



Series 3503 Thermal 3 1/4" Architectural Grade Horizontal Sliding Window

Manufacturer

Of

Architectural

And

Commercial

Grade

Windows,

Curtain Walls,

Entrances,

And

Storefronts

Configurations XX

Series 3503 retains an AAMA Heavy Commercial and Architectural Grade rating to meet the most demanding specifications. The 3503 window system is an attractive product for a wide range of applications. The sash glides on tandem steel ball bearing rollers. Multiple glazing options provide flexibility to meet specific design requirements. The window is thermally improved for enhanced energy saving potential. Offered with a complete line of sub frames, mullions and architectural sills, the 3503 window provides the complete solution for your fenestration needs.

Features

E-Strut™ thermal isolator

Raised sill track

Sash glides on tandem steel ball bearing rollers

Variety of locking and operating hardware

Accommodates glazing units from 1/8" to 1" depth

Screen frames of extruded aluminum alloy are available

Anodized and painted finishes available

Benefits

Improves thermal performance
Enhances energy saving potential
Allows dual finish capability

Minimizes the effects of debris and dirt buildup on the sill

Allows easier operation

Allows flexibility in design

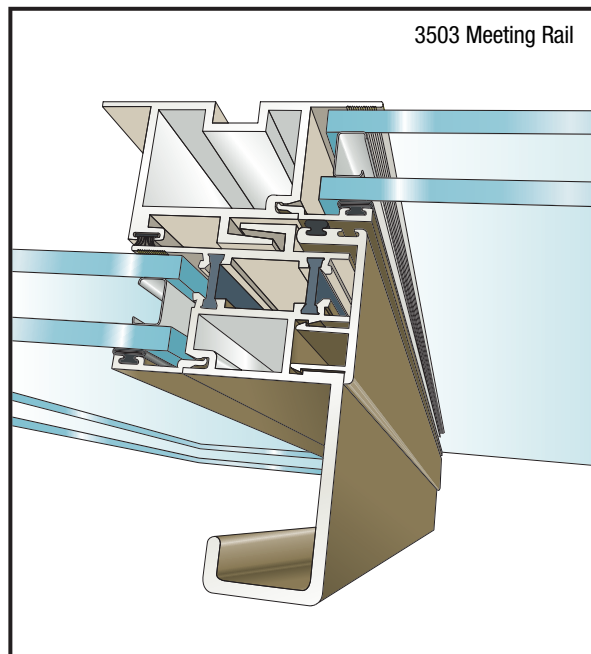
Expands design and energy saving options

Stronger more durable screens

Unlimited options to answer economic and aesthetic concerns



Series 3503 Thermal 3 1/4" Architectural Grade Horizontal Sliding Window



Performance Data

S-3503 Horizontal Sliding Window Heavy Commercial

AAMA Rating (101-97)	HS-HC55
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakage @ 15.0 psf
Structural	±82.5 psf
CRF-Frame (1503-98)	46°
CRF-Glass (1503-98)	58°
U-Value (1503-98)	.57°
U-Value (NFRC-102)	.54°

S-3503 Horizontal Sliding Window Architectural Grade

AAMA Rating (101-97)	HS-AW60
Air Infiltration	<.10 cfm/sf @ 6.24 psf
Water	No Leakage @ 15.0 psf
Structural	±90.0 psf
CRF-Frame (1503-98)	46°
CRF-Glass (1503-98)	58°
U-Value (1503-98)	.57°
U-Value (NFRC-102)	.54°

A = Estimated values and/or designations
B = Non-standard size or configuration
C = Dual glazed
D = 1" Insulated - 1/4" clear, 1/2" air, 1/4" clear
E = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" air, 1/4" clear
F = 1" Insulated - 1/4" clear (Low Emissivity), 1/2" argon, 1/4" clear
G = 1" Insulated - 1/4" clear, 1/2" air, 1/4" clear (Low Emissivity)

S-3503 Hardware Chart

	Concealed Plunger Lock	Sweep Lock	Auto Jamb Lock	Pole Ring Sweep Lock	Pole Socket	Access Controlled Sweep Handle	Zinc Plated Steel Ball Bearing Rollers	Stainless Plated Steel Ball Bearing Rollers
Horizontal Sliding	S	0		0		0	S	0

Some size restrictions
may apply depending
on hardware selected.

