

THE WINDOW HANDBOOK

**SUCCESSFUL STRATEGIES FOR REHABILITATING
WINDOWS IN HISTORIC BUILDINGS**

CHARLES E. FISHER, III, EDITOR

U.S. Department of the Interior
National Park Service
Technical Preservation Services
Washington, D.C.

and

The Center for Architectural Conservation
College of Architecture
Georgia Institute of Technology
Atlanta, Georgia

1991

TABLE OF CONTENTS

PART 1—INTRODUCTION AND GUIDANCE

Rehabilitating Windows in Historic Buildings: An Overview
The Secretary of the Interior's Standards for Rehabilitation and Accompanying Guidelines on Windows
The Repair of Historic Wooden Windows
The Repair and Thermal Upgrading of Historic Steel Windows

PART 2—PLANNING AND EVALUATION

Planning Approaches to Window Preservation
Temporary Window Vents in Unoccupied Historic Buildings

PART 3—REPAIR AND WEATHERIZATION

Reinforcing Deteriorated Wooden Windows
Repairing and Upgrading Multi-Light Wooden Mill Windows
Repair and Retrofitting Industrial Steel Windows

PART 4—DOUBLE GLAZING HISTORIC WINDOWS

Installing Insulating Glass in Existing Steel Windows
Exterior Storm Windows: Casement Design Wooden Storm Sash
Interior Metal Storm Windows
Thermal Retrofit of Historic Wooden Sash Using Interior Piggyback Storm Panels
Interior Storm Windows: Magnetic Seal
Installing Insulating Glass in Existing Wooden Sash Incorporating the Historic Glass
Interior Storms for Steel Casement Windows

PART 5—REPLACEMENT SASH AND FRAMES

Replacement Wooden Frames and Sash: Protecting Woodwork Against Decay
Replacement Wooden Sash and Frames with Insulating Glass and Integral Muntins
Aluminum Replacements for Steel Industrial Sash
Aluminum Replacement Windows with Sealed Insulating Glass and Trapezoidal Muntin Grids
Replacement Wooden Frames and Sash with True Divided Lights and Interior Piggyback Storm Panels
Aluminum Replacement Windows with True Divided Lights and Interior Piggyback Storm Panels,
Utilizing Historic Wooden Frames

PART 6—SCREENS, AWNINGS AND OTHER ACCESSORIES

Window Awnings