SPECIFICATIONS

DIVISION 09 - FINISHES

09 29 00 Gypsum Board (con't)

Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining, latex sealant complying with ASTM C 834 that effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90. Joint Treatment Materials:

General: Provide joint treatment materials complying with ASTM C 475 and the recommendations of both the manufacturers of the wallboard products and joint treatment materials for each application indicated.

Joint Tape: Paper.

Joint Compound for Typical Applications: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.

Prefilling: At open joints and damaged surface areas, use setting-type taping compound. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound

Second coat: For filling over tape, beads and fasteners. Use setting-type, sandable topping compound. Third coat: For finishing over tape, beads and fasteners. Use drying-type, all-purpose compound.

Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound.

Joint Compound for Tile Backing Panels: Use setting-type taping and setting-type, sandable topping compounds.

Applying Interior Gypsum Board:

General: Install and finish gypsum panels to comply with ASTM C 840, GA-216, and the gypsum wallboard manufacturer's recommendations, where standards conflict, the more stringent shall apply.

Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.

STC-Rated Assemblies: Comply with ASTM C 919 and with manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.

Install sound attenuation blankets before installing gypsum panels, unless blankets are readily installed after panels have been installed on one side.

Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's written recommendations.

Installing Trim Accessories:

Installing Trim Accessories: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.

Install corner beads at external corners.

element) in the base building structure.

Install interior trim accessories where edge of gypsum panels would otherwise be exposed or semi exposed. Provide interior trim accessories with face flange formed to receive joint compound.

Install aluminum trim accessories where indicated.

Install control joints in locations indicated and where directed by the Architect for visual effect, or if not indicated or directed by the Architect, provide control joints in accordance with ASTM C 840 which is as follows: Where a partition, wall or ceiling traverses a construction joint (expansion, seismic, or building control

Where a wall or a partition runs in an uninterrupted straight plane exceeding 30 linear feet.

Control joints in interior ceilings with perimeter relief shall be installed so that linear dimensions between control joints do not exceed 50 feet and total area between control joints does not exceed 2500 square

Control joints in interior ceilings without perimeter relief shall be installed so that linear dimensions between control joints do not exceed 30 linear feet and total area between control joints does not exceed 900 square feet.

A control joint or intermediate blocking shall be installed where ceiling framing members change direction.

Taping and Finishing: Complying with ASTM C840 and GA-214; all exposed board junctions and perimeter edges typically, all systems.

Finish Levels: Provide Level 1 in ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for fire-resistance-rated assemblies and sound-rated assemblies.

Provide Level 2 where panels are substrate for tile and where indicated.

Level 3: Not used.

Provide Level 4 at typical exposed gypsum board for paint or wall covering.

Provide Level 5 over entire surface of ceilings, soffits, and where wallboard is indicated to receive wal coverings, semi-gloss and high gloss paints, or decorative plaster.

09 30 00 Tiling

This Section includes wall tile for backsplashes and decorative use.

Submittals: Provide Samples for each type and color of tile and grout scheduled.

Wall Tile Products, General

ANSI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.

Miscellaneous Materials

Latex-Portland Cement Mortar (Thin Set): ANSI A118.4 consisting of the following: Prepackaged dry-mortar mix combined with liquid-latex additive. For wall applications, provide nonsagging mortar.

For glass tile applications use mortar that will not show through glass tile bodies.

Polymer-Modified Tile Grout: ANSI A118.7. Polymer Type: Dry, redispersible form, prepackaged with other dry ingredients. Grouts for Wall Tile: Unsanded liquid latex types in colors as selected by Architect.

Sealants: 'Silicone sanitary sealant', as specified in Section 079200, JOINT SEALANTS.

Wall Tile Installation:

ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.

TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.

Gypsum Wallboard, Interior (Latex Portland Cement Mortar) Method: TCA W243, place tiles maintaining 1/8" wide joints, and true accurate pattern as shown.

