustment of the isolators may be necessary in order to achieve a level installation and required clearance beneath the frame (refer to the relative isolator installation instruction data sheets). It is important that all connections to the isolated equipment be flexible in order to prevent a short circuit or transmission of vibration to the surrounding equipment or structure.

Please contact our Technical Department at the address below if you have any problems relating to installation or selection.



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