

Section 2 Sept. 19, 2005

Section I demonstrates that pointing in a vertical column sequence alters muntin spacing. We have determined the glass is best installed in horizontal rows from the bottom of the wall, through to the peak.

Context

The sequence of disassembly changed to accomplish a horizontal progression from the sill upwards. All wood components are labeled based on a grid reference so replacement will match original location.



Initial observations

There is evidence of a flashing between the bottom of the glass and the cast sill. Most wood muntins are sound. The exposed nose is greatly reduced from the effects of weathering.

Proposed practice

Missing and deteriorated zinc flashing will be replaced with a custom formed light gauge copper flashing. Muntins are built up with epoxy to reconstruct a profile that will support the glazing putty.



Results from second section

Preservation of metal is enhanced by the use of a rust conversion primer that chemically stabilizes existing rust and acts to prevent bleed through. “Conquest”, used in combination with hand metal preparation, encapsulates original steel and cast material without the extreme of power grinding and use of chemical strippers.



Recommended practice

Encapsulation of fixed rust and paint on steel and cast components minimizes risk of damage to original hardware and reduces environmental waste: lead based paint.

Conservation practice

Water based rust conversion primer finished with Marine enamel creates a durable protective finish to stop deterioration of structural metal. Fill welding and cutout of corroded sections repair steel angle iron. These repairs are visible by the appearance of welding beads along the steel horizontal angles. Complete replacement will occur if 50% of the original material is lost or damaged by corrosion. Deteriorated fasteners are replaced with stainless steel to ensure extended service. Bolts and nuts are hex head in contrast to the original square shape.



Project priorities

Where possible, lost or broken parts are re-manufactured to maintain the original function and appearance. Contemporary fasteners are used throughout where original have deteriorated, especially any fastener in contact with wood.

Future caretaking

Replace loose, broken or missing fasteners following periodic inspections.