Grout Installation: Latex-portland cement: ANSI A108.10.

Cleaning and Protecting

Cleaning: On completion of placement and grouting, clean all tile surfaces so they are free of foreign

SPECIFICATIONS

DIVISION 09 - FINISHES

09 22 16 Non-Structural Metal Framing This Section includes non-load-bearing steel framing members for non fire-rated wallboard partitions, bulkheads, soffits, ceiling transitions, ledges and coves and suspension systems for wallboard ceilings

Submittals: Not required.

Performance Requirements: System Deflections: Typical Walls: Wall assemblies shall be constructed for deflection not to exceed 1/240 of the wall height when subjected to a positive and negative pressure of 5 psf. Walls with Tile Finish: Wall assemblies to receive tile finishes shall be constructed for deflection not to exceed 1/360 of the wall height when subjected to a positive and negative pressure of 5 psf.

not to exceed 1/360 of the distance between supports.

written recommendations, whichever are more stringent.

Metal Framing: indicated.

and cross-furring members that interlock.

Minimum Base Metal Thickness: Typical: As required to comply with deflection criteria. Depth: As indicated.

width.

Installing Steel Framing, General:

Installing Steel Suspended Ceiling Framing: or other equally effective means.

Installation Tolerances: Install steel framing components for suspended ceilings so members for panel attachment are level to within 1/8 inch in 12 feet measured lengthwise on each member and transversely between parallel members.

Installing Steel Partition And Soffit Framing Install continuous runners (tracks) sized to match studs at floors, ceilings, and structural walls and columns where gypsum board stud assemblies abut other construction. Secure runners to substrates with fasteners spaced a maximum of 24" o.c. unless closer spacing is recommended by the framing manufacturer for the floor and ceiling construction involved. Provide fasteners at all corners and ends of runner tracks.

Where studs are installed directly against exterior walls, install foam gasket isolation strip between studs and wall. Installation Tolerance: Install each steel framing and furring member so fastening surfaces vary not more than 1/8 inch from the plane formed by the faces of adjacent framing.

Frame door openings to comply with GA-600 and with gypsum board manufacturer's applicable written recommendations, unless otherwise indicated. Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.

09 29 00 Gypsum Board

Submittals: Not required.

Quality Assurance

Project Conditions: Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

Panel Products

Gypsum Wallboard for Vertical Walls: ASTM C 36. Regular Type: In thickness indicated and with long edges tapered. Type X: In thickness indicated and with long edges tapered.

C1396/C1396M, 5/8 inch thick unless otherwise indicated.

rolled zinc, plastic, or paper-faced galvanized steel sheet.

Cornerbead: Use at outside corners.

edges.

compound: Use where indicated. covering slot opening. Use where indicated.

Aluminum Trim Accessories: Extruded aluminum trim with 1/4 inch diameter holes in fins for attachment to wallboard or studs; longest lengths available in profiles indicated; primed for finish painting: sized for scheduled wallboard thickness indicated.

Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.

Ceilings, bulkheads, soffits, ceiling transitions, ledges, and coves shall be constructed for a deflection

Project Conditions: Comply with ASTM C840 requirements or wallboard material manufacturer's

Framing Members, General: Comply with ASTM C 754 for conditions indicated. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise

Protective Coating: ASTM A 653/A 653M, G40 (Z120), hot-dip galvanized, unless otherwise indicated

Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams

Product Reference: Armstrong World Industries, Inc.; Drywall Grid Systems.

Steel Studs and Runners: ASTM C 645, in minimum depth indicated in partition type details.

Partitions Supporting Wall Mounted Casework: 16 gage minimum.

Single Long-Leg Runner Deflection Track System: ASTM C 645 top runner with 2-inch- (deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top runner and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.

