

Demolition work within existing buildings

Any demolition work is an inherently dangerous and risky business. Carrying out demolition activities within an occupied operational building offers even more problems.



Two 4.6m x 4m roof construction accesses with hydraulically operated doors were provided through the existing beam and pot roof of the building to facilitate the safe removal of demolition material away from an occupied operational building and a congested and heavily trafficked area on the ground. These openings were programmed in to the construction activities and provided both a safe opening and closing mechanism and a quick method of weathering.

Approximately 110 tonnes of steel and 380 tonnes of demolition hardcore was removed safely through these construction accesses. They have also provided a means of access for new air handling units, pipe work, scaffolding, and a new steel floor. In addition they now serve as a permanent access to the plant rooms for future maintenance or the installation or removal of equipment.

Some of the benefits using this initiative were:

- No disruption to operational activities below
- Safer removal of debris than traditional methods.
- Speed of removal of demolition debris offering not only time, but also cost benefits.
- Safer access for future plant installation
- Safer access for future plant maintenance/removal
- Openings are re-usable

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