



# 4500 Series

4-1/2" Heavy Commercial – Sloped Sash  
Thermally Improved Double Hung Window

## 4500 Series Features

### PERFORMANCE

The 4500 Series double hung and fixed windows exceed performance specifications set forth in ANSI/AAMA/NWDA 101/I.S.2-97 for Architectural Windows – AW and Heavy Commercial – HC.

### MAIN FRAME CONSTRUCTION

The frame material is constructed from .090" nominal wall thickness of 6063-T6 aluminum alloy and temper with a depth of 4-1/2". The sill has .125 nominal wall thickness and is extruded from the same aluminum billet. It features a standard equal leg frame. All joinery of frame members is closely fit and mechanically fastened with screws. Heliarc welded frame corners are optional. All frame joinery is sealed with small joint sealant.

### VENT FRAME CONSTRUCTION

All operating ventilators is no less than .080 nominal wall thickness of 6063-T6 aluminum alloy and temper with a depth of 1-11/16". Both operating sash have a sloped exterior glazing leg to replicate putty glazing. Vent corners are machined and assembled by means of mechanical fastening with screws. All vent joinery is sealed with small joint sealant. Vents have one row of heavy fin seal wool pile weather-stripping and one row of rigid vinyl.

### GLAZING

Windows are interior glazed with extruded aluminum snap-in glazing bead. All extruded glazing bead has a minimum depth of 3/4". Glazing of 1/4" to 7/8" can be utilized with maximum glass thickness up to 7/8" and maximum panel thickness up to 7/8". *Winco Window Co. strongly recommends that the windows be factory-glazed for proper and safe operation.*

### SCREEN

Screen frames are fabricated from extruded 6063-T6 aluminum alloy and temper. Aluminum screen wire produced from 5154 alloy in .011 diameter with mesh 18 x 16 is standard. Charcoal Anodized and Brite Kote Aluminum are standard colors. Mesh is installed so the cloth can be easily replaced with a roll-in spline. Suitable hardware is furnished to mount on the window unit. **Optional:** Fiberglass or stainless steel with .009 diameter wire or Winco's 1000 Series hinged security screen with perforated steel sheet.

### HARDWARE

Standard operating hardware consists of solid, white bronze sweep lock(s) with US25D brushed finish at sash interlock and aluminum extruded spring-loaded snap lock(s) at the head of the top sash. **Optional:** Aluminum extruded spring-loaded snap lock at the sill *or* solid white, bronze snap lock with US25D brushed finish. **Optional:** Pole ring spring lock located at the head of the top sash. All operating sash balances are spiral type meeting the minimum Class 5 requirement and tested in accordance with AAMA 902. **Optional:** Block and tackle sash balance meeting the minimum Class 1 requirement and tested in accordance with AAMA 902.