ALUMICOR GUIDE NOTE: This master specification section includes ALUMICOR GUIDE NOTEs identified as “ALUMICOR GUIDE NOTE” for information purposes and to assist the specification writer in making appropriate decisions. The ALUMICOR GUIDE NOTE always immediately precedes the text to which it is referring. The section serves as a guideline only and should be edited with deletions and additions to meet specific project requirements.

ALUMICOR GUIDE NOTE: This specification section follows the recommendations of the Construction Specifications Canada, Manual of Practice including MasterFormat, SectionFormat, and PageFormat. Optional text is indicated by square brackets [ ]; delete the optional text including the brackets in the final copy of the specification. Delete the ALUMICOR GUIDE NOTEs in the final copy of the specification. Trade/brand names with appropriate product model numbers, styles and types are used in ALUMICOR GUIDE NOTEs and in the specification text Article or Paragraph titled Acceptable Material. The Section is written for the Canadian industry with units of measurement shown in SI Metric and Imperial measurement following in parentheses.

1 GENERAL

1.01 SUMMARY OF WORK

.1 This Section specifies thermally broken, aluminum terrace doors, frames and accessories.

1.02 RELATED REQUIREMENTS

ALUMICOR GUIDE NOTE: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Paragraph below. Do not include Division 00 Documents or Division 01 Sections since it is assumed that all technical sections are related to all project Division 00 Documents and Division 01 Sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered a legal part of the Contract. Edit the following paragraphs to suit specific project conditions.

.1 Section [07 62 00 - Metal Flashing and Trim: Flashings].

.2 Section [07 84 00 - Firestopping: Firestopping insulation].

.3 Section [07 92 00 - Joint Sealing].

.4 Section [08 51 13 – Aluminum (Fixed) Windows].

.5 Section [08 44 13 – Glazed Aluminum Curtain Walls].

.6 Section [08 80 50 - Glazing: Insulating glass units].

ALUMICOR GUIDE NOTE: Only include defined terms for items that appear in the final specification section and which are not commonly known terms in the industry or are open to interpretation.

1.03 REFERENCE STANDARDS

.1 Aluminum Association (AA)

.1 DAF 45-[2003], Designation System For Aluminum Finishes.

.2 American Architectural Manufacturers Association (AAMA).

.1 AAMA/WDMA/CSA 101/I.S.2/A440-[2008, NAFS - North American Fenestration Standard / Specification for Windows, Doors, and Skylights.

.2 AAMA 925-[2003], Specification for Determining the Vertical Loading Resistance of Side-Hinged Door Leaves.

.3 AAMA 1304-[2002], Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems.

.4 AAMA-910-[2010], Voluntary “Life Cycle” Specifications and Test Methods for AW Class Architectural Windows and Doors

.5 AAMA-2603-[2013], Voluntary Specification, Performance Requirements and

Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

.6 AAMA-2604-[2013], Voluntary Specification, Performance Requirements and

Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.

.7 AAMA-2605-[2013], Voluntary Specification, Performance Requirements and

Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

.8 AAMA CW-10-[2012], Care and Handling of Architectural Aluminum From Shop to Site.

.9 AAMA-TIR A1-[2004], Sound Control for Fenestration Products.

.10 AAMA CW-11-[1985], Design Windloads for Buildings and Boundary Layer Wind

Tunnel Testing.

.11 AAMA-TIR A1-[2004], Sound Control for Fenestration Products.

.3 ASTM International (ASTM).

.1 ASTM A653 / A653M – [09a], Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

.2 ASTM B209-[2010], Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

.3 ASTM B221-[2013], Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

.4 ASTM C612-[2014], Standard Specification for Mineral Fiber Block and Board Thermal Insulation.

.5 ASTM E283-[2012], Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

.6 ASTM E330-[02], Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

.7 ASTM E331‑[2009], Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform Static Air Pressure Difference.

.7 ASTM E547-[00], Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Difference.

.8 ASTM E1105-[2008], Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference.

