

Special Survey Tool

The Problem

Peers were successful in securing a new walkway installation project which required steelwork to be fitted to cast in sockets (DEHA inserts) in restricted space corridors. A survey was required to establish the level and line of each socket so that the steelwork could be accurately fabricated. Any sockets cast in more than 2 degrees out of line required special tapered packs/washers to be provided.

The Risks

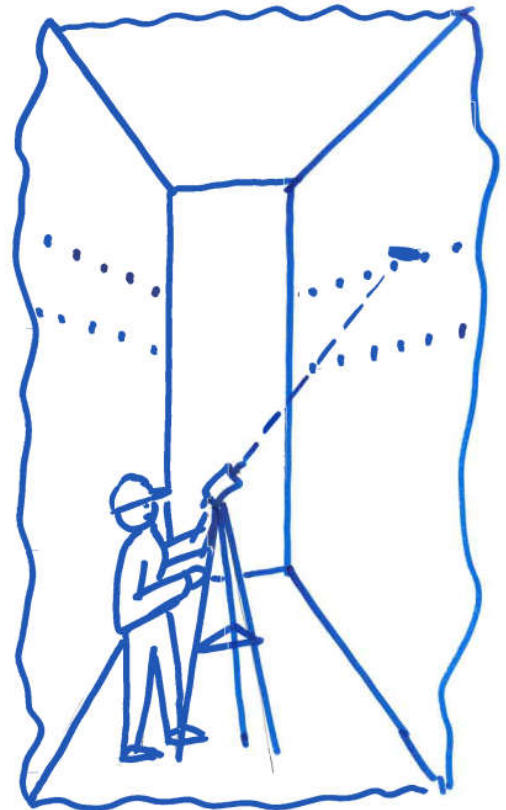
Incorrect survey information would lead to none fitting steelwork. The site was extremely high security and site modifications were not an option. The quality control was also the highest level so none fitting steelwork would be expensive to replace and cause potential delays to the programme.



Side View of Survey Tool



Front View of Survey Tool



Survey showing insert

The Solution

To help with the accuracy and speed of the survey Peers lead project manager, with the help of Preston University, created and produced a specialist survey tool which could be screwed into the cast in sockets making surveying much easier and quicker.

Key Points

- Two targets were provided on one face for the surveyor to target.
- The targets were set dimensions from each other and the wall.
- The target face pivoted to allow easy sighting.
- The insert was machined to match the cast in sockets.
- Half a dozen survey tools were produced to allow multiple readings to be taken at one time.

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