



Construction QA/QC/QI - Cladding Design and QC

Cladding design, construction and installation can often be very challenging because of both construction deviations/inconsistencies and precision complexities related to unusual geometries of building structures/facades. With no exaggeration, in most cases, it is virtually impossible to achieve the architect's vision using a traditional method of on-site construction/installation. SCDS created and implemented an effective toolbox for cladding analysis, (re-)design, QA, and 'on-site' monitoring and installation control.

Technological Features and Performances

- o Very fast non-intrusive collection
- o Accuracy within 0.04" within a range varying from 5' to 700'
- o Capturing complex shapes and details of inaccessible facades
- o Data acquisition does not interfere with the site activities

Efficient Solutions for:

- o Fast analyses of cladding Primary/Secondary Structures and Tertiary Members applying to both flat and curved facades/designs
- o Adjusting the cladding fixation members to existing 'As-Built' facades
- o Computationally efficient functions for fixation members based on pre-defined grid positions
- o Automatic 3D model generation of grid positions and fixation members of variable lengths
- o Creating simulations of cladding construction/installation process, where the curtain designs are 'digitally' installed on 'As-Built' facade models
- o Real-Time Monitoring and QC during the curtain installation
- o QA and Engineering Audit of cladding sub-contractors
- o Spatial and Non-Spatial Data Management

Available Export Formats:

- o DWG/DXF, IGES, STEP, STL, any CAD and 2-3D Geometry; ASCII

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