SERIES 400

Double Hung, Rated Heavy Commercial

Thermally Improved Prime Repacement Windows

DETAILS

Utilizes complete Thermal Break Sash and Master Frame for optimal insulating value

Features 1" clear insulating glass made with Super Spacer®, the world's only TrueWARM® edge technology

Deep double-step Hospital Sill provides superior ventilating and water performance

Marine Glazing protects glass edge and assures easy repair

Anti-Creep Lock on top sash creates stability for worry-free operation

Telescoping Sash Engineering provides optimum air and water protection

Special Tubular Sash Design gives added strength and long life

Block and Tackle Balances are standard

Custodial Hardware assures safe operation (Ideal for schools and institutional use)

Approved for Historic Preservation Certificate of Appropriateness
Date: 03/03/16

UNIVERSAL Window and Door

Thermally Improved Prime Replacement Windows Rated Heavy Commercial

Performance

DC HC-45 *@60" x 96"*

DH HC-60 *@ 48" x 60"*

Air Infiltration *@ 1.57 psf: .10*

Water Resistance *@ 11.00 psf: No Entry*

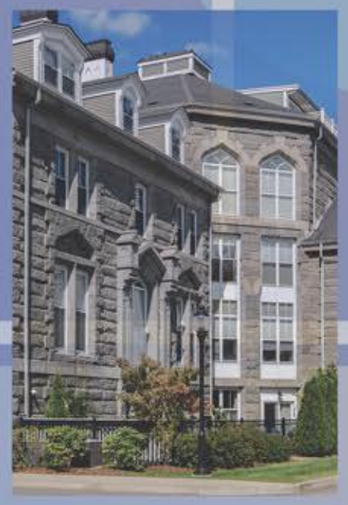
Uniform Structural Load
67.5 psf @ 66" x 84"
97.5 psf @ 48" x 72"

