

## Part 1 - GENERAL

### Scope

Metro's manufacture scope includes but is not limited to furnishing the materials, fabrication labor, assembly and installation of the company's line of aluminum doors and frames including all necessary hardware and accessories. Specific preparation will vary based on circumstances, contract or purchase agreement.

**Work Not Included:** Structural support for framing, wood liner, interior or exterior closures or trim. See Specifiers list / Order form for specific details

**Related Work Specified Elsewhere:** See Specifiers list / Order form(s)

### Design & Performance

Doors to fully comply with applicable standard specifications as typically referenced to the following requirement criteria: Air and water tightness, thermal resistance, wind and other load resistance.

### Maintenance and Warranty

Upon request, Metro will provide instructions for proper cleaning and maintenance. Metro Glass Metal Products come with a two year warranty which shall begin from the day the product is shipped or from substantial completion of the installation. The warranty covers materials and workmanship as specified by drawings and customer requirements per contract or purchase agreement.

## Part 2 - PRODUCTS

### Materials

All materials to meet design and material specifications as applicable. Extruded aluminum is 6063 T6 alloy and temper. Any defects impairing strength, durability or appearance are not acceptable. Fasteners shall be of sufficient size and strength and made of corrosion-resistant compatible materials. Glazing gaskets shall be Polishim II Tape a 100% solid, highly adhesive and elastic, cross-linked butyl preformed tape with a continuous integral EPDM shim and extruded black santoprene designed and sized to perform their intended function. Weathering shall be manufacturers standard pile cloth with a vinyl fin of size and density appropriate for their intended function. Bottom rail to have optional manufacturers blade type sill sweeps with pile .

### Fabrication

Doors are pre-assembled to ensure accurate fit tight hairline joints only. Extruded stiles and rails will be sizes and profiles specified by customer in the contract or the purchase agreement. Corner joints shall be secured with concealed brackets that are anchored with bolts and then fully welded.

### Finish - Anodized 6063 Material Code Identification

Exposed surfaces shall be finished as specified by customer:

Satin Clear 14                      AA-M12C22A41

Satin Medium Bronze 30      AA-M12C22A44

Satin Black 29                    AA-M12C22A44


Powdercoated and various other finishes (including shades of Bronze) available upon request.

### Hardware

Entrance hardware to be manufacturers standard unless otherwise specified by customer.

### Installation

Doors to be installed plumb, level and square and glazed by an experienced crew in prepared openings in accordance to the manufacturers instructions and approved shop drawings, and as specified by drawings and customer requirements per contract or purchase agreement.

 <p>GLAZING, CLADDING &amp; SPECIALTY STRUCTURAL ENGINEERING British Columbia • Alberta • Saskatchewan • Ontario NWT • Washington</p>	Project:				Project No:	
	Metro HP TB-350 Door U-value Report				1256-15758-01	
	Sections				Client:	
Metro HP TB-350 Door				Metro Glass		
Calc. by	Date	Chk'd by	Date	App'd by	Page:	
TW	Dec, 2020	IC	Jan, 2021	IC	7	

## RESULTS

The windows are modelled following NFRC methods and the results for one glazing system are summarized in Table 2:

**Table 2: Thermal Modelling Result**


Frame Type	Width (mm)	Height (mm)	U-Value (W/m <sup>2</sup> -K)	U-Value (Btu/h-ft <sup>2</sup> -°F)	SHGC	VT
HP 350 Single Door	960.00	2090.00	2.50	0.44	0.28	0.45
HP 350 Double Door	1920.00	2090.00	2.45	0.43	0.28	0.45

**Insulated Glass Unit:**

G1: SB60 Clear\_6.VTA / 12.7mm 90% Ar / CLEAR\_6.DAT

## CONCLUSION

The results of the NFRC U-value calculation for the fenestration systems described above show that for the Standard NFRC sizes, the Metro HP TB-350 Single Door obtained a U-value of 2.50 W/m<sup>2</sup>-K and the Double Door obtained 2.45 W/m<sup>2</sup>-K. The Solar Heat Gain Coefficient (SHGC) was calculated to be 0.28 and the Visible Transmittance was calculated to be 0.45.

 <b>LAYTON</b> CONSULTING LTD. <small>GLAZING, CLADDING &amp; SPECIALTY STRUCTURAL ENGINEERING</small> British Columbia • Alberta • Saskatchewan • Ontario NWT • Washington	Project: <b>Metro HP TB-500 Door U-value Report</b>				Project No: 1256-16332	
	Sections: Metro HP TB-500 Door				Client: Metro Glass	
	Calc. by: TW	Date: Sep 2021	Chk'd by: IC	Date: Sep 2021	App'd by: IC	Page: 7

## RESULTS

The windows are modelled following NFRC methods and the results for one glazing system are summarized in Table 2:

**Table 2: Thermal Modelling Result**

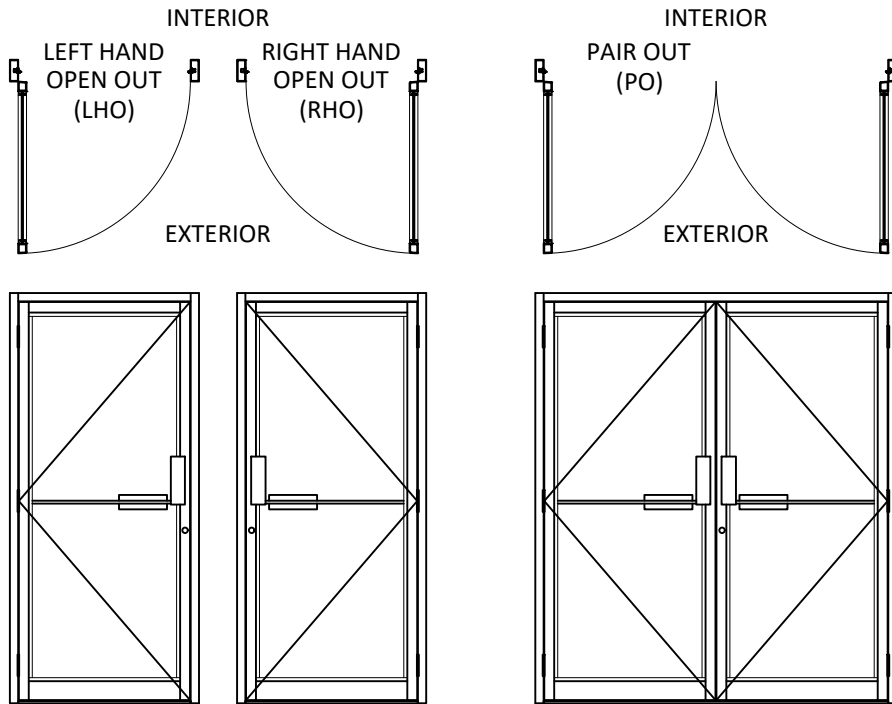
Frame Type	Width (mm)	Height (mm)	U-Value (W/m <sup>2</sup> -K)	U-Value (Btu/h-ft <sup>2</sup> -°F)	SHGC	VT
HP TB-500 Single Door	960.00	2090.00	2.59	0.46	0.26	0.41
HP TB-500 Double Door	1920.00	2090.00	2.53	0.45	0.26	0.41

**Insulated Glass Unit:**

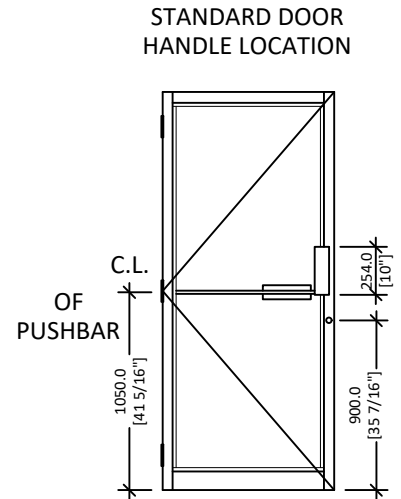
G1: SB60 Clear\_6.VTA / 12.7mm 90% Ar / CLEAR\_6.DAT

## CONCLUSION

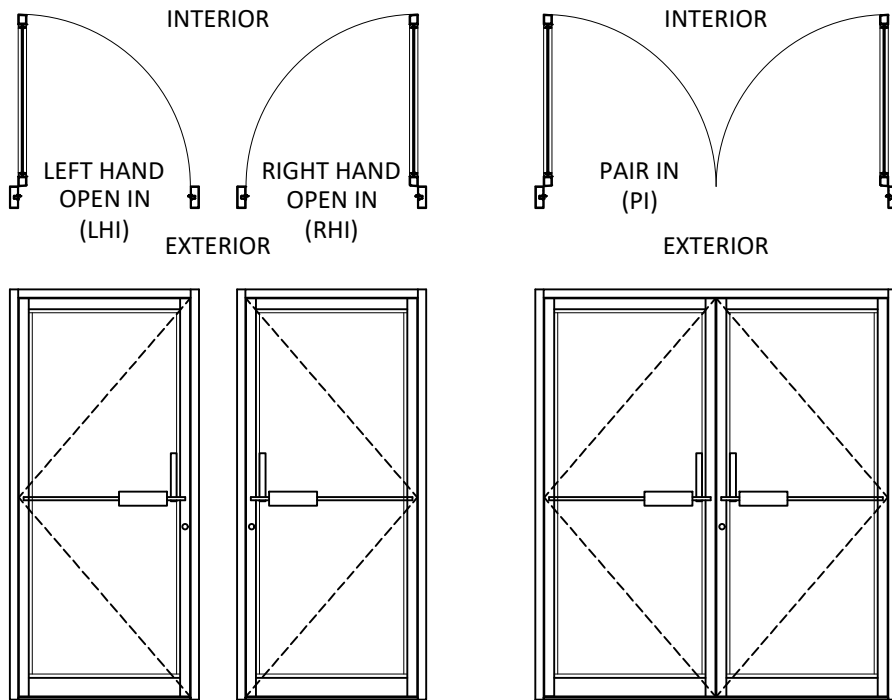
The results of the NFRC U-value calculation for the fenestration systems described above show that for the Standard NFRC sizes, the Metro HP TB-500 Single Door obtained a U-value of 2.59 W/m<sup>2</sup>-K and the Double Door obtained 2.53 W/m<sup>2</sup>-K. The Solar Heat Gain Coefficient (SHGC) was calculated to be 0.26 and the Visible Transmittance was calculated to be 0.41.



