SECTION 08 41 15

SINGLE TRACK GLAZED WALL SYSTEMS - EXTERIOR AND INTERIOR

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\*\* NOTE TO SPECIFIER \*\* Nana Wall Systems, Inc.; Opening glass walls, folding glass wall systems, sliding glass wall systems.
This section is based on the products of Nana Wall Systems, Inc., which is located at:
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Corte Madera, CA 94925
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Web: <https://www.nanawall.com>
 [ [Click Here](https://www.arcat.com/arcatcos/cos34/arc34380.html) ] for additional information.
Nana Wall redefined the category of opening glass wall systems. During our 30 years in business, we have earned the trust of architects, builders, design professionals, and homeowners as a solutions provider for re-imagining how buildings, people and the elements interact. By combining precision engineering and outstanding design options across more than 20 unique systems, we advance design possibilities beyond the conventional for almost any space.

1. GENERAL
	1. SECTION INCLUDES
		1. Single Track Glazed Wall Systems:
			1. Thermally broken aluminum framed sliding glass wall systems. (HSW60)
			2. Interior all-glass window wall systems. (HSW75)
			3. Wood-framed sliding wall systems. (HSW66)
			4. All-glass acoustical sliding partitions. (PrivaSEE)
			5. All-glass weather resistant sliding wall systems. (ClimaCLEAR)
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.O. and blocking.
		2. Section 06 20 00 - Finish Carpentry.
		3. Section 07 27 00 - Air Barriers.
		4. Section 07 62 00 - Sheet Metal Flashing and Trim.
		5. Section 07 91 23 - Backer Rods.
		6. Section 08 40 00 - Entrances, Storefronts, and Curtain Walls.
		7. Section 08 41 13 - Aluminum-Framed Entrances and Storefronts
		8. Section 08 41 26 - All-Glass Entrances and Storefronts.
		9. Section 08 43 29 - Sliding Storefronts.
		10. Section 08 43 33 - Folding Glass Wall System.
		11. Section 08 51 13 - Aluminum Windows.
		12. Section 08 52 13 - Metal-Clad Wood Windows.
		13. Section 08 70 00 - Hardware
		14. Section 08 83 13 - Mirrored Glass Glazing.
		15. Section 09 22 16 - Non-Structural Metal Framing.O. and reinforcement.
		16. Section 10 23 26 - Operable Glass Partition\*.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Architectural Manufacturer's Association (AAMA):
			1. AAMA 502 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products
			2. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum
			3. AAMA 920 - Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems.
			4. AAMA 1304 - Voluntary Specification for Determining Forced Entry Resistance of Side-Hinged Door Systems.
			5. AAMA 2604 - Voluntary Specifications, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
			6. AAMA/WDMA/CSA 101/I.S.2/A440, NAFS, North American Fenestration Standard - Specification for Windows, Doors and Skylights.
		2. American National Standards Institute: ANSI Z97.1 - For Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods Of Test.
		3. ASTM International (ASTM):
			1. ASTM C1036 - Standard Specification for Flat Glass.
			2. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
			3. ASTM D1003 - Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics.
			4. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
			5. ASTM E283 - Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
			6. ASTM E330 - Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
			7. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
			8. ASTM E413 - Classification for Rating Sound Insulation.
			9. ASTM E547 - Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.
			10. ASTM E1332 - Standard Classification for Rating Outdoor-Indoor Sound Attenuation.
			11. ASTM E2068 - Standard Test Method to Determination of Operating Force of Sliding Windows and Doors.
			12. ASTM F842- Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact.
		4. Construction Products Directive (CPD): CE Mark.
		5. Consumer Product Safety Commission (CPSC): CPSC 16CFR-1201, Safety Standard for Architectural Glazing Materials.
		6. CSA Group (Canadian Standards Association): CSA A440S1 - The Canadian supplement to North American Fenestration Standards (NAFS) / Specification for windows, doors, and skylights.
		7. German Institute for Standardization (DIN):
			1. DIN EN 1191 - Windows and Pedestrian Doors - Mechanical Durability Test Method.
			2. DIN EN ISO 12400 - Windows and Pedestrian Doors - Mechanical durability - Requirements and classification
			3. DIN 52210-3, Testing of acoustics in buildings - Airborne and impact sound insulation - Laboratory measurements of sound insulation of building elements and field measurements between rooms.
			4. DIN 52210-4, Tests in Building Acoustics - Airborne and Impact Sound.
		8. International Building Code (IBC): IBC 2403.4 - Differential deflection of two adjacent unsupported sliding glass panels.
		9. International Organization for Standardization (ISO):
			1. ISO 9001 - Quality management systems.
			2. ISO 14001 - Environmental management systems.
		10. National Fenestration Rating Council (NFRC):
			1. NFRC 100 - Procedure for Determining Fenestration Product U-factors.
			2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
			3. NFRC 400 - Procedure for Determining Fenestration Product Air Leakage.
			4. NFRC 500 - Procedure for Determining Fenestration Product Condensation Resistance Rating Values.
		11. U.S. Environmental Protection Agency (EPA): Energy Star program.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Independently tested data listing performance criteria.
			4. Manufacturer's printed product literature for each system to be incorporated into the Work. Show performance test results and details of construction relative to materials, dimensions of individual components, profiles and colors.
			5. Manufacturers' Instructions: Owner's Manual from manufacturer including installation instructions, operation and maintenance data.
			6. Certificates: Submit CE Mark Certificate.
		3. Product Drawings: Including but not limited to the following.
			1. System component sizes, dimensions and framing R.O., configuration, sliding and non-sliding end single action panels, direction of swing, stacking layout, pivot or slide, configuration, swing panels, typical head jamb, side jambs and sill details, type of glazing material and handle height and field measurements.
			2. Elevations indicating rough opening requirements and details for field-applied components.
		4. Contract Closeout Submittal: Submit Owner's Manual from manufacturer. Identify Owner's Manual with project name, location and completion date, type and size of unit installed.
	2. QUALITY ASSURANCE
		1. Regulatory Requirements: CE Mark certified.
		2. Manufacturer: Complete, precision built, engineered, pre-fitted units by a single source manufacturer with 30-year experience in providing folding/sliding door systems for large openings in the North American market.
			1. ISO 9001: 2015 quality management system registration.
			2. ISO 14001: 2015 environmental management system registration.
		3. Installer Qualifications:
			1. Experienced in installation of manufacturer's products or similar products.
			2. Reference list of 3 projects of similar scale and complexity successfully completed in the last 3 years.
			3. Project names, locations, completion dates, names and telephone numbers of General Contractor and Owner's contact person.

\*\* NOTE TO SPECIFIER \*\* Delete if longer warranty is not required.

* + - 1. Installer trained and certified by manufacturer.
		1. Single Source: Furnish system materials from one manufacturer for entire Project.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver materials to job site in sealed, unopened cartons or crates.
			1. Upon receipt, inspect shipment. Ensure it is complete, in good condition and meets project requirements.

\*\* NOTE TO SPECIFIER \*\* Delete the following options if not specifying wood components.

* + - 1. Condition wood components to average prevailing relative humidity before installation. Do not subject wood components to extreme or rapid changes in heat or humidity. Do not use forced heat to dry out building.
		1. Store products in manufacturer's unopened packaging until installation. Store flat in well ventilated area, no direct sunlight, in a clean and dry location. Protect units against weather and defacement or damage from construction activities, especially to panel edges.
	1. PROJECT CONDITIONS
		1. Mark field measurements on Product Drawing submittal. Contractor shall field verify dimensions including but not limited to:
			1. Rough openings.
			2. Inset components.
			3. Stack storage area.
			4. Floor bolt socket locations.
			5. Threshold depressions to receive sill.
		2. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	2. WARRANTY
		1. Provide manufacturer's standard warranty against defects in materials and workmanship and as follows:
			1. Rollers: 10 years.
			2. Seal Failure of Insulated Glazing: 10 years.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Transparent Vertical Edge Weather Seal UV Resistance (PrivaSEE and ClimaCLEAR): 5 years.

\*\* NOTE TO SPECIFIER \*\* A manufacturer trained and certified installer doubles warranty coverage from 5 to 10 years. Delete if longer warranty is not required.

* + - 1. Other Components, excluding screens: 5 years beginning with the earliest of 120 days from date of delivery by manufacturer or date of Substantial Completion.

\*\* NOTE TO SPECIFIER \*\* Delete the following option unless specifying manufacturer's specific system approved or certified installer in Article for Quality Assurance.

* + - 1. Other Components (excluding screens): 10 years beginning with the earliest of 120 days from date of delivery by manufacturer or Date of Substantial Completion if installed by manufacturer's specific system approved or certified trained installer.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Nana Wall Systems, Inc., which is located at: 100 Meadow Creek Dr. Suite 250; Corte Madera, CA 94925; Toll Free Tel: 800-873-5673; Tel: 415-383-3148; Fax: 415-383-0312; Email: [request info (info@nanawall.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Nana+Wall+Systems,+Inc.&coid=34380&rep=&fax=415-383-0312&message=RE:%20Spec%20Question%20(08415nan):%20%20&mf=); Web: <https://www.nanawall.com>

\*\* NOTE TO SPECIFIER \*\* Delete the following two paragraphs; coordinate with requirements of Division 01 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for Substitutions: Considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. SINGLE-TRACK SLIDING GLASS WALL SYSTEMS
		1. Basis of Design: Model HSW60. Standard top-hung, single-track, thermally-broken interlocking aluminum-framed sliding glass storefront system that can be pocketed when open and have a swing door hinged off a side jamb or within a sliding panel. Manufacturer's standard aluminum frame and panel profiles, with head track, stacking bays, side jambs, sliding panels, and swing panels with dimensions as shown on Drawings.
			1. System Components: Aluminum frame, tracks, threshold, sliding panels, swing panels, stacking bays, sliding-swinging and locking hardware, weather stripping, glass and glazing, and accessories as required for a complete working installation.

\*\* NOTE TO SPECIFIER \*\* Delete insect screen if not required.

* + - * 1. Insect screen.

 \*\* NOTE TO SPECIFIER \*\* The performance criteria paragraph applies to Aluminum thresholds/low profile saddle sills only. Delete if not required. Weeps, when required, are field drilled by the installer to manufacturer's requirements. It is expected that the installed system's performance would be not more than 2/3rds of the following certified laboratory test data in accordance with AAMA 502.

* + 1. Performance Requirements: Lab tested.
			1. Air infiltration per ASTM E283: 0.3 cfm per sq ft (1.5 L per sec per sq m) at a static air pressure difference of 1.6 psf (75 Pa) with incorporated swing doors.
			2. Water penetration per ASTM E331 and ASTM E547: No uncontrolled water leakage at a static test pressure in:
				1. Units with Weepholes from Middle Channel: 2.92 psf (140 Pa)
				2. Units with Weepholes from Inner Channel: 6.0 psf (290 Pa)
			3. Structural loading per ASTM E330: Pass.
				1. Load Structure: At 1.5 times design wind pressure with no glass breakage or permanent damage to fasteners or storefront components:

Design Pressure Positive: 45 psf (2160 Pa).

Design Pressure Negative: 45 psf (2160 Pa).

* + - 1. Forced entry per ASTM F842: Meets Type A - Grade 40.
			2. Florida Product Approval; Wind Loading, Panel Sizes (WxH): Up to 43 x 120 inches (1.07 x 3.05 m) high subject to manufacturer size chart: FL 25540.1
			3. Swing Panel - Operation / Cycling Performance (AAMA 920): 500,000 cycles
			4. Sliding Glass Storefront Units tested to AAMA/WDMA/CSA 101/I.S.2/A440.

\*\* NOTE TO SPECIFIER \*\* The NFRC 100, 200, 400 and 500 ratings meet Prescriptive Method requirements for U-factor, SHGC, Air Leakage and CRF of California Title 24, Chapter 3, Building Envelope Requirements. Delete if not required.