.9 ASTM D2240-[2010], Standard Test Method for Rubber Property—Durometer Hardness.

.4 Canada Green Building Council (CaGBC).

.1 LEED® Canada-NC Version 1.0-[2004], LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations including Addendum 2007.

.5 Canadian General Standards Board (CGSB).

.1 CAN/CGSB-12.8-[97], Insulating Glass Units.

.2 CAN/CGSB-12.20-[M89], Structural Design of Glass for Buildings.

.3 CAN/CGSB-19.13-[M87], Sealing Compound, One-Component, Elastomeric, Chemical

Curing.

.6 CSA International (CSA)

.1 CAN/CSA-S157-[2005], Strength Design in Aluminum.

.2 CAN/CSA-S136-[2007], North American Specification for the Design of Cold-Formed Steel

Structural Members.

.3CAN**/**CSA W59.2-[M1991(R2003)], Welded Aluminum Construction.

 .4 CAN/CSA-B651-04 (r2010), Accessible Design for the Built Environment

.7 Environmental Choice Program (ECP)

.1 CCD‑45‑[1995], Sealants and Caulking Compounds.

.8 Underwriter’s Laboratories of Canada (ULC)

.1 CAN/ULC-S710.1 [2005], Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials Standard for Thermal Insulation - Bead - Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials.

.9 Americans with Disabilities Act (ADA)

1.04 ADMINISTRATIVE REQUIREMENTS

.1 Co-ordination: Co-ordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays.

.2 Pre-installation Meeting: Convene pre-installation meeting after Award of Contract and one week prior to commencing work of this Section to verify project requirements, substrate conditions and coordination with other building sub-trades, and to review manufacturers written installation instructions.

.1 Comply with Section 01 31 19 ‑ Project Meetings and co-ordinate with other similar pre‑installation meetings.

.2 Notify attendees 2 weeks prior to meeting and ensure meeting attendees include as minimum:

.1 Owner;

.2 Consultant;

.3 Glazing subcontractor;

.4 Manufacturer’s Technical Representative.

.3 Ensure meeting agenda includes review of methods and procedures related to glazed aluminum door and frame installation including co-ordination with related work.

.4 Record meeting proceedings including corrective measures and other actions required to ensure successful completion of work and distribute to each attendee within 1 week of meeting.

ALUMICOR GUIDE NOTE: Article below includes submittal of relevant data to be furnished by Contractor.

1.05 ACTION AND INFORMATIONAL SUBMITTALS

.1 Make submittals in accordance with Contract Conditions and Section 01 33 00 ‑ Submittal Procedures.

.2 Product Data: Submit product data including manufacturer’s literature for terrace doors, frames extruded members, panels, components and accessories, indicating compliance with specified requirements and material characteristics.

.1 Submit list on aluminum door and frame manufacturer’s letterhead of materials, components and accessories to be incorporated into Work.

.2 Include product names, types and series numbers.

.3 Include contact information for manufacturer and their representative for this Project.

.3 Shop Drawings: Submit drawings stamped and signed by Professional Engineer registered or licensed in [Province] [Territory] of [\_\_\_\_\_], Canada. Include on shop drawings:

.1 Door and frame materials and profiles, full sized details of components, interior trim, exterior junctions with adjacent materials, junctions between combination units, elevations, arrangement of hardware and required clearances.

.2 Framed opening requirements and tolerances, anchor details, anticipated deflection under load, affected related Work, and field welding required.

ALUMICOR GUIDE NOTE: Include the following Paragraph if project is located in seismically active zone.

.2 Show size and location of seismic restraints. Include seismic design calculations

.4 Samples:

.1 Submit one 300 x 300 mm (12 x 12 inches) corner sample of door and frame.

.2 Submit sample showing glazing detail, reinforcement, finish and location of manufacturer's nameplates.

.3 Ensure frame sample shows glazing stop, door stop, jointing detail and finish.

.5 Thermal Performance: Submit verification that Insulating Glass Units used in door panel meet RSI (R) values specified.

