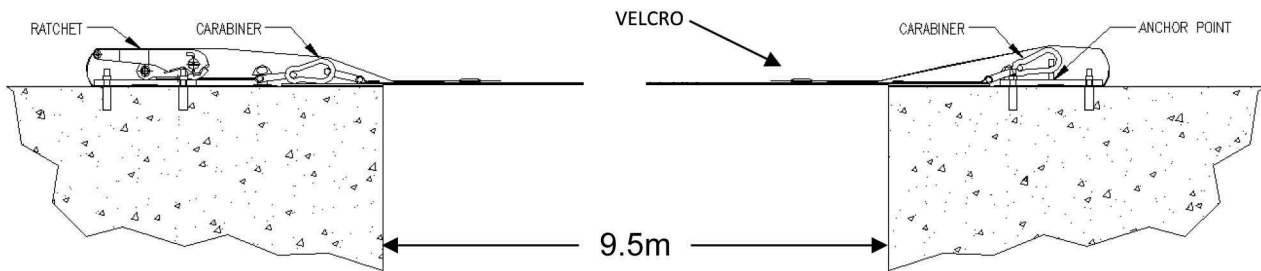


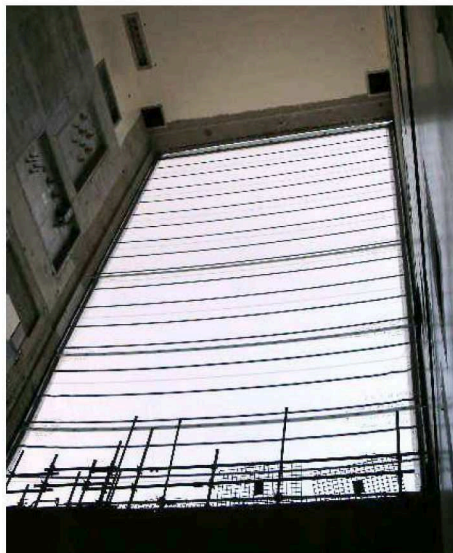
Temporary Construction Access Openings (TCAO)

Peers were challenged with providing temporary weather protection to five large cell rooms during the construction process (TCAO). As part of the clients brief the covers needed to be easily taken down and reinstated to allow for multiple key kit installation dates with extremely tight time slots.

Ten different solutions were investigated ranging from cladding panels to roller shutter doors and roman blinds. The final design was similar to that seen on the side of a conventional side loading wagon but using much more heavy duty materials. The make up of the covers were 5.0T SWL horizontal nylon straps at 750mm centers sewn into a Panolite (Nylon reinforced PVC) covers. Every nylon strap was anchored at each side of the opening with a base plate and a tightening ratchet to one side to create the required tension across the strap.



Typical Cover Showing Sealing Sheets



Key Points

- Covers are quick and easy to erect and take down.
- Minimal equipment needed due to the nominal weight of each (Largest cover was 26.0mx7.5m and weighed only 235Kg)
- Each cover was split into manageable sizes to aid fabrication and erection, this also allowed smaller pieces of kit to be installed without the whole cover being taken down.
- Each edge of the covers was sealed from the elements with sheets of the same PVC material that were fixed under base plates and attached to the covers by Velcro. These sealing sheets are tied back away from the opening during the kit installation.
- Covers were designed to resist wind speeds of up to 110mph.



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