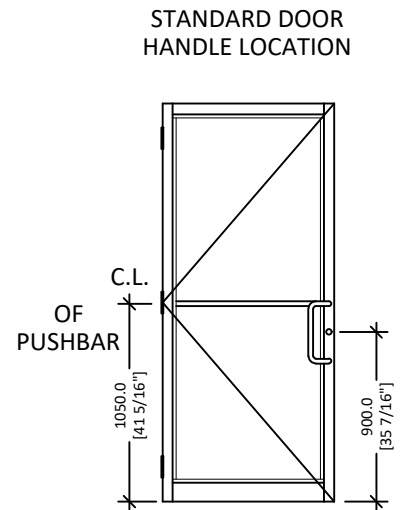
OUTSWING VIEWED FROM EXTERIOR



STANDARD PUSH- PULL



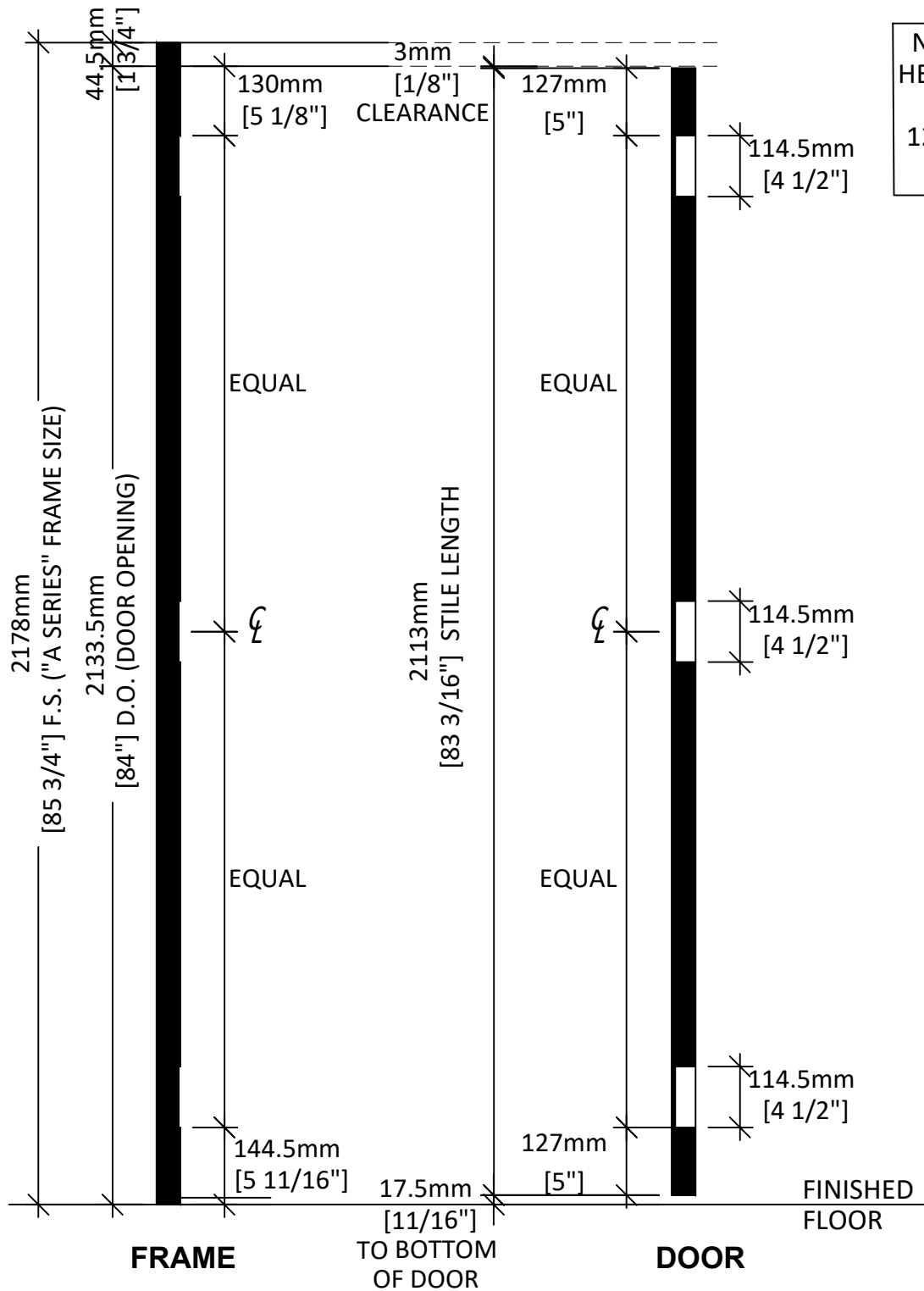
INSWING VIEWED FROM EXTERIOR  
DASHED LINE INDICATES INSWING



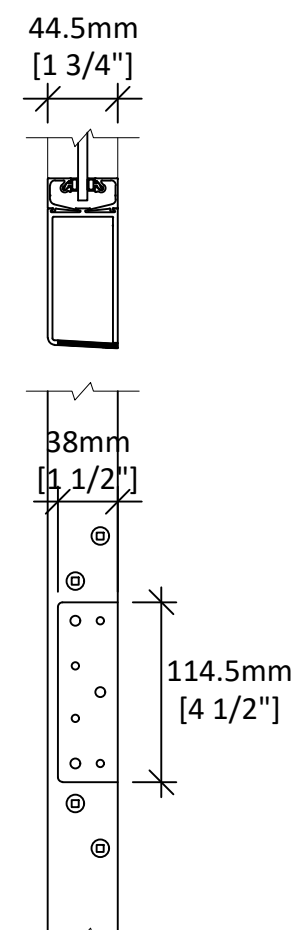
1"Ø TUBULAR  
PUSH- PULL  
(MAY VARY WITH  
PANIC HARDWARE)



# STANDARD BUTT HINGE CUTOUT



**NON-STANDARD DOOR HEIGHT BUTT LOCATIONS**  
 127mm FROM TOP  
 127mm FROM BOTTOM  
 ℄ OF DOOR STILE



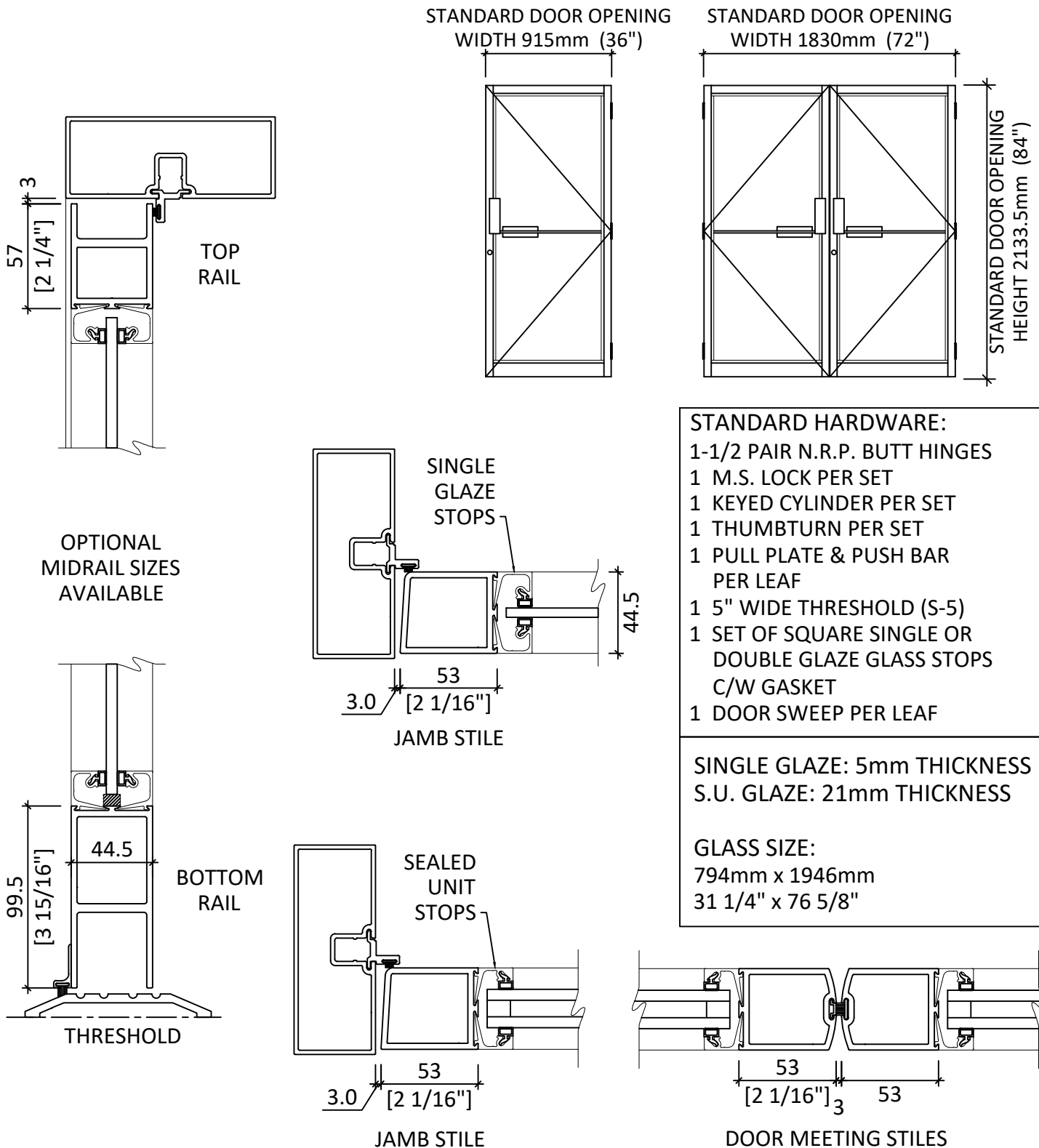
STANDARD BUTT CUTOUT FOR DOOR (FRAMES VARY)

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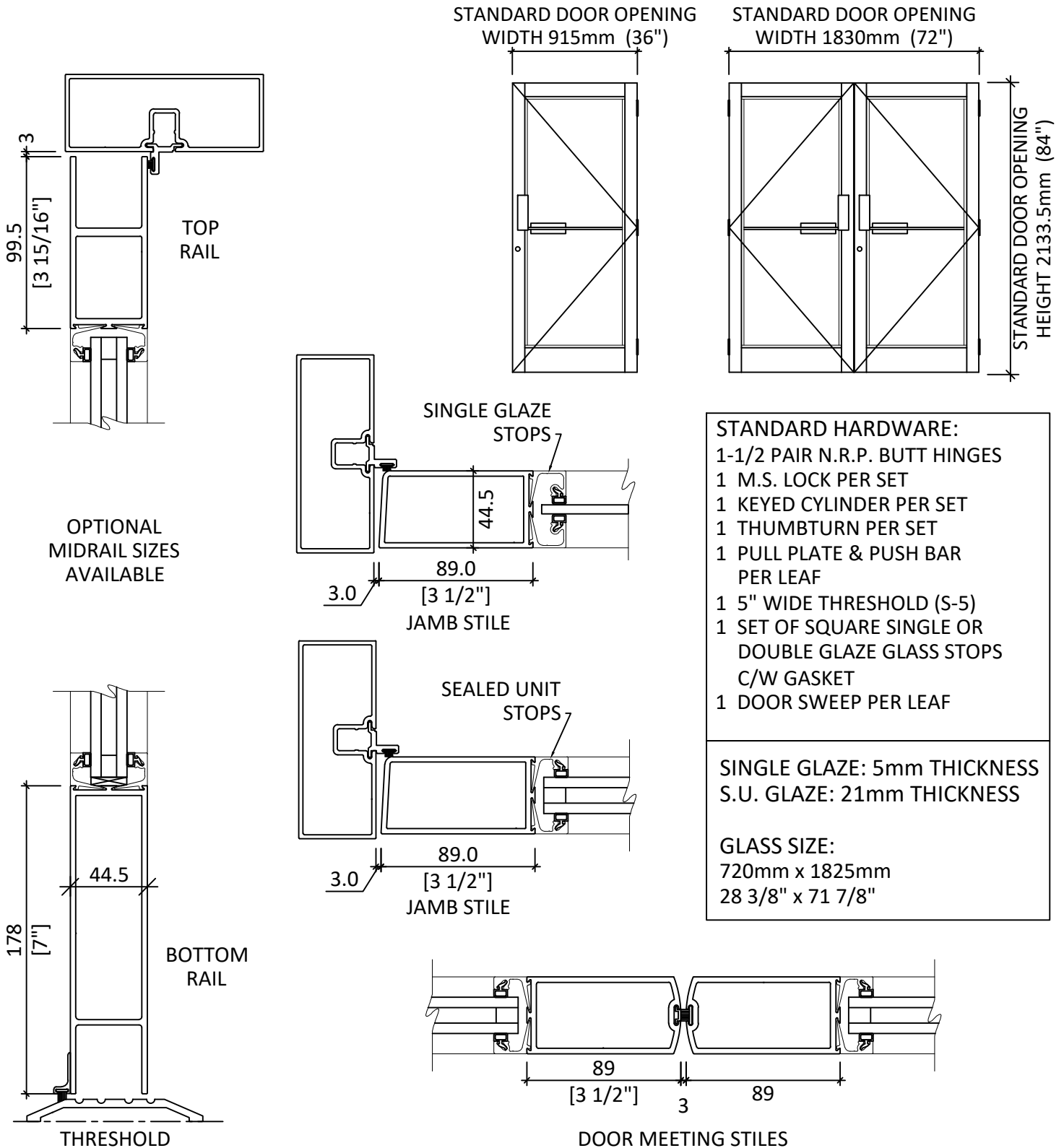


- STANDARD HARDWARE:**
- 1-1/2 PAIR N.R.P. BUTT HINGES
  - 1 M.S. LOCK PER SET
  - 1 KEYED CYLINDER PER SET
  - 1 THUMBTURN PER SET
  - 1 PULL PLATE & PUSH BAR PER LEAF
  - 1 5" WIDE THRESHOLD (S-5)
  - 1 SET OF SQUARE SINGLE OR DOUBLE GLAZE GLASS STOPS C/W GASKET
  - 1 DOOR SWEEP PER LEAF

**SINGLE GLAZE: 5mm THICKNESS**  
**S.U. GLAZE: 21mm THICKNESS**

**GLASS SIZE:**  
 794mm x 1946mm  
 31 1/4" x 76 5/8"

# 350 SERIES MEDIUM STILE ENTRANCE DOOR



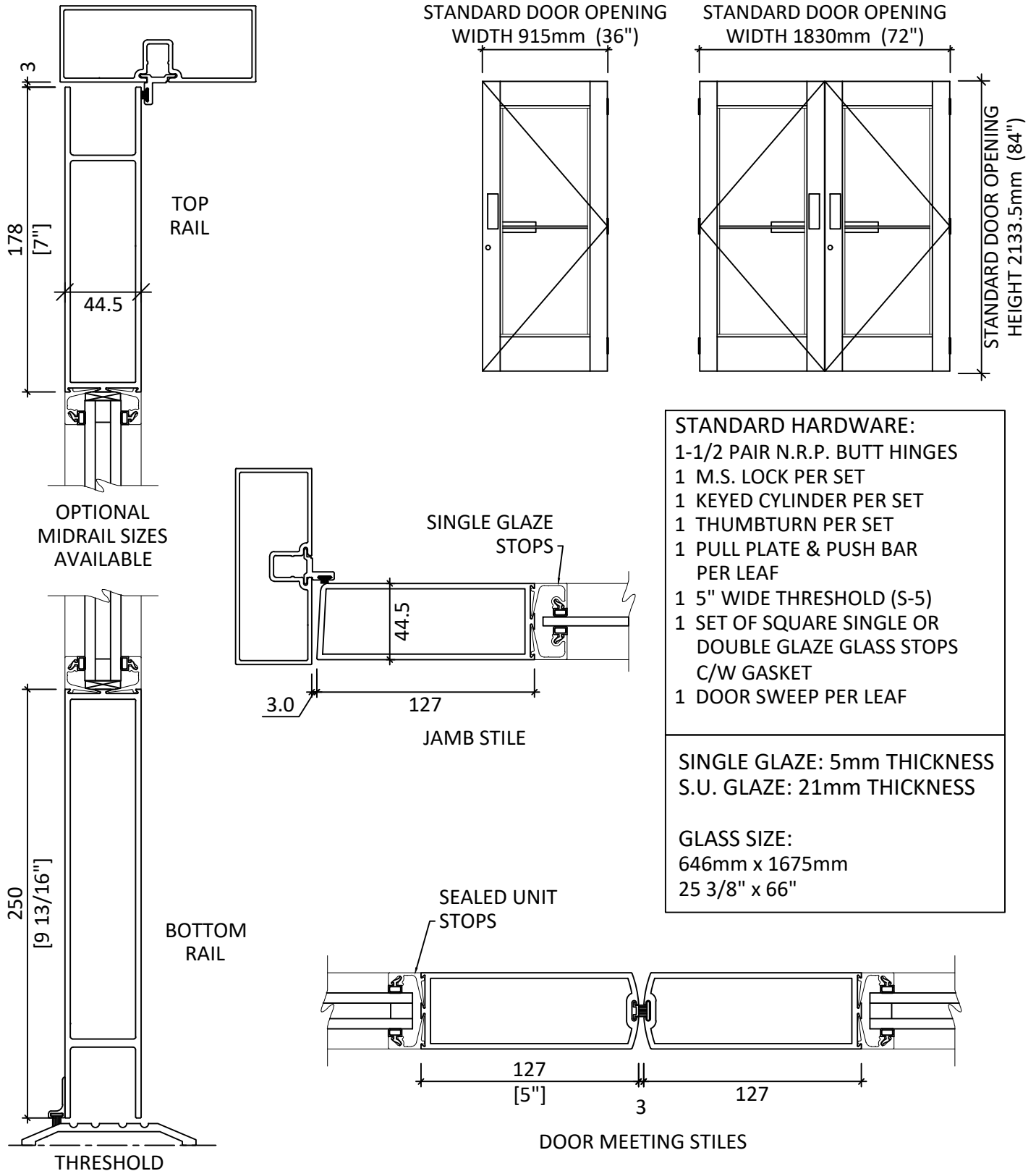
- STANDARD HARDWARE:**
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**SINGLE GLAZE: 5mm THICKNESS**  
**S.U. GLAZE: 21mm THICKNESS**

**GLASS SIZE:**  
720mm x 1825mm  
28 3/8" x 71 7/8"

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# 500 SERIES WIDE STILE ENTRANCE DOOR



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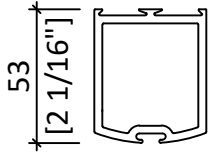
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Phone: 403-250-9290 Fax: 403-291-0599

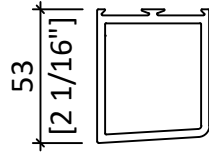
[www.metroglass.ca](http://www.metroglass.ca)



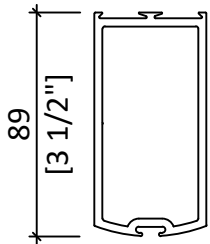
## STILES



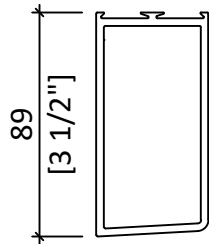
**D1**  
150 SERIES  
MEETING STILE  
C/W MOHAIR



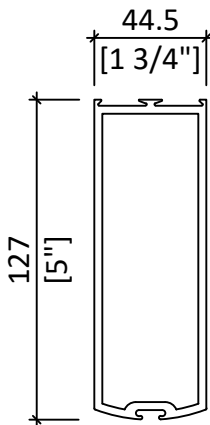
**D3**  
150 SERIES  
BEVEL STILE



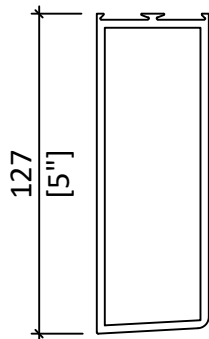
**D18**  
350 SERIES  
MEETING STILE  
C/W MOHAIR



**D20**  
350 SERIES  
BEVEL STILE

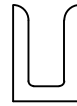


**D21**  
500 SERIES  
MEETING STILE  
C/W MOHAIR

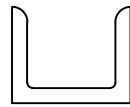


**D22**  
500 SERIES  
BEVEL STILE

## PARTS



**D10**  
SPIGOT



**D9**  
SPIGOT



**D16** SINGLE  
GLAZE STOP



**D17** DOUBLE  
GLAZE STOP



**SWEEP**  
MOHAIR



**RADIUS**  
STILE FILLER

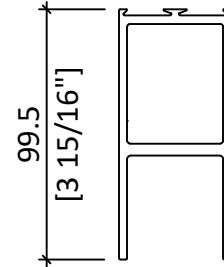


**209** DOOR  
STOP VINYL

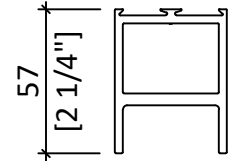


**D8** DOOR  
SWEEP

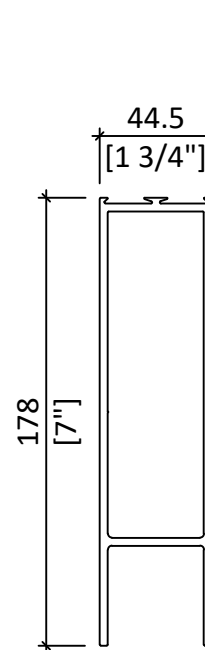
## RAILS



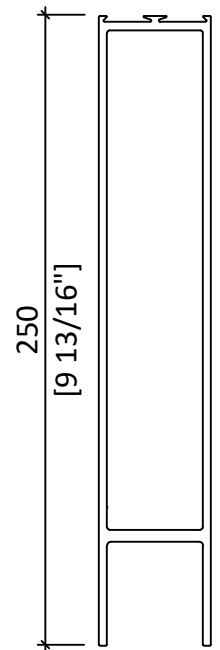
**D4**  
99.5mm  
DOOR RAIL



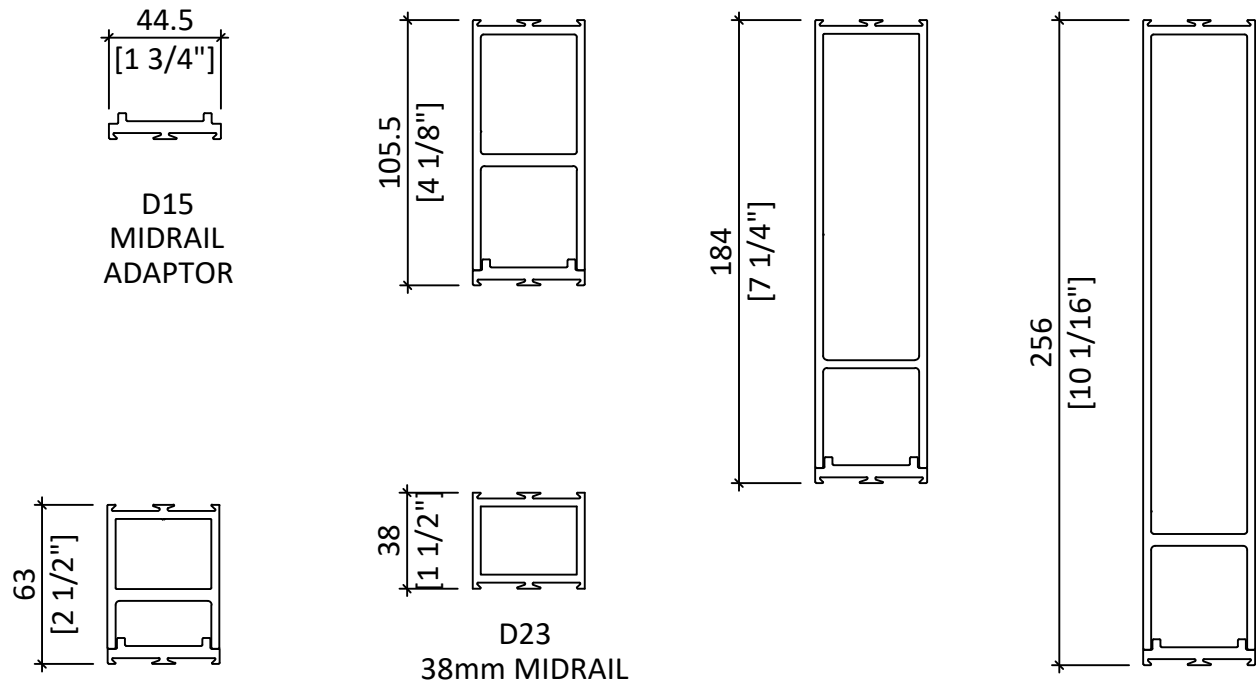
**D5**  
57mm  
DOOR RAIL



**D6**  
178mm  
DOOR RAIL

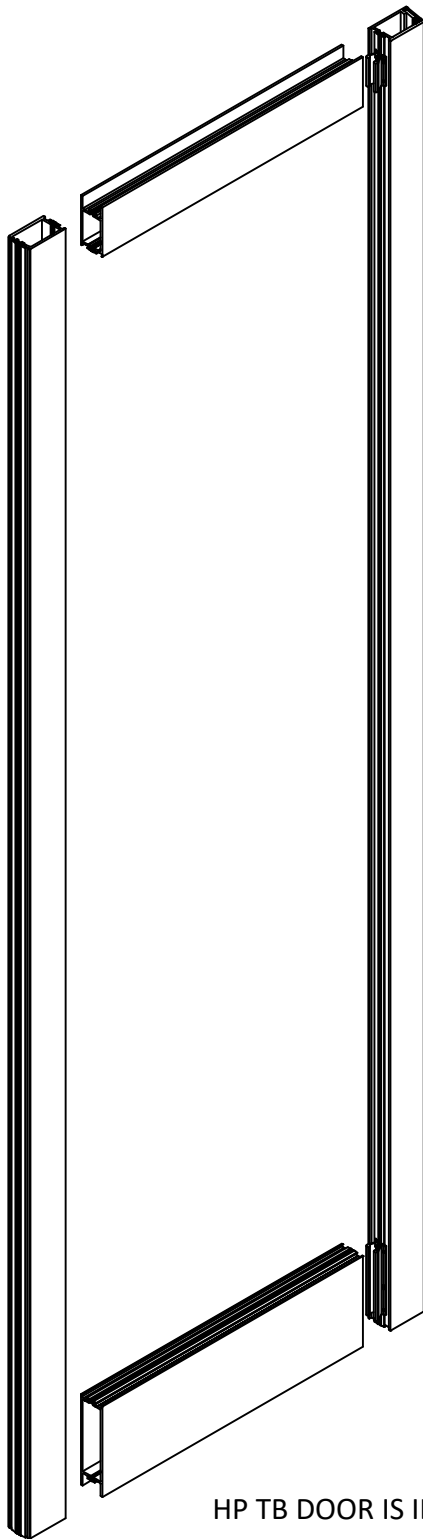


**D7**  
250mm  
DOOR RAIL



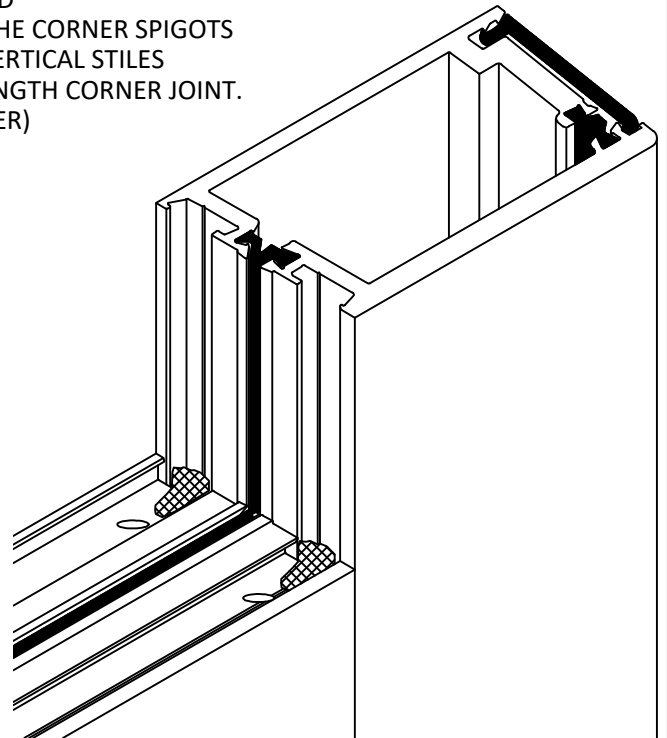
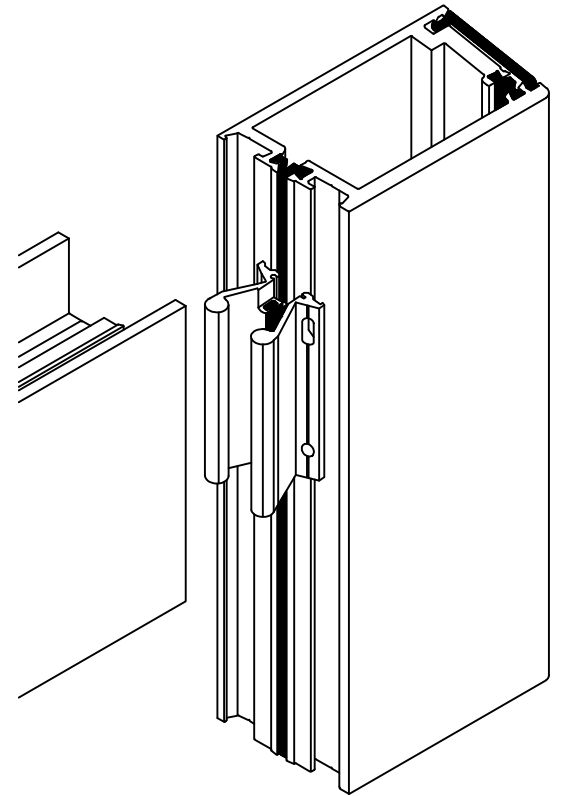
**STANDARD MIDRAIL OPTIONS**

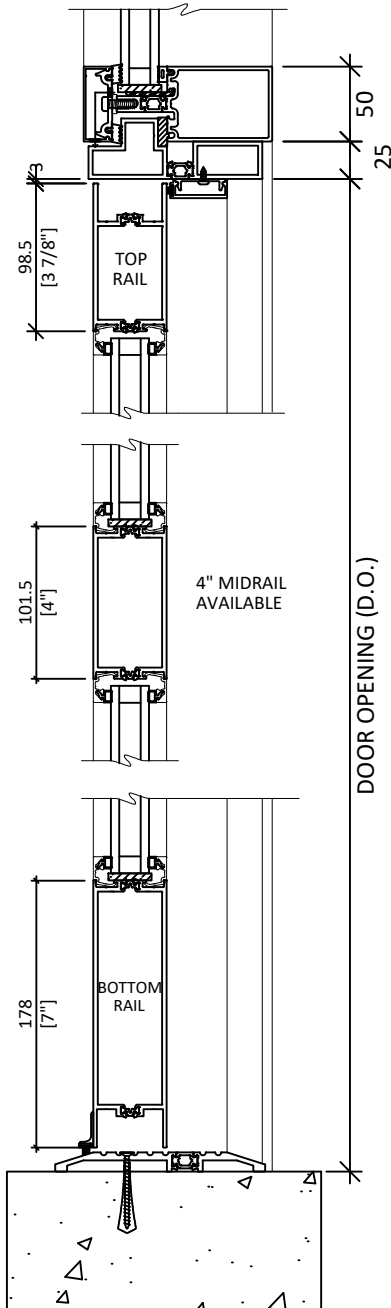
**CUSTOM SIZES ALSO AVAILABLE**



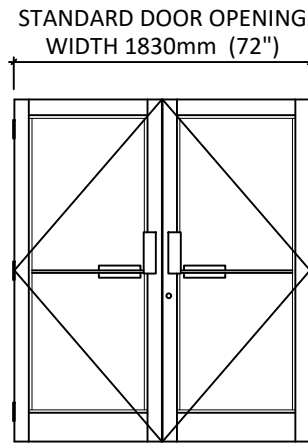
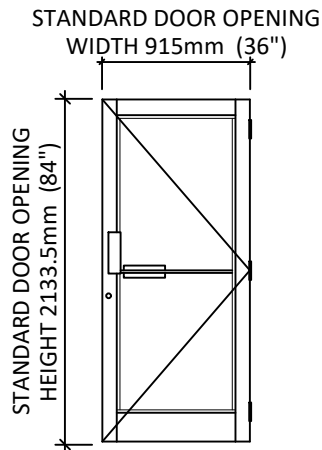
HP TB DOOR IS ILLUSTRATED

BOTH TOP AND BOTTOM RAILS  
MECHANICALLY FASTENED  
ARE POSITIONED OVER THE CORNER SPIGOTS  
THEN WELDED TO THE VERTICAL STILES  
PROVIDING A HIGH STRENGTH CORNER JOINT.  
(FOUR WELDS PER CORNER)



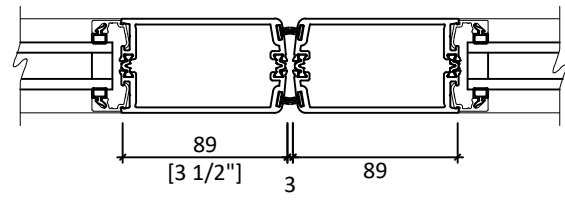


THERMAL PERFORMANCE DOOR  
CROSS SECTION

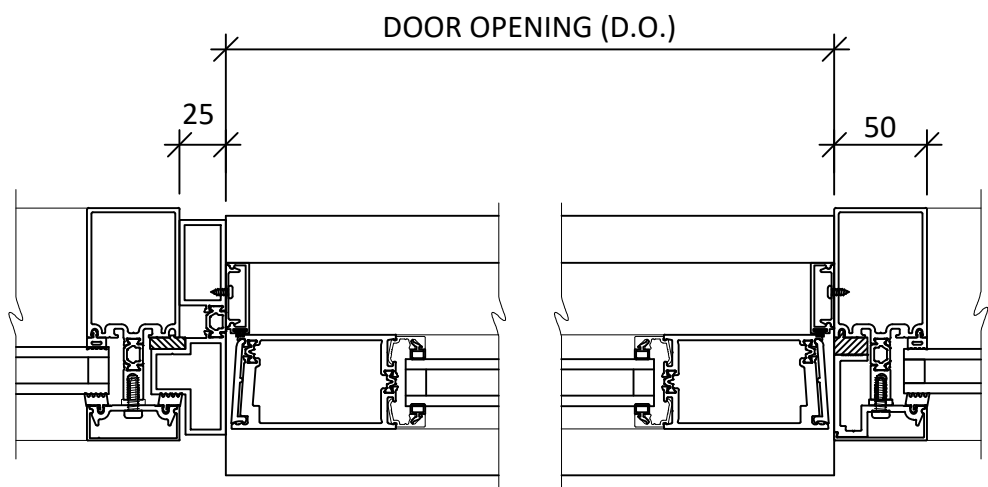


- STANDARD HARDWARE:**
- 1-1/2 PAIR N.R.P. BUTT HINGES
  - 1 M.S. LOCK PER SET
  - 1 KEYED CYLINDER PER SET
  - 1 THUMBTURN PER SET
  - 1 PULL PLATE & PUSH BAR PER LEAF
  - 1 6" WIDE THERMAL THRESHOLD
  - 1 SET OF SQUARE DOUBLE GLAZE GLASS STOPS C/W GASKET
  - 1 DOOR SWEEP PER LEAF
- S.U. GLASS:**
- 1" (25.4mm) THICKNESS
- GLASS SIZE:**
- 720mm x 1825mm
  - 28 3/8" x 71 7/8"

DOOR OPENING (D.O.)



DOOR MEETING STILES



THERMAL PERFORMANCE  
DOOR ADAPTOR

FLUSH DOOR ADAPTOR

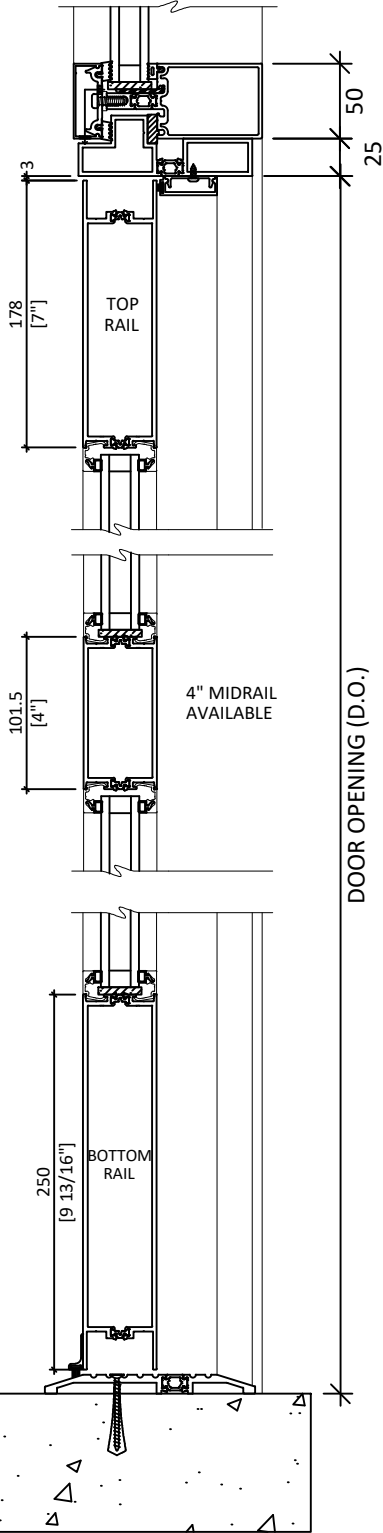
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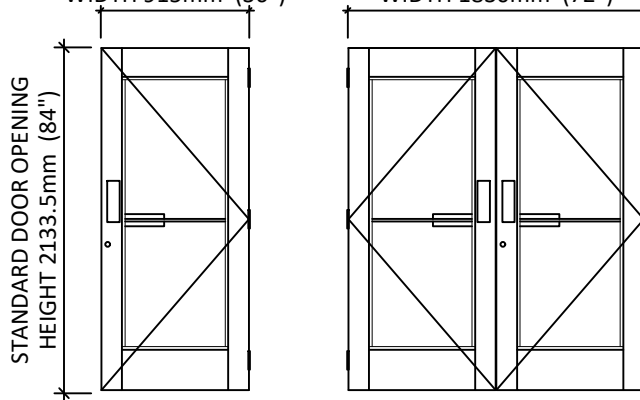
[www.metroglass.ca](http://www.metroglass.ca)

# 2" THERMAL DOOR HP TB-500 WIDE STILE



STANDARD DOOR OPENING  
WIDTH 915mm (36")

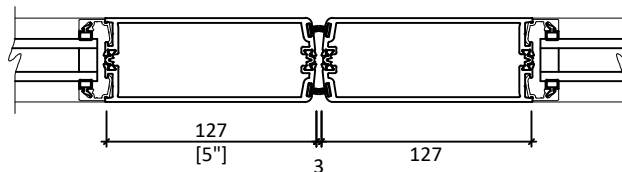
STANDARD DOOR OPENING  
WIDTH 1830mm (72")



STANDARD DOOR OPENING  
HEIGHT 2133.5mm (84")

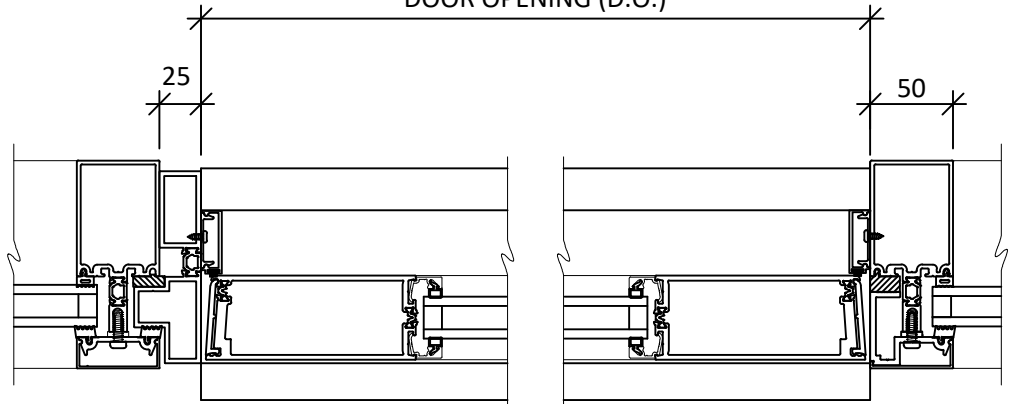
- STANDARD HARDWARE:**
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  - 1 M.S. LOCK PER SET
  - 1 KEYED CYLINDER PER SET
  - 1 THUMBTURN PER SET
  - 1 PULL PLATE & PUSH BAR PER LEAF
  - 1 6" WIDE THERMAL THRESHOLD
  - 1 SET OF SQUARE DOUBLE GLAZE GLASS STOPS C/W GASKET
  - 1 DOOR SWEEP PER LEAF
- S.U. GLASS:**  
1" (25.4mm) THICKNESS
- GLASS SIZE:**  
646mm x 1675mm  
25 3/8" x 66"

DOOR OPENING (D.O.)



DOOR MEETING STILES

DOOR OPENING (D.O.)



THERMAL PERFORMANCE  
DOOR ADAPTOR

FLUSH DOOR ADAPTOR

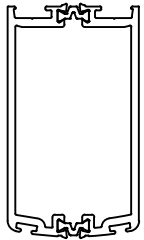
THERMAL PERFORMANCE DOOR  
CROSS SECTION

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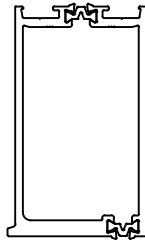
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4

Phone: 403-250-9290 Fax: 403-291-0599

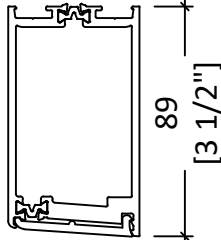
[www.metroglass.ca](http://www.metroglass.ca)



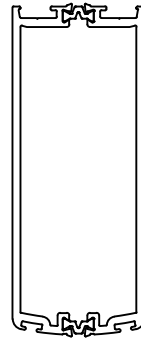
TB D18  
MEETING  
STILES  
C/W MOHAIR



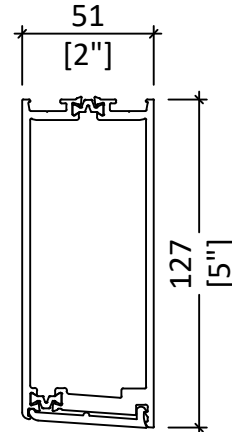
TB D19  
BEVEL STILE  
CONTINUOUS  
HINGE



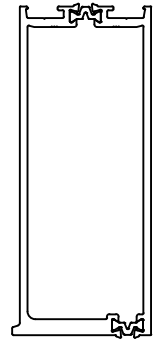
TB D20  
BEVEL STILE  
BUTT HINGE  
AND LOCK SIDE



