

Services and Capabilities

Field investigation and condition assessment

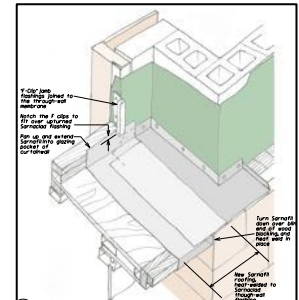
Good decisions begin with observable facts. Without them, you have endless debate.



Documenting extent of rust on metal studs

Design Review

Keep it as simple as you can. We work with the Architect, and with Contractor Subs, to improve or eliminate difficult details.



Concealed flashing clarified with sequenced sketches

Water testing

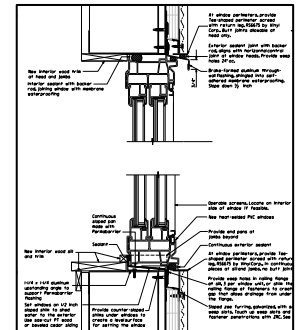
Don't guess, when you can water test. Find the leakage path, and test again after a trial repair, to make sure it solves the problem.



Water test calibrated to match Hurricane Sandy

Recladding design

Our experience with investigation and repair makes us better designers.



Recladding with Cement stucco on metal lath

Remedial options and repairs

We discuss advantages, disadvantages, and costs, of a range of options, from durable long-term repair, to deferred maintenance with monitoring.

Option	Description	Advantages	Disadvantages	Cost
1. Monitor	Monitor the condition of the wall and roof assembly using a combination of visual inspection and moisture monitoring devices.	Low cost, non-invasive, and can be used to detect problems early.	Does not solve the problem, only identifies it.	Low
2. Repair	Repair the damaged area with a patch of new material, matching the existing finish.	Simple and effective for small areas of damage.	May not be durable long-term.	Low
3. Reclad	Remove the damaged cladding and install a new cladding system over the existing structure.	Provides a long-term solution and improves the appearance of the building.	More expensive than patching.	Medium
4. Replace	Remove the damaged cladding and install a new cladding system over a new structural frame.	Provides a complete solution and improves the structural integrity of the building.	Most expensive option.	High

Table of Options, with Advantages, Disadvantages, and Costs

Construction Monitoring

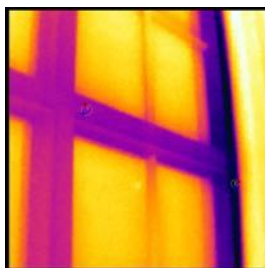
Construction work in the field does need to be monitored for quality and conformance to the design intent.



This EIFS wall system required Special Inspections

Condensation and thermal evaluation

Data explains everything. Measure the temperature and humidity, and consult the hygrometric table.



Infra-red photography to measure temperature of aluminum windows

Expert Witness

It's surprising how often one finds that actual conditions are different from what participants thought.



What causes hollow glass blocks to fill with water?