.6 Test Reports:

.1 Submit test reports showing compliance with specified performance characteristics and physical properties including air infiltration, water infiltration, life cycle and structural performance.

.7 Field Reports: Submit manufacturer’s field reports within 3 days of manufacturer representatives site visit and inspection.

.8 Sustainable Design (LEED).

.1 LEED Submittals: In accordance with Section [01 35 21 – LEED Requirements]

.9 Installer Qualifications:

.1 Submit letter verifying installer’s experience with work similar to work of this Section.

1.06 CLOSEOUT SUBMITTALS

.1 Operation and Maintenance Data: Supply maintenance data for aluminum terrace doors and frames for incorporation into manual specified in Section 01 78 00 ‑ Closeout Submittals.

ALUMICOR GUIDE NOTE: If LEED is not a part of the project delete the following Paragraph in its entirety.

.2 Sustainable Design Closeout Documentation (LEED).

.1 Provide calculations on end-of-project recycling rates, salvage rates, and landfill rates for work of this Section demonstrating percentage of construction wastes which were recycled.

.2 Submit verification from recycling facility showing receipt of materials.

.3 Record Documentation: In accordance with Section 01 78 00 ‑ Closeout Submittals.

.1 List materials used in aluminum terrace doors and frames work.

.2 Warranty: Submit warranty documents specified.

1.07 QUALITY ASSURANCE

.1 Sustainability Standards Certification (LEED).

.1 LEED Canada-NC Version 1.0 submittals: in accordance with Section 01 35 21 ‑ LEED Requirements.

ALUMICOR GUIDE NOTE: The following Article although not part of Quality Assurance, can be used to enhance the quality of materials by ensuring that they are delivered and handled properly at the work site.

1.08 DELIVERY STORAGE AND HANDLING

.1 Delivery and Acceptance Requirements:

.1 Deliver material in accordance with Section 01 61 00 ‑ Common Product Requirements.

.2 Deliver aluminum terrace door and frame materials and components in manufacturers original packaging with identification labels intact and in sizes to suit project.

.2 Material Handling: To AAMA CW-10.

.3 Storage and Handling Requirements: Store materials off ground and protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

.1 Material storage: To AAMA CW-10.

.4 Packaging Waste Management:

ALUMICOR GUIDE NOTE: For smaller projects that do not have a separate Section for waste management and disposal, delete the following paragraph.

.1 Separate and recycle waste packaging materials in accordance with Section 01 74 19 ‑ Construction Waste Management and Disposal.

.2 Remove waste packaging materials from site and dispose of packaging materials at appropriate recycling facilities.

ALUMICOR GUIDE NOTE: For smaller projects that do not have a Waste Management Plan, delete the option referring to a Waste management Plan.

.3 Collect and separate for disposal paper and plastic material in appropriate on-site storage containers for recycling[ in accordance with Waste Management Plan].

1.09 WARRANTY

.1 Project Warranty: Refer to Contract Conditions for project warranty provisions.

.2 Manufacturer’s warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty document executed by authorized company official. Manufacturer’s warranty is in addition to and not intended to limit other rights Owner may have under Contract Conditions.

ALUMICOR GUIDE NOTE: Coordinate article below with manufacturer’s warranty requirements.

.3 Warranty period: [1] [2] years commencing on Date of Substantial Performance of Work.

.1 Insulating glass units: [10] years, on Date of Substantial Performance of Work.

2 PRODUCTS

2.01 MANUFACTURER

.1 Manufacturer: Alumicor Limited, 290 Humberline Drive, Toronto, Ontario, Canada M9W 5S2, Phone: (416) 745-4222 or (877) ALUMICOR, e-mail: **info@Alumicor.com**, URL: [**www.Alumicor.com**](http://www.Alumicor.com).

2.02 DESCRIPTION

.1 Thermally broken, single hinged, outswing, [single] [double] leaf exterior aluminum door and frame of tubular aluminum sections with insulating glass unit, multi-point lock, latch lock and AccessAble™ barrier free threshold.

