CSE-QS-SC-3030
Self Closing Drive-Thru Slider Window
1/4” Tempered

MODEL			DIMENSIONS	
Number	CSE-QS-SC-3030		Service Opening	14-½”(w) x 29”(h).
Description	Single Horizontal Sliding Window Unit		Rough Opening	36-3/8”(w) x 36-3/8”(h).
			Finished	36”x 36”
GLASS				
Glazing	1/4” Tempered		FINISH	
Quality	Q3		Frame Options	Bronze, Clear, Custom
ASTM International	ASTM C1048			
Type	1, transparent flat		SLIDE	
Float Glass	Float glass with horizontal tempering		Hand	Left, Right
Tempered	Kind FT fully tempered			
Fabricated	Roller-wave distortion parallel to bottom edge of glass as installed			
Conforming	CPSC 16 CFR 1201 Category II			

Contact Covenant Security Equipment: Toll free tel: 800-286-4400, email: sales@covenantsecurityequipment.com or visit the Covenant Security Equipment website at covenantsecurityequipment.com for additional product information.

PERFORMANCE

A. System Design: Design and size components to withstand dead loads and live loads caused by pressure and negative wind loads acting normal to plane of window as calculated in accordance with applicable code
B. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channels, and migrating moisture occurring within system, to exterior by weep drainage network.
C. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with [inside] pane of glass and heel bead of glazing compound. [Position thermal insulation on exterior surface of air barrier and vapor retarder.]
D. Ballistics-Resistance Performance: Provide units identical to those tested for compliance with requirements indicated, and as follows:
    1. Listed and labeled as bullet resisting according to UL 752.
    2. Tested for ballistics resistance according to UL 752, [HPW-TP-0500.01], [HPWTP-0500.02] [_____] by a testing agency acceptable to authorities having jurisdiction.
E. Forced-Entry-Resistance Performance: Provide units identical to those tested for compliance with requirements indicated, and as follows:
    1. Tested for forced-entry resistance according to ASTM F588 [_____] by a testing agency acceptable to authorities having jurisdiction.
    2. California Model Building Security Ordinance, CMBSO - Section 15.52.100, Tests CAWM 301-90, Forced Entry Resistance Tests for Windows.
F. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier:
    1. To utilize the inner pane of multiple pane sealed units for the continuity of the air barrier and vapor retarder seal.
G. Structural Design: Design glass and glazing in accordance with [applicable] [_____] code for most critical combination of wind, snow, seismic, and dead loads.
H. Electrical Requirements:
    1. Motor operated to comply with CAN/CSA C22.2 No. 68-92 and UL 73.
    2. Operators and systems for doors, gates, and window operators to comply with CAN/CSA C22.2 No. 247 and UL 325.
I. Heating and cooling type equipment to comply with UL 1995.

WARRANTY

A. Furnish manufacturer's standard warranty document, executed by an authorized Quikserv Corp. officer in which manufacturer agrees to repair or replace windows, drawers and air curtains that fail in materials or workmanship within specified warranty period. This warranty is in addition to, and not a limitation of other rights Owner has under the contract.
    1. Warranty Period:
        a. One year parts and labor from date of installation.

2. Failures include, but are not limited to, the following:
    a. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
    b. Structural failures including deflections exceeding 1/4 inch.
    c. Failure of welds.
    d. Excessive air leakage.
    e. Faulty operation of sliding window hardware.
    f. Faulty operation of transaction drawers.
    g. Faulty operation of air curtains.

MATERIALS

A. Aluminum Extrusions: ASTM B221/B221M. Provide alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi (150-MPa) ultimate tensile strength and not less than 0.125 inch (3.2 mm) thick at any location for main frame and sash members.
B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
C. Metallic-Coated Steel Sheet:
    1. ASTM A653/A653M, CS (Commercial Steel), Type B; with G90 (Z275)zinc (galvanized) coating designation.
    2. AMS5511, steel, corrosion-resistant, sheet, strip, and plate, 19Cr - 9.5Ni (304L), solution heat treated.
    3. AMS5513, steel, corrosion-resistant, sheet, strip, and plate 19cr 9.2Ni (SAE 30304) solution heat treated.