Isolation Strip at Exterior Walls: Adhesive-backed, closed-cell, compressible, non-extruding, sound transmission reducing, vinyl foam tape strips with approximately 13 Shore 00 hardness that allow fastener penetration without foam displacement, 1 inch thick, in width 1/2" less than window mullion

Product Reference: V730 Norton Sealant Tape; gray color.

General: Install steel framing to comply with GA-600, ASTM C754, ASTM C840 and the gypsum board manufacturers recommendations, where standards conflict the more stringent shall apply.

Suspend ceiling hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying,

This Section includes gypsum board, tile backing panels, trim accessories, sound attenuation blankets, acoustical sealants, and joint treatment materials.

Sound Transmission Characteristics: For gypsum board assemblies with STC ratings, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.

Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent. Do not install interior products until installation areas are enclosed and conditioned.

Panel Size, General: Provide in maximum lengths and widths available that will minimize joints in each area and correspond with support system indicated.

Tile Backing Panels: Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M or ASTM

Interior Trim: ASTM C 1047 and manufactured from galvanized or aluminum-coated steel sheet,

Interior Steel Trim Accessories: ASTM C 1047; formed metal sheet steel zinc coated by hot dipped process. Shapes indicated below by reference to Fig. 1 designations in ASTM C1047.

LC-Bead with both face and back flanges to receive joint compound; use at exposed panel

U-Bead with face and back flanges; face flange formed to be left without application of joint

Curved-Edge Cornerbead: With notched or flexible flanges; use at curved openings. Expansion (Control) Joint: One-piece control joint formed with V-shaped slot, with removable strip

SPECIFICATIONS

DIVISION 08 - OPENINGS

08 71 00 Door Hardware

This Section includes hardware for swinging, by-passing, and sliding doors.

Submittals: Door Hardware Schedule: Submit door hardware schedule prepared by or under the supervision of door hardware supplier.

Quality Assurance

Installer Qualifications: An experienced installer who has completed door hardware similar in materia design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

Supplier Qualifications: Door hardware supplier. Scheduling Responsibility: Preparation of door hardware and keying schedules.

Handicapped Accessibility: Comply with The Americans with Disabilities Act and local requirements

Butt Hinges: Standard Weight, Ball Bearing, 5 Knuckle, Steel: Complying with BHMA A156.1 A8112. Butt Hinge and Offset Pivot Hinge Quantity: Provide the following, unless otherwise indicated: Two Hinges: For doors with heights up to and including 60 inches.

Three Hinges: For doors with heights of greater than 60 inches to and including 90 inches. Four Hinges: For doors with heights greater than 90 inches to and including 120 inches. Provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches. Finish: Match lock and latchset finishes.

Locks and Latchsets: Heavy duty Grade 1 mortise locks with cast lever and rose trim typically throughout. Heavy Duty Grade 1 cylindrical locks with lever and rose only where scheduled. Removable cores and core cylinders throughout. Finishes for lock and latchsets shall be selected by architect. Provide strikes for locks and latches. .

Closers: Overhead surface applied, cast iron body, types meeting BHMA A156.4, Grade 1. Finishes: US32D at typical doors.

Accessory Hardware Items (Floor and Wall Stops, Holders, Flushbolts, Dustproof Strikes, Push and Pu Plates, Kick and Armor Plates, Hold Open Devices, etc.): Match lock and latch set finishes.

Glass Door Entries:

Trim and Pulls: Heavy duty bar stock trim. Closers: Overhead concealed closers for doors weighing less than 250 pounds inclusive of glass, rails, and operating trim. Heavy duty floor closers for doors equal to or greater than 250 pounds.

Finish: US32D for exposed accessories and trim.

Installation Mounting Heights: Mount door hardware units at the following heights, unless specifically indicated on the Drawings or required to comply with governing regulations: Locks and Latches: 38 inches (956 mm) to center of lever from finish floor.

Door Pulls: As indicated on Drawings.

Butt Hinges: 10 inches (254 mm) to bottom of lowest hinge from finish floor; 5 inches (127 mm) to top of upper hinge from top of door; space intermediate hinges equally between lower and upper hinges.

