

Mechanical Envelope Maintenance Systems

The Problem / Challenge

Cleaning and maintaining glazing to elevations at high level in a safe manner

The Risks

- Falls from height due to unsuitable systems or inappropriately designed building fabric.
- Systems of work that require high levels of supervision for their effectiveness are susceptible to human error.
- Falling objects can obviously endanger lives.

The Solution

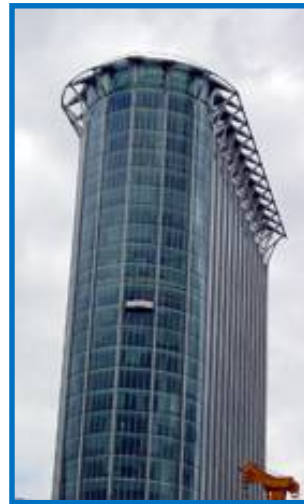
Early consideration of cleaning options should be made in relation to building form, scale and site constraints. Careful selection of engineered mechanical systems is needed to ensure that the required cleaning and maintenance tasks can be undertaken safely.



MEWP



BMU



Cradle



Robotic

The Benefits

- Economic and safe maintenance systems appropriate to the scale, form and type of building.
- Provide the client with long-term maintenance strategy and budgetary considerations.
- If possible provide a safe working platform in line with the Work at Height Regulations hierarchy.

Key Points

- Review relevant viable options for mechanical systems at an early stage.
- Mechanically assisted work placement systems require early discussion with specialists.
- Non-manned robotic systems eliminate work at height but can limit design solutions.
- Mechanical systems are best suited to large areas with little geometrical complexity.
- Any access from the ground, including cherry pickers and MEWPs require stable hard standing and influences landscaping.

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