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 aluminum security sull sash with Venetian blinds.

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 501.8-15, Standard Test Method for Determination of Resistance to Human Impact of Window systems Intended for Use in Psychiatric Applications.

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

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

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

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

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

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

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

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

.7 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 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-12.1-[17], Safety Glazing

.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 Americans with Disabilities Act (ADA)

.9 New York State Office of Mental Health

 .1 Patient Safety Standards, Materials and Systems Guidelines, Division 8.

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 security window 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 security sull sash windows, frames extruded members, glazing, components and accessories, indicating compliance with specified requirements and material characteristics.

.1 Submit list on aluminum window 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 Security sull sash window 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 660 x 915 mm (26 x 36 inches) operable window sample with Venetian blinds including concealed hardware and operating security key.

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

.3 Ensure frame sample shows glazing stop and jointing detail.

 .4 Submit separate sample(s) showing finish(es) of exposed aluminum.

.6 Test Reports:

.1 Submit test reports showing compliance with specified performance characteristics and physical properties to the specified impact resistant loads.

.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 security windows 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 recycled content rates where available.

.2 Provide Environmental Product Declarations and Life Cycle Assessments

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

.1 List materials used in aluminum security window work.

.2 Warranty: Submit warranty documents specified.

1.07 QUALITY ASSURANCE

.1 Qualifications

.1 Perform work of this Section only by a Subcontractor of recognized standing who has adequate plant, equipment, and skilled workers to perform it expeditiously, and is known to have been responsible for satisfactory applications similar to that specified during a period of at least the immediate past five years.

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 windows, blinds, 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 from the date of last supply of product.

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 Aluminum framed, concealed hinge, inswing, ligature proof sull sash of tubular aluminum sections with single lite safety glazing, concealed custodial key operated multi-point lock for maintenance purposes only, and security staff key operable Venetian blinds for light control.

2.03 DESIGN CRITERIA

.1 Design and test sash and frame to [AAMA 501.8-14].

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

ALUMICOR GUIDE NOTE: A 113.4 kg. person will exert a force of 2,712 joules when impacting a surface at 24.9 kph, or 1,356 joules when impacting at 17.6 kph. The specifier must consider the nature of the patients and the size of the rooms when determining the required impact loads to be specified.

ALUMICOR GUIDE NOTE: This product is intended for use as an interior window only, inboard of curtain wall or other window systems.

ALUMICOR GUIDE NOTE: The substrate conditions must be capable of withstanding the impact loads being transferred to them through the window anchoring system.

.3 Design and test window, glazing, and anchor components to withstand human impact loads at a design load of [1,356 joules (1,000 ft.-lbf)] [2,712 joules (2,000 ft.-lbf)]

.4 Design sash 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.

2.04 SASH and frame MATERIALS

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

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

ALUMICOR GUIDE NOTE: The following anchor screws are for use in a substrate of 4.7mm thick steel. If the substrate differs, it is essential that an engineering assessment be conducted on the substrate and the type and quantity of anchor screws to determine their combined suitability to withstand the specified impact loads.

.3 Fasteners, screws and bolts: [For windows designed to withstand 1,356 joules of impact force installation, use #14 zinc coated steel fasteners] [For windows designed to withstand 2,712 joules of impact force, installation use ¼-20 Grade 5 bolts] The spacing of and number of fasteners as documented on the manufacturers test report to AAMA 501.8-14 or as determined by the project engineer.

Alumicor Guide Note: The glazing materials differ depending on the level of impact force specified. Retain the paragraphs that apply to the project and delete the others. Note that if patients may have access to sharp or heavy items that could be used as tools or weapons to impact the glass, laminated glazing is recommended.

Heat strengthened laminated breaks in larger pieces than tempered laminated and is more likely to remain intact following impact. Polycarbonate sheet can be scratched or gouged if subjected to sharp or hard objects.

.4 Safety Glazing: To CAN/CGSB-12.1

ALUMICOR GUIDE NOTE: When specifying an impact load of 1,356 joules choose one or more of the following optional glazing infills.

[.1 9.5mm tempered glass]

[.1 9.5mm polycarbonate sheet]

[.1 15mm laminated glass: 6mm heat strengthened glass / 2.3mm pvb interlayer / 6mm heat strengthened glass.]

 [.1 15mm laminated glass: 6mm tempered glass / 2.3mm pvb interlayer / 6mm tempered glass]

Alumicor Guide Note: When specifying an impact load of 2,712 joules choose one or more of the following optional glazing infills.