Cleaning and Protection

Clean adjacent surfaces soiled by door hardware installation. Clean hardware components as necessary to restore proper finish. Provide protection during the progress of the work and maintain conditions that ensure door hardware is in perfect working order and without damage or deterioration at time of Substantial Completion

08 80 00 Glazing

This Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section: Interior borrowed lites.

Submittals: Not required.

Quality Assurance Installer Qualifications: An experienced installer who has completed glazing similar in material, design and extent to that indicated for Project and whose work has resulted in construction with a record of

successful in-service performance.

Safety Glass: Comply with the applicable requirements of the laws, codes, ordinances and regulations of Federal and Municipal authorities having jurisdiction, wherever requirements conflict the more stringent shall be required. Obtain approvals from all such authorities. As a minimum provide Category II materials complying with testing requirements in 16 CFR 1201 (Consumer Product Safety Commission "Safety Standard for Architectural Glazing Materials", as published in the Code of Federal Regulations) and ANSI Z97.1.

Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for alazing terms not otherwise defined in this Section or in referenced standards. GANA Publications: GANA'S "Glazing Manual".

Products **Primary Float Glass**

Float Glass: ASTM C 1036, Type I (transparent glass, flat), Quality q3 (glazing select).

Fully Tempered Glass: Provide glass complying with ASTM C1048 Kind FT and meeting the requirements of ANSI Z97.1. Surface compression shall be equal to or greater than 10,000 psi (69 MPa).

Fabrication Of Glass and Other Glazing Products

Fabricate glass and other glazing products in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing standard, to comply with system performance requirements.

Glazing, General

Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

Heat Soaking

All glass provided in the scope of work is to be heat soaked in accordance with ASTM C 1048 industry standard for heat treated glass and meeting the requirements of ANSI Z97.1. Surface compression shall be equal to or greater than 10,000 psi.

All glass units shall be installed in accordance with the glass manufacturers recommendations.

Protection and Cleaning

Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way and from any source, including natural causes, accidents, and vandalism.

Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

Project Conditions Field Measurements: Verify dimensions of supporting structure by field measurements before fabrication so that the all-glass entrance and storefront work will be accurately designed, fabricated and fitted to the structure. Indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work. Use Contractor's lines and benchmarks as a basis for measurements.

Materials Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), tested for surface and edge compression per ASTM C 1048 and for impact strength per 16 CFR 1201 for Category II materials. All glass shall be heat soaked in accordance with Viracon's heat soaking procedures to obtain the specified warranty.

Class 1: Clear. Thickness: 1/2 inch (13 mm). Exposed Edges: Flat edge (cut edge of glass is flat and surface edges are slightly arrised) with polished finish.

Aluminum: AA Alloy 6063 and ASTM B 221 (ASTM B 221M), with tempering as required to suit performance requirements and finishes specified. Stainless-Steel Cladding: ASTM A 666, Type 304.

and shapes.

Components Glass Entrances and Sidelights: Provide and extruded aluminum retained, glass and metal frame and door system fabricated and finished to suit the conditions indicated and specified. System shall be complete with all aluminum framing members, fasteners, anchors, gaskets, washers, glass and glazing, and hardware components. All aluminum members shall be clad with specified metal cladding. Glass door and sidelight framing system shall be similar to the following:

Manufacturers and Systems: One of the following: Glassier Door Series 1301; Blumcraft of Pittsburgh. Total Vision Concept (TVC) Entrances; Oldcastle Glass, Rosemont, IL. Dorma-Glas Entrance Systems; Dorma-Glas, Inc., Upper Marlboro, MD.

Top and Bottom Rails: Fabricate of one-piece extruded aluminum rails, retaining 1/2" clear tempered glass materials unless otherwise shown. Provide recessed aluminum headers for door head opening support. Adhesively laminate or mechanically clad rail base metal members, returning cladding around extrusions to eliminate exposed edges. Fabricate rails with continuous bosses, or serrated edges, to receive dry gaskets to secure the glass in the rails in lieu of wet glazing materials. Provide end caps to close off rail ends fabricated from stainless steel.