0 -Optional
S--Standard
blank - N/A

S-3503 Glazing Chart

		Polycarbonate			Glass or Panel															
		1/8"	3/16"	1/4"	1/8"	.156"	3/16"	.200"	1/4"	1/4"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-1/2"	1-3/4"	2"
Monolithic & Insulated Glass					A	A	A	A	A			A	A	A	A					
Dual Glazing	Exterior Lite							A	A	A										
	Interior Lite						A	A	A											

*-Obscure Glass
Thickness
**-Laminated
Glass Thickness
A -Available
Glazing Option
blank - N/A

Series 3503 Thermal 3 1/4" Architectural Grade Horizontal Sliding Window



Frame Construction

The frames have a depth of 3 1/4" and are constructed of 6063-T6 aluminum alloy. Nominal material wall thickness for the frame is .062", and the sill has a minimum wall thickness of .094". Corners are of screw spline construction and sealed. See Illustration 1.

Sash Frame Construction

The sash consists of aluminum members with .062" nominal material wall thickness of 6063-T6 alloy. Sash verticals telescope into sash horizontals. Corners are of screw spline construction and sealed. Cam sash design and continuous interlock at the sash meeting rail offers superior weathering and structural performance. See Illustration 2.

Weather Stripping

The perimeter of the sash is weather-stripped with FIN-SEAL® or equal. Two holes or slots through the window sill facilitate weepage.

Screens

Half screens are mounted inset within the window frame. Screen frames are extruded 6063-T6 aluminum alloy. 18 x 16 mesh screens are available in fiberglass and .011" diameter aluminum. 18 x 18 mesh screens are available in .009" diameter stainless steel.

Thermal Barrier

Sash horizontal rails and handle rail are thermally improved using the latest in two-part, high density polyurethane. All other members are thermally isolated with two thermal struts, consisting of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions. See Illustration 3.

Hardware

Concealed plunger lock at sash meeting rail with a flush mounted actuating handle is standard. Optional sweep locks, access controlled sweep locks, pole ring sweep locks, and keepers are of cast white bronze with a US25D finish. The sash glides on steel ball bearing rollers over a raised sill track ensuring smooth operation and minimizing the effects of debris and dirt build-up on the sill. See the Hardware Chart for available hardware types.

Glazing

Windows are inside glazed with an extruded aluminum snap-in glazing bead. Glazings of 1/8" to 1" can be accommodated. See the Glazing Chart for the exact size.