2.03 DESIGN CRITERIA

.1 Design door and frame to [NAFS - AAMA/WDMA/CSA 101/I.S.2/A440-08].

.2 Design aluminum components to [CAN/CSA S157].

.3 Test air leakage: To [AAMA 910-10]

.3 Test water penetration: To [ASTM E547] [ASTM E331].

.4 Test vertical load resistance: To [AAMA 925].

.5 Test uniform load: To [AAMA 910-10].

.7 Test leaf and hardware cycling: To [AAMA 910-10]

.6 Test resistance to forced entry: To [AAMA 1304].

.1 Force to latch test: To [NAFS -AAMA/WDMA/CSA 101/I.S.2/A440-08]

.7 Design and size door and frame components to withstand dead and live loads caused by pressure and suction of wind, acting normal to plane of wall using design pressure of [0.95 kPa (20 psf)] to [AAMA CW 11] [ASTM E330].

.1 Design door and frame for expansion and contraction caused by cycling temperature range of [95] degrees C over [12] hour period without causing detrimental effect to system components.

ALUMICOR GUIDE NOTE: Consideration should be given to the colour of the doors and frames when calculating expansion and contraction since darker colours will have a greater coefficient of expansion than lighter colours.

.2 Thermal expansion: Ensure door and frame can withstand temperature differential of [85] degrees C and are able to accommodate interior and exterior system expansion and contraction without damage to components or deterioration of glazing seals.

ALUMICOR GUIDE NOTE: The RSI or R value for the glass areas of the aluminum terrace doors and frames is totally dependent not only on whether a double or triple pane Insulating Glass Unit (IGU) is used, but also upon the manufacturer of the IGU. Check the IGU manufacturer’s technical literature before specifying the RSI or R values.

.3 Vision glass areas: Insulating Glass Unit [RSI [\_\_\_\_\_\_] (R [\_\_\_\_\_\_])].

2.04 Door and frame MATERIALS

.1 Extruded aluminum: To ASTM B221, 6063 alloy with [T5] [T6] temper.

.2 Sheet aluminum: To [ASTM B209], utility grade for unexposed surfaces.

.3 Fasteners, screws and bolts: Cadmium plated stainless steel [300] [or] [400] series to meet aluminum terrace door and frame requirements and as recommended by manufacturer.

Alumicor Guide Note: Retain the following paragraph if insulating glass units are specified in another Section. Delete the paragraph if they are specified here.

.4 Insulating glass units: In accordance with Section [08 80 50 – Glazing].

.5 Insulating glass units: To [CAN/CGSB-12.8], [double] [triple] glazed, hermetically sealed, argon filled insulating glass units with low conductance [black] stainless steel warm edge spacer.

.1 Outer lite: [6] mm ([0.25] inches) clear float glass with low-E coating on surface two.

Alumicor Guide Note: Retain the following paragraph

.2 Centre lite: [6] mm ([0.25] inches) heat strengthened clear float glass.

.3 Inner lite: [6] mm ([0.25] inches) clear float glass with low-E coating on surface five.

.6 Thermal Break: Glass fibre reinforced polyamide porthole extrusion.

.7 Acceptable Material: Alumicor Ltd., TerraPorte AccessAble™.

2.05 FABRICATION

.1 Fabricate [single] [double] leaf doors and frames [with central astragal] of extruded sections and mitre corners to sizes and profiles indicated. Include:

.1 Insulating glass units as indicated:

.1 Place insulating glass unit on flexible silicone type glazing gasket complete with two-part structural silicone sealant around outside of glazing gasket.

.2 Glaze cavity between glazing unit and adjacent panel member with structural silicone sealant.

.3 Secure insulating glass units using aluminum stops and EPDM glazing gasket.

.2 Lever handle, multi-point lockset and strike plate;

.3 Six point locking;

.4 Europhile cylinder complete with key, thumbturn deadbolt and covers;

.5 Interior and exterior door handles;

.6 [Standard] [Heavy] duty aluminum hinges with stainless steel covers at [2] locations.