Sidelight Channels: Recessed aluminum head channels for concealed sidelight head and sill support. Channels shall be fabricated with continuous bosses, or serrated edges, to receive dry gaskets to secure the glass in the channel in lieu of wet glazing materials.

Anchors and Fastenings: Material: Steel.

Spacers, Setting Blocks, Gaskets: Permanent, nonmigrating types of material and in hardness recommended by all-glass storefront and entrance manufacturer and complying with the performance requirements. Slip and Separator Gaskets:

Hardware, General: Heavy-duty hardware units in sizes, quantities, and types recommended by manufacturer for all-glass entrances indicated. For exposed parts, match cladding metal finish unless scheduled otherwise.

Overhead Angle Stops: Provide one overhead angle stop per door opening.

Fabrication

Provide holes and cutouts in glass to receive hardware, fittings, rails, and accessories before tempering glass. Drill, countersink, and chamfer holes using tooling, materials and methods which are selected and applied to prevent spalling of the cut glass surfaces at holes and cutouts. The internal surface of holes and cutouts shall be smooth with minimal roughness from drilling operations. Do not cut, drill, or make other alterations to glass after tempering. Fully temper glass using horizontal (roller-hearth) process and fabricate so, when installed, rollwave distortion is parallel with bottom edge of door or lite. Heat Soaking: After tempering, expose 100% of all fabricated glass units to the heat soaking process, which is based on European Union heat soaking standards, to eliminate inclusion related glass breakage. Factory assemble components and factory install hardware to greatest extent possible.

Fabricate all entrances to accommodate the swing direction shown. Metal components of all-glass entrances and storefronts shall be cut, reinforced, drilled and tapped in strict accordance with the printed door hardware manufacturers templates and instructions. Provide solid carbon steel hardware reinforcements, securely fastened to doors and frames where door hardware is to be

attached.

shop.

Installation

Cleaning

SPECIFICATIONS

Stainless-Steel: ASTM A 666, Type 304 for plate and flat bar and ASTM A 276, Type 304 for bars

Anchor and Fastener Metal Alloy Types, Designations and Standards: Alloys as recommended by fabricator for the application(s) indicated.

Adhesives and Epoxies: As required for laminating cladding to base components.

Concealed Overhead Closers, Basis-of-Design: Dorma RTS 88 Series, single-acting, center hung. Bottom Pivots: Rixson Model 370 bottom pivot Push-Pull Set, Basis-of-Design: Rockwood RM 3301, 1-1/4-inch diameter by 36 inches long, US32.

Floor Bumper: Provide one floor bumper per door leaf. Cast half dome design with rubber

Overhead Magnetic Devices: Where scheduled, provide one surface mounted electromagnetic lock per door leaf. Card Readers, Door Releases, and Passive Infrared Detectors: By Owner's security vendor.

General: Fabricate the all-glass entrances and storefronts to the designs, shapes, and sizes shown using the materials, and components, specified and shown to produce assemblies which meet or exceed the performance requirements. To the greatest extent possible complete fabrication, assembly, finishing, hardware applications and other work before shipment to Project site.

Joints in Metal Work: All exposed metal work shall be carefully fitted and matched to produce continuity of line and design, with all joints, being accurately fitted for hairline contact and rigidly secured. Where additional rigidity or strength is required to satisfy the performance requirements reinforce entrance components with aluminum or carbon steel shapes, bars, and plates.

Shop Assembly: As far as practicable, all fitting and assembly work shall be done in a fabrication

Exposed Fasteners: Not permitted.

Stainless-Steel Finishes General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Stainless-Steel Finish: No. 4, bright, directional polish.

