



Series 675 Double Hung • Series 676 Double Hung • Series 676HP Double Hung • Series 6750 Fixed 4 ½" Heavy Commercial Hung Thermal Window

Configurations Beveled Glazing Double Hung • Standard Glazing Double Hung • Fixed

This product family of hung windows retains an AAMA Heavy Commercial and Architectural Grade rating to meet the most demanding specifications. It is a proven performer in applications ranging from historical replication to new construction. An added beveled glazing feature and multiple glazing options provide flexibility to meet specific design requirements. A thermal barrier in the frame and sash improves thermal performance enhancing your energy saving potential. Offered with a complete line of sub frames, mullions and architectural sills, this product family provides the complete solution for your fenestration needs.

Manufacturer

0f

**Architectural** 

And

Commercial

Grade

Windows.

Curtain Walls,

Entrances,

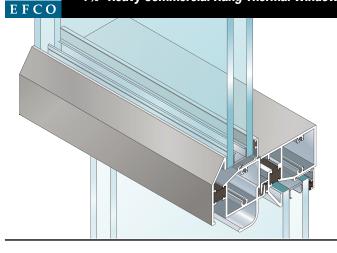
And

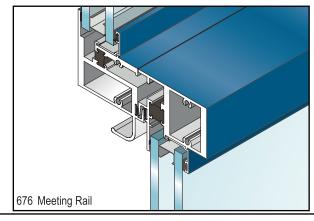
**Storefronts** 

**Benefits** Features Series 675 only - beveled glazing leg Provides the appearance of a putty-glazed window with the maintenance ease of a dry glazed unit Series 676 H-AW100 rating Appropriate for projects with high structural requirements Thermal barrier in vent and frame Improves U-Value performance Enhances energy saving potential Dual weather-stripped sash and sill Provides superior air and water performance Continuous interlock meeting rails Improves air infiltration resistance Accommodates glazing units from 1/8" to 1 " depth Expands design and energy saving options Automatic top and bottom sash locks available Increased convenience Dual glazing with optional integral blinds Improved energy savings and interior light or privacy control with low maintenance Trim-All™ panning available Allows matching of existing sight lines in restoration projects Screen frames are extruded aluminum alloy are available Stronger more durable screens Allows custom designs with standard product Accessory line of subframes, mullions, and architectural sills Anodized or painted finishes available Unlimited options to answer economic and aesthetic concerns

EFCO CORPORATION 1000 COUNTY RD MONETT, MO 65708 800.221.4169

# Series 675 Double Hung • Series 676 Double Hung • Series 6750 Fixed 41/2" Heavy Commercial Hung Thermal Window





## **Performance Data**

S-675 Double Hung	Heavy Commercial
	H-HC65 <.10 cfm/sf @ 1.56A psf
Water	No Leakage @ 12.0 psf ±97.5 psf
	$. \ . \ . \ . \ . \ . \ . \ . \ . \ . \$
' '	
U-Value (NFRC-97)	
, ,	

S-676 Double Hung A	Architectural Grade
AAMA Rating (101-97)	
Air Infiltration	12 cfm/sf @ 6.24 psf
Water	. No Leakage @ 12.0 psf
Structural	±150.0 psf
CRF-Frame (1503-98)	
CRF-Glass (1503-98)	
U-Value (1503-98)	
U-Value (NFRC-97)	

S-675 Double Hung	g Architectural Grade
AAMA Rating (101-97)	
Air Infiltration	<10 cfm/sf @ 6.24
Water	No Leakage @ 12.0 psf
Structural	±97.5 psf
CRF-Frame (1503-98)	
CRF-Glass (1503-98)	
U-Value (1503-98)	
U-Value (NFRC-97)	69 <sup>0</sup>

S-6750 Correspond Architectu	
AAMA Rating (NAFS-02)	F-AW90
Air Infiltration	<.09 cfm/sf @ 6.24 psf
Water	No Leakage @ 15.0 psf
Structural	±135.0 psf
CRF-Frame (1503-98)	
CRF-Glass (1503-98)	
U-Value (1503-98)	

A = Estimated values and/or designations

B = Non-standard size or configuration

B = MUIT-Standard size of commigueus.

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-675 & S-676 Hardware Chart	Sweep Lock	Auto Head Lock	Auto Sill Lock	Pole Ring Sweep Lock	Pole Socket	Access Controlled Sweep Handle	2 or 4 Block & Tackle Balances	2 or 4 Class 5 Balances
Double Hung	S	S	0	0	0	0	S	0

Some size restrictions may apply depending on hardware selected.

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

S-675 Glazing Chart		Polycarbonate				Glass or Panel														
o oro anazing onare			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					Α	Α	Α	Α	Α	Α	Α	Α	Α		Α					
Dual Clazina	Exterior Lite				Α	Α	Α	Α	Α	Α										
Dual Glazing	Interior Lite						Α	Α	Α											

*-Obscure Glass Thickness
**-Laminated
Glass Thickness
A -Available
Glazing Option
I -Internal Blinds
Can Be Used With
This Type of Dual
Glazing
blank - N/A

S-676 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 & Insula				Α	Α	Α	Α	Α	Α		Α	Α	Α	Α		Α				
Dual Glazing	Exterior Lite				ı	ı	I	I	I	Α	Α	Α								
	Interior Lite						Α	Α	Α											

Fixed S-6750 Glazing Chart		Pol	ycarbor	ate	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			Α	Α			Α	Α	Α	Α	Α		Α	Α	Α		Α	Α	Α	Α
Dual Glazing	Exterior Lite		А	Α			Α	Α	Α	Α	Α		Α		Α	Α	Α			
	Interior Lite						Α	Α	Α											



#### **Frame Construction**

The frames have a depth of 4 1/2" and are constructed of 6063-T6 aluminum alloy. The nominal material wall thickness for the frame is .090", and the sill has a minimum wall thickness of .125". Corners are of screw spline construction and sealed. See Illustration 1.