A. Stainless Steel Sheet, Strip, Plate, and Flat Bars:
    1. ASTM A666, austenitic stainless steel, Type 304, stretcher-leveled standard of flatness.
    2. ASME SA-240/SA-240M, chromium and chromium-nickel stainless steel plate, sheet, and strip for general applications.
B. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.
C. Cast-in-Place Anchors in Concrete: Fabricated from corrosion-resistant materials capable of sustaining, without failure, a load equal to [four] [____} times the load imposed, as determined by testing per ASTM E488, conducted by a qualified testing agency.
    1. Threaded or wedge type; galvanized ferrous castings, either ASTM A27/A27M cast steel or ASTM A47/A47M malleable iron. Provide bolts, washers, and shims as required; hot-dip galvanized per ASTM A153/A153M or ASTM F2329.
B. Embedded Plate Anchors: Fabricated from steel shapes and plates, minimum 3/16 inch (4.8 mm) thick; with minimum 1/2-inch- (12.7-mm-) diameter, headed studs welded to back of plate..
C. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

D. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30-mil (0.76-mm) thickness per coat.
E. Sealants: For sealants required within fabricated security windows, provide type recommended by manufacturer for joint size and movement. Sealant shall remain permanently elastic, nonshrinking, and nonmigrating.
F. Gaskets: For gaskets required within fabricated security windows, provide type recommended by manufacturer for joint size and movement. Gaskets shall remain permanently elastic, nonshrinking, and nonmigrating.

WINDOW COMPONENTS

A. Comply with requirements of UL listing for ballistics-resistance levels as specified.
B. Glass:
    1. Tempered Glass: 1/4 inch thick.
C. Track/Slides: Stainless steel ball bearing slides all windows and drawers.
D. Miscellaneous Glazing Materials: Provide material, size, and shape complying with requirements of glass manufacturers, and with a proven record of compatibility with surfaces contacted in installation:
    1. Cleaners, Primers, and Sealers: Type recommended by sealant or gasket manufacturer.
    2. Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85, plus or minus 5.
    3. Spacers: Elastomeric blocks or continuous extrusions with a Type A Shore durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
    4. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
E. Flashing.
F. Welding Materials.
G. Anchors, Clips, and Window Accessories: Stainless steel; hot-dip, zinc-coated steel or iron, of sufficient strength to withstand design pressure indicated.

EXAMINATION

A. Section 01 30 00 - Administrative Requirements {01300 - Administrative Requirements}: Verification of existing conditions before starting work
B. Verify construction is ready to receive Products specified in this section.
C. Verify rough openings are correct size and in correct location.
D. Examine roughing-in for embedded and built-in anchors to verify actual locations of security window connections before security window installation.
E. Inspect built-in and cast-in anchor installations, before installing security windows, to verify that anchor installations comply with requirements. Prepare inspection reports.

1. Remove and replace anchors where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
2. Perform additional inspections to determine compliance of replaced or additional work. Prepare anchor inspection reports.

F. For glazing materials whose orientation is critical for performance, verify installation orientation.
G. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPERATION

A. Furnish frames and anchors to other sections as required for installation in surrounding partition and casework construction.

INSTALLATION

A. Install Products in accordance with manufacturer's instructions.
B. Align Products plumb, level and square.
C. Rigidly secure Products to adjacent supporting construction.
D. Glaze windows in accordance with manufacturer's instructions and Section __ __ __.
E. Seal perimeter joints in accordance with Section __ __ __.
F. Connect electrical components to power source.
G. Protection: Where dissimilar metals will contact each other, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended in writing by manufacturer for this purpose. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

ADJUSTING

A. Section 01 70 00 - Execution and Closeout Requirements {01700 - Execution Requirements}: Requirements for adjusting.
B. Adjust horizontal-sliding, transaction security windows to provide a tight fit at contact points for smooth operation and a secure enclosure.
C. Adjust transaction drawers to provide a tight fit at contact points for smooth operation and [weathertight and] secure enclosure.
D. Remove and replace defective work, including security windows that are warped, bowed, or otherwise unacceptable.