General: Comply with manufacturer's written instructions for protecting, handling, and installing allglass entrance and storefront systems. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints.

Entrance Doors and Sidelights: Doors and Sidelights shall be securely anchored in place to a straight, plumb and level condition, without distortion. Adjust doors to operate smoothly, without binding, with hardware functioning properly. Hardware movement, shall be field tested and final adjustment, and lubrication, made for proper operation and performance of doors. Install surface-mounted hardware according to manufacturer's written instructions using concealed fasteners to greatest extent possible.

Maintain uniform clearances between adjacent components.

Erection Tolerances The all-glass entrance and storefront systems shall be fabricated and erected to accommodate the dimensional tolerances of the structural frame, while providing the following as installed tolerances.

Variation from theoretical calculated position as located in plan or elevation in relation to established floors lines, column lines and other fixed elements of the structure, including variations from plumb, level, straight and member size: +/- 1/4 inch (6.4 mm) max. in any 20 foot (6 m) run, column-to-column bay, or floor-to-floor height.

Alignment: Where surfaces abut in line, limit offset from true alignment to 1/16 inch (1.5 mm). Where surfaces meet at corners, limit offset from true alignment to 1/16 inch (1.5 mm).

Variation from plumb: +/- 1/8 inch (3 mm) max. in 10 foot (3 m) run or story height, non-cumulative. Variation from slope, or level, shown: +/- 1/8 inch (3 mm) max. in any 20 foot (6 m) run or columnto-column bay, non-cumulative.

Clean metal surfaces promptly after installation, exercising care to avoid damage to factory finished exposed surfaces. Wash glass on both faces not more than 4 days prior to date scheduled for inspections that establish date of Substantial Completion.

SPECIFICATIONS

DIVISION 08 - OPENINGS

08 14 16 Flush Wood Doors (con't)

Shop Priming Doors for Opaque Finish: Shop prime faces and edges of doors, including cutouts, with one coat of wood primer/sealer as standard with door manufacturer. Surfaces shall be clean and dry before priming. Apply primer/sealer uniformly without bare spots, runs, or sags.

Factory Finishing Finish doors at factory that are indicated to receive transparent finish.

General: Comply with the referenced quality standard for factory finishing

Transparent Finish: Grade: Premium.

Finish: Manufacturer's standard finish with performance meeting or exceeding the performance of either AWI System Conversion Varnish, or AWI System Catalyzed Polyurethane.

Staining: Prepare door faces, stiles, rails, and cutouts, with toners, or stains, prior to the application of finish to match building standard.

Effect and Sheen: Match building standard.

Hardware: Apply hardware to new doors in accordance with hardware manufacturers instructions and Division 8 Section "Door Hardware." For particleboard core doors drill pilot holes of proper size for installing hinge screws. Adjust hardware items just prior to final inspection. Leave work in complete and proper operating condition.

Factory wrapping shall be maintained on new doors during construction period, and all hardware shall be installed by cutting the factory wrapping at the mounting location of the hardware item.

General Door Installation Standards: Install doors in locations indicated to comply with manufacturer's written instructions, referenced quality standard, and as indicated. Where standards conflict the more stringent shall apply.

Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels; and to contact stops uniformly, do not trim stiles and rails in excess of limits set by manufacturer or permitted for fire-rated doors. Field cutting, fitting or trimming, shall be executed in a workmanlike manner. Machine doors for hardware. Seal cut and trimmed surfaces immediately after fitting and machining using clear varnish or sealer Clearances: Provide 1/8 inch (3.2 mm) at heads, jambs, and between pairs of doors.

Provide 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 1/4 inch (6.4 mm) from bottom of door to top of threshold.

Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.

Field-Finished Doors: Refer to the following for finishing requirements: Division 9 Section "Interior Painting."

Adjusting and Protection

Rehang or replace doors that do not swing or operate freely.

Protection: Protect wood doors to ensure that the wood door work will be without damage or deterioration at the time of Substantial Completion.

