



AVALON INTERNATIONAL ALUMINUM

INTERIOR DOOR FRAMES

WWW.AVALONINT.COM

503.885.9494

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BEST IN THE BUSINESS

QUICK FIELD INSTALLATION

CUSTOM DESIGN & EXPEDITING

PRE-CUT, BOXED, & TAGGED PER OPENING





WELCOME TO AVALON INTERNATIONAL ALUMINUM

CUSTOMER SERVICE

For over 40 years, AVALON has been a leader in producing aluminum interior door frames & glazing components, recognized by architects nationwide.

CUSTOM DESIGN

The unparalleled choice for architects seeking top tier aluminum door frames & glazing components.



QUALITY

We stand out as the sole provider of the comprehensive Eagle series, catering to non-rated & aluminum 45 minute glazing systems. Architects have favored AVALON's fire-rated frames for over two decades, making them the preferred choice for pre-finished aluminum door frames, sidelites, & glass aluminum doors.

INNOVATION

In 1996, AVALON INTERNATIONAL was unveiled as a contemporary company with new products genuinely demonstrative to our legacy of excellence. AVALON exceeded all expectations with the introduction of an unprecedented new product line; an all new 45-minute Fire-Rated Aluminum Sidelite & Borrowed lite system.

POWDER COATING

Clear Anodized



Standard Black



Standard Bronze



Standard White



Champagne



Standard Grey

Far superior to the liquid paints typically used in the aluminum door frame industry & much more consistent than color anodized finishes.

All AVALON frames manufactured in our facility are finished with the highest quality powder coatings available.

An epoxy-polyester hybrid is used, which blends the extreme durability of epoxy finishes with the resiliency of a polyester coating.

AVALON can offer a much wider range of colors than those shown, ranging from soft pastels & exotics to veined metallics.

Powder coatings offer vastly superior quality of adhesion & also have a much higher level of impact resistance.

The nicks, scratches, & production contaminations, normally seen in frames with a liquid finish will simply not be found in our powder coating. Additionally, powder will offer a smoother, more attractive finish that can be achieved in a wide range of gloss levels. Coverage is always consistent as the application process ensures a uniform coating density, texture, surface roll, & thickness across all surfaces.





No Solvents or VOCs

No Dangerous Substances

No Toxic Compounds

ANTI-MICROBIAL POWDERS

Prohibits Growth & Reproduction of Bacteria

EAGLE FRAME

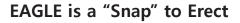
Aluminum Frames With Glazing

Non-Rated / 20 - 45 Minute Fire-Rated

Pat. No. US 10,871,024 B2



STC 53 FRAMES AVAILABLE (INDEPENDENTLY TESTED)



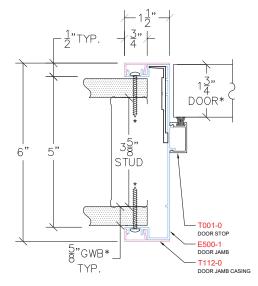
Headers & jambs fit smoothly into the rough opening, to be easily plumbed & secured. It is then a simple matter to attach the hardware & hang the door. EAGLE's unique casing, which snaps on last, overlaps & hides wallpaper cuts & paint splatters. Profiles are available in standard 1-1/2" or 2"





EAGLE is the first aluminum frame to carry a 45 minute firerating on sidelite, borrowed lite, & transom applications. The EAGLE series was approved for fire ratings of 20 & 45 minutes.

Sizes up to 6'-0" x 9'-0" (wall combinations from 3-1/2" to 16-1/2") have been shown to meet or exceed the criteria prescribed for ASTM E-152, UL IOB, NFPA 252, CSFM 43.7, UBC 43.2 & CAN4 S-104 for 45 minute fire-rated assemblies.



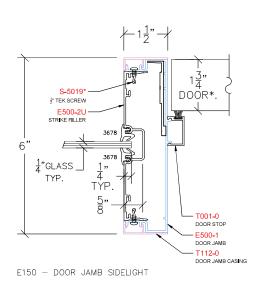
E100 - DOOR JAMB

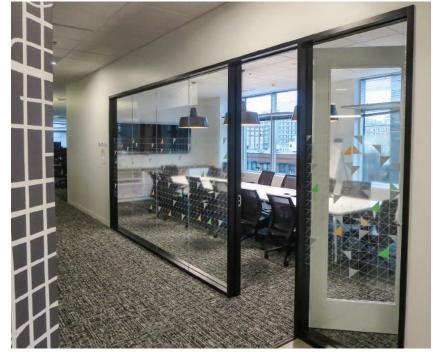
ADDITIONAL CASING SIZES AVAILABLE



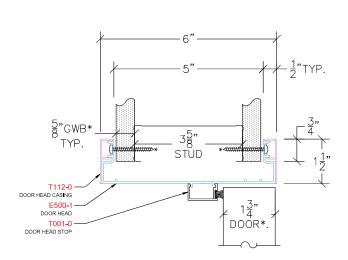
5th Annual Construction & Engineering Awards 2020 Avalon International Aluminum was awarded:

- Leading Manufacturer of Interior Aluminum Frames
 North America
- Most Advanced Aluminum Framing System
 Eagle Series Interior Aluminum Framing System

