

## Containerised Switchboards

The use of ISO containers to house high current switchboards can bring benefits in applications such as Civil Engineering or Mineral Extraction in remote or extreme locations, Temporary Camps for humanitarian or military use, and large scale Outdoor Events or Festivals. In addition to simplifying transport arrangements, containers allow switchgear to be installed in a controlled atmosphere and provide physical protection for equipment and operators.

Containerised boards are designed and made to order and the Blakley Project Team are available to attend planning meetings to discuss detailed requirements. In addition to the main switchboard, containers typically incorporate a side personnel door (in addition to the main double doors); integral lighting, heating and forced ventilation; and small power outlets with RCD protection. Other equipment can be incorporated as required. Facility is usually provided for the internal auxiliary equipment to be fed from the main switchboard within the container or from an external source (when the assemblies are in long term storage).

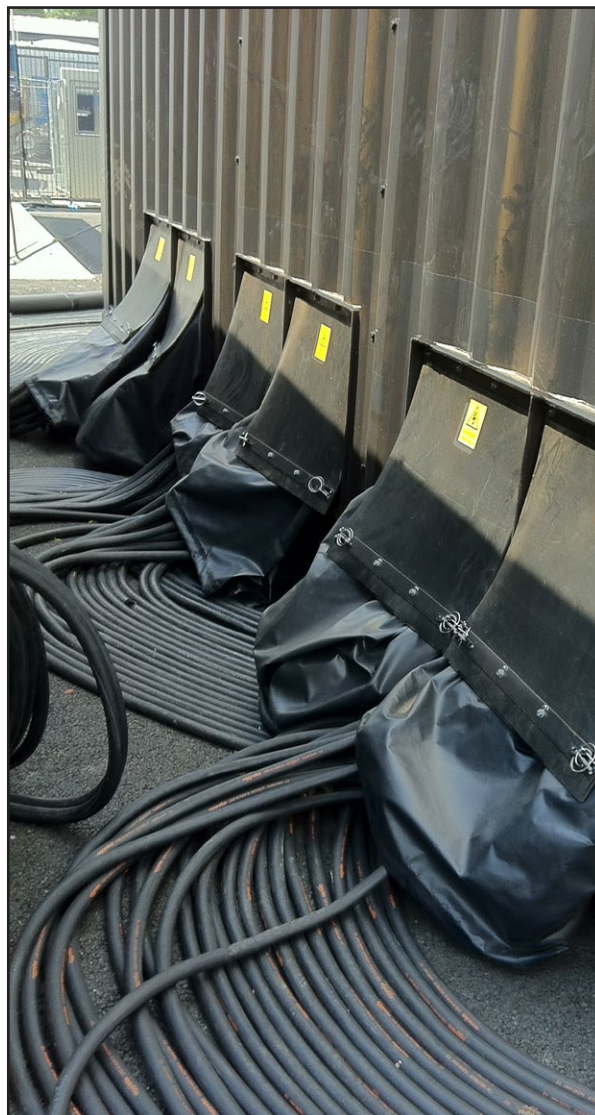
The switchgear to be incorporated is job specific. The assembly featured incorporates 4 no. 2500A 4P ACB incomers feeding a bus bar system rated at 7400A. On the outgoing, 2 no. 3200A and 3 no. 2500A 4P ACB feeders are incorporated. All of the ACBs incorporate L, S, I and G releases, providing adjustable overcurrent, short circuit and earth fault protection.

Cable entry and exit is usually through the side of the container and the glanding and termination arrangements are tailored to the specific job requirement. In the example illustrated, each ACB has the facility to terminate 10 no. 240mm<sup>2</sup> flexible cables per phase. It should be noted that modifying the body of an ISO container invalidates the CSC certification, which restricts the modes of transport that can be used, unless the container is re-certified.

Please see overleaf for a general arrangement drawing of the featured 7400A Ceremonies Switchboard.