Operating Force: *42 lbs MAX.*

Condensation Resistance Factor: *46*

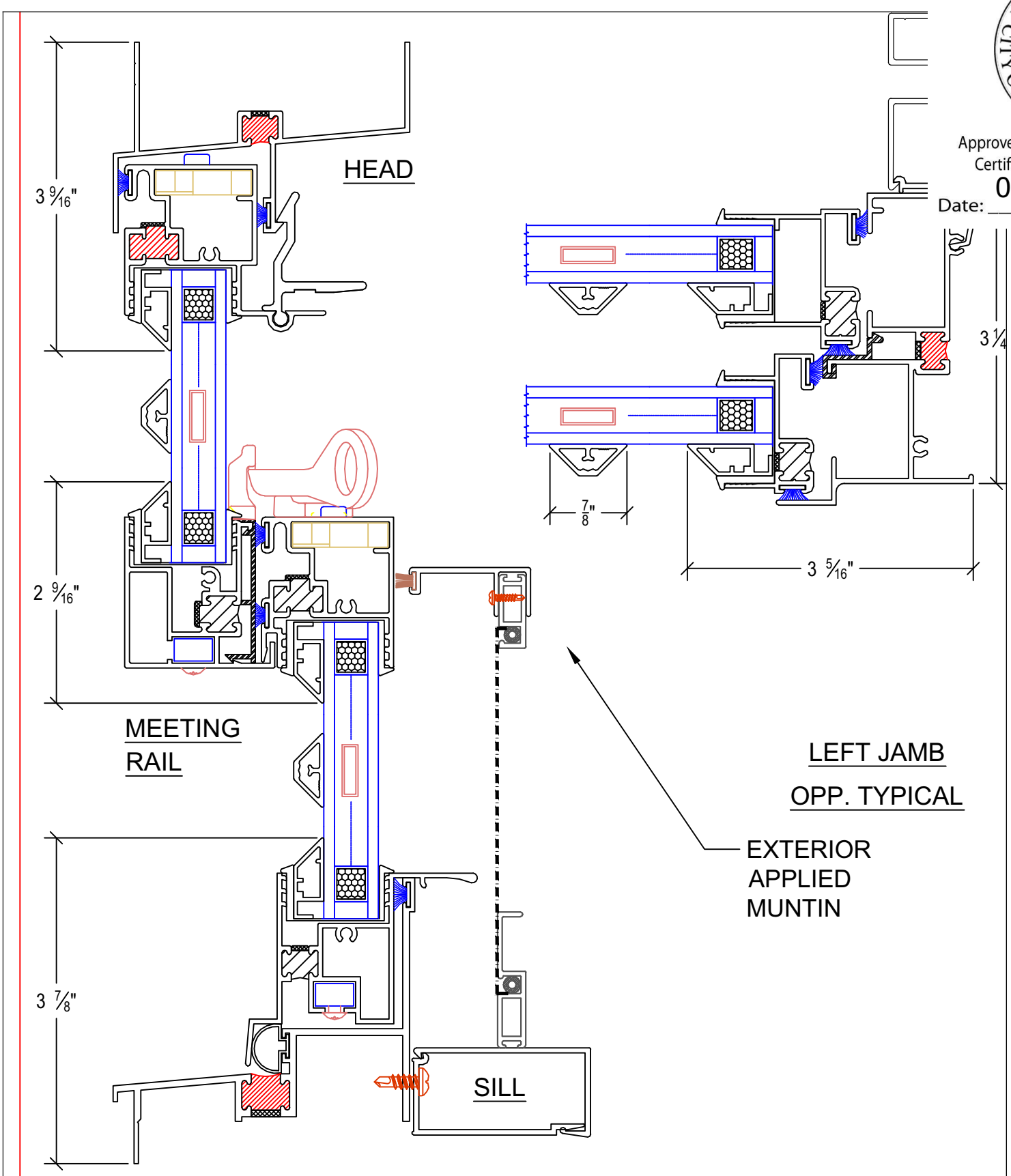
Options

Glass:
Low-E, Soft-Coat, Solar Control, Argon, Tempered, Obscure, Wire or Spandrel
Balances:
Ultralift, Superlift, Block and Tackle
Wrapping Systems:
Exterior Panning Systems
Interior Trim Systems
Receptor Systems
Flange Frame
Head Expander and Sill Angle
Finishes:
Special finishes and custom architectural finishes are available
Child Guard and Vandal Screens
Internal, External and Interior Grids



Specifications

General: All aluminum windows furnished as shown in the plans shall conform to the specifications in AAMA/NWWDA 101/IS2-97. They are furnished with all necessary hardware, trim and miscellaneous items as specified.
Material: Aluminum used is commercial quality 6063-T5 alloy with a minimum ultimate tensile strength of 22,000 psi, free of defects impairing strength and durability, and with standard wall tolerances as defined in the Architectural Aluminum Manufacturer's Association Master Specifications for aluminum windows. All members of the frame and sash shall be split and bridged with a continuous structural thermal break of high density, low conductivity urethane insulation cavity fill, with removal of the extrusion cavity bridging aluminum after curing.
Construction and Operation: Windows are assembled to perform as herein specified, to assure a neat appearance and weather tight construction. All sash and frame members are firmly joined with mechanical joints using stainless steel screws into integral screw ports. Each frame corner joint is secured with two screws. Sash corner joints are telescoped for rigidity and appearance. Meeting rails have mechanical interlocks, and the horizontal rails of the upper and lower sashes have extruded handles for operating the sashes. When windows are not being expressly used for ventilation, they must be fully closed and locked. Failure to do so may result in personal injury or damage to property. All sashs are tilt type for easy cleaning. Top sashes have "Anti-Creep" latches.
Glazing: Sashes are glazed with 1" sealed insulated glass, using "Float Glass" quality, and constructed to allow field replacement of glazing material. Glazing is "Marine" type wrap around vinyl gasket, without the use of removable beads or glazing compound. All insulated glass conforms to, and is in compliance with, ASTM E 773-83 AN E 744-74A- Class CBA.
Spacer: Edgetech's Super Spacer® contains NO-Metal and is one of the most thermatically efficient IG spacers available today. Super Spacer® reduces sealant stress while improving heat flow resistance, glass surface temperature, condensation resistance and sound absorption. Super Spacer® is the only polymer foam, NO-Metal warm edge spacer.
Finish: The exposed surfaces of all aluminum members shall be clean and free of serious blemishes, scratches or tool marks. Standard finish is electrostatically applied acrylic enamel with a 5-stage chromate under-coating conforming to AAMA 603.8 standard. Standard colors are white, black, bronze, green and beige (see color chart). Other architect specified finishes may be available at additional cost.
Hardware: All fasteners, screws and other miscellaneous fastening devices shall be of non-corrosive material compatible with aluminum. Balances of appropriate size and capacity to hold each sash stationary at open position are factory installed. They meet AAMA 902.2 specification, and are easily replaceable after the window is installed. Block and Tackle balances are standard. Ultra-Lift and Spiral balances are available at an additional cost.



Approved for Hi
Certificate of
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UNIVERSAL WINDOW & DOOR
400 D. H. w/ HISTORIC FRAME & MUNTINS

DATE:	DWG. NO.	REV:
2-14-2011	UNI-400-0002	

SCALE:	SHEET:	
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