#### **Sash Frame Construction**

The sash consists of aluminum members with .080" nominal material wall thickness of 6063-T6 alloy. Corners for both series are of screw spline construction and sealed. Dual weather-stripped continuous interlock at the sash meeting rails offers superior weathering and structural performance. The S-675 sash is designed to replicate a "putty-glazed" sash with a beveled glazing rabbet. See Illustration 2.

### **Weather Stripping**

All sash are weather-stripped with FIN-SEAL® or equal. Two holes or slots per sash through the window frame facilitate weepage.

#### **Screens**

Screen frames are extruded 6063-T6 aluminum alloy. Screens are easily removed by retracting the plunger located on the interior face of the screen frame near the sill at each jamb. Full screens are available. 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**

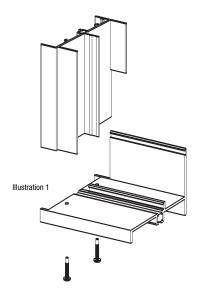
All frames and sash are thermally improved using the latest technology in two part, high density polyurethane. See Illustration 3.

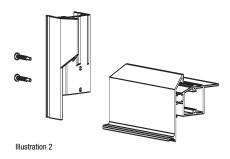
# Hardware

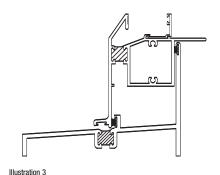
Sweep locks, access controlled sweep locks, pole ring sweep locks, and keepers are of cast white bronze with a US25D finish. Optional automatic head and sill locks are fabricated of aluminum alloy and finished to match the window. Two types of balance systems are available. A spring loaded block and tackle balance rated Class 1 with a .70 MAF\* ratio is standard. A high performance torsion spring and extension spring balance rated Class 5 with a .30 MAF\* ratio is optional. EFCO reserves the right to substitute a higher performance balance as project conditions dictate, i.e., large, heavy sash requiring minimum operating force. See the Hardware Chart for available hardware types.

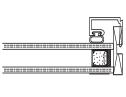
# Glazing

Windows are inside glazed with an extruded aluminum snap-in glazing bead. Glazing of 1/8" to 1" can be accommodated. Dual glazing is also available in 3/16" and 1/4" glass. Between the glass 5/8" aluminum blinds are available with Series 676 dual glazed windows. Series 6750 fixed frame windows accommodate glass or panels from 3/16" to 3" thick. See the Glazing Chart for the exact size.

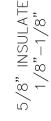


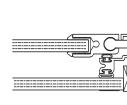




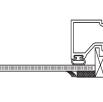


5/8" INSULATED 1/8"-1/8"



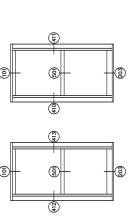


1/4" MONOLITHIC ER65 - 1/4" INTERIOR PANEL



1/8" MONOLITHIC

1/4" MONOLITHIC



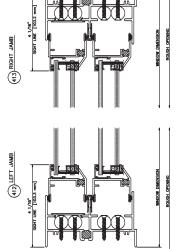
203 SILL 501 MEETING RAIL

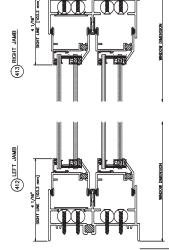
RIGHT BLOCK AND
TACKLE JAMB 3 7/32" SIGHT LINE [81.7 mm] LEFT BLOCK AND

A10 TACKLE JAMB 3 7/32" GHT LINE [81.7 mm]



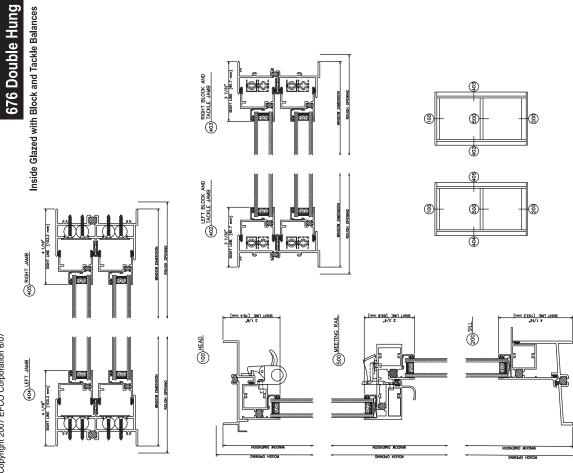
101 HEAD





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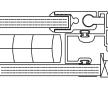
# Inside Glazing with Block and Tackle Balances 675 Double Hung



ER65 - 1/4" INTERIOR PANEL

ER65 - 1/4" INTERIOR PANEL

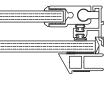
1/4" MONOLITHIC



ER65 - 1/4" INTERIOR PANEL

1/4" MONOLITHIC

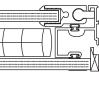




1/8" MONOLITHIC

1/4" MONOLITHIC





5/8" INSULATED 3/16"-3/16"

ER65 - 3/16" INTERIOR PANEL