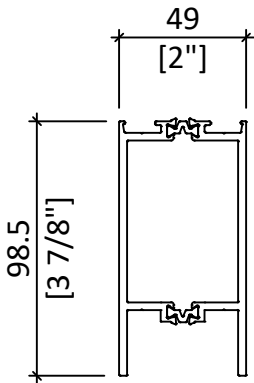
TB D21  
MEETING  
STILES  
C/W MOHAIR



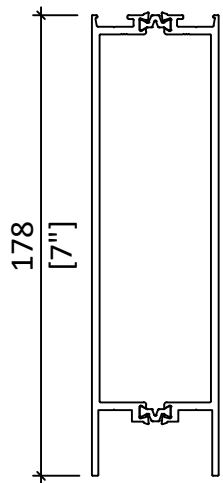
TB D22  
BEVEL STILE  
BUTT HINGE  
AND LOCK SIDE



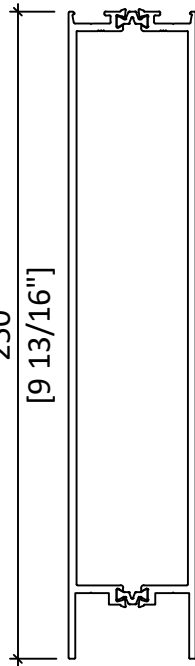
TB D23  
BEVEL STILE  
CONTINUOUS  
HINGE



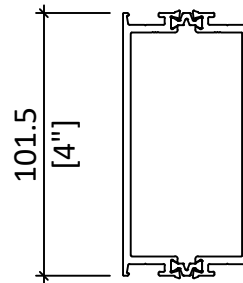
TB D4  
TOP RAIL



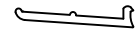
TB D6  
BOTTOM RAIL



TB D7  
BOTTOM RAIL



TB MID RAIL D24  
MID RAIL



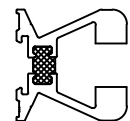
BEVEL STILE  
SIDE CAP  
BLACK P.V.C.



MOHAIR



TB D17  
DOUBLE  
GLAZE STOP



TB D15  
SPIGOT

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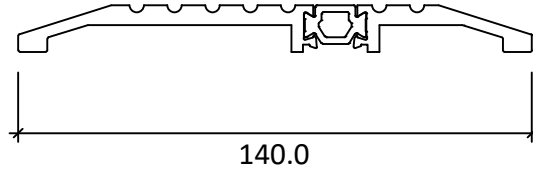
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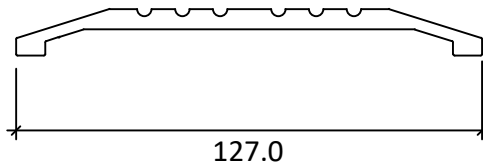
Phone: 403-250-9290

Fax: 403-291-0599

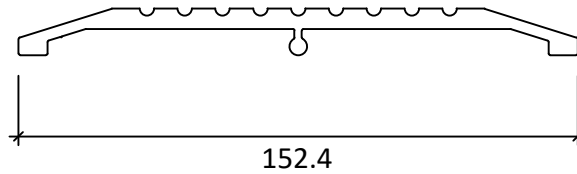
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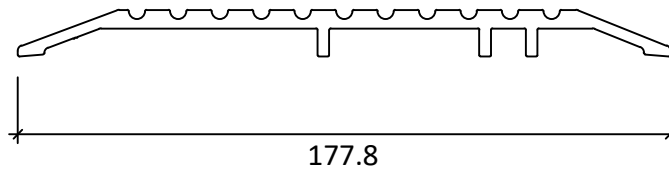
**S5.5 TB THRESHOLD**  
THERMAL PERFORMANCE



**S5 THRESHOLD**






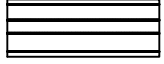

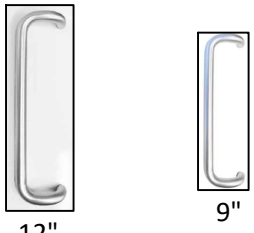
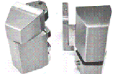

**S6 THRESHOLD**

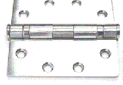
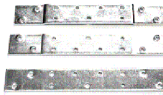



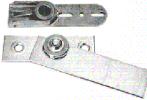


**S7 THRESHOLD**

## THRESHOLD OPTIONS

CUSTOM SIZES ALSO AVAILABLE

PART	NO.	DESCRIPTION	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	D-12	7/8" x 5/8" PUSH BAR/SECURITY BAR CUSTOM SIZES AVAILABLE	✓	✓	✓
	D-13	10" STANDARD PULL HANDLE	✓	✓	✓
	D-14	STD. PUSH BAR C/W DELUXE 10" PUSH PLATE	✓	✓	✓
	D-16	10" DELUXE PUSH PLATE FOR 7/8" x 5/8" BAR	✓	✓	✓
	6033	1"Ø SOLID TUBULAR PUSH BAR (STAINLESS STEEL SPECIAL ORDER ONLY)	✓	✓	✓
	3009 A 3009 B 3012 A 3012 B	1"Ø - SOLID TUBULAR PULL HANDLES SIZE (9"&12") (STAINLESS STEEL SPECIAL ORDER ONLY)  EXTERIOR MALE (DIA. 3/8") INTERIOR FEMALE (DIA. 1/2")  EXTERIOR MALE (DIA. 3/8") INTERIOR FEMALE (DIA 1/2")	✓	✓	✓
		DOREX PIVOT HINGE OPTIONAL OTHER BRANDS	✓	✓	✓
		CONTINUOUS HINGE (SIZES 7' & 8') MORTISE & FULL SURFACE	✓		✓

PART	DESCRIPTION	PART	DESCRIPTION
	BUTT HINGE STANDARD 4 1/2" x 4NRP AVAILABLE IN ZINC PLATED, S.S.		REINFORCEMENT PLATES FOR HINGES
	CONCEALED CLOSER c/w COVER PLATE		ARMS VARIOUS THICKNESSES
	CENTRE HINGE ( WALKING BEAM )		LOWER PIVOT FOR CENTRE HUNG APPLICATION










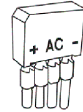
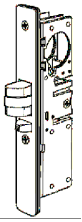
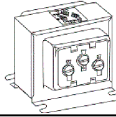
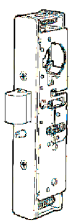
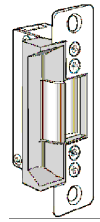


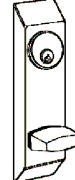
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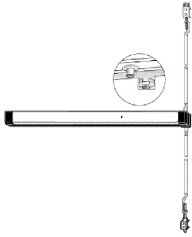
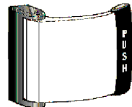







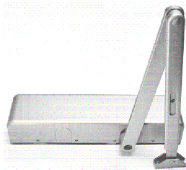
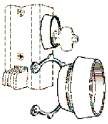
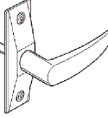

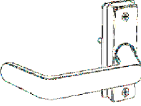


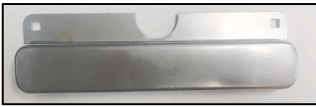

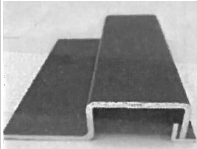
PART	NO.	DESCRIPTION	PART	NO.	DESCRIPTION
	AR MS1853A	MAXIMUM SECURITY DEADLOCK 31/32", 1-1/8", 1-1/2" BACKSET		AR 4902	SHORT TYPE BOX STRIKE
	AR MS1853A-250	HOOKBOLT DEADLOCK 31/32", 1-1/8", 1-1/2" BACKSET		AR 4000	TRIM STRIKE
	AR 4066	THUMBTURN CYLINDER		AR 4001	TRIM AND BOX STRIKE
	AR 4036	MORTISE CYLINDER		AR 4002	ARMORED TRIM STRIKE
	AR 1870	LOCKING FLUSHBOLT		AR 4603	RECTIFIER
	AR 4510	STANDARD DUTY DEADLATCH 31/32", 1 1/8", 1 1/2" AVAILABLE BACKSET		AR 4605	TRANSFORMER 115 VAC to 12/24 VAC
	AR 4900	HEAVY DUTY DEADLATCH		AR 7100	ELECTRIC STRIKE (CUSTOMER SPECIFICATIONS REQUIRED)
	AR 4901	LONG TYPE BOX STRIKE		DORMA KABA L65U X32D	LOW PROFILE ELECTRIC STRIKE
				AR 8066	ENTRY TRIM

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PART	NO.	DESCRIPTION	PART	NO.	DESCRIPTION
	AR 8400	MORTISE EXIT DEVICE		AR 4590	PADDLE OPERATOR FOR 4900 & 4500 LATCHES
	AR 8600	CONCEALED VERTICAL ROD EXIT DEVICE		AR 4591	PADDLE OPERATOR ERGONOMIC DESIGN FOR 4900 & 4500 LATCHES
	AR 8800	SPROCKET LATCH		AR 4593	LATCH PULL
	AR P8800	RIM PANIC STEEL LATCH			CHECK CHAIN
	AR 8099	DUMMY PUSHBAR			STANDARD CLOSER LAWRENCE 5016
	AR 8650	CYLINDER ESCUTCHEON KIT			HEAVY DUTY CLOSER LAWRENCE 8016
	AR MS4043	CYLINDER GUARD			
	AR 4560	LEVER HANDLE			EXTENDED ROD 5016
	AR 4569	EUROSTYLE LEVER HANDLE			EXTENDED ROD 8016
	AR 4565	TURN LEVER SHORT			10" METRO BLOCKER PLATE LATCH GUARD
	AR 4580	CAM DISC		HD 4-2P	M.G. NEW METRO 1/8" THICK ALUMINUM 2 PART ASTRAGAL EASY TO CUSTOMIZE TO FIT ANY MEDIUM & WIDE STILE DOOR COMES IN ANY LENGTH UP TO 14' IN CLEAR, BRONZE, & BLACK FINISH

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**DOOR FINISH:**

- CLEAR
- BRONZE
- BLACK

**GLAZING TYPE :**

- SINGLE (5mm)
- S.U 1<sup>3</sup>/<sub>16</sub> (21mm)
- S.U 1" (25.4mm) T.B.