* + - 1. Project Wind Loads (ASCE 7): System designed to withstand 20.0 psf (958 Pa) core required positive and negative pressure as minimum loads normal to the plane of the wall as required by authorities having jurisdiction.
			2. Thermal Performance (U-factor): NFRC 100 rated, certified and labeled
			3. Solar Heat Gain Coefficient plus Visible Light Transmission: NFRC 200 rated, certified and labeled
			4. Air Leakage: NFRC 400 rated certified and labeled.
			5. Condensation Resistance Factor: NFRC 500 rated, certified and labeled.
			6. Acoustic Performance: STC (Rw)

\*\* NOTE TO SPECIFIER \*\* Delete System STC options not required. Acoustical system STC and Rw ratings per ASTM E413 and DIN 52210-3 are from testing of full panel systems by an independent and accredited laboratory in accordance with ASTM E90-09 and DIN 52210-4 test procedure. A complete and unedited written test report is available upon request. See manufacturer's latest published data regarding performance.

* + - * 1. STC (Rw) 43 (43) with head track recessed and 1-9/16 inch (40 mm) double IGU, 8 mm laminated and 8 mm tempered STC 46 glass.
				2. STC (Rw) 41 (41) with 1-9/16 inch (40 mm) double IGU, 8 mm laminated and 8 mm tempered STC 46 glass.
				3. STC (Rw) 37 (38) and OITC 31 with 1-11/32 inch (34 mm) double IGU, 8 mm laminated and 6 mm tempered STC 41 glass.
				4. STC (Rw) 32 (33) and OITC 26 with 15/16 inch (24 mm) double IGU, 4 mm and 4 mm STC 31 tempered glass.

\*\* NOTE TO SPECIFIER \*\* Acoustical system STC (Rw) ratings below are calculated interpolations based on the full panel systems testing with the four glass options above. Calculations of system STC (Rw) from other glazing STC is available on request.

* + - * 1. STC (Rw) 43 (43) with head track recessed and 1-5/8 inch (42 mm) double IGU, 8 mm + 8 mm STC 47 enhanced laminated glass.
				2. STC (Rw) 41 (41) with 1-5/8 inch (42 mm) double IGU, 8 mm + 8 mm STC 47 enhanced laminated glass.
				3. STC (Rw) 38 (38) with 1-7/16 inch (36 mm) double IGU, 6 mm + 6 mm STC 42 laminated glass.
				4. STC (Rw) 36 (36) with 3/8-inch (10 mm) STC 38 laminated glass.
				5. STC (Rw) 35 (35) with 1/4-inch (6 mm) STC 35 laminated glass.
				6. STC (Rw) 32 (32) with 1/4-inch (6 mm) STC 31 tempered glass.

\*\* NOTE TO SPECIFIER \*\* Energy Star values for doors with greater than 50 percent glass can be achieved through the use of specific glass units meeting the following requirements:

Northern and North-Central Region: Less than or equal to 0.30 U-factor; 0.40 SHGC.
South-Central and Southern Region: Less than or equal to 0.30 U-factor; 0.25 SHGC.
Energy Star Air Leakage Rating Requirements (ASTM E283 in accordance with NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440-11):
Window, Sliding Door, or Skylight: Less than or equal to 0.03 cfm per sq ft (1.54 L per sec per sq m).
Swinging Door: Less than or equal to 0.50 cfm per sq ft (2.56 L per sec per sq m).
For guidance purposes only as Nana Wall Systems is not a participant of the Energy Star Program. Refer to Nana Wall Systems.

* + - * 1. EPA Energy Star: Unit with specific glazing to comply with US Environmental Protection Agency Energy Star Program requirements.
				2. The manufacturer must have a quality system registration per ISO 9001: 2015.
				3. The manufacturer must have an environmental management system registration per ISO 14001: 2015.
		1. Design Criteria:
			1. Sizes and Configurations: As indicated on Drawings for selected number and size of panels, location of swing panels, and location of tracks and stacking bays.
			2. Operation: Adjustable sliding and swing hardware with top and bottom track.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required. See manufacturer Drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature. See Drawings for selected number of panels and configuration.

* + - 1. Panel Configuration: Straight.
			2. Panel Configuration: Segmented curve.
			3. Panel Configuration: 90 degree angle turn.
			4. Panel Configuration: 135 degree angle turn.
			5. Panel Configuration: Window/door combination.

\*\* NOTE TO SPECIFIER \*\* Delete stack storage configuration options not required.

* + - 1. Stack Storage Configuration: Remote pocket.
			2. Stack Storage Configuration: Jamb wall.
			3. Stack Storage Configuration: Behind swing door.
			4. Stack Storage Configuration: Straight wall.
			5. Stack Storage Configuration: Jamb wall pockets.
			6. Mounting Type: Top hung.

\*\* NOTE TO SPECIFIER \*\* Delete panel type not required.

* + - 1. Panel Type: Multiple unattached with Entry/Egress panel hinged to side jamb.
			2. Panel Type: Multiple unattached with Entry/Egress panel convertible to sliding panel.
		1. Fabrication: Extruded aluminum frame and panel profiles, corner connectors, hinges, sliding and folding hardware, locking hardware, handles, glass and glazing, and weather-stripping components.
			1. Factory pre-assembled. Ship with system components and installation instructions.
			2. Exposed work matched to produce continuity of line and design with joints.
			3. No raw edges visible at joints.
		2. Materials:
			1. Head Track: Clear anodized aluminum with aluminum covers on both sides that match aluminum profile finish.

\*\* NOTE TO SPECIFIER \*\* Delete panels options not required. Refer to manufacturer's size chart for glass panel sizes requiring the use of horizontal mullions

* + - 1. Panels: Single lite; standard.
			2. Panels: Multiple lites with horizontal mullions at heights indicated from the bottom of the panel.
			3. Panels: Single lite with simulated divided lites in pattern indicated.

\*\* NOTE TO SPECIFIER \*\* Maximum W x H panel sizes up to 12 ft 0 inches x 4 ft 0 inches (3.660 by 1.2 m). Panels over 10 ft 6 inches high require an intermediate horizontal mullion.

* + - 1. Panel Size (W x H): As indicated on the Drawings.
			2. Panel Depth: 2-5/16 inches (59 mm).
			3. Rail Depth: 2-5/16 inch (59 mm)
			4. Top Rail Width: 4-5/16 inch (110 mm)
			5. Bottom Rail Width Sliding Panel: 2-3/8 inch (60 mm).
			6. Bottom Rail Width Swing Panel: 4-5/16 inch (110 mm).

\*\* NOTE TO SPECIFIER \*\* Kickplate height between 6 and 12 inches (152 and 305 mm) high.

* + - 1. Kickplate: Manufacturer's standard (in/mm): \_\_\_\_\_\_\_\_.
			2. Frames:
				1. Top Track Depth: 3-1/8 inch (80 mm).
				2. Top Track Width: 4-3/8 inch (111 mm)
				3. Side Jambs Width: 1-9/16 inch (40 mm)

\*\* NOTE TO SPECIFIER \*\* Delete sill type and finish options not required.

* + - 1. Sill Type: Standard flush sill; thermally broken.
			2. Sill Type: Low profile saddle sill; thermally broken.
			3. Sill Type: No sill, floor sockets without a floor track.
			4. Sill Type: Surface mounted interior sill.
			5. Sill Finish: Aluminum with a clear anodized finish.
			6. Sill Finish: Aluminum with a dark bronze anodized finish.
			7. Aluminum Extrusion: AIMgSi0.5 alloy, 6063-T5 (F-22 - European standard).
				1. Thickness: 0.078-inch (2.0 mm) nominal.
				2. Thermal Break: 3/4 to 15/16 inch (20 to 24 mm wide polyamide plastic reinforced with glass fibers. Thinner or poured and de-bridged type thermal breaks not acceptable.

\*\* NOTE TO SPECIFIER \*\* Delete aluminum finish options not required. Refer to manufacturer's literature for powder coat colors available.

* + - 1. Aluminum Finish, Anodizing per AAMA 611: Clear.
			2. Aluminum Finish, Anodizing per AAMA 611: Dark bronze.

\*\*NOTE TO SPECIFIER \*\* Delete powder coat finish option if not required. Dual color options are only available with powder coated finishes.

* + - 1. Aluminum Finish; Powder Coating per AAMA 2604.

\*\* NOTE TO SPECIFIER \*\* Delete interior and exterior options not required.

* + - * 1. Interior: Color as selected from manufacturer's 50 standard color selection.
				2. Interior: RAL high gloss finish, standard color as selected.
				3. Interior: RAL matte finish, standard color as selected.
				4. Interior: Custom finish as selected by the Architect.
				5. Exterior: Match interior finish specified.
				6. Exterior: Color as selected from manufacturer's 50 standard color selection.
				7. Exterior: RAL high gloss finish, standard color as selected.
				8. Exterior: RAL matte finish, standard color as selected.
				9. Exterior: Custom finish as selected by the Architect.

\*\* NOTE TO SPECIFIER \*\* Specify with Low Profile Saddle Sills for resistance against wind driven rain. Weeps are to be drilled in the field by the installer to manufacturer's requirements. It is expected that the installed system's performance would be not more than 2/3rds of the following certified laboratory test data in accordance with AAMA 502. Flush Sills, Surface Mounted Interior Sills, and Floor Sockets without a Sill have no rating against wind driven rain. Delete aluminum thresholds options not required.

* + - 1. Aluminum Thresholds: Standard flush sill. Thermally broken with polyamide. Clear anodized.
			2. Aluminum Thresholds: Standard flush sill. Thermally broken with polyamide. Dark bronze anodized.
			3. Aluminum Thresholds: Low profile saddle sill. Thermally broken with polyamide. Clear anodized.
			4. Aluminum Thresholds: Low profile saddle sill. Thermally broken with polyamide. Dark bronze anodized.
			5. Aluminum Thresholds: Surface mounted interior sill. Clear anodized.
			6. Aluminum Thresholds: Surface mounted interior sill. Dark bronze anodized.
			7. Aluminum Thresholds: No sill, units with adjustable floor sockets.

\*\* NOTE TO SPECIFIER \*\* Delete panel lite/mullion configuration options not required. Panels over 120 inches high require an intermediate horizontal mullion.

* + - 1. Panel Lite/Mullion Configuration: Standard single lite.
			2. Panel Lite/Mullion Configuration: Horizontal mullions at specified heights from the bottom of the panel as shown on the Drawings.
			3. Panel Lite/Mullion Configuration: Simulated divided lites in pattern as shown on Drawings.
		1. Glass and Glazing:

\*\* NOTE TO SPECIFIER \*\* Low iron, solar bronze, solar gray and laminated glass types are available. Select and edit glass types to meet building code, wind-load design, acoustic, bullet resistant, impact resistant and/or security and other project requirements. Verify full range of available options with size and weight requirements of Nana Wall model selected. Contact Nana Wall for availability of many commercial glass and glazing types. For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers.

* + - 1. Vision Glass: As selected by Architect from manufacturer's full range of standard available options.
			2. Safety Glazing per ASTM C1036, ASTM C1048, ANSI Z97.1 and CPSC 16CFR 1201.

\*\* NOTE TO SPECIFIER \*\* Dry glazing helps reduce instances of seal failure.

* + - 1. Manufacturer's Glass Lites: Dry glazed with glass stops on the inside.

\*\* NOTE TO SPECIFIER \*\* Delete glass type options not required.

* + - 1. Glass Type: Tempered.
			2. Glass Type: Tempered and laminated.
			3. Glass Type: Laminated.
			4. Glass Type: Reduced iron; standard.
			5. Glass Type: Low iron.
			6. Glass Type: Solar bronze.
			7. Glass Type: Solar gray.
			8. Glass Type: Bird safe.

\*\* NOTE TO SPECIFIER \*\* Delete glass lite options not required.

* + - 1. Glass Lite; Single: 3/8 inch (10 mm) STC 38 laminated glass to achieve unit STC of 36.
			2. Glass Lite; Single: 1/4 inch (6 mm) STC 35 laminated glass to achieve unit STC of 35.
			3. Glass Lite; Single: 1/4 inch (6 mm) STC 31 tempered glass to achieve unit STC of 32.
			4. Glass Lite; Double IGU: 1-5/8 inch (42 mm), 8 mm + 8 mm STC 47 enhanced laminated glass with head track recessed to achieve unit STC of 43.
			5. Glass Lite; Double IGU: 1-5/8 inch (42 mm), 8 mm + 8 mm STC 47 enhanced laminated glass to achieve unit STC of 41.
			6. Glass Lite; Double IGU: 1-7/16 inch (36 mm) 6 mm + 6 mm STC 42 laminated glass to achieve unit STC of 38.
			7. Glass Lite; Double IGU: 15/16 inch (24 mm) 4 mm + 4 mm STC 31 tempered glass to achieve unit STC of 32.
			8. Glass Lite; Triple IGU: 1-7/16 inch (36 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Delete IGU fill, surface, and spacer options not required. Delete all if IGU glazing is not required.