.7 Snubbers.

.8 [Concealed door stop].

 .9 [Overhead closer]

.10 Thermally broken threshold with an overall height from finished floor of not greater than [12.7]mm] ([0.50] inches)

.2 Fabricate doors and frames with minimum clearances and shim spacing around glazing.

.1 Accurately fit and secure joints and corners.

.3 Door: Construct door square, plumb and free from distortion, waves, twists, buckles or other defects detrimental to performance or appearance.

.1 Stiles: Extruded aluminum members with glass fibre reinforced polyamide porthole extrusion thermal break.

.2 Rails: Extruded aluminum members with glass fibre reinforced polyamide porthole extrusion thermal break.

.4 Frame: Construct jamb member to interlock and align with header members to form strong joint.

.1 Ensure mitered aluminum corner joints are flush, hairline, waterproof and supported by two-piece cast aluminum corner keys held in place by spring loaded aluminum plug at one end of each corner key section.

.2 Seal aluminum plug to frame section with silicone sealant.

.1 Acceptable material: Tremco Spectrem 2.

.3 Fasten corner key sections together with stainless steel hex-head machine screws.

.4 Seal corner joints during assembly with elastomeric sealer.

.5 Fasteners: Use only concealed fasteners

.1 Where fasteners cannot be concealed, countersunk screws finished to match adjacent material may be used upon receipt of written approval from Consultant.

2.06 FINISHES

ALUMICOR GUIDE NOTE: Choose one of the following three paragraphs to specify the finish on exposed aluminum exterior surfaces.

.1 Exterior exposed aluminum surfaces: To [AAMA 2604, 2-coat, thermal setting enamel consisting of primer and topcoat] [AAMA 2605, 3-coat, thermal setting enamel consisting of primer, colour coat and clear coat] with [70] % minimum fluoropolymer resin and polvinyldiene fluoride (PVDF)], [0.025 mm (1 mil)] [0.03 mm (1.2 mil)] minimum total thickness coloured [\_\_\_\_\_\_].

ALUMICOR GUIDE NOTE: Duranar XL is a thicker more durable finish than Duranar. Some colours such as metallics are only available as Duranar XL finishes.

.1 Acceptable material; PPG Industries Inc., [Duranar] [Duranar XL].

ALUMICOR GUIDE NOTE: For Alumicor products, Class 1 is available in Clear, Champagne, Light Bronze and Black. Class II is only available as a Clear anodized finish.

.2 Exterior exposed aluminum surfaces: To AA DAF-45-M10C21A41, Architectural [Class I], [clear] anodized [18 µm (0.0007 inches)] minimum thickness coloured [\_\_\_\_\_\_].

.1 Acceptable material: Alumicor Ltd., Class I Anodic Finish.

.3 Exterior exposed aluminum surfaces: To AA DAF-45-M10C21A31, Architectural Class II, clear anodized [10 µm (0.0004 inches)] minimum thickness.

.1 Acceptable material: Alumicor Ltd., Class II Anodic Finish.

ALUMICOR GUIDE NOTE: Choose one of the following three paragraphs to specify the finish on exposed aluminum interior surfaces.

.4 Interior exposed aluminum surfaces: To [AAMA 2603, 1-coat pigmented organic thermal setting finish] [AAMA 2604, 2-coat, thermal setting enamel consisting of primer and topcoat with [70] % minimum fluoropolymer resin and polvinyldiene fluoride (PVDF)], [0.019 mm (0.75 mil)] [0.025 mm (1 mil)] minimum total thickness coloured [bronze].

ALUMICOR GUIDE NOTE: Duranar is a thicker more durable finish than Duracron, Duracron should not be used for exterior finishes. Some colours such as metallics are only available as Duranar XL finishes.

Acceptable material; PPG Industries Inc., [Duracron] [Duranar].

