Preformed Sleeved Service Penetrations in Composite Wall Panels

The Problem / Challenge

The traditional way of installing services through the perimeter wall would be to make penetrations to suit as the plant is installed.

The Risks

By forming penetration into an existing wall it can cause undue damage to the wall thus arising in oversized openings that would be sealed using unsuitable materials (large amount of mastic). This causes unsightly finishes and potential for thermal, acoustic and in some cases fire issues with the external fabric of the building.

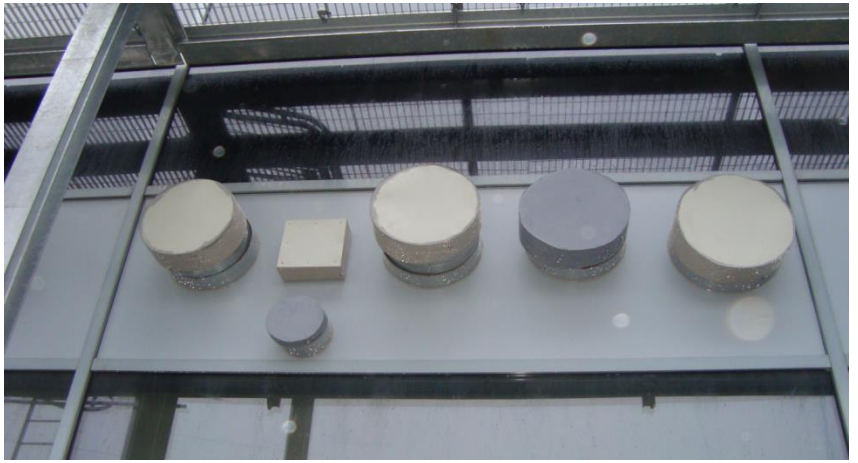
The Solution

By preplanning the design and developing a modular approach, using BIM, penetrations can be made ahead of the plant deck and plant installation. Regular composite wall panels have been replaced with prefabricated panels incorporating sleeves and spigots for service connections.

The Benefits

- Safer, speedier and more controlled construction of service penetrations through existing building fabric.
- Safer access to existing building fabric for alterations and panel replacement.
- Prefabricated panels with predetermined penetration locations.
- Prefabricated panels designed to replace existing panels in walling system.
- Allows plant room structure to be erected without further work to envelope.
- Allows safe installation of services through preformed penetrations.
- Pre –fabricated penetrations in panels provide a waterproof solution

Preformed Penetrations



Temporary Penetration Covers

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