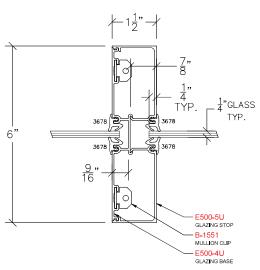




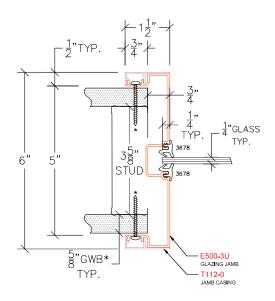
NO SILL STARTER/ BLOCKING NEEDED



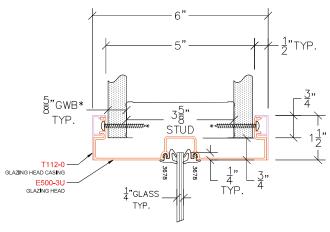
E200 - DOOR HEAD



E305 - GLAZING INTERMEDIATE VERTICAL

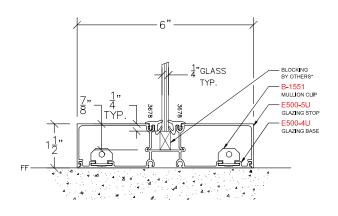


E300 - GLAZING JAMB



E400 - GLAZING HEAD

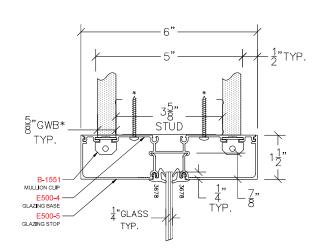




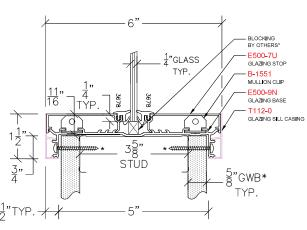
E420 - GLAZING SILL

ALL THROATS FEATURE:

- FLUSH GLAZING
- 3-1/2" TO 16-1/2" WALLS IN 1/8" INCREMENTS



E425 - GLAZING HEAD



NO FIELD NOTCHING OF TRIM REQUIRED

E430 - GLAZING SILL KNEEWALL

PHOENIX FRAME

90 Minute Aluminum Door Frame





-MULTIPLE HARDWARE PREPS AVAILABLE -MAXIMUM SIZE 8'-0" - 10'-0" AVAILABLE

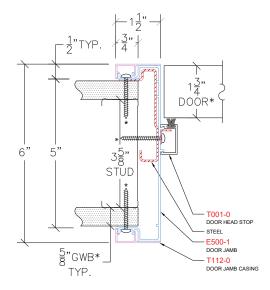
PHOENIX was the first aluminum door frame to meet or exceed the criteria specified in ASTM E-152, UL 10B, NFPA 252, CSFM 43.7, UBC 43.2 & CAN4 S-104 for 90 minute firerated assemblies.

PHOENIX units can be used with prefinished or unfinished wallboard & are shipped with steel components pre-installed for convenient installation; including all installation hardware.

Design continuity in color & profile configurations can be maintained without job site finishing, since PHOENIX is factory finished & design coordinated with AVALON's non-rated/ 20/ 45 minute Eagle series.

AVAIL. THROAT SIZES:

- 2-1/4" TO 16-1/2" IN 1/8" INCREMENTS
- 1-1/2" & 2" FACE



5"GWB*
TYP.

5"TUD

DOOR HEAD CASING

E500-1

DOOR HEAD

STEEL

T001-0

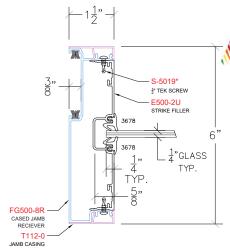
DOOR HEAD STOP

P100 - DOOR JAMB

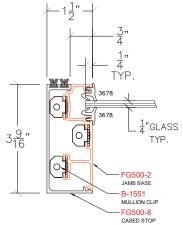
P200 - DOOR HEAD

FLUSH GLIDE

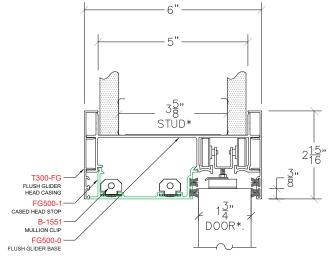




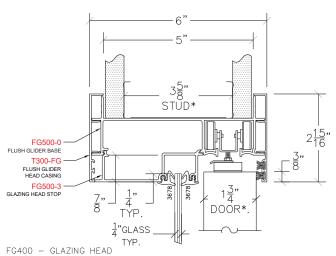
FG150R - GLAZING JAMB RECEIVER

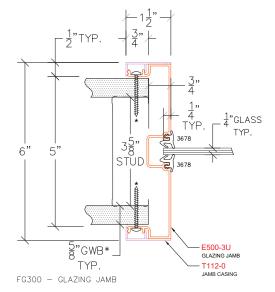


FG150 - CASED VERTICAL MULLION



FG200 - DOOR HEAD



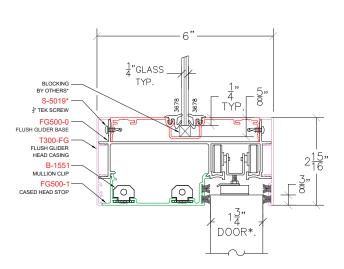


GLAZING BLOCK
BY OTHERS
FG500-4
GLAZING BASE
FG500-5
GLAZING BASE
FG500-5
GLAZING BASE
FG500-5
FFF
MULLION CLIP
FF

FG420 - GLAZING SILL

FLUSH GLIDE WITH TRANSOM

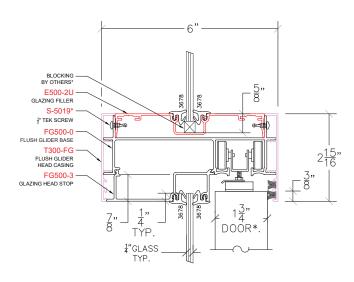
Exclