

DOORS

Part 1 - GENERAL

Scope - The doors shall be manufactured by METRO ALUMINUM Products Ltd. Supply and install aluminum doors, as described on the architectural drawings and as specified herein.

Work Not Included - See: Specifier's lists of excluded items; Items furnished but not installed and/or Items installed but not furnished. Related Work Specified Elsewhere - See: Specifier's lists and related Sections.

Design & Performance Requirements - Doors to fully comply with applicable standard specifications as typically referenced to the following performance requirements criteria: Air Tightness, Water Tightness, Wind and Other Load resistance, Temperature Index and Energy Performance. (Specifier's selection)

Submittals - Shop Drawings & Samples - Submit all documentation and samples for review by Consultant at one time, prior to fabrication of door products.

Quality Assurance - Provide all necessary information to show that all involved products meet or exceed the requirements of these specifications.

Delivery, Storage and Handling - Deliver, store, handle, protect and schedule materials and products so as to avoid any damage. Follow recommendations of AAMA CW-10 "Care and Handling of Architectural Aluminum from Shop to Site" and others as applicable.

Part 2 - PRODUCTS Materials - All materials to meet the minimum design and materials Products Ltd. for factory installation, and to include: (Specifier's specifications as applicable. Any defects impairing strength, durability or appearance are not acceptable. Extruded aluminum shall be AA 6063 T6 alloy and temper - Fy = 110 MPa (16 KSI) minimum. Sufficient strength and size fasteners shall be made of corrosionresistant and compatible material such as cadmium or zinc plated carbon steel, stainless steel or aluminum, to prevent any galvanic action (electrolytic corrosion). Standard weathering at perimeter frame shall be pile cloth with a vinyl fin - minimum, or an extruded thermoplastic elastomer tubular profile with a semirigid setting key (Specifier's selection). Optional weathering at the bottom rail shall be a sweep blade type strip secured with concealed fasteners. Dry glazing method to utilize extruded dense Neoprene, EPDM, or other equal material; spline (and/or wedge) gaskets set into extruded aluminum stops. Gasket profile shall be designed and sized to fit tight and properly seal glass-metal interfacing. Glass setting to be compatible with glass unit seals and/or other parts involved as required System Description - Door System shall be type out-swing/in-_. METRO Series for single glass (for sealed insulating glass units), uninsulated (insulated) - Specifier selection - as manufactured by METRO ALUMINUM Products Ltd. Reference minimum thickness of extruded metal shall be: Frame 3 mm (0.12") and Glazing Stop 1.3 mm (0.05") minimum. Frame nominal dimensions of extruded metal shall be: Depth of frame Width of stile Height of top rail Height of middle rail Height of bottom rail Glass retention, as for dry glazing method, shall be achieved by extruded aluminum glazing stop profile and inorganic rubber gasket. Whenever substitute/alternative products are considered, supporting data to be submitted ten (10) days prior to bid date to allow for valid

comparison. Approval of alternates to be confirmed in advance of bid

Fabrication - Tubular profiles of rails and stiles shall be accurately fabricated and assembled to provide tight fit hairline joints only. Corner joinery shall utilize assembly spigot-bracket. Parts involved shall be fastened by means of anticorrosive steel screws and bolts with additional securing welds to allow for permanent true and square set of frame elements. Extruded aluminum square glazing stops, equipped with hollow gaskets, shall secure glass on both sides. Specified hardware shall be connected accurately to aluminum framing as per manufacturer's specifications. No exposed fasteners are permitted. Each door leaf to be equipped with adjusting mechanism, set at the top rail, to allow for necessary installation adjustments. Both stiles of centre hung single door, hinge and meeting stile (1) sides of centre hung pair doors shall be furnished with hard-backed poly pile weatherstripping, as required. Perimeter frame of offset pivoted (or butt hung) doors to have weather-strip stops at jamb and head. Active meeting stiles of pairs to be furnished with matching weather-strip device set and secured in appropriate reveal-groove. Bottom rail to receive weather-strip sweep as required.

Finish - All exposed surfaces shall be finished as specified. The finish, as per AAM designation, shall be (Specifier's selection):

Standard clear anodizing to AA - M12C22A31

Standard perma bronze to AA - M12C22A44 Standard black anodizing to AA - M10C21A44

Duracron acrylic enamel to AA - M12C4XR1X

Custom paint qualities and colors - Specifier's selection.

Hardware to have manufacturer's standard finish.

Hardware - Hardware shall be supplied by METRO ALUMINUM selection):

Top and bottom offset pivots.

Intermediate offset pivots where required, or

1 pair or 1.5 pairs of 100 mm x115 mm (4" x 4.5") butt hinges, or Centre hung pivots compatible with centre hung closers.

Push-pull - Metro standard.

Door closers - streamline or concealed.

Standard 150 mm (6") threshold with reinforced pivot anchor point. Panic device. Various types available - Specifier's selection. Alternative hardware clause: Hardware as specified under separate section of the Specifications. The manufacturer shall furnish all necessary templates for assembly and installation.

Part 3 - EXECUTION

Installation - Doors to be installed in prepared openings, at correct locations as shown on drawings, set level, plumb, square and aligned with other work in accordance with manufacturer's instructions, approved shop and erection drawings. Operating hardware, checked and adjusted as required, shall be left in ready for use condition. Perimeter joints to be sealed/caulked as specified and detailed to ensure weathertight assembly.

Protection and Cleaning - Work to be protected from damage during and after installation. Consult with manufacturer and installer to determine appropriate protective measures. The General Contractor shall be responsible for protection during construction and for final cleaning. After installation, aluminum work and glass to be cleaned according to instructions/manuals provided by product manufacturers and glaziers. Use appropriates cleaning materials and methods. Do not scratch or damage glass or finishes.

Note: The above Specifications should relate to The Product Specifications by METRO ALUMINUM Products Ltd. as applicable to the specific door types such as: 250, 350 and 500

closing by addendum only.

DOOR HARDWARE



H-100A M.S DEAD LOCK



H-102A HOOK LOCK



H-104A LATCH LOCK



H-104AR A.R LATCH LOCK



H-114/H-115
KEYED CYLINDER & THUMB TURN



H-118
FRAME PORTION PIVOT



H-119
TOP DOOR PORTION PIVOT



H-120
BOTTOM DOOR PORTION PIVOT



H-121
THRESHOLD PIN



H-121F
FLOOR MOUNTED PIVOT



H-250-1
METRO STANDARD PULL HANDLE



H-250-2
METRO STANDARD PUSH BAR



H-250-5 12" OFFSET D-PULL



H-250-5/H-250-5P OFFSET D-PULL & TUBULAR PUSH BAR



H-250-6 12" B/B D-PULLS



H-250-5GLP S.S 72" X 1 1/4" OFFSET LADDER PULL



H-250-6GLP S.S 72" X 1 1/4" B/B OFFSET LADDER PULL



H-122 4" X 4 1/2" BUTT HINGE S.S



H-122 BP 4" X 4 1/2" BUTT HINGE BLACK



H-122 PKG **BUTT HINGE WITH BACK UP PLATES**



H-122E 4 WIRE BUTT HINGE S.S



H-123A 4 1/2" X 4 1/2" BUTT HINGE S.S



H-124D **BUTT HINGE DOOR BACK UP PLATE**



H-124F **BUTT HINGE FRAME BACK UP PLATE**





H-130 METRO STANDARD CLOSER



H-130X STANDARD CLOSER ARM EXTENSION



H-130A DR STANDARD CLOSER DROP PLATE



H-130 DA **DELAYED ACTION CLOSER**



H-128 **GLOBAL TC204 CLASS 1 CLOSER**



H-1300P PARALLEL ARM BRACKET



H-4040 **GLOBAL 4040 CLOSER**



H-4040-18G **GLOBAL 4040 CLOSER DROP PLATE**



H-4040-18PA **GLOBAL PARALLEL ARM DROP PLATE**



H-4040LA **4040 CLOSER ARM EXTENSION**



H-4040XLA **4040 CLOSER XL ARM EXTENSION**



H-4040 HOA **4040 CLOSER HOLD OPEN ARM**



DOOR HARDWARE



H-158/H-159/H-160 CONTINUOUS HINGE



H-103AR A.R DUAL FORCE 2190



H-100EI EXIT INDICATOR



H-104RL ROLLER LATCH



1550 S/G LETTER SLOT



1555
INSULATED LETTER SLOT



H-112 LEVER HANDLE



H-113 LATCH PADDLE



H-108P/H-108S ELECTRIC STRIKES



H-110 RECTIFIER



H-111
ELECTRICAL CONNECTORS



H-104S G.J HEAVY DUTY DOOR CLOSER





H-107 LATCH LOCK STRIKE



H-107A LATCH DOUBLE STRIKE



H-106 **CYLINDER GUARD**



H-114A **GMS R-118 RIM CYLINDER**



H-114B A.R LATCH LOCK



H-114E 2 1/4" SPINDLE EXTENSION KIT



H-116 **BLACK CYLINDER**



H-117 **FLUSH BOLTS**



H-126 **WALKING BEAM**



H-126/H-127 **WALKING BEAM PIVOT SET**



H-EPT2 A.R POWER TRANSFER



H-137A **ASTRAGAL**



H-135 **A.R 8400 PANIC**



H-135S 8400 PANIC STRIKE



H-135X 8400 PANIC EXTENSION FOR 2" DOORS



H-136 **A.R 8600 PANIC**



H-136B 8600 PANIC STRIKE



H-136X 8600 PANIC EXTENSION FOR 2" DOORS



H-136 **PS-LR POWER SUPPLY**



H-136A **CYLINDER MOUNTING PAD**



H-148 S.S G.J SURFACE MOUNTED DOOR STOP



H-131 **CONCEALED CLOSER**



H-132 **CENTER HUNG SIDE LOAD ARM**



H-105 **COVER PLATES**





HOPPE HANDLE SET - EXTERIOR



HOPPE HANDLE SET - INTERIOR



H-096AS HOPPE LOCK STRIKE



H-096HA **GLOBAL ACTIVE HANDLE SET**



GLACIER 2000 RESIDENTIAL

RESIDENTIAL
THERMALLY BROKEN DOORS

A 21

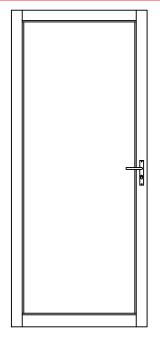
DOOR COMPONENTS

G - 551

G - 40

S - 751

SINGLE ACTING



G-90T

G-80

S-751

S-751

G-85

G-90T

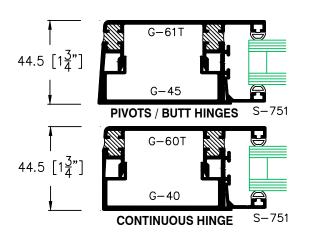
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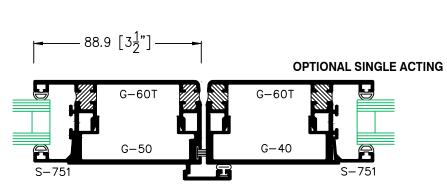
G-85

OPTIONAL MIDRAIL

The Glacier 2000 Series Residential Door is designed for both new and replacement applications, offering superior energy savings and durability. Compatible with Metro's systems, this door combines aesthetic appeal, energy efficiency, and robust performance, making it the perfect choice for enhancing the comfort and design of any home or office setting. Key features include:

- Energy Savings: Durable double thermal break construction ensures excellent insulation and energy efficiency.
- Sealed Glazing Units: Provides enhanced weather resistance and improved insulation.
- Color Options: Available in standard anodized or custom painted colors, with split color options to match your unique style.
- Size Options: Available in standard or custom sizes to fit any application.
- Mid-rail Option: Adds design flexibility and functionality.
- Exterior Key Cylinder: Offers secure access from the outside.
- Lever Handle: Easy and comfortable operation.
- Interior Thumb Turn: Convenient interior locking mechanism.
- Single and Pair Door Options: Suitable for various residential or office needs and preferences.





G-60T

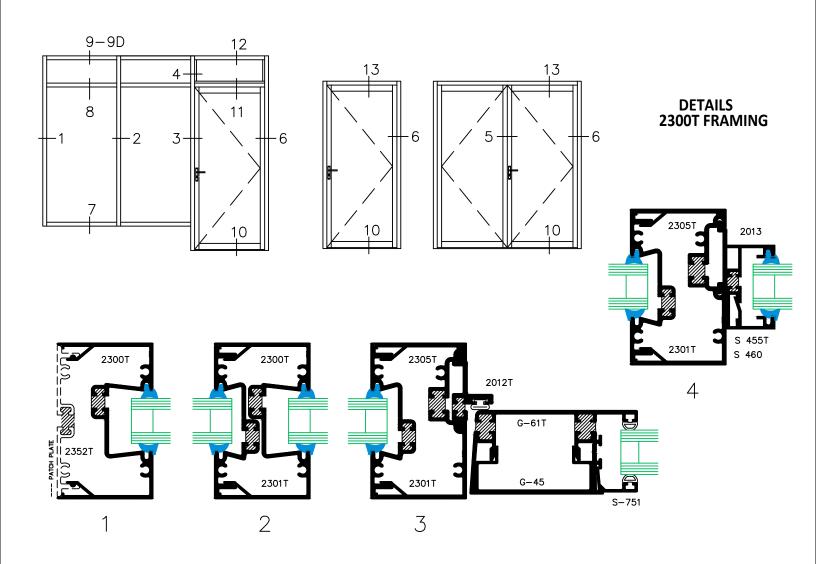
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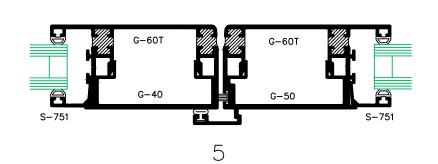
S - 751

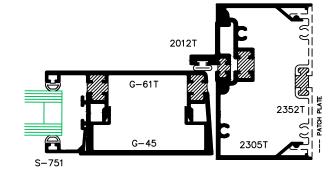


GLACIER 2000

RESIDENTIAL THERMALLY BROKEN DOORS





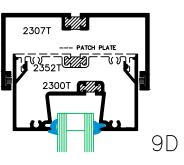




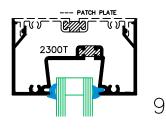
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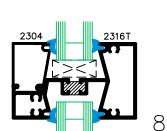
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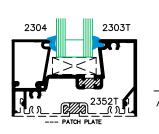
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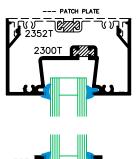


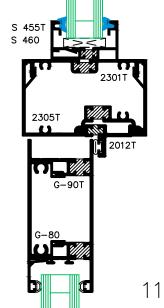




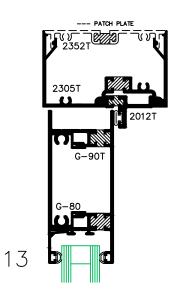


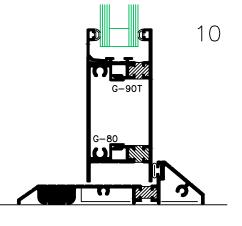


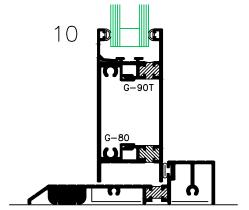








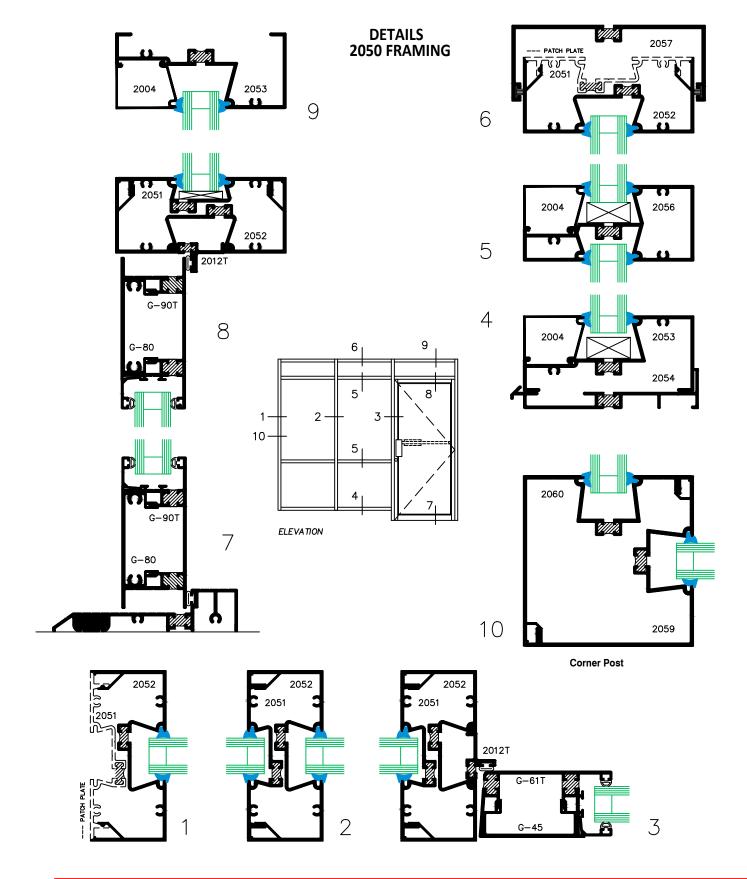






GLACIER 2000

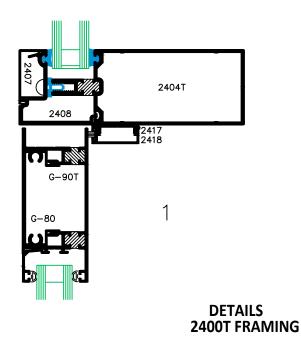
RESIDENTIAL
THERMALLY BROKEN DOORS

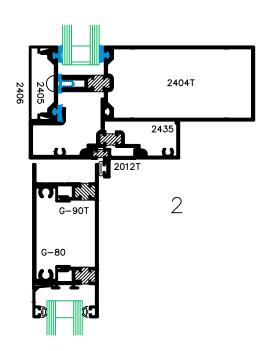


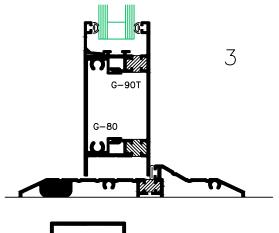


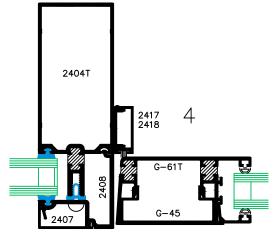
GLACIER 2000 A

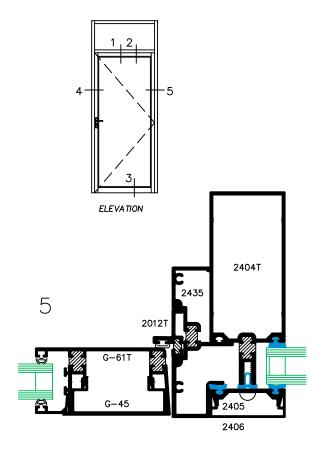
THERMALLY BROKEN DOORS













DOOR ORDERING

INFORMATION

A 31

STANDARD DOOR SIZES

SINGLE DOOR OPENING	36" x 84"	914 mm x 2134 mm
PAIR OF DOORS OPENING	72" x 84"	1829 mm x 2134 mm

GLASS SIZES FOR SINGLE AND PAIRS OF 250 SERIES DOOR

5 mm SINGLE GLASS	31 7/16" x 77 1/2"	798 mm x 1969 mm
23.8mm GLASS UNIT	31 7/16" x 77 1/2"	798 mm x 1969 mm

GLASS SIZES FOR SINGLE AND PAIRS OF 350 SERIES DOOR

5 mm SINGLE GLASS 28 7/16" x 73 5/8" 722 mm x 1870 mm 23.8mm GLASS UNIT 28 7/16" x 73 5/8" 722 mm x 1870 mm

GLASS SIZES FOR SINGLE AND PAIRS OF 500 SERIES DOOR

5 mm SINGLE GLASS 25 7/16" x 70 13/16" 646 mm x 1798 mm 23.8mm GLASS UNIT 25 7/16" x 70 13/16" 646 mm x 1798 mm

PAIR OF DOORS VIEWED FROM OUTSIDE

INACTIVE LEFT LEAF

i.e. FLUSH BOLTS

i.e. LOCK and CYLINDER

AVAILABLE GLASS STOPS

5 mm GLASS

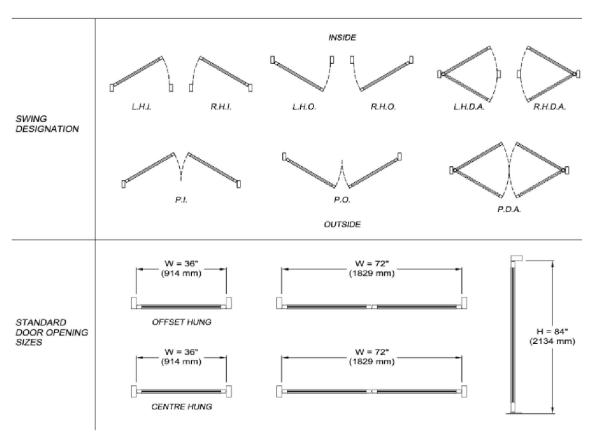
SINGLE GLAZED DOOR

23.8mm GLASS UNIT

DOUBLE GLAZED DOOR

SQUARE STOP 1/2" FACE WIDTH

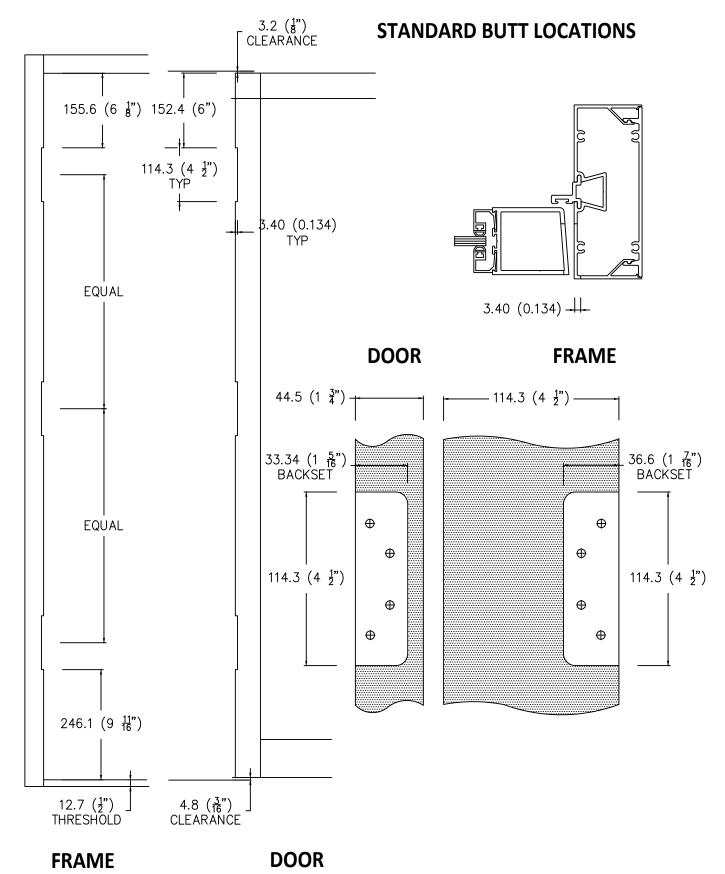
SQUARE STOP 3/4" FACE WIDTH





BUTT HINGE PREP

(3.2MM-1/8" RECESSED)



OFFSET PIVOT PREP

(3.2MM-1/8" RECESSED)

A 33

INSTALLATION DETAILS