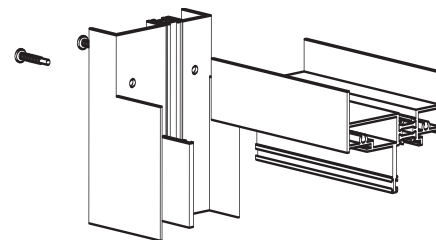


Illustration 1

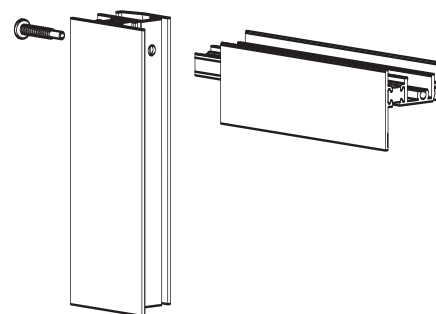


Illustration 2

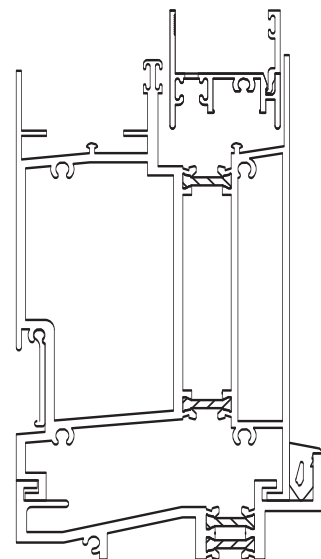
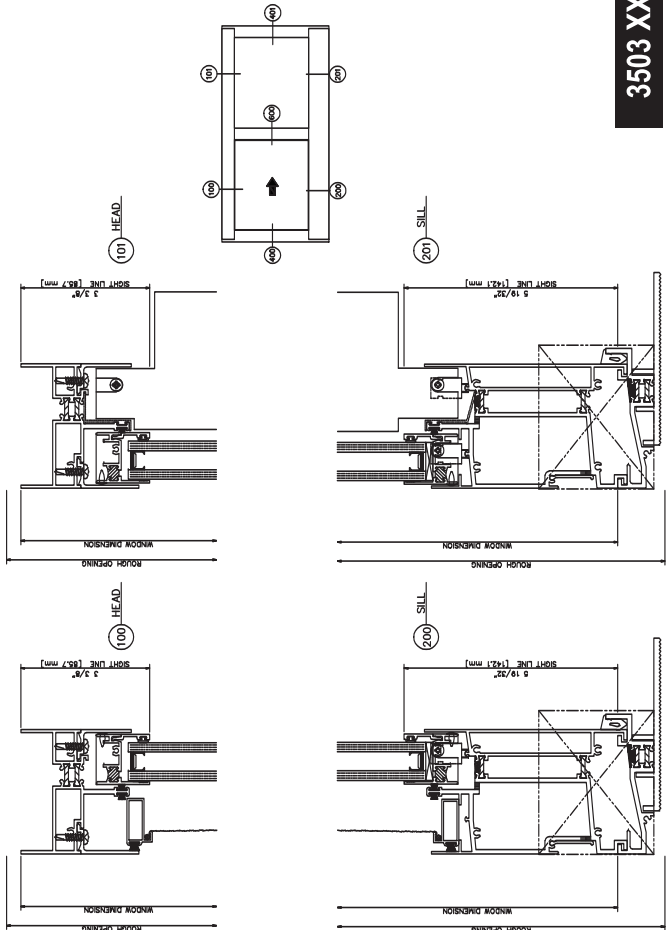
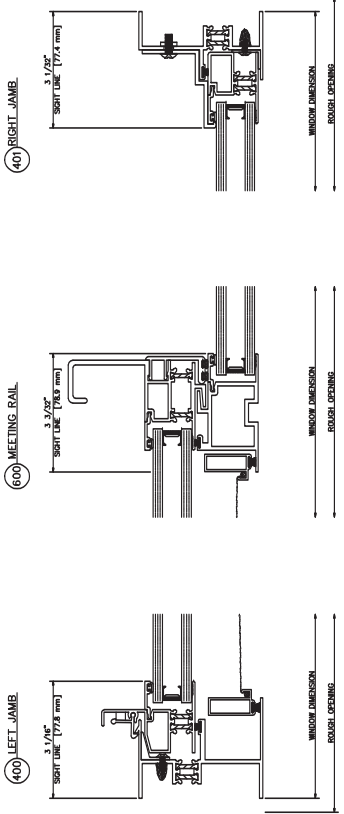


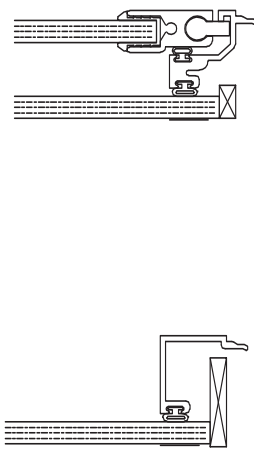
Illustration 3



3503 XX

Inside Glazed

ER65 - 1/4"
INTERIOR PANEL
1/4" MONOLITHIC



3503 Glazing