**THRESHOLD :**

- STANDARD     T.B.
- 4 "
- 5 "
- 6 "
- 7 "

**SWEEPS :**

- YES
- NO

**HINGE TYPE :**

- BUTT HINGES - QUANTITY \_\_\_\_\_
- CONTINUOUS HINGE TYPE:
- MORTISED
- FULL SURFACE
- OFFSET PIVOTS TYPE:**
- METRO STANDARD JACKSON / DOREX
- KAWNEER
- CUSTOM ( OTHERS ) SEE NOTES

**CLOSERS:**

- STD. DUTY LAWRENCE 5016BC
- DROP PLATE
- HEAVY DUTY LAWRENCE 8016
- MOUNTING PLATE
- LCN 4040 ( SPECIFY TYPE )
- MOUNTING PLATE ( SPECIFY TYPE )
- CUSTOM ( OTHERS ) SEE NOTES

**LEFT HAND HINGE**

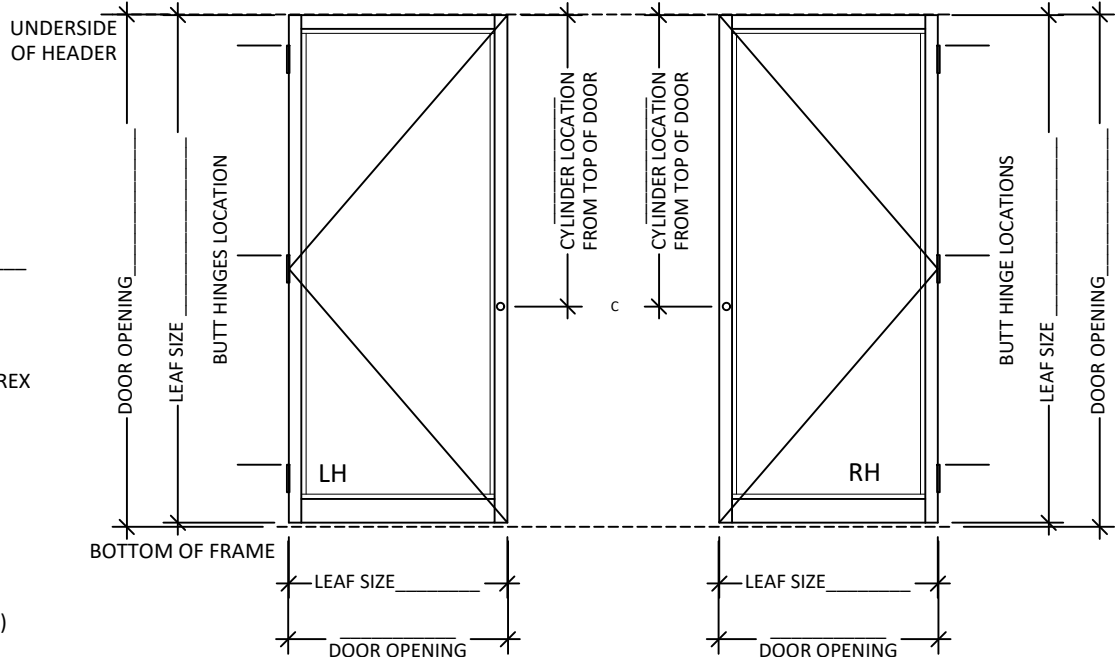
- Swing In
- Swing out
- Narrow Stile 150-Series
- Medium Stile 350-Series
- Wide Stile 500-Series
- Medium Stile TB350-Series
- Wide Stile TB500-Series

QUANTITY REQUIRED \_\_\_\_\_

**RIGHT HAND HINGE**

- Swing In
- Swing out
- Narrow Stile 150-Series
- Medium Stile 350-Series
- Wide Stile 500-Series
- Medium Stile TB350-Series
- Wide Stile TB500-Series

QUANTITY REQUIRED \_\_\_\_\_



STANDARD LEAF SIZE HEIGHT IS 83 3/16" (2113mm)  
 STANDARD CYLINDER FROM TOP IS 47 3/4" (1213mm)

\*\*\* PLEASE PROVIDE PRECISE HARDWARE LOCATIONS SUCH AS HANDLES, DOOR LOCKS, ETC \*\*\*  
 WHEN PROVIDING BUTT HINGE LOCATIONS FROM TOP OF DOOR ALSO PROVIDE CUT OUT DEPTH  
 METRO STANDARD BUTT HINGE MEASUREMENTS ARE 5 FROM TOP -- 5 FROM BOTTOM & CENTER DEPTH IS ALWAYS 1 1/2"

- LOCKING HARDWARE**
- STD. M.S DEAD LOCK
  - CYLINDER
  - THUMBTURN
  - PADDLE HANDLE
  - LEVER HANDLE
  - LATCH LOCK
  - ELECTRIC STRIKES
  - ADAMS RITE 7100
  - RCI 60-SERIES
  - ADAMS RITE PANICS**
  - 8400 MORTISED c/w LATCH LOCK
  - 8600 CVR (CONCEALED VERTICAL ROD )
  - 8800 RIM
  - P8800 RIM
  - FLUSH BOLTS**
  - STANDARD
  - LOCKING
  - CUSTOM ( OTHERS ) SEE NOTES

- HANDLES**
- METRO STANDARD**
- PUSH / PULL
  - SINGLE PULL
  - OFFSETS ONLY
  - 12" (1" ROUND OFFSETS)**
  - 3012A / 6033 ( 36" DOOR )
  - 3012A/B BACK/BACK PULLS
  - 3012A SINGLE PULL
  - CUSTOM ( OTHERS ) SEE NOTES
  - 9" (1" ROUND OFFSETS) SPECIAL ORDER**
  - 3009A/B BACK/BACK PULLS
- COLOR:**
- CLEAR     BLACK
  - BRONZE     STAINLESS STEEL

NOTES / COMMENTS / DRAWINGS

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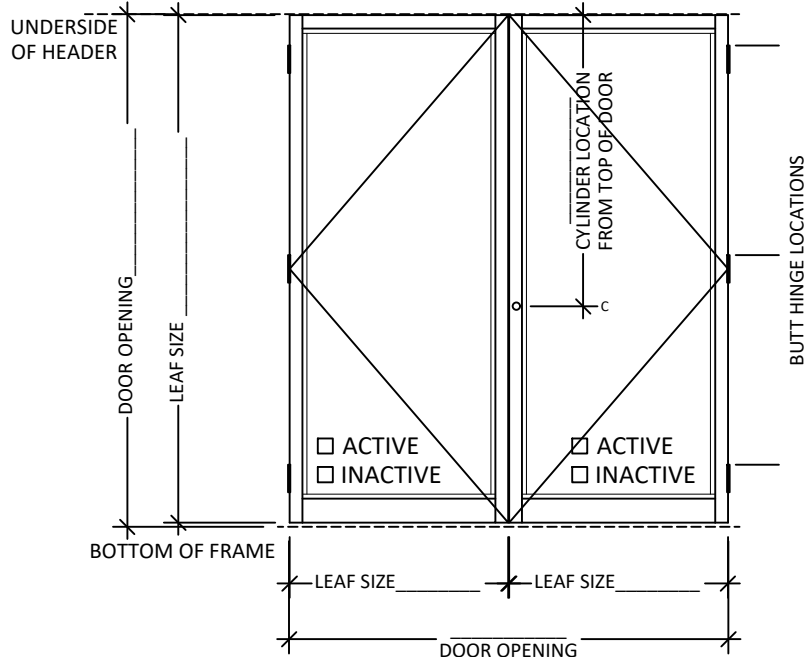
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- LCN 4040 ( SPECIFY TYPE )
- MOUNTING PLATE ( SPECIFY TYPE )
- CUSTOM ( OTHERS ) SEE NOTES

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- Swing out
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- Medium Stile 350-Series
- Wide Stile 500-Series
- Medium Stile TB350-Series
- Wide Stile TB500-Series

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