



## SINGLE HUNG SPECIFICATIONS

### General:

Windows shall be series 9320, 9321, 9360, 9380 Single Hung window systems as described in the brochure and manufactured by International Window Corporation.

### Material:

Frames and sash members shall be white, or desert sand UPVC.

### Construction:

Corners of all frames and panels shall be miter cut and fusion welded to present neat, tight fitting joints. Nailing fin shall be prepunched for installation. Vent panels shall be the "take out" type to facilitate cleaning. Interlocks shall be provided on the sliding panels and center mullions for complete control of water and air leakage.

### Weatherstripping:

The wool pile shall be friction-resistant silicone treated and contain a center fin to form a continuous single plane barrier between panels and frame.

### Glazing:

Fixed glass and sliding panels shall be constructed to allow for either shop or field glazing and installation into the frame either before or after installation. Windows shall accept single glazing or 3/4" insulating glass.

### Hardware:

Sliding panels shall be equipped with a positive latch system that engages a keeper located in the sill. Panels shall not be removable from the outside when in a locked position. Sliding panels shall be provided with a block and tackle balance on each side for alignment and ease of operation.

### Screens:

Screen frames shall be fabricated from, 5/16" x 3/4" tubular roll-formed aluminum section. The screen cloth shall be 18 x 16 mesh fiberglass. Screens shall be removable from the outside or inside. When in place, they shall not interfere with the operation of sliding panels or impede water drainage from the sill.

### Erection:

All window frames shall be set by others in a level, plumb and square condition without distortion. Frame and panels must be installed without forcing, springing or bowing. Units shall be properly caulked to prevent water leakage. After installation, the general contractor shall be responsible for protecting the units during the balance of construction. Upon completion of construction, the general contractor shall be responsible for cleaning the PVC and glass without the use of abrasive agents.

### Performance tested to:

- AAMA/ANSI 101/I.S.2-97 Standards
- Security tested to California & L.A. County ordinance
- Thermally tested to NFRC 100 and 200.
- Sealed insulated glass to "A" level
- Sound tested to ASTM E90-99. STC determined in accordance with ASTM E 413-87.

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**SINGLE HUNG NFRC**

9320 RESIDENTIAL 3/4" INSULATING GLASS UNIT PERFORMANCE	U-Value Residential Only						SHGC			Visible Light		
	Air fill	With Argon	Sculp-tured Grid	Sculp-tured Grid with Argon	1/8" x 3/4" Grid	1/8" x 3/4" Grid with Argon	No Grid	Sculp-tured Grid	1/8" x 3/4" Grid	No Grid	Sculp-tured Grid	1/8" x 3/4" Grid
SS clear/ SS Clear/ SS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.59	0.47	0.53	0.62	0.49	0.55
DS clear/ DS Clear/ DS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.57	0.46	0.51	0.62	0.48	0.55
3/16 clear/ 3/16 Clear/ 3/16 Clear	0.30	0.29	0.31	0.30	0.31	0.30	0.55	0.44	0.49	0.61	0.48	0.54
SS EnergyShield/ SS Clear/ SS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.28	0.23	0.25	0.53	0.42	0.47
DS EnergyShield/ DS Clear/ DS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.28	0.22	0.25	0.52	0.41	0.47
3/16 EnergyShield/ 3/16 Clear/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.28	0.22	0.25	0.52	0.41	0.46
SS SBG60/ SS Clear/ SS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.23	0.19	0.21	0.37	0.29	0.33
DS SBG60/ DS Clear/ DS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.23	0.19	0.21	0.37	0.29	0.33
3/16 SBG60/ 3/16 Clear/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.21	0.17	0.19	0.30	0.24	0.27
SS bronze/ SS Clear/ SS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.52	0.41	0.46	0.51	0.40	0.45
DS bronze/ DS Clear/ DS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.47	0.38	0.42	0.46	0.36	0.41
3/16 bronze/ 3/16 Clear/ 3/16 Clear	0.30	0.29	0.31	0.30	0.31	0.30	0.42	0.34	0.38	0.40	0.31	0.35
3/16 Solarcool/ 3/16 Clear/ 3/16 Clear	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.22	0.25	0.16	0.12	0.14
SS grey/ SS Clear/ SS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.44	0.35	0.40	0.41	0.33	0.37
DS grey/ DS Clear/ DS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.44	0.35	0.39	0.41	0.32	0.37
3/16 grey/ 3/16 Clear/ 3/16 Clear	0.30	0.29	0.31	0.30	0.31	0.30	0.38	0.31	0.34	0.34	0.27	0.30
DS greylite # 31/ DS Clear/ DS Clear	0.29	0.28	0.28	0.28	0.28	0.28	0.35	0.28	0.32	0.21	0.16	0.19
SS Azurelite/ SS Clear/ SS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.42	0.33	0.37	0.56	0.44	0.50
DS Azurelite/ DS Clear/ DS Clear	0.29	0.28	0.30	0.28	0.29	0.28	0.37	0.29	0.33	0.53	0.41	0.47
3/16 Azurelite/ 3/16 Clear/ 3/16 Clear	0.30	0.29	0.31	0.30	0.31	0.30	0.32	0.26	0.29	0.49	0.38	0.43
SS bronze/ SS EnergyShield/ SS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.30	0.24	0.27	0.43	0.34	0.39
DS bronze/ DS EnergyShield/ DS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.28	0.22	0.25	0.39	0.31	0.35
3/16 bronze/ 3/16 EnergyShield/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.25	0.21	0.23	0.34	0.27	0.30
SS grey/ SS EnergyShield/ SS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.27	0.22	0.24	0.35	0.28	0.31
DS grey/ DS EnergyShield/ DS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.26	0.21	0.24	0.35	0.28	0.31
3/16 grey/ 3/16 EnergyShield/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.23	0.19	0.21	0.29	0.23	0.26
SS Azurelite/ SS EnergyShield/ SS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.29	0.24	0.26	0.48	0.37	0.42
DS Azurelite/ DS EnergyShield/ DS Clear	0.22	0.20	0.23	0.21	0.22	0.20	0.27	0.22	0.25	0.45	0.35	0.40
3/16 Azurelite/ 3/16 EnergyShield/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.25	0.21	0.23	0.42	0.33	0.37
3/16 Solex/ 3/16 EnergyShield/ 3/16 Clear	0.24	0.21	0.26	0.23	0.26	0.23	0.27	0.22	0.24	0.46	0.36	0.41

U-Factor is the overall coefficient of heat transmittance of heat flow measured in BTU/hr.\* ft<sup>2</sup>\* °F. Lower U-Factors indicate better performance. Winter nighttime U-Factors are calculated using an outdoor air temperature of 0°F and indoor air temperature of 70°F.

Solar Heat Gain Coefficient is defined that fraction of incident solar radiation that actually enters a building through the window as heat gain. The SHGC is expressed as a dimensionless number from 0 to 1.0 A high coefficient signifies high heat gain, while a low number means low heat gain.

Visible Transmittance is the amount of light in the visible portion of the spectrum that passes through a glazing material. This property does not directly affect heating and cooling loads in a building.