Internal and External Views of 7400A  
Ceremonies Switchboard



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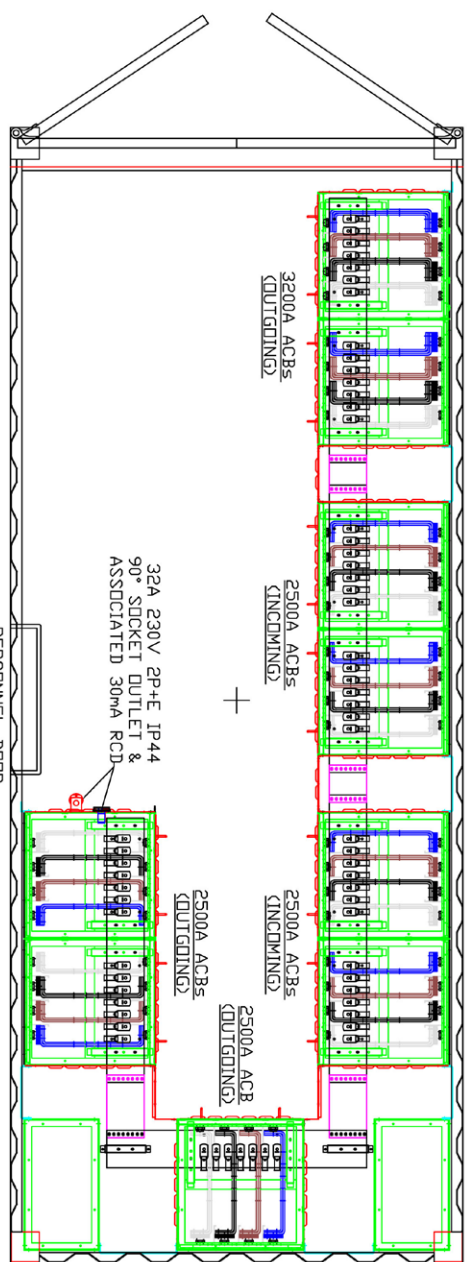
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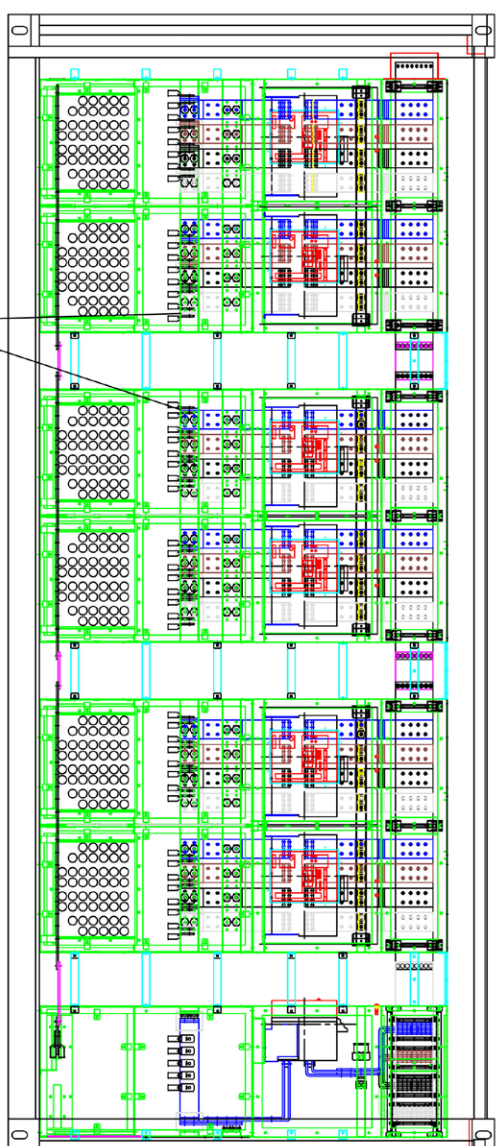
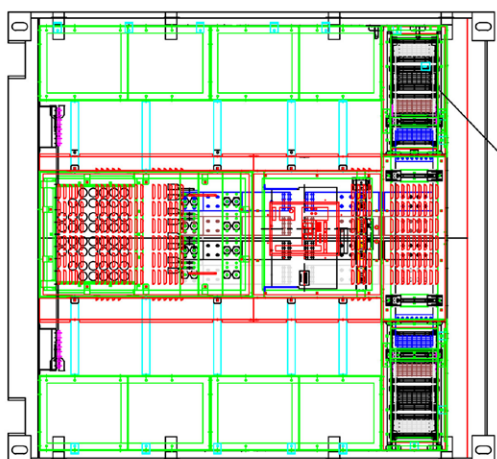
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7400A 70kA BUSBAR SYSTEM



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