ALUMICOR GUIDE NOTE: For Alumicor products, Class 1 is available in Clear, Champagne, Light Bronze and Black. Class II is only available as a Clear anodized finish.

.5 Interior exposed aluminum surfaces: To AA DAF-45-M10C21[A41][A44], Architectural Class I, anodized [18 µm (0.0007 inches)] minimum thickness coloured [clear][\_\_\_\_\_\_].

.1 Acceptable material: Alumicor Ltd., Class I Anodic Finish.

.6 Interior exposed aluminum surfaces: To AA DAF-45-M10C21A31, Architectural Class II, clear anodized [10 µm (0.0004 inches)] minimum thickness.

.1 Acceptable material: Alumicor Ltd., Class II Anodic Finish.

2.07 Locks

.1 Lock Handle Assembly: Multi-point locking system with gearbox lock body fastened to door stile.

.1 Acceptable material: Giesse/Savio, Lock Handle Assembly, Model No. 74031xx.

.2 Deadbolt: Thumbturn deadbolt lock with keyed cylinder and gearbox lock body fastened to door stile.

.1 Acceptable material: Giesse Group, Deadbolt, Model No 3131.

.3 Multi-Point Lock Assembly: Combination lock handle and deadbolt assembly with gearbox lock fastened to door style operating [6] locking points.

.1 Acceptable materials: Giesse Group, Multi-Point Lock Assembly, Model No. 04628.

2.08 ACCESSORIES

.1 Sealant: To [CAN/CGSB-19.13], Class 40, one-component, cold-applied, non-sagging silicone.

.1 Acceptable material: Dow Corning 795.

ALUMICOR GUIDE NOTE: The specification of products that are certified to meet the Environmental Choice Program CCD-45 will provide reduced environmental impacts. The use of lower VOC products contributes more towards LEED credits.

.2 Sealant Bond Breaker: Open cell foam backer rod sized to suit project requirements.

.3 Weatherstrip: EPDM bulb type.

.4 Gasketing: To [CCD-45] [Silicone compatible rubber] [or] [EPDM] [extruded silicone] gaskets.

.5 Setting Blocks: To [CCD-45] and [ASTM D2240], [neoprene] [EPDM] [silicone], [80 - 90] Shore A Durometer hardness.

.6 Spacers: To [CCD-45] and [ASTM D2240], [neoprene] [EPDM] [silicone], [50 - 60] Shore A Durometer hardness.

.7 Door bumpers: black neoprene.

.8 Door bottom seal: door seal of anodized extruded aluminum frame and pile weather seal, conceal attachment screws with extruded aluminum cap.

.9 Threshold: Extruded aluminum, thermally broken with an overall height from finished floor of not greater than [12.7]mm] ([0.50] inches).

.1 Acceptable material: Alumicor Ltd., proprietary AccessAble™ threshold.

.10 Isolation coating: [alkali resistant] [bituminous paint] [epoxy resin solution].

.11 Liquid Foam Insulation: Single component, moisture cure, low expansion rate spray-in-place polyurethane liquid foam insulation to ULC-S710.1 and in accordance with manufacturer’s written recommendations.

2.09 PRODUCT SUBSTITUTIONS

.1 Substitutions: [In accordance with Section 01 23 13 - Product Substitution Procedures] [No substitutions permitted].

2. Ensure all components, including operating hardware come from one manufacturer.

3 EXECUTION

3.01 INSTALLERS

Alumicor Guide Note: Alumicor authorized installers use only Alumicor manufactured or approved components. Other installers may substitute other manufacturer’s materials.

.1 Use only [Alumicor authorized installers for] [installers with 2 years minimum experience in work similar to] work of this Section.

3.02 EXAMINATION

.1 Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for aluminum terrace door and frame installation in accordance with manufacturer’s written instructions.

.1 Visually inspect substrate in presence of Consultant.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.03 INSTALLATION

.1 Install aluminum doors and frames in accordance with manufacturer’s written instructions.