* + - 1. IGU Fill: Air filled
			2. IGU Fill: Argon filled.
			3. IGU Fill: Krypton filled.
			4. IGU Surface: Clear.
			5. IGU Surface: Low-E coating on No. 2 surface of double IGU.
			6. IGU Surface: Low-E coating on No. 2 and No. 4 surface of double IGU.
			7. IGU Surface: Low-E coating on No. 2 and No. 5 surface of triple IGU.
			8. Glass Spacers: Manufacturer's standard.
			9. Glass Spacers: Gray finish with capillary tubes.
			10. Glass Spacers: Dark bronze finish with capillary tubes.
			11. Glass Spacers: Gray finish without capillary tubes.
			12. Glass Spacers: Dark bronze finish without capillary tubes.
		1. Locking Hardware and Handles:

\*\* NOTE TO SPECIFIER \*\* Delete main entry panel and subsequent options not required. Note other compatible lever handle styles and finishes are available from other suppliers.

* + - 1. Main Entry Panels for Models with a Swing Panel or Pair of Swing Panels:
				1. Lever handles on inside and outside.
				2. Lever handles with return on inside and outside.
				3. Lockset with lockable latch.
				4. Multi-point locking with concealed dead bolt and rods at top and bottom on primary panel.
				5. After turn of key or thumb-turn, depression of handles withdraws latch.
				6. Lifting of handles engages rods and key or thumb turn engages deadbolt and operates lock.

\*\* NOTE TO SPECIFIER \*\* Lever handle with return only available in "Brushed satin stainless steel."

* + - * 1. Lever Handle Finish: Brushed satin stainless steel; standard.
				2. Lever Handle Finish: Titanium black stainless steel; standard.

\*\* NOTE TO SPECIFIER \*\* Lever handle below may require an upcharge.

* + - * 1. Lever Handle Finish: Copper-nickel stainless steel antiviral and antimicrobial.
				2. Lever Handle Finish: Oil rubbed bronze solid brass.
				3. Lever Handle Finish: Satin nickel solid brass.
				4. Lever Handle Finish: White solid brass.
				5. Locking: Standard profile cylinder
				6. Locking: Adapter for Small Format Interchangeable Core.

\*\* NOTE TO SPECIFIER \*\* Recommended with a door closer.

* + - 1. Main Entry Panels for Models with Swing Panels: Manufacturer's push-pull handles with separate lockset and dead bolt.
				1. Push-pull handles in a brushed stainless-steel finish.

Flat Handles: Stainless steel brushed satin finish.

Flat Handles: Stainless steel titanium black finish.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel finish is available with an upcharge.

Flat Handles: Stainless steel copper-nickel finish.

\*\* NOTE TO SPECIFIER \*\* Panic device hardware by others invalidates manufacturer's design wind-load pressure test.

* + - 1. Main Entry Panels for Models with Swing Panels: No hardware or locking provided by manufacturer; Field installed panic device by Section 08 71 00 - Door Hardware.

\*\* NOTE TO SPECIFIER \*\* Operable from inside only and there is no latch..

* + - 1. Main Entry Panel for Models without Swing Panel: Flat handle on inside only with concealed two-point locking hardware operated by 180 degree turn of handle.

\*\* NOTE TO SPECIFIER \*\* Delete sliding panel option and subsequent options not required.

* + - 1. Sliding Panel to be Opened First for Models without a Swing Panel: L-shaped handle on the inside, flat handle on the outside and lock set with profile cylinder. Operation of lockset is by turn of key from the outside and with a thumb-turn from the inside with a two-point locking hardware operated by 180 degree turn of the handle.
				1. L-Shaped Handles: Stainless steel brushed satin finish.
				2. L-Shaped Handles: Stainless steel titanium black finish.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel handle may require an upcharge.

* + - * 1. L-shaped Handles: Stainless steel copper-nickel finish.
			1. Sliding Panel to be Opened First for Models without a Swing Panel: Flat handle on the inside and on the outside and a lockset with a profile cylinder. Operation of lock set is by turn of key from the outside and from the inside with a two-point locking hardware operated by 180 degree turn of the handle.
				1. Flat Handles: Stainless steel brushed satin finish.
				2. Flat Handles: Stainless steel titanium black finish.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel handle may require an upcharge.

* + - * 1. Flat Handles: Stainless steel copper-nickel finish.
			1. Secondary Panels: Handles and concealed one or two point locking hardware operated by 180 degree turn of handle. Face applied flush bolt locking not acceptable

\*\* NOTE TO SPECIFIER \*\* Delete handle options not required.

* + - * 1. Flat Handles: Stainless steel brushed satin finish; standard.
				2. Flat Handles: Stainless steel titanium black finish; standard.

\*\* NOTE TO SPECIFIER \*\* Option below may require an upcharge.

* + - * 1. Flat Handles: Stainless steel copper-nickel finish.
				2. Flat Handles: Aluminum with powder coat finish and color to match frame.
				3. Removable custodial handles.
			1. Handle Height: 41-3/8 inches (1050 mm) centered from bottom of panel or as otherwise indicated on Drawings.
			2. Aluminum Locking Rods:
				1. Rod Stroke: 15/16 inch (24 mm).
				2. End Caps: Fiberglass reinforced to meeting structural loading requirements of application. On top and bottom.

\*\* NOTE TO SPECIFIER \*\* Delete additional profile cylinders option not required.

* + - 1. Additional Profile Cylinders: Keyed alike.
			2. Additional Profile Cylinders: Keyed differently.
		1. Incorporated Swing Panel:
			1. Crank handle with pole stored in flap on panel stile to convert sliding panel to a swing panel and vice versa.
			2. Polyamide conversion box on upper arm of top rail and circular cover profile on pivot side of upper arm of top rail.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - * 1. Finish: Silver gray.
				2. Finish: White.
				3. Finish: Black.
				4. Finish: Dark brown.
			1. Swing Door Attachment: Geared positive attachment only to affix swing door to the frame of incorporated swing doors for ease of operation and rigid security.
			2. Pinch Resistance: Round extrusions on pivot side of incorporated swing panels.
			3. For No sill, floor sockets without a floor track option, provide stainless-steel finish pivot box for socket.
		1. Sliding Panel Hardware: Manufacturer's standard.
			1. Panel Carriers: Three-wheeled, sintered, oil impregnated bronze, unidirectional with one-wheeled, polyamide guide roller attached to panels with stainless steel rods. Two per panel.
				1. Carrying Capacity: 330 lbs (150 kgs). For two carriers on a panel.

\*\* NOTE TO SPECIFIER \*\* Corner connectors are only available in powder-coated finishes. If anodized panel and frame finishes are selected, there may be aesthetic issue.

* + - * 1. Provide on all four corners of sliding panels and incorporated swing panels, thermally broken, die cast zinc multifunctional corner fittings with carrier connectors, male and female locking receptacles, hinges and hinge pins as required.
				2. Finish: Powder coated, closest match to finish of frame and panels.
				3. Adjustment: Capable of specified amount of adjustments without removing panels from tracks.

\*\* NOTE TO SPECIFIER \*\* The manufacturer's weather stripping is determined at the factory by the direction of swing, the panel configuration, the type of locking and the type of sill.

* + 1. Weather Stripping:
			1. Between Panels: Double layer EPDM.
			2. Between Panel and Frame: EPDM gasket, or brush seal.
			3. Bottom of Panels: Brush seals with two-layer fiberglass reinforced polyamide fin attached at inner and outer edge at bottom of door panels with recessed sill or on frame for sealing between panels and between panel and frame.
			4. UniverSILL: For outswing low profile saddle sill, UniverSILL gasket add on available for additional air and water protection.
		2. Fasteners: Stainless steel machine screws for connecting frame components.
		3. Accessories: Sidelights, transoms, corner posts, or single or double doors as indicated.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. INTERIOR ALL-GLASS WINDOW WALL SYSTEMS.
		1. Basis of Design: Model HSW75. Top-hung, single track sliding system with no vertical profiles as manufactured by Nana Wall Systems, Incorporated. All glass, top-hung, single track sliding system with no vertical profiles, and a 2-in-1 release system allowing for a selected sliding panel to convert into a single and double action panel or vice-versa. Manufacturer's standard top and bottom rail profiles, with head track, stacking bays, sliding single/action panels and non-sliding end single/action panels with dimensions as shown on Drawings.
			1. System Components: Aluminum rails, top track with stacking bays, sliding panels, non-sliding end single/double action panels, sliding single and double action panels, sliding/swinging hardware, locking hardware, door closers, sealing brushes and gaskets, glass and glazing, panic hardware by others, suspended ceiling support profile, and accessories as required for a complete working installation.
		2. Performance Requirements:
			1. Structural Load Deflection per ASTM E330: Pass.
			2. Forced Entry Resistance per AAMA 1304: Pass.
			3. Load Structure: At 1.5 times design wind pressure with no glass breakage or permanent damage to fasteners or storefront components.
				1. Positive Design Pressure: 30 psf (1436 Pa).
				2. Negative Design Pressure: 30 psf (1436 Pa).
			4. Distributed Load: 150 lb. (68 kg) Across Glass with Optional H Profile (IBC 2403.4): Less than 0.1 inch (2.5 mm).

\*\* NOTE TO SPECIFIER \*\* Applies between sliding only panels and not for single and double action panels or end sliding panels.

* + - 1. Operating Force (ASTM E2068):
				1. Non-sliding end single/double action panel:

Initiate Motion: 1 lbf (4 N).

Maintain Motion: 1 lbf (4 N).

* + - * 1. Shoot Bolts:

Initiate Motion: 4 lbf (18 N).

Maintain Motion: 4 lbf (18 N).

* + - * 1. Sliding Panels:

Initiate Motion: 1.5 lbf (7 N).

Maintain Motion: 1 lbs (4 N).

\*\* NOTE TO SPECIFIER \*\* Forced entry testing results are only applicable for the test unit type of locking. See manufacturer's latest published data regarding performance.

* + - 1. Forced Entry (AAMA 1304, DIN EN 1191): Pass.
			2. Non-Sliding End and Sliding Single/Double Action Panels - Operation / Cycling Performance:
				1. DIN EN ISO 12400: 100,000 cycles.
				2. AAMA 920: 500,000 cycles.
			3. Release System: 2-in-1, allowing a selected sliding panel to convert into a single and double action panel or vice versa.
		1. Design Criteria:
			1. Sizes and Configurations: As indicated by the drawings for selected number and size of panels, location of non-sliding end single/double action panels, location of sliding single/double/action panels and location of tracks and stacking bays.
			2. Unit Operation: Adjustable sliding hardware with top and bottom rails:
				1. Sliding panels only.
				2. Sliding panels with sliding single/double action panels.
				3. Sliding panels with non-sliding end single/double action panels.
				4. Sliding panels with both sliding single/double action panels and non-sliding end single/double action panels.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required.

* + - * 1. Panel Configuration: Straight.
				2. Panel Configuration: Segmented curve.
				3. Panel Configuration: True curve.
				4. Panel Configuration: 90-degree angle turn/ open corner.
				5. Panel Configuration: 135-degree angle turn.
				6. Panel Configuration: Window and door combination.
				7. Panel Configuration: T intersection.

\*\* NOTE TO SPECIFIER \*\* Select standard stack storage configuration from manufacturer's website, <https://www.nanawall.com/products/hsw75/options> .

Perpendicular to wall: Select from Concepts A, H, and I.

Parallel to wall: Select from Concepts B, C, D, E, F, G, J, L, M and N.

Insert concept designation in blank below. Delete options for stack storage configuration not required.