Refinish or replace wood doors damaged during installation. Replace any new wood doors that are warped, twisted, demonstrate core show through, are not true in plane, or cannot be refinished to the satisfaction of the Architect.

08 41 26 All Glass Entrances and Storefronts

This Section includes: All-glass entrance doors

Full-height glazed lites

Performance Requirements, General: Provide all-glass entrance and storefront systems meeting or exceeding the following performance requirements: Lateral Loads: The all-glass entrance and storefront work, including glass, shall be designed, fabricated and installed to withstand a maximum inward and outward lateral pressure of 5 lbf/sq. ft. for sidelights and 20 lbf/sq. ft. (0.96 kPa) for the active door panels.

Seismic Loads: As required by ASCE 7.

Deflection Limitations:

Deflections: Base calculations for the following deflections upon the combination of maximum direct lateral pressures, building deflections, and erection tolerances. The deflection of any framing member in a direction normal to the plane of the wall when subjected to the full lateral pressures specified above shall not exceed 1/175 of its clear span or 3/4 inch (19 mm) whichever is less, except limit deflection of glass to 1/2 inch (13 mm). Glass, sealants and interior finishes shall not be included to contribute to framing member strength, stiffness or lateral stability.

Dead Loads:

Limit deflections of metal members spanning door openings to 1/300. The clearance between the member and an operable door shall be no less than 1/16 inch (1.5 mm). Twisting (rotation) of the horizontals due to the weight of the glass shall not exceed 1 degree, measured between ends and center of each span.

Operational (Traffic) Loads: Design and fabricate all-glass entrances to withstand the operating loads which result from heavy traffic conditions using the specified hardware, without measurable permanent deflection. Limit elastic deflections so as to provide the normal degree of rigidity required to avoid glass breakage, air leaks and other objectionable results of excessive flexibility. Building Frame Movement: Design, fabricate and install all-glass entrances and storefronts to withstand building movements including loading deflections, shrinkage, creep and similar movements.

Product Data: Submit manufacturer's specifications and installation instructions for each all-glass entrance and storefront product specified.

Shop Drawings: Submit shop drawings showing scaled elevations, plans, and sections of the allglass entrance and storefront work. Full scale sections shall be prepared and submitted for details of the assemblies that cannot be shown in the elevations or sections. Show direction of satin finish for each component receiving a directional finish.

Structural Calculations: Submit, for information only, copies of structural calculations indicating complete compliance with the specified performance requirements. Calculations shall be prepared, signed and sealed by a Professional Engineer registered in the state wherein the work is to be erected.

Quality Assurance

Manufacturer Qualifications: The all glass entrance and storefront drawings and specifications are based on the following: Dorma-Glas systems using Viracon heat soaked clear tempered glass products.

J.E. Berkowitz systems using J.E. Berkowitz heat soaked clear tempered glass products.

Standards: Comply with the applicable provisions and recommendations of the following standards below, where standards conflict the more stringent shall apply: American Architectural Manufacturers Association (AAMA): "Aluminum Store Front and Entrance Design Guide Manual."

American Institute of Steel Construction (AISC), "Steel Construction Manual," Current Edition.

Welding Standards: Welding shall be performed by skilled and qualified mechanics. Welding shall be performed in accordance with the applicable provisions of AWS D1.1 "Structural Welding Code -Steel."

Glass Association of North America (GANA): "Fully Tempered Heavy Glass Door and Entrance Systems Design Guide."

Delivery, Storage, and Handling

Packaging of components shall be so selected to protect the components from damage during shipping and handling. Storage on Site: Store all-glass entrance and storefront components in a location and in a manner to avoid damage to the components. Keep handling on site to a minimum. Exercise particular care to avoid damage to finishes of metals.

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Date Description

Seal / Signature

Project Name URS - PORTLAND

Project Number 59.6222.900

Scale 1:1

Description SPECIFICATIONS



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