CLEANING AND PROTECTION

A. Section 01 70 00 - Execution and Closeout Requirements {01700 - Execution Requirements}: Requirements for cleaning.
B. Remove protective material from factory finished surfaces.

C. Wash surfaces by method recommended and acceptable to sealant and window manufacturer; rinse and wipe surfaces clean.
D. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant and window manufacturer.
E. Clean metal and glass surfaces to polished condition. 1. Lubricate sliding security window hardware. 2. Lubricate transaction drawer hardware.
F. Provide temporary protection to ensure that security windows are without damage at time of Substantial Completion.

REFERENCES

A. American Architectural Manufacturers Association:
    1. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
    2. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
B. American Society Mechanical Engineers Standards:
    1. ASME SA-240/SA-240M - Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
C. ASTM International:
    1. ASTM A27/A27M - Standard Specification for Steel Castings, Carbon, for General Application.
    2. ASTM A 36/A 36M. - Standard Specification for Carbon Structural Steel.
    3. ASTM A47/A47M - Standard Specification for Ferritic Malleable Iron Castings.
    4. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
    5. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
    6. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength.
    7. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
    8. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
    9. ASTM B221/B221M - Standard Specification for Aluminum and AluminumAlloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
    10. ASTM C1036 - Standard Specification for Flat Glass.
    11. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.
    12. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

13. ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
14. ASTM E488 - Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements.
15. ASTM E699 - Standard Practice for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating of Building Components.
16. ASTM F588 - Standard Test Methods for Resistance of Window Assemblies to Forced Entry Excluding Glazing.
17. ASTM F2329 - Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners.

D. California Model Building Security Ordinance:
    1. CMBSO - Section 15.52.100, Tests CAWM 301-90, Forced Entry Resistance Tests for Windows.

E. Consumer Products Safety Commission: 1. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing.

F. CSA International - Canadian Standards Association:
    1. CAN/CSA C22.2 No. 68-92 - Motor-Operated Appliances (Household and Commercial).
    2. CAN/CSA C22.2 No. 247- Operators and Systems of Doors, Gates, Draperies and Louvers.

G. DuPont Powder Coating Test Method: 1. DPC TM 10.219 - PCI Powder Smoothness.

H. Florida Building Code:
    1. Static Air Pressure Test. I. H.P. White Laboratory, Inc.: 1. HPW-TP0500.01: a. Level V. b. Level C Ballistics (.44 magnum).
    2. HPW-TP-0500.02 - Level B Ballistics (9mm). J. National Association of Architectural Metal Manufacturers. 1. NAAMM No.
    3. Finish: Ground unidirectional uniform finish obtained with 80 - 100 grit abrasive.

I. SAE International:
    1. AMS5511 - Steel, Corrosion-Resistant, Sheet, Strip, and Plate, 19Cr - 9.5Ni (304L), Solution Heat Treated.
    2. AMS5513 - Steel, Corrosion-Resistant, Sheet, Strip, and Plate 19cr 9.2Ni (SAE 30304) Solution Heat Treated.

J. Steel Structures Painting Council:
    1. SSPC Paint 20 - Zinc-Rich Primers (Type I - Inorganic and Type II - Organic).

K. Underwriters Laboratory:
    1. UL 73 - Motor-Operated Appliances.
    2. UL 325 - Door, Drapery, Gate, Louver, and Window Operators and Systems.
    3. UL 752 - Ballistic Standards:
        a. Level I MPSA 9mm.
        a. Level III SPSA .44 Magnum.
    4. UL 1995 - Heating and Cooling Equipment.