* + - * 1. Stack Storage Configuration: Perpendicular to wall, \_\_\_\_\_\_\_\_.
				2. Stack Storage Configuration: Parallel to wall, \_\_\_\_\_\_\_\_.
				3. Stack Storage Configuration: Custom, as indicated on Drawings.
			1. Mounting Type: Top hung.
			2. Sill Type: Eccentric floor sockets with no floor track.
		1. Fabrication: Extruded aluminum frame and rail profiles, sliding hardware, locking hardware and handles, and glass to construct all glass sliding partition walls.
			1. Factory pre-assembled. Shipped with components and installation instructions.
			2. Exposed work matched to produce continuity of line and design with joints.
			3. No raw edges visible at joints.
			4. Frame and Panels: Manufacturer's standard top and bottom rail profiles, with head track, stacking bays, sliding single/action panels and non-sliding end single/action panels.
				1. Dimensions as shown on Drawings.
				2. Panels: Single lite.
				3. Mounting Type: Top-hung.
		2. Materials:

\*\* NOTE TO SPECIFIER \*\* Delete panel size options not required.

Sliding Panel Sizes (W x H): Up to 49 x 126 inch (1245 x 3200 mm).

Sliding Single and Double Action Panel Sizes (W x H): Up to 39 x 126 inch (1000 x 3200 mm).

Non-Sliding Single and Double Action Panel Sizes (W x H): Up to 43 x 126 inch (1092 x 3200 mm).

* + - 1. Panel Size for Sliding Panels (in/mm): \_\_\_\_\_\_.
			2. Panel Size for Sliding Panels: As indicated on the Drawings.
			3. Panel Size for Sliding Single and Double Action Panels (in/mm): \_\_\_\_\_\_.
			4. Panel Size for Sliding Single and Double Action Panels: As indicated on the Drawings.
			5. Panel Size for Non-Sliding Single and Double Action Panels (in/mm): \_\_\_\_\_\_.
			6. Panel Size for Non-Sliding Single and Double Action Panels: As indicated on the Drawings.
			7. Head Track (H x D): 3-1/16 x 2-3/4 inch (78 x 70 mm).

\*\* NOTE TO SPECIFIER \*\* Suspended ceiling support profile is optional. Not recommended for parking bay areas. Delete if not required.

* + - 1. Suspended ceiling support profile.

\*\* NOTE TO SPECIFIER \*\* Rail depth applies to 1/2 inch (12 mm) thick glass. Depth will be greater when thicker glass is used.

* + - 1. Top and Bottom Rail Depth: 1-7/16 inches (36 mm).

\*\* NOTE TO SPECIFIER \*\* Delete top rail height options not required. 3-15/16 inch (100 mm) is standard.

* + - 1. Top Rail Height: 3-15/16 inches (100 mm).
			2. Top Rail Height: 5-1/4 inches (133 mm).
			3. Top Rail Height: 7-13/16 inches (198 mm).
			4. Top Rail Height: 10 inches (254 mm).

\*\* NOTE TO SPECIFIER \*\* Custom top rail widths are available in 3/16 inch (5 mm) increments from 5-1/4 inch (133 mm) to 7-13/16 inch (198 mm).

* + - 1. Top Rail Height (in/mm): \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete bottom rail width options not required. 3-15/16 inches (100 mm) is standard.

* + - 1. Bottom Rail Width: 3-15/16 inches (100 mm).
			2. Bottom Rail Width: ADA, chamfered door bottom rail, 4-3/4 inch (120 mm).
			3. Bottom Rail Width: 5-1/4 inch (133 mm).
			4. Bottom Rail Width: 7-13/16 inch (198 mm).
			5. Bottom Rail Width: ADA, 10 inch (254 mm) kick plate.
			6. Rail End Edges and Cap: Smooth with bumpers on one panel end mitered at corner panels.
			7. Rail End Cap Finish: Closest aluminum match to rail finish.
			8. Aluminum Extrusions: AIMgSi0.5 alloy, 6063-T5 (F-22 - European standard).
				1. Thickness: 0.078 inch (2.0 mm) nominal.
			9. Aluminum head track, hinges/pivot points and face of top and bottom rails.

\*\* NOTE TO SPECIFIER \*\* Specify post assembly clear coat for greater corrosion resistance. Delete finish options not required.

* + - * 1. Finish: Anodized per AAMA 611. Color: Clear.
				2. Finish: Anodized per AAMA 611. Color: Dark bronze.
				3. Finish: Anodized per AAMA 611. Color: Black.
				4. Finish: Anodized per AAMA 611. Color: Brushed.
				5. Finish: Anodized per AAMA 611. Post assembly clear coated.
				6. Finish: Powder coat per AAMA 2604.

Color as chosen from manufacturer's full RAL selection.

\*\* NOTE TO SPECIFIER \*\* Delete glass level option not required.

Gloss Level: High gloss.

Gloss Level: Matte.

Custom finish as selected by the Architect.

* + - * 1. Metal Cladding on Face of Top and Bottom Rails:

\*\* NOTE TO SPECIFIER \*\* Delete metal and finish for cladding not required.

Brushed stainless steel.

Polished stainless steel.

Polished brass.

Satin brass.

\*\* NOTE TO SPECIFIER \*\* Select and edit glass types to meet building code, wind-load design, acoustic and/or security, and other project requirements with other glass available from manufacturer such as low iron, white board, decorative, acrylic, wooden, and stainless-steel mesh. For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers.

* + 1. Glass and Glazing:
			1. Safety Glazing: In compliance with ANSI Z97.1, CPSC 16CFR 1201, ASTM C1036 and ASTM C1048.
			2. Glass Type: Tempered single lite glass.
			3. Glass Type: Laminated single lite glass.

\*\* NOTE TO SPECIFIER \*\* Delete glazing thickness options not required.

* + - 1. Glass Thickness: 1/2 inch (12 mm).

\*\* NOTE TO SPECIFIER \*\* Glass thicknesses below, are NOT for use with sliding single/double actions panels.

* + - 1. Glass Thickness: 9/16 inch (15 mm).
			2. Glass Thickness: 3/4 inch (19 mm).
			3. Glass Thickness: 13/16 inch (21 mm).
			4. Glass Thickness: 1 inch (25 mm).
			5. Edges: Flat polished/ground butt for all straight panels and mitered/beveled at corner panels.
			6. Factory Glazing:
				1. Clamp installed for equal distribution of weight.
				2. Glass edge top rail clearance to be no more than 1/8-inch (3 mm) with a minimum 7/8-inch (22 mm) bite.
				3. Glass installed with bolts only is not acceptable.
		1. Sliding Panels Hardware:
			1. Two unidirectional sliding panel carriers attached to panels with a side adjustable stainless-steel cast shoe and stainless-steel ball bearing axle.
			2. Carriers: Glass fiber reinforced polyamide wheels with memory effect and polyamide bumpers.

\*\* NOTE TO SPECIFIER \*\* Delete carrying capacity option not required.

* + - 1. Maximum Carrying Capacity: Two carriers per panel, 300 lbs (150 kg).
			2. Maximum Carrying Capacity: Two carriers per panel, 400 lbs (180 kg) for heavier panels.
			3. Carriers installed on panels such that panels can be guided single handed, into stacking bay without error.
			4. Non-single-handed operation, not acceptable.
			5. Adjustment: Capable of specified adjustments without removing panels from tracks.
		1. Sliding Single and Double Action Panels Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete either the single or double action option not required.

* + - 1. Single Action: Overhead door closer and standard top rail
			2. Double Action: Overhead door closer and indented top rail.
			3. Top Rail: 2-part with pivot point.
			4. Release System: Patented 2-in-1 release for top pivot point with crank handle to convert sliding panel to a single or double panel and vice versa.
				1. Two-step release systems at top pivot point are not acceptable.
				2. Closest aluminum finish Locking Box on upper arm of top rail and Locking Box Receiver on the side of the head track.
			5. Manufacturer's standard overhead door closer in closest match.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - * 1. Finish: Aluminum.
				2. Finish: Stainless Steel.
			1. Brushed stainless steel pivot box with a quick release floor bolt with spring loaded security feature to engage bottom pivot point.
		1. Non-Sliding End Single/Double Action Panels Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hardware options not required.

* + - 1. Single action panel with pivot point; standard.
			2. Single action with bottom door closer.
			3. Single action offset pivot hinged panel that can swing 180 degrees.
			4. Overhead door closer; single action panel only.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - * 1. Finish: Aluminum.
				2. Finish: Stainless Steel.
			1. Double action with stainless steel finish bottom door closer.
		1. Locking Systems:

\*\* NOTE TO SPECIFIER \*\* Delete locking systems options not required.

* + - 1. Between Sliding Panels:

\*\* NOTE TO SPECIFIER \*\* Delete floor bolts options not required. The first paragraph below is standard.

* + - * 1. Floor Bolts: Concealed edge-operated interlocking; possible only if the angle change between panels is less than 12 degrees.
				2. Floor Bolts: Self-activated automatic interlocking for ease of operation; possible for only straight units.
				3. Floor Bolts: Foot activated.
				4. Floor Bolts: With mortise cylinder by others, where needed.
			1. First Panel in a Sliding Panels Only system:

\*\* NOTE TO SPECIFIER \*\* Delete floor bolts options not required. Floor bolt with mortise cylinder is recommended when panel operation control is needed.

* + - * 1. Floor Bolts: With mortise cylinder.
				2. Floor Bolts: Foot activated.
				3. Floor Bolts: Concealed interlock into adjacent structure.
			1. Sliding Single/Double Action Panels or Non-sliding End Double Action Panels:
				1. Floor Bolts: With mortise cylinder.
				2. Floor Bolts: Foot activated.
				3. No locking if selected with door closer.
				4. Locking ladder pull handles on both sides with bumpers in brushed stainless steel finish with locking at handle height with mortise cylinder.
			2. Non-Sliding End Single Action Panels:
				1. Floor Bolts: With mortise cylinder.
				2. Floor Bolts: Foot activated.
				3. No locking if selected with door closer.

\*\* NOTE TO SPECIFIER \*\* Provide template for holes and cut outs needed in glass.

* + - * 1. Panic hardware by others.
				2. Locking ladder pull handles on both sides with bumpers in brushed stainless steel finish with locking at handle height with mortise cylinder.
		1. Lockset: Mortise cylinder. 1-1/8-inch mortise lockset, Yale cam clear anodized finish, as a temporary construction core.

\*\* NOTE TO SPECIFIER \*\* Delete final locking and subsequent options not required.

* + - 1. Final locking by others: Key operation.
				1. Key operation from either side
				2. Key operation inside or outside only
				3. Key operation from outside with a thumb turn on the inside
			2. Final locking by others: Format.
				1. Small Format Interchangeable Core (SFIC).
				2. Large Format Interchangeable Core (LFIC).
				3. Furnished by Section 08 71 00 - Door Hardware.
		1. Handles on Sliding Single or Double Action Panels or Non-sliding End Single or Double Action Panels with locking located at bottom rail.

\*\* NOTE TO SPECIFIER \*\* Delete handle options not required. First handle option is standard. Push/pull handles with black bumpers are on each end to minimize impact with glass.

* + - 1. Handles: Push/pull handles on both sides in brushed stainless-steel finish with two point fixing and length of 13-13/16 inches (350 mm).
			2. Handles: Push/pull handles on both sides in brushed stainless-steel finish with two point fixing and length of 39-3/8 inches (1000 mm).
			3. Handles: Push/pull handles on both sides in brushed stainless steel finish in custom sizes.
			4. Handles: Pull handle with push plate set in brushed stainless steel finish with length of 13-13/16 inch (350 mm).
			5. Handles: Lever handles on both sides with latch in brushed stainless-steel finish (no lock set at handle height) and matching strike plate on opposite panel to be located at handle height.
			6. Handles: Preparation for lever handles furnished by Section 08 71 00 - Door Hardware.
				1. Provide template for holes and cut outs needed in glass.
			7. Handles: No handle but with pull knob in brushed stainless-steel finish.
			8. Handles: No handle but with rosette in brushed stainless-steel finish.
			9. Handles: No handle and no knob.

\*\* NOTE TO SPECIFIER \*\* Refer to manufacturer's literature for hardware options.

* + - 1. Carrier Hardware: Manufacturer's standard.
			2. Hinge Hardware: Manufacturer's standard.
			3. Push/Pull Handles, Knobs, Rosettes, or Panic Devices: Handle height centered at 41-3/8 inch (1050 mm) from bottom of the panel or as indicated otherwise.
		1. Other Components:

\*\* NOTE TO SPECIFIER \*\* Bumpers prevent metal-to-metal or glass-to-glass contact.

* + - 1. Bumpers: Recessed soft polyamide bumpers on one end of sliding panel end caps at the top and bottom.
			2. Horizontal Seals: Provide adjustable sealing brush for outside of top rail and no brushes at bottom rail.

\*\* NOTE TO SPECIFIER \*\* Standard horizontal sealing is adjustable brush for outside of top rail and no brushes at bottom rail. Delete seal options below not required or delete all.

* + - * 1. Seal: Adjustable sealing brush for both sides of top rail
				2. Seal: Spring loaded sealing brush for outside of bottom rail.
				3. Seal: Spring loaded sealing brush for both sides of bottom rail.
			1. Transparent Vertical Gaskets: Between sliding panels, provide UV resistant edge mounted gaskets with a Light Transmission (LT) of 75 percent or higher per ASTM D1003:
			2. Edge Protectors: Reduces glass-to-glass contact between adjacent panels.
			3. H-gaskets: To prevent differential deflection of two adjacent unsupported panels per IBC 2403.4. Applies between sliding only panels and not for single/double action panels or end sliding panels.

\*\* NOTE TO SPECIFIER \*\* Delete accessories if not required.

* + 1. Accessories:
			1. Folding FSW75 systems with finish to match, as indicated on Drawings.
			2. Center pivot CSW75 systems with finish to match, as indicated on Drawings.
			3. Single doors as indicated on Drawings.
			4. Double doors as indicated on Drawings.
			5. Sidelights with finish to match, as indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. WOOD-FRAMED SLIDING WALL SYSTEMS
		1. Basis of Design: Model HSW66 Wood-Framed Sliding Wall Systems as manufactured by Nana Wall Systems, Incorporated. Standard top-hung, single-track, interlocking wood-framed sliding glass storefront system that can be pocketed when open and have a swing door hinged off a side jamb; manufacturer's standard frame and panel profiles, with head track, stacking bays, side jambs, sliding panels, and swing panels with dimensions as shown on Drawings.
			1. System Components: Wood frame, tracks, threshold, sliding panels, swing panels, stacking bays, sliding-swinging and locking hardware, weather stripping, sound gasketing, glass and glazing, accessories, sidelights, transoms, corner posts, or single or double as required for a complete working installation.

\*\* NOTE TO SPECIFIER \*\* Delete optional insect screen if not required.

* + - * 1. Insect screen.

\*\* NOTE TO SPECIFIER \*\* Specify Low profile saddle sills for resistance against wind driven rain.
Flush Sills and Surface Mounted Interior Sills have NO rating against wind driven rain.
Floor Sockets without Sill do NOT have a water rating.
Weeps to be drilled in the field by installer to manufacturer's requirements. Air infiltration and water penetration testing results are only applicable if the unit matches the tested panel and unit size, direction of opening and type of sill.

Structural load testing results are only applicable for the test unit size and type of locking and rods.
Comparative analysis charts published by manufacturer shows which panel sizes, if any, meets the structural loading design pressures specifically required for the project. Check for limitations on the use of these charts in the jurisdiction of the project.
Forced entry testing results only applicable for locking test unit type. See manufacturer's latest published data regarding performance. It is expected that installed system's performance would be not more than 2/3rds of the following certified laboratory test data in accordance with AAMA 502.

* + 1. Performance Criteria; Lab Tested:
			1. Air Infiltration (ASTM E283): Low profile saddle sill.
				1. Static air pressure difference of 1.56 psf (75 Pa): 0.12 cfm per sq ft (0.60 L per sec per sq m).
				2. Static air pressure difference of 6.24 psf (300 Pa): 0.30 cfm per sq ft (1.5 L per sec per sq m).
			2. Water Penetration per ASTM E331 and ASTM E547: Low profile saddle sill.
				1. No uncontrolled water leakage at a static test pressure in:

Units with Weep holes from Middle Channel: 2.92 psf (140 Pa).

Units with Weep holes from Inner Channel: 5.00 psf (240 Pa).

* + - 1. Structural Loading per ASTM E330: Pass.
				1. Load Structure: At 1.5 times design wind load pressure with no glass breakage or permanent damage to fasteners or storefront components.

Design Pressure Positive: 41 psf (2000 Pa).

Design Pressure Negative: 41 psf (2000 Pa).

* + - 1. Forced Entry per AAMA 1304: Meets 300 lb. (1330 N) point load requirement.
			2. Sliding Glass Storefront Units: Tested to AAMA/WDMA/CSA 101/I.S.2/A440.
			3. Thermal Performance; U-factor: NFRC 100 rated, Certified, and Labeled.
			4. Solar Heat Gain Coefficient: NFRC 200 rated, Certified, and Labeled.
			5. Visible Light Transmission: NFRC 200 rated, Certified, and Labeled.
			6. Air Leakage: NFRC 400 rated, Certified, and Labeled.
			7. Condensation Resistance Factor: NFRC 500 rated, Certified, and Labeled.

\*\* NOTE TO SPECIFIER \*\* The NFRC 100, 200, 400 and 500 ratings of the HSW66 Sliding Glass Storefront System meet Prescriptive Method requirements for U-factor, SHGC, Air Leakage and CRF of California Title 24, Chapter 3, Building Envelope Requirements.

For the listing of Nana Wall product NFRC testing reports go to the following website http://search.nfrc.org/search/searchdefault.aspx; click on Door (Find Ratings for Door Products); click on the Search by Manufacturer button; click Manufacturers, scroll down to and click on Nana Wall Systems, Inc., and click on the Find Products button.

* + - 1. EPA Energy Star: Meets requirements.

\*\* NOTE TO SPECIFIER \*\* For guidance only as Nana Wall Systems is not a participant to the Energy Star Program. Energy Star values for Doors with greater than 50 percent glass can be achieved through the use of specific glass units meeting the following requirements:

* + - * 1. Northern and North-Central Region:

U-Factor: Less than or equal to 0.30.

Solar Heat Gain Coefficient: 0.40.

* + - * 1. South-Central and Southern Region:

U-Factor: Less than or equal to 0.30.

Solar Heat Gain Coefficient: 0.25.

* + - * 1. Energy Star Air Leakage Rating Requirements per ASTM E283 in accordance with NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440-11):

Window, Sliding Door, or Skylight: Less than or equal to 0.3 cu ft per min per sq ft (1.54 L per sec per sq m).

Swinging Door: Less than 0.5 cu ft per min per sq ft (2.56 L per sec per sq m).

* + 1. Design Criteria:

\*\* NOTE TO SPECIFIER \*\* See manufacturer drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature. See drawings for selected number of panels and configuration.

* + - 1. Sizes and Configurations: As indicated by the drawings for selected number and size of panels, location of swing panels, and location of tracks and stacking bays.
			2. Unit Operation: Adjustable sliding type; sliding and swing hardware with top and bottom tracks.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required.

* + - 1. Panel Configuration: Straight.
			2. Panel Configuration: Segmented curve.
			3. Panel Configuration: 90 degrees angle turn.
			4. Panel Configuration: 135 degrees angle turn.
			5. Panel Configuration: Window and door combination.

\*\* NOTE TO SPECIFIER \*\* Delete stack storage configuration options not required.

* + - 1. Stack Storage Configuration: Remote pocket.
			2. Stack Storage Configuration: Jamb wall.
			3. Stack Storage Configuration: Behind swing door.
			4. Stack Storage Configuration: Straight wall.
			5. Stack Storage Configuration: Jamb wall pockets.
			6. Mounting Type: Top-hung.

\*\* NOTE TO SPECIFIER \*\* Delete panel type option not required.

* + - 1. Panel Type: Multiple unattached with Entry and Egress panel hinged to side jamb.
			2. Panel Type: Multiple unattached with Entry and Egress panel attached to last sliding panel going into a stack.
		1. Fabrication: Extruded aluminum head and threshold frame profiles, solid triple-laminated wood side jamb profiles, tracks, stacking bays, with male-female interlocking solid triple-laminated wood panel profiles, hinges, sliding/swinging hardware, locking hardware and handles, glass and glazing and weather stripping components to construct a single track sliding opening glass wall.
			1. Seal wood frame and panel members with clear sand sealer or primer.
			2. Factory pre-assemble units and ship with components and installation instructions.
			3. Exposed Work: Matched to produce continuity of line and design with all joints.
			4. No raw edges visible at joints.
		2. Materials:

\*\* NOTE TO SPECIFIER \*\* Delete head track options not required.

* + - 1. Head Track: Clear anodized aluminum head track with aluminum covers on both sides that match finish.
			2. Head Track: Clear anodized aluminum head track with wood fascia covers on both sides that match finish.

\*\* NOTE TO SPECIFIER \*\* Delete panel type options not required. Non-standard options may require upcharge. Refer to manufacturer's size chart for glass panel sizes requiring use of horizontal mullions.

* + - 1. Panel Type: Single lite; Standard.
			2. Panel Type: Multiple lites with horizontal mullions at heights indicated on Drawings from bottom of the panel.
			3. Panel Type: Single lite with simulated divided lites in pattern indicated.
			4. Panel Type: Solid wood.

\*\* NOTE TO SPECIFIER \*\* Panel sizes up to 120 x 39 inches (3.05 x 1 m) for swing panels and 54 inches (1.385 m) wide for sliding panels. Panels over 100 inches (2540 mm) high require an intermediate horizontal mullion.

* + - 1. Panel Size (W x H): As indicated on Drawings.
			2. Rail Depth: 2-5/8 inch (66 mm).
			3. Top Rail Width: 3-3/4 inch (93 mm).

\*\* NOTE TO SPECIFIER \*\* Delete bottom rail width options not required. Kick plate height to be from 6 to 12 inches (152 and 305 mm).

* + - 1. Bottom Rail Width: 3-3/4 inch (93 mm).
			2. Bottom Rail Width: Manufacturer's kickplate. Height (in/mm): \_\_\_\_\_\_\_\_.
			3. Frames:
				1. Side Jambs Width: 1-9/16 inch (40 mm).
				2. Top Track: Aluminum extrusion with wood cladding and thermal isolating polyamide connectors.

Depth: 3-15/16 inch (100 mm).

Width: 4-1/2 inch (115 mm).

Material: AIMgSi0.5 aluminum alloy, 6063-T5; F-22-European standard.

Thickness: 0.078 inch (2.0 mm) nominal.

Finish per AAMA 611: Clear, anodized.

\*\* NOTE TO SPECIFIER \*\* Delete sill type option not required.

* + - 1. Sill Type: Flush; thermally broken.
			2. Sill Type: Low profile saddle; thermally broken.
			3. Sill Type: No sill. Floor sockets without a floor track.
			4. Sill Type: Surface mounted interior sill.

\*\* NOTE TO SPECIFIER \*\* Delete sill finish option not required.

* + - 1. Sill Material and Finish: Aluminum. Clear anodized.
			2. Sill Material and Finish: Aluminum. Dark bronze anodized finish.
			3. Wood: Cross-grained, solid, triple laminated wood with mortise and tenon; glued and pinned corners.

\*\* NOTE TO SPECIFIER \*\* Delete wood species options not required. FSC Certified wood Sapeli Mahogany is LEED credit qualified. Others available upon request. PEFC certified wood (Douglas fir) does NOT qualify for LEED credit but does meet US Lacey Act requirements. Beech, Maple or Cherry are for interior applications only.

* + - * 1. Wood Species: FSC Sapeli mahogany.
				2. Wood Species: European pine.
				3. Wood Species: Spruce.
				4. Wood Species: Western hemlock.
				5. Wood Species: Meranti.
				6. Wood Species: European oak.
				7. Wood Species: PEFC Douglas fir.
				8. Wood Species: Beech.
				9. Wood Species: Maple.
				10. Wood Species: Cherry

\*\* NOTE TO SPECIFIER \*\* Delete wood finish option not required. Before installation, field finish units with two coats for final protective finish.

* + - * 1. Wood Finish: Water-based, open pore with clear sanding sealer for stain as specified in Section 09 90 00 - Painting and Coating.
				2. Wood Finish: Water-based, open pore with base coat applied for paint as specified in Section 09 90 00 - Painting and Coating.
		1. Glass and Glazing:
			1. Safety Glazing per ASTM C1036, ASTM C1048, ANSI Z97.1 and CPSC 16CFR 1201.

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with STC value or delete line.

* + - 1. Glass Acoustical Performance per ASTM E413 and ASTM E1332: STC \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Dry glazing helps reduce instances of seal failure.

* + - 1. Manufacturer's Glass Lites: Dry glazed with glass stops on the inside.

\*\* NOTE TO SPECIFIER \*\* Delete glazing treatment options not required.

* + - 1. Glazing Treatment: Tempered.
			2. Glazing Treatment: Tempered and laminated.
			3. Glazing Treatment: Laminated.

\*\* NOTE TO SPECIFIER \*\* Delete Glass Lite and fill options not required. Edit glass types to meet building code, wind-load design, acoustic, bullet resistant and/or security, and other project requirements with other glass available from manufacturer. Custom layouts; horizontal mullions, simulated divided lites, inserts, and high bottom rails are possible. Contact NanaWall for availability of other glass types.For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers

* + - 1. Glass Lite: Single: 1/4 inch (6 mm) thick.
			2. Glass Lite; Insulated: Double IGU: 5/16 inch (24 mm) thick.
				1. Fill: Argon filled.
				2. Fill: Air filled.
				3. Fill: Krypton filled.
			3. Glass Lite; Insulated: Triple IGU: 1-1/8 inch (28 mm) thick.
				1. Fill: Argon filled.
				2. Fill: Air filled.
				3. Fill: Krypton filled.

\*\* NOTE TO SPECIFIER \*\* Delete glass type options not required. Non-standard may require upcharge.

* + - 1. Glass Type: Standard.
			2. Glass Type: Low iron.
			3. Glass Type: Solar bronze.
			4. Glass Type: Solar gray.
			5. Glass Type: Bird safe.

\*\* NOTE TO SPECIFIER \*\* Delete glass spacers options not required.

* + - 1. Glass Spacers: Gray finish with capillary tubes.
			2. Glass Spacers: Dark bronze finish with capillary tubes.
			3. Glass Spacers: Gray finish without capillary tubes.
			4. Glass Spacers: Dark bronze finish without capillary tubes.

\*\* NOTE TO SPECIFIER \*\* Delete insulated glass unit surfaces options not required.

* + - 1. Insulated Glass Unit Surfaces: Clear.
			2. Insulated Glass Unit Surfaces: Low- E coating on No. 2 surface of double IGU.
			3. Insulated Glass Unit Surfaces: Low-E coating on No. 2 and No. 4 surface of double IGU.
			4. Insulated Glass Unit Surfaces: Low- E coating on No. 2 and No. 5 surface of triple IGU.
		1. Locking Hardware and Handles:

\*\* NOTE TO SPECIFIER \*\* Delete main entry panels option not required.

* + - 1. Main Entry Panels: Lockset with a lockable latch and multi-point locking with a dead bolt and rods at the top and bottom on primary panel only.

\*\* NOTE TO SPECIFIER \*\* Delete swing panels option not required.

* + - * 1. Swing Panels: Single panel.
				2. Swing Panels: Pair of panels.
				3. Rods: Concealed. Not edge mounted.

\*\* NOTE TO SPECIFIER \*\* Delete lever handles options not required.

* + - * 1. Lever Handles: Manufacturer's standard on inside and outside.
				2. Lever Handles: With returns on inside and outside.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Non-standard handle finishes may require upcharge. Lever handle styles and finishes are available from other suppliers.

* + - * 1. Lever Handles Finish: Brushed satin stainless steel; standard.
				2. Lever Handles Finish: Black titanium stainless steel; standard.

\*\* NOTE TO SPECIFIER \*\* Options below are available with an upcharge.

* + - * 1. Lever Handles Finish: Copper-nickel stainless steel antiviral and antimicrobial.
				2. Lever Handles Finish: Oil rubbed bronze solid brass.
				3. Lever Handles Finish: Satin nickel solid brass.
				4. Lever Handles Finish: White solid brass.
				5. Lever Handle Operation: After turn of key or thumb turn, depression of handle withdraws latch. Lifting of handle engages rods. Turn of key or thumb turn engages deadbolt and operates lock.
				6. Locking: Standard profile cylinder.

\*\* NOTE TO SPECIFIER \*\* Delete optional locking adapter if not required.

Locking Adapter: Adaptor for Small Format Interchangeable Core.

* + - * 1. Secondary Swing Panels: Provide concealed two-point, edge locking.
			1. Main Entry Panels: For applications with swing panels; manufacturer's push-pull handles with separate lockset and dead bolt.
				1. Push-pull handles in a brushed stainless-steel finish.

\*\* NOTE TO SPECIFIER \*\* Delete flat handle option not required.

* + - * 1. Flat Handles: Brushed satin finish, stainless steel.
				2. Flat Handles: Titanium black finish, stainless steel.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel stainless steel handle may require an upcharge.

* + - * 1. Flat Handles: Copper-nickel finish, stainless steel.

\*\* NOTE TO SPECIFIER \*\* Recommended with door closer but not applicable for swing panels on Swing-Slide units. Panic devices by others invalidates manufacturer's design wind-load pressure test.

* + - 1. Main Entry Panels: For swing panel applications with no hardware or locking provided by manufacturer. Field installed panic device per Section 08 71 00 - Door Hardware.

\*\* NOTE TO SPECIFIER \*\* Operable from inside only and that there is no latch. Other compatible lever, L-shaped and push-pull handle styles and finishes are available from other suppliers.

* + - 1. Main Entry Panels: Manufacturer's standard flat handle on inside only with concealed two-point locking hardware operated by 180 degrees turn of handle.

\*\* NOTE TO SPECIFIER \*\* Delete sliding panel option not required.

* + - 1. Sliding Panel to be Opened First for Models Without a Swing Panel: L-shaped handle on inside, flat handle on outside and lock set with profile cylinder; operation of lock set is by turn of key from outside and with a thumb-turn from inside with a two-point locking hardware operated by 180 degrees turn of handle.

\*\* NOTE TO SPECIFIER \*\* Delete handles options not required.

* + - * 1. Flat and L-Shaped Handles: Brushed satin finish, stainless steel.
				2. Flat and L-Shaped Handles: Titanium black finish, stainless steel.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel handle may require an upcharge.

* + - * 1. Flat and L-Shaped Handles: Copper-nickel finish, stainless steel.

\*\* NOTE TO SPECIFIER \*\* Key operation from inside may not meet egress requirements.

* + - 1. Sliding Panel to be Opened First for Models Without a Swing Panel: Flat handle on inside and outside and lockset with a profile cylinder; operation of lock set is by turn of key from outside and from inside with a two-point locking hardware operated by 180 degrees turn of handle.

\*\* NOTE TO SPECIFIER \*\* Delete flat handle option not required.

* + - * 1. Flat Handles: Brushed satin finish, stainless steel.
				2. Flat Handles: Titanium black finish, stainless steel.

\*\* NOTE TO SPECIFIER \*\* Copper-nickel handle may require an upcharge.

* + - * 1. Flat Handles: Copper-nickel finish, stainless steel.
			1. Secondary Panels: Concealed one or two-point locking hardware operated by 180 degrees turn of handle.

\*\* NOTE TO SPECIFIER \*\* Delete handles option not required.

* + - * 1. Handles: Manufacturer's flat handles.

\*\* NOTE TO SPECIFIER \*\* Delete flat handle finish options not required.

Flat Handle Finish: Brushed satin stainless steel; standard.

Flat Handle Finish: Black titanium stainless steel; standard.

\*\* NOTE TO SPECIFIER \*\* Option below may require an upcharge.

Flat Handle Finish: Copper-nickel stainless steel antiviral and antimicrobial.

Flat Handle Finish: Dark brown powder coated.

Flat Handle Finish: Silver gray powder coated.

* + - * 1. Handles: Manufacturer's removable custodial handles.
			1. Handle Height: 41-3/8 inch (105 cm) centered from bottom of panel or as otherwise indicated on Drawings.
			2. Locking Rods: Aluminum rods with standard fiberglass reinforced polyamide end caps at bottom and top on certain panels; rods have a stroke of 15/16 inch (24 mm).

\*\* NOTE TO SPECIFIER \*\* Delete options for locking not required.

* + - 1. Additional Profile Cylinder: Keyed alike.
			2. Additional profile cylinder: Keyed differently.
		1. Sliding and Swinging Panel Hardware: Manufacturer's standard.
			1. Sliding Panels:
				1. Panel Carriers: Three-wheeled, sintered, oil impregnated bronze, unidirectional with one-wheeled, polyamide guide roller attached to panels with stainless steel rods. Two per panel.

Carrying Capacity: 330 lbs (150 kgs). For two carriers on a panel.

* + - 1. Swing Panels:

\*\* NOTE TO SPECIFIER \*\* Delete hinges option not required.

* + - * 1. Hinges: Clear anodized aluminum.; standard.
				2. Hinges: Dark bronze anodized aluminum.

\*\* NOTE TO SPECIFIER \*\* Weather stripping is determined at factory by direction of swing, panel configuration, the type of locking and type of sill.

* + 1. Weather Stripping:
			1. Between Panels: Double layer EPDM.
			2. Between Panel and Frame: EPDM gasket, or brush seal.
			3. Bottom of Panels: Brush seals with two-layer fiberglass reinforced polyamide fin attached at inner and outer edge at bottom of door panels with recessed sill or on frame for sealing between panels and between panel and frame.
			4. UniverSILL: For outswing low profile saddle sill, UniverSILL gaskets add on available for additional air and water protection.
		2. Fasteners: Stainless steel machine screws for connecting frame components.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. ALL-GLASS ACOUSTICAL SLIDING PARTITION
		1. Basis of Design: Model PrivaSEE All-Glass Acoustical Sliding Partitions as manufactured by Nana Wall Systems, Incorporated. All glass, top-hung, single track sliding system with glass and vertical and horizontal acoustic seals, manufacturer's standard top and bottom rail profiles, with head track, stacking bays, side jambs, non-sliding end single action panels.
			1. System Components: Aluminum rail, top track with stacking bays, side jambs, sliding panels, non-sliding end single action panels, sliding/swinging hardware, locking hardware, door closer, sealing brushes with fin, self-activated adjustable compression seals, transparent vertical edge acoustical seals, vertical side jamb seals, glass and glazing, suspended ceiling support profile, and accessories as required for a complete working installation.
		2. Performance Criteria; Lab Tested:

\*\* NOTE TO SPECIFIER \*\* Forced entry testing results are only applicable for test unit type of locking. See manufacturer's latest published data regarding performance.

* + - 1. Acoustic Performance per ASTM E90: STC 36.
			2. Acoustic Performance per ASTM E1332: OITC 30.
			3. Forced Entry per AAMA 1304, DIN EN 1191: Pass.
			4. Single Action Panels with Offset Hinge; Operation and Cycling Performance:
				1. DIN EN ISO 12400: 100,000 cycles.
				2. AAMA 920: 500,000 cycles.

\*\* NOTE TO SPECIFIER \*\* Applies between sliding only panels and not for non-sliding end single action panels or end sliding panels.

* + - 1. Distributed Load: 150 lbs (68 kg) Across Glass (IBC 2403.4): Less than 0.1 inch (2.5 mm).
		1. Design Criteria:
			1. Sizes and Configurations: As indicated by the drawings for selected number and size of panels, location of swing panels, and location of tracks and stacking bays.
			2. Unit Operation: Non-sliding end single action panels with sliding panels; adjustable sliding hardware with top track.
			3. Mounting Type: Top-hung.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration option not required.

* + - 1. Panel Configuration: Straight.
			2. Panel Configuration: 90 degrees angle turn and open corner.
			3. Panel Confguration: T-intersection.

\*\* NOTE TO SPECIFIER \*\* Delete stack storage configuration options not required.See stack storage configurations at ( <https://www.nanawall.com/products/privasee/options> )
Perpendicular to Wall: Select from Concepts 1/A, 2, 3, 8/A, and 10/A.
Parallel to Wall: Select from Concepts 4/E, 5/E, 6/G, 7/G, and 9.
Contact NanaWall Conceptual Drawing Service if a custom configuration is required.

* + - 1. Stack Storage Configuration: Perpendicular to wall, \_\_\_\_\_\_\_\_\_\_
			2. Stack Storage Configuration: Parallel to wall, \_\_\_\_\_\_\_\_\_.
			3. Stack Storage Configuration: Custom configuration as indicated on Drawings.
			4. Sill Type: Eccentric floor sockets with no floor track.
		1. Fabrication: Extruded aluminum frame and rail profiles, corner connectors, hinges, sliding and folding hardware, locking hardware, handles, glass and glazing, and sound gasketing.
			1. Factory pre-assembled. Ship with system components and installation instructions.
			2. Exposed work matched to produce continuity of line and design with joints.
			3. No raw edges visible at joints.
		2. Materials:

\*\* NOTE TO SPECIFIER \*\* Sliding Panel Maximum W x H: 49 inches (1.25 m) x 126 inches (3.2 m). Maximum height is based on GANA recommendation for 1/2 inch (12 mm) glass. Verify with authorities having jurisdiction. Maximum height is dependent on-site wind load requirements.

Non-Sliding Single Action Panel W x H: 20 to 43 inches (0.5 to 1.1 m) x 126 inches (3.2 m) maximum.

* + - 1. Panel Size (W x H): As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Unless otherwise noted, non-sliding end single action panels are same width as sliding panels. If a narrower dimension is needed to meet pocket constraints, insert dimensions below.

* + - 1. Non-sliding End Single Action Panel Width: \_\_\_\_\_\_\_\_\_\_\_.
			2. Head Track Height x Depth: 3-1/16 x 2-3/4 inch (78 x 70 mm).

\*\* NOTE TO SPECIFIER \*\* Suspended ceiling support profile is optional. This is not recommended for parking bay area. Delete if not required.

* + - 1. Suspended ceiling support profile.
			2. Top and Bottom Rail Depth: 2-3/16 inch (56 mm).
			3. Top Rail Height: 4-1/8 inch (104 mm).
			4. Bottom Rail Height: 4-1/8 inch (104 mm).
			5. Rail End Cap: Male and female interlock.
			6. Sill Type: Floor sockets with no floor track.
			7. Aluminum Extrusions: AIMgSi0.5 alloy, 6063-T5; F-22 - European standard.
			8. Aluminum Extrusions Thickness: 0.078 inch (2.0 mm) nominal.

\*\* NOTE TO SPECIFIER \*\* For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers.

* + - 1. Aluminum head track, side jambs, hinges, and face and edges of top and bottom rails.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Finishes can be mixed and matched. For example, tracks can be white with other aluminum extrusions clear anodized. Specify post assembly clear coat for greater corrosion resistance. Delete options for finishes not required.

* + - * 1. Finish: Anodized per AAMA 611: Clear.
				2. Finish: Anodized per AAMA 611: Dark bronze.
				3. Finish: Anodized per AAMA 611: Black.
				4. Finish: Anodized per AAMA 611: Brushed.
				5. Finish: Anodized per AAMA 611: Post assembly clear coated.
				6. Finish: Powder Coat per AAMA 2604. Color as chosen from manufacturer's powder coating finish chart from manufacturer's full RAL selection.

Gloss: High.

Gloss: Matte.

* + - * 1. Finish: Powder Coat (AAMA 2604). Custom Finish.

Gloss: High.

Gloss: Matte.

* + 1. Glass and Glazing:
			1. Per ANSI Z97.1, CPSC 16CFR 1201, ASTM C1036, and ASTM C1048.
			2. Single Lite Glass Type: 1/2 inch (13 mm) thick acoustically enhanced laminated.
			3. Edges: Flat butt for panels.
			4. Exposed Edges: Flat polished and ground.
			5. Factory Glazing:
				1. Clamp installed for equal distribution of weight.
				2. Glass Edge Top Rail Clearance: 1/8 inch (3 mm) with 7/8 inch (22 mm) bite.
				3. Glass installed with bolts only not acceptable.
		2. Sliding Hardware:
			1. Sliding Panel Carriers: Unidirectional attached to panels with side adjustable stainless-steel cast shoe and stainless-steel ball bearing axle. Two per panel.
				1. Carriers: Glass fiber reinforced polyamide wheels with memory effect and polyamide bumpers to prevent metal-on-metal contact between top track and carriers.
				2. Install carriers so panels can be intelligently guided into stacking bay without error and with single hand operation.
				3. Non-single handed operation, not acceptable.
			2. Maximum Carrying Capacity; Two Carriers on a Panel: 330 lbs (150 kgs).
			3. Adjustment: System capable of specified amount of adjustments without removing panels from tracks.
		3. Hardware on Non-Sliding End Single Action Panels Operable from Both Sides:
			1. Locking Ladder Pull Handles: Brushed stainless-steel finish with bumpers and locking at handle height with mortise cylinder.

\*\* NOTE TO SPECIFIER \*\* Offset hinge is required for all non-sliding end single action panels. Panel can swing 180 degrees if there isn't an adjacent structure interfering with operation.

* + - 1. Offset Hinged Panels: Can swing 170 degrees.

\*\* NOTE TO SPECIFIER \*\* Subparagraphs below are optional. Delete if not required.

* + - 1. Manufacturer standard floor closer with hold-open function.
			2. Top door closer with hold-open function that can swing 110 degrees.
			3. ADA compliant (5-1/2 inch (140 mm) high), acrylic chamfer rail adapter, 1-3/8 inch (35 mm) high by 7/8 inch (22 mm) thick.
		1. Hardware on Non-sliding End Single Action Panels Operable from Inside Only:
			1. Locking Bolts: With crank handle at the top rail.
			2. Locking Bolts: Offset hinged panel that can swing 180 degrees.

\*\* NOTE TO SPECIFIER \*\* Offset hinge is required for all non-sliding end single action panels. Panel can swing 180 degrees if there isn't an adjacent structure interfering with operation. Delete floor bolts option not required

* + - 1. Floor Bolts: With mortise cylinder on bottom rail.
			2. Floor Bolts: Foot activated floor bolt.

\*\* NOTE TO SPECIFIER \*\* The following two subparagraphs are optional. Delete if not required.

* + - 1. Door Closer: Standard overhead door closer with hold-open function
			2. ADA compliant, 5-1/2 inch (140 mm) high, acrylic chamfer rail adapter, 1-3/8 inch (35 mm) high by 7/8 inch (22 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Delete handles options not required. Push and pull handles with black bumpers are on each side to minimize impact with glass.

* + - 1. Handles: Push and pull handles on both sides in brushed stainless-steel finish; 11-13/16 inch (350 mm) long; standard.
			2. Handles: Push and pull handles on both sides in brushed stainless-steel finish in custom sizes.
			3. Handles: Pull handle with push plate set in brushed stainless-steel finish with length of 13-13/16 inch (350 mm).
			4. Handles: Custom push and pull handles; by others.
			5. Handles: No handles but with pull knob in brushed stainless-steel finish. Provide template for holes and cut outs needed.
			6. Handles: No handles and no knob. Provide template for holes and cut outs needed.
			7. Push and Pull Handles or Knobs Handle Height: Centered at 41-3/8 inch (105 cm) from bottom of panel or as indicated on Drawings.
		1. Mortise Cylinder: 1-1/8 inch mortise lockset, Yale cam clear anodized finish, as a temporary construction core.

\*\* NOTE TO SPECIFIER \*\* Delete final locking operation options not required.

* + - 1. Final Locking Operation By Others: Key operation from either side.
			2. Final Locking Operation By Others: Key operation inside only.
			3. Final Locking Operation By Others: Key operation outside only.
			4. Final Locking Operation By Others: Key operation from outside with a thumb turn on the inside.

\*\* NOTE TO SPECIFIER \*\* Delete final locking type options not required.

* + - 1. Final Locking Type: Small Format Interchangeable Core (SFIC).
			2. Final Locking Type: Large Format Interchangeable Core (LFIC).
			3. Final Locking Type: Furnished by Section 08 71 00 - Door Hardware.
			4. Between Sliding Panels: Self-activated automatic interlock for floor bolts.
			5. Floor Bolts Sockets: 1-3/16 inch (30 mm) deep, adjustable, and eccentric.
		1. Joint Seals:
			1. Bottom Rails Inside: Sealing brush with double fins.

\*\* NOTE TO SPECIFIER \*\* Self-activated automatic interlock and seal is a key feature triggered by simply moving one panel into another.

* + - 1. Bottom Rails Outside: Self-activated adjustable compression seal.
			2. Top Rails: Sealing brush with double fins on both sides.

\*\* NOTE TO SPECIFIER \*\* Acoustical seals reduce sound transmission, glass-to-glass contact, and airflow.

* + - 1. Vertical Edges Between Panels: Transparent acoustical UV resistant edge mounted gaskets. Light Transmission: 75 percent or higher per ASTM D1003.
			2. Vertical Edges Between Side Jambs and Panels: Double EPDM seals.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. ALL-GLASS WEATHER RESISTANT SLIDING WALL SYSTEMS
		1. Basis of Design: ClimaCLEAR All-Glass Weather Resistant Sliding Wall Systems as manufactured by Nana Wall Systems, Incorporated. All glass, top-hung, single track sliding system with panel interlocks, glass panels, and vertical and horizontal seals; manufacturer's standard top and bottom rail profiles, with head track, stacking bays, side jambs, non-sliding end single action panels, and low-profile saddle sill with dimensions as shown on Drawings.
			1. System Components: Aluminum rails, top track with stacking bays, side jambs, sliding panels, non-sliding end single action panels, sliding/swinging hardware, locking and interlocking hardware, door closer, sealing brushes with fin, transparent vertical edge weather seals, vertical side jamb seals, ADA compliant low-profile saddle sill, glass and glazing, accessories, as required for a complete working installation.

\*\* NOTE TO SPECIFIER \*\* Delete insect screen if not required.

* + - * 1. Insect screen.
		1. Performance Criteria; Lab Tested: Low profile saddle sill; inward/outward opening.

\*\* NOTE TO SPECIFIER \*\* Forced entry testing results are only applicable for test unit type of locking. Standard 1/2 inch (12 mm) thick tempered glass was used for testing. Weeps are drilled in the field by installer to manufacturer's requirements. See manufacturer's latest published data regarding performance

* + - 1. Air Infiltration per ASTM E283: 0.46 cfm per sq ft (0.09 L per sec per sq m) at a static air pressure difference: of 1.57 psf (75 Pa).
			2. Water Penetration per ASTM E331, ASTM E547: No uncontrolled water leakage at a static test pressure of 3.13 psf (150 Pa) with weeps.

\*\* NOTE TO SPECIFIER \*\* Contact manufacturer to accommodate higher structural wind loads using thicker glass.

* + - 1. Structural Loading per ASTM E330:
				1. Design Pressure; Positive: 30 psf (1436 Pa).
				2. Design Pressure; Negative: 30 psf (1436 Pa).
			2. Forced Entry Resistance per AAMA 1304, DIN EN 1191: Pass
			3. Single Action Panels with Offset Hinge; Operation and Cycling Performance:
				1. DIN EN ISO 12400: 100,000 cycles.
				2. AAMA 920: 500,000 cycles.
			4. Distributed Load 150 lb (68 kg) Across Glass per IBC 2403.4:

\*\* NOTE TO SPECIFIER \*\* Applies between sliding only panels and not for non-sliding end single action panels or end sliding panels.

* + - 1. Operating Force per ASTM E2068:
				1. Non-sliding end single/double action panel:

Initiate Motion: 1 lbf (4 N).

Maintain Motion: 1 lbf (4 N).

* + - * 1. Shoot Bolts:

Initiate Motion: 4 lbf (18 N).

Maintain Motion: 4 lbf (18 N).

* + - * 1. Sliding Panels:

Initiate Motion: 1.5 lbf (7 N).

Maintain Motion: 1 lbs (4 N).

* + 1. Design Criteria:
			1. Sizes and Configurations: As indicated on Drawings for selected number and size of panels, location of swing panels, and location of tracks and stacking bays.
			2. Unit Operation: Non-sliding end single action panels with sliding panels; adjustable sliding hardware with top track.
			3. Mounting Type: Top-hung.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required.