[.1 12.7mm tempered glass.]

[.1 12.7mm polycarbonate sheet.]

[.1 15mm laminated glass: 6mm heat strengthened glass / 2.3mm SGP interlayer / 6mm heat strengthened glass.]

[.1 15mm laminated glass: 6mm tempered glass / 2.3mm SGP interlayer / 6mm tempered glass.]

ALUMICOR GUIDE NOTE: It is possible that the interior lite of laminated glass will shatter from the imposition of an impact load that could result in small shards of glass, or glass spall, being present in a patient’s room. Some more severely ill patients may eat the spall causing internal bleeding and potentially dire consequences. If there is a risk that the intended occupant might harm themselves in this manner, it is recommended that an interior polyester film be applied to the glass to contain glass spalling.

[.2 Prior to glazing the sash, apply a Madico Safety Shield 800 polyester glass spall control film or approved alternative to the innermost surface of the laminated glass.]

ALUMICOR GUIDE NOTE: If concealed custodial operated Venetian blinds are not required, delete the following paragraphs.

.5 Venetian Blinds: Equip sull sash with Venetian blinds that are operable with the use of a custodial key only. Exposed operator knobs or strings are not permitted.

.1 Blind colour: [True white] [Antique White] [Off White] [Alabaster] [Fawn] [Pebble Tan] [Gray] [Silver] [Bronze] [Umber]

.6 Acceptable Material: Alumicor Limited, 2800 Series SecurSash.

2.05 FABRICATION

.1 Fabricate sash and frames of extruded sections and steel key reinforced mitre corners to sizes and profiles indicated. Include:

.1 Safety glass as indicated:

.1 Place glazing on two runs of pre-shimmed butyl tape

.2 Secure glazing using adjustable screw fastened aluminum stops, EPDM glazing gasket, and butyl tape.

.2 Custodial key operated multi-point lockset with adjustable strike plates;

.3 Multi point locking with snubber retaining clips on the hinge side;

.5 No exposed handles or hardware for anti-ligature design;

.6 Concealed adjustable top and bottom hinges capable of supporting weights up to 150 kgs;

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

.1 Accurately fit and secure joints and corners.

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

.1 Stiles: Extruded aluminum porthole members.

.2 Rails: Extruded aluminum porthole members.

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

.1 Ensure mitered aluminum corner joints are flush, hairline, waterproof and supported by laser cut steel corner keys and #8 zinc plated steel screws.

.2 Fasten corners together with zinc coated #8 steel thread cutting screws.

.3 Seal corner joints during assembly with elastomeric sealer.

2.06 FINISHES

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] [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.

.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 Concealed Locking Bar Driver Assembly: Multi-point locking system with gearbox driver body fastened to sash stile.

.1 Acceptable material: Truth NP Supra-device wing lock driver or equal.

.2 Snubber: Hinge side two piece engaging zinc die cast.

 .1 Acceptable material: Giesse or equal.

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.

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

.3 Weatherstrip: EPDM bulb type.

.4 Gasketing: EPDM gaskets.

.5 Setting Blocks: To ASTM D2240, neoprene, 80 - 90 Shore A Durometer hardness.

.6 Spacers: To ASTM D2240, neoprene, 50 - 60 Shore A Durometer hardness.

.7 Sash support block: black pvc.

.8 Hinges: three way adjustable steel hinges sized to support sash weights up to 150 kg.

 .1 Acceptable material: Giesse #4354xx with back-up supports where necessary

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

2.09 PRODUCT SUBSTITUTIONS

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

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

ALUMICOR GUIDE NOTE: The substrate conditions must be capable of withstanding the impact loads being transferred to them through the window anchoring system.

ALUMICOR GUIDE NOTE: If the substrate is other than 4.7mm thick steel we recommend that the project engineer assess the existing substrate to determine its suitability as well as the size and type of anchor fasteners required to withstand the specified impact load.

.1 Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for aluminum sull sash 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 sull sash windows 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 in accordance with test reports or engineered calculations.

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

.4 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 window 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 Pay for any costs associated with manufacturers services

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

.4 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: [2] site reviews at [commencement of Work] [50% completion of Work]

.5 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 Initial Cleaning: prior to installing the sull sash inboard of an existing window or curtainwall, thoroughly clean the existing glass and framing.

.2 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.

.3 Final Cleaning: 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 sull sash installation.

END OF SECTION 08 56 53 – Aluminum security windows (2800 series secursash)