.2 Attach aluminum frames to structure or within aluminum fixed framing plumb and level, free from warp, and allow for sufficient adjustment to accommodate construction tolerances and other irregularities.

.1 Maintain dimensional tolerances and align with adjacent work.

.2 Anchor frames securely.

.3 Make allowances for deflection of structure to ensure that structural loads are not transmitted to frames.

.4 Co-ordinate attachment and seal of perimeter vapour retarder in accordance with Section [07 26 00 –  Vapour Retarders].

.5 Co-ordinate attachment and seal of perimeter air barrier in accordance with Section [07 27 00 –  Air Barriers].

.6 Install [fibrous insulation] [liquid foam insulation] in shim spaces at perimeter of frame assembly to maintain continuity of thermal barrier.

.7 Install perimeter sealant [to method required to achieve performance criteria, backing materials, and installation criteria in accordance with Section [07 92 00 - Joint Sealing].

3.04 FIELD QUALITY CONTROL

.1 Field Inspection: Coordinate field inspection in accordance with Section [01 45 00 ‑ Quality Control].

.2 Site Installation Tolerances:

.1 Variation from plumb: [12 mm per 30 m (0.5 inches per 100 feet)] maximum.

.2 Misalignment of two adjacent panels or members: [0.8 mm (0.03 inches)] maximum.

.3 Sealant space between door frame and adjacent construction: [13 mm (0.5 inches)] maximum.

ALUMICOR GUIDE NOTE: Specify requirements if manufacturers are to provide field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction.Manufacturer field reports are included under PART 1, Action and Informational Submittals.

.3 Manufacturer’s Services:

ALUMICOR GUIDE NOTE: Use the following Paragraphs only when manufacturer’s technical support and assistance services are required to help assess the suitability of product application and the quality of the fabricated and/or installed components. Establish the nature, number and duration of the technical services to be provided by the manufacturer and specify below. Consult the manufacturer for services required. Delete if field services are not required.

.1 Coordinate manufacturer’s services with Section [01 45 00 - Quality Control].

.2 Submit to Consultant a written agreement from the manufacturer to perform the manufacturer’s services.

.3 Schedule manufacturer’s review of work procedures at stages listed:

1. Product Application: [1] off site review[s].
2. Fabrication and Handling: [1] review[s] at authorized installers fabrication facilities.
3. Installation: [3] site reviews at [commencement of Work] [50% completion of Work] [Upon completion of Work].

.4 Submit manufacturer’s written reports to Consultant describing:

.1 The scope of work requested.

.2 Date, time and location.

.3 Procedures performed.

.4 Observed or detected non-compliances or inconsistencies with manufacturers’ recommended instructions.

.5 Limitations or disclaimers regarding the procedures performed.

.6 Obtain reports within seven days of review and submit immediately to Consultant.

3.05 Adjustment

.1 Adjust and lubricate moving parts to operate smoothly and fit accurately.

3.06 CLEANING

ALUMICOR GUIDE NOTE: For smaller projects that do not have a separate Division 01 Section for cleaning, delete the reference to Section 01 74 00 – Cleaning in the following two Paragraphs.

.1 Progress Cleaning: Perform cleanup as work progresses [in accordance with Section 01 74 00 ‑ Cleaning and Waste Management].

.1 Leave work area clean end of each day.

.2 Final leaning: Upon completion, remove surplus materials, rubbish, tools, and equipment [in accordance with Section 01 74 00 – Cleaning and Waste Management].

.3 Waste Management:

.1 Co-ordinate recycling of waste materials with 01 74 19 ‑ Construction Waste Management and Disposal.

.2 Collect recyclable waste and dispose of or recycle field generated construction waste created during construction or final cleaning related to work of this Section.

.3 Divert unused caulking and sealant material from landfill to official hazardous material collections site approved by Consultant.

.4 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.07 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by aluminum terrace door and frame installation.

END OF SECTION 08 11 17 - aluminum terrace doors and frames (Terraporte ACCESSABLE)