* + - 1. Panel Configuration: Straight.
			2. Panel Configuration: 90 degree angle turn and open corner.
			3. Panel Configuration: Window and door combination.

\*\* NOTE TO SPECIFIER \*\* Delete stack storage options not required.See stack storage configurations at ( <https://www.nanawall.com/products/climaclear/options> )
Perpendicular to Wall: Select from Concepts 1/A, 2, 3, 8/A, and 10/A.
Parallel to Wall: Select from Concepts 4/E, 5/E, 6/G, 7/G, and 9.
Contact NanaWall Conceptual Drawing Service if a custom configuration is required.

* + - 1. Stack Storage Configuration: Perpendicular to wall, \_\_\_\_\_\_\_\_\_\_
			2. Stack Storage Configuration: Parallel to wall, \_\_\_\_\_\_\_\_\_.
			3. Stack Storage Configuration: Custom configuration as indicated on Drawings.
			4. Sill Type: ADA compliant, Low profile saddle sill.
		1. Fabrication: Extruded aluminum frame and panel profiles, corner connectors, hinges, sliding and folding hardware, locking hardware, handles, glass and glazing, and sound gasketing.
			1. Factory pre-assembled. Ship with system components and installation instructions.
			2. Exposed work matched to produce continuity of line and design with joints.
			3. No raw edges visible at joints.
		2. Materials:

\*\* NOTE TO SPECIFIER \*\* Sliding Panel Maximum W x H: 49 x 126 inch (1.25 x 3.2 m). Maximum height is based on GANA recommendation for 1/2-inch (12 mm) glass. Verify glass with authorities having jurisdiction. Maximum height is dependent on-site wind load requirements.
Non-sliding end single action panel (WxH): 20 to 43 inches (0.5 to 1.1 m) x 126 inches (3.2 m) maximum.

* + - 1. Panel Size (W x H): As indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Unless otherwise noted, non-sliding end single action panels are same width as sliding panels. If a narrower dimension is needed to meet pocket constraints, insert dimensions below.

* + - 1. Non-Sliding End Single Action Panel Width: \_\_\_\_\_\_\_\_\_\_.
			2. Head Track Height x Depth: 3-1/16 x 2-3/4 inch (78 x 70 mm).
			3. Top and Bottom Rail Depth: 2-3/16 inch (56 mm).
			4. Top and Bottom Rail Height: 4-1/8 inch (104 mm).
			5. Rail End Cap: Male and female interlock.
			6. Sill Type: ADA compliant, low-profile saddle sill.
			7. Aluminum Extrusions: AIMgSi0.5 alloy, EN AW 6060-T66.
			8. Aluminum Extrusions Thickness: 0.078 inch (2.0 mm) nominal.
			9. Aluminum head track, side jambs, hinges, low profile saddle sill, and face and edges of top and bottom rails with panel interlocks.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Finishes can be mixed and matched. For example, tracks can be white with other aluminum extrusions clear anodized. Specify post assembly clear coat for greater corrosion resistance. Delete options for finish not required.

* + - * 1. Finish: Anodized per AAMA 611: Clear.
				2. Finish: Anodized per AAMA 611: Dark bronze.
				3. Finish: Anodized per AAMA 611: Black.
				4. Finish: Anodized per AAMA 611: Brushed.
				5. Finish: Anodized per AAMA 611: Post assembly clear coated.
				6. Finish: Powder Coat per AAMA 2604. Color as chosen from manufacturer's powder coating finish chart from manufacturer's full RAL selection.

Gloss: High.

Gloss: Matte.

* + - * 1. Finish: Powder Coat (AAMA 2604). Custom finish.

Gloss: High.

Gloss: Matte.

* + 1. Glass and Glazing:
			1. Safety Glazing: In compliance with ANSI Z97.1, CPSC 16CFR 1201, ASTM C1036 and ASTM C1048.
			2. Single Lite Glass:

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness options not required. Tempered glass is 1/2 inch (12 mm) thick is standard. Laminated glass has less structural strength than tempered glass. When considering laminated glass, other options include: Acoustic laminated with double interlayer, 1/2 inch (13 mm) thick and baseball impact laminated with quadruple interlayer, 17/32 inch (13.5 mm) thick.

* + - * 1. Glass Type: 1/2 inch (12 mm) thick tempered glass; standard.
				2. Glass Type: 1/2 inch (13 mm) thick laminated glass.
				3. Glass Type: 1/2 inch (13 mm) thick acoustic laminated double interlayer.
				4. Glass Type: 17/32 inch (13.5 mm) thick baseball impact laminated quadruple interlayer.
			1. Edges: Flat butt for panels.
			2. Exposed Edges: Flat polished and ground.
			3. Factory Glazing:
				1. Clamp installed for equal distribution of weight.
				2. Glass Edge Top Rail Clearance: 1/8 inch (3 mm) with 7/8 inch (22 mm) bite.
				3. Glass installed with bolts only not acceptable.
		1. Sliding Hardware:
			1. Sliding Panel Carriers: Unidirectional attached to panels with side adjustable stainless-steel cast shoe and stainless-steel ball bearing axle. Two per panel.
				1. Carriers: Glass fiber reinforced polyamide wheels with memory effect and polyamide bumpers to prevent metal-on-metal contact between top track and carriers.
				2. Install carriers so panels can be intelligently guided into stacking bay without error and with single hand operation.
				3. Non-single handed operation, not acceptable.
			2. Maximum Carrying Capacity; Two Carriers on a Panel: 330 lbs (150 kgs).
			3. Adjustment: System capable of specified amount of adjustments without removing panels from tracks.
		2. Hardware on Non-Sliding End Single Action Panels Operable from Both Sides:
			1. Reverse Ladder Tubular Handle: Starting at top and extending down to hand height, with mortise cylinder. Brushed stainless-steel finish.
			2. Offset Hinged Panels: Capable of swinging 150 degrees in and 110 degrees out.
			3. Floor bolt with mortise cylinder on bottom rail.

\*\* NOTE TO SPECIFIER \*\* Subparagraphs below are optional. Delete if not required.

* + - 1. Manufacturer standard overhead door closer with hold-open function.
			2. ADA compliant (5-1/2 inch (140 mm) high), acrylic chamfer rail adapter, 1-3/8 inch (35 mm) high by 7/8 inch (22 mm) thick.
		1. Hardware on Non-sliding End Single Action Panels Operable from Inside Only:
			1. Locking Bolts: With crank handle at the top rail.
			2. Offset Hinged Panels: Can swing 180 degrees.

\*\* NOTE TO SPECIFIER \*\* Delete option for floor bolts not required.

* + - 1. Floor Bolts: Foot activated floor bolt; standard.
			2. Floor Bolts: Mortise cylinder on bottom rail.

\*\* NOTE TO SPECIFIER \*\* The following two subparagraphs are optional. Edit to suit project requirements.

* + - 1. Door Closer: Standard overhead door closer with hold-open function.
			2. ADA compliant, 5-1/2 inch (140 mm) high, acrylic chamfer rail adapter, 1-3/8 inch (35 mm) high by 7/8 inch (22 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Delete handles options not required. Push and pull handles with black bumpers are on each side to minimize impact with glass.

* + - 1. Handles: Push and pull handles on both sides in brushed stainless-steel finish; 11-13/16 inch (350 mm) long; standard.
			2. Handles: Push and pull handles on both sides in brushed stainless-steel finish in custom sizes.
			3. Handles: Pull handle with push plate set in brushed stainless-steel finish with length of 13-13/16 inch (350 mm).
			4. Handles: Custom push and pull handles; by others.
			5. Handles: No handles but with pull knob in brushed stainless-steel finish. Provide template for holes and cut outs needed.
			6. Handles: No handles and no knob. Provide template for holes and cut outs needed.
			7. Push and Pull Handles or Knobs Handle Height: Centered at 41-3/8 inch (105 cm) from bottom of the panel or as indicated otherwise on Drawings.
		1. Mortise Cylinder: 1-1/8 inch mortise lockset, Yale cam clear anodized finish, as a temporary construction core.
			1. Final Locking Operation By Others: Key operation from either side.
			2. Final Locking Operation By Others: Key operation inside only.
			3. Final Locking Operation By Others: Key operation outside only.
			4. Final Locking Operation By Others: Key operation from outside with a thumb turn on the inside.
			5. Final Locking Operation By Others: Key operation from outside with a thumb turn on the inside, only with Reverse Tubular Handle.

\*\* NOTE TO SPECIFIER \*\* Delete options for final locking type not required.

* + - 1. Final Locking Type: Small Format Interchangeable Core (SFIC).
			2. Final Locking Type: Large Format Interchangeable Core (LFIC).
			3. Final Locking Type: Furnished by Section 08 71 00 - Door Hardware.
			4. Between Sliding Panels: Foot-activated locks for floor bolts.
			5. For Floor Bolts: Side adjustable locking points recessed in ADA compliant low-profile saddle sill.
		1. Joint Seals:
			1. Top and Bottom Rails: Sealing brush with double fins on inside and outside.
			2. Vertical Edges Between Panels: Transparent UV resistant edge mounted gaskets. Light Transmission: 75 percent or higher per ASTM D1003.

\*\* NOTE TO SPECIFIER \*\* Vertical edge seals help reduce air and water penetration, glass-to-glass contact, and sound transmission.

* + - 1. Vertical Edges Between Side Jambs and Panels: Double Q-Lon seals.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. INSECT SCREENS

\*\* NOTE TO SPECIFIER \*\* Delete insect screen panel option not required.

* + 1. Insect Screen: Fully retractable non-pleated screen. Ultra-strong, UV resistant fiberglass mesh housed in single cartridge riding on a single track.
			1. Basis-of-Design Product by Manufacturer: The Horizon by Wizard Industries, Inc.
				1. Wizard Industries, Inc.; which is located at: 4263 Phillips Ave, Burnaby, BC, Canada V5A 2X4; Toll Free: (888) 949-3667; Telephone: (604) 299-8878; Fax: (604) 299-4496; Email: sales@wizardindustries.com ; Web: <https://www.wizardscreens.com/>
1. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Examine surfaces of openings and verify dimensions. Verify openings are level, plumb, and square, with no unevenness, bowing, or bumps on floor.

\*\* NOTE TO SPECIFIER \*\* Prior to installing, it's recommended building dead loads be applied to header prior to installing unit. If so, and if a reasonable amount of time has been allowed for the effect of this dead load on the header, only then can the building live load be used to meet requirements of L/720 or 1/4 inch (6 mm). If not, dead and live loads need to be considered. Similar structural support is needed for stacking bays and any upper track leading to it. Structural support for lateral loads such as forced entry, etc. needs to be provided.

* + - 1. Because of large dimensions involved and weight and movement of panels, verify structural integrity of header; maximum deflection with both live and dead loads to be the lesser of L/720 of span and 1/4 inches (6 mm).
			2. Structural support for lateral loads, wind load and eccentric load when the panels are stacked open.
		1. Prepare openings using methods recommended by manufacturer for achieving the best result for the substrate under the project conditions.
			1. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
		2. Do not proceed with installation until substrates are prepared using methods recommended by manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
	1. INSTALLATION
		1. Install per Drawings, submittals, and manufacturer's installation instructions.
			1. Properly flash, seal and waterproof around perimeter of opening.
			2. Attach anchorage devices in place, level, straight, plumb and square. Install frame in proper elevation, plane and location, and in proper alignment with other work.
			3. When lower track is designed to drain, provide connections to allow for drainage.
			4. Install panels, handles, lockset, screens and other accessories in accordance with manufacturer's recommendations and instructions.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Finishing: Field finish under Division 9; seal and finish promptly after installation and prior to exposure to weather in accordance with manufacturer recommendations.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Insect Screens: Install per manufacturer's recommendations and installation instructions.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate in accordance with appropriate sections in Division 01.
		2. Verify operates and functions properly. Adjust hardware for proper operation.
		3. Non-Conforming Work: Repair or replace non-conforming work as directed by the Architect; see General and Supplementary Conditions, and Division 01, General Requirements.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Protect installed products until completion of project. Keep units closed and protect installation against damage from construction activities.
		2. Remove protective coatings. Use manufacturer recommended methods to clean surfaces.

END OF SECTION