

SECTION 08600 - WOOD WINDOW REPAIRS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The general provisions of the Contract, including General and Supplementary Conditions, and relevant sections of these Specifications, apply to the work specified in this Section.

1.02 SCOPE OF WORK

- A. Window Restoration:
 - 1. Restore wood sash.
 - 2. Restore, in-situ, the existing sills which are to remain.
 - 3. Reglaze all sash.
 - 4. All hoisting, rigging and lifts required to complete the work of this section.

1.03 RELATED WORK

- A. SECTION 01520 HOISTING, RIGGING, LIFTS & ACCESS
- B. SECTION 06200 ARCHITECTURAL CARPENTRY & ASSOCIATED WORK

1.04 SUBMITTALS

- A. Submit for approval product data and samples of each product.
- B. Provide samples of reglazed lights in place for approval.

1.05 QUALITY ASSURANCE

- A. Employ only workers with at least five (5) years documentable experience with use of materials and methods outline herein. Window restoration

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specialist must have successfully completed a minimum of three (3) similar restoration projects. The Contractor shall submit to the Architect the names, addresses, Architect and contact person for at least three projects.

1.06 MANUFACTURER'S DATA

- A. Provide 4 copies of manufacturer's data for all materials.

PART 2 - PRODUCTS

2.01 MATERIALS FOR RESTORATION

- A. Wood Preservative:
 - 1. Amber (zinc naphenate-based) Cuprinol, as manufactured by Darworth, Inc., Simsbury, CT or
 - 2. A water soluble inorganic borate salt similar to Tim-Bor or Bora-Care.
- B. Wood Consolidant: "Liquid Wood" as manufactured by Abatron, Inc., 33 Center Drive, Gilberts, IL 60136 or approved products by Gougeon (West Systems) or Adhesive Engineering, Inc.
- C. Structural Adhesive Putty: "Wood Epox" as manufactured by Abatron, Inc. as above or approved products by Gougeon (West Systems) or Adhesive Engineering Inc. Fillers or modifiers shall be by epoxy manufacturer. Structural Adhesive Putty shall be of same manufacturer as wood consolidant.
- D. Glazing Compound: "DAP-33"
- E. Solution for Killing Mildew:
 - 2/3 cup Trisodium Phosphate.
 - 1/3 cup household detergent.
 - 3 quarts warm water.
- F. Caulking Compound: Sika 1a or Tremco Dymonic. Colors to be approved by Architect.
- G. Glue for installing inserts to be Arcon E-150 made Allied Resin.

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- H. New wood shall be clear Eastern White Pine, K.D. or air dried to 15%.
- I. Glass: Clear plate glass 3/16" min. to match existing thickness

PART 3 - WINDOW RESTORATION

3.01 EXECUTION

A. Surface Preparation:

1. Clean surface to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program the cleaning and painting so that contaminants from the cleaning process will not fall onto wet, newly painted surfaces.
2. Scrape with hand tools all surfaces exhibiting areas of loose paint or poor adhesion. Feather all rough edges to provide smooth transition between paint layers of substrate.
3. Consolidate deteriorated material with epoxy consolidant. Fill all checks and voids with epoxy wood filler putty.
4. All window sash, frames, trim and sills shall be scrubbed with solution specified in Materials Schedule. All window parts are to be scrubbed regardless of apparent lack of mildew. If any mildew appears after cleaning, reclean with a bleach and not water solution. Thoroughly rinse all surfaces.
5. Remove all glazing compound on all window sash, being careful not to damage muntin profiles.

B. Window Frame and Sash Restoration:

1. Stabilize and repair support and backing elements as required; all replacement elements shall duplicate size and profile of existing elements.

2. Epoxy Repairs

Consolidation: Exterior elements containing rotted or deteriorated areas will require the drilling of closely spaced holes to ensure proper penetration of consolidant. Manufacturer's recommendations shall be followed.

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Patching: Small holes and cracks to be filled with Epoxy Patching Compound. Manufacturer's recommendations shall be followed.

3. Replace all missing or cracked window panes. Secure with glazier's points. Bed all glass panes in thin layer of elastic glazing compound.
4. Reglaze all sash with DAP glazing compound. Install new glazing compound after "base" preservative and prime coat have been applied.
5. Caulking: All joints around window frames, etc., not sealed by the primer shall be caulked before painting.
6. The intent of these specifications is that the specialist responsible for the work of this section also shall furnish and install replacement sash and sills at those locations where existing sash is too deteriorated to repair so that all the work is consistent in appearance and workmanship when completed. Repairs and replacements are not limited to items specifically noted on window schedule.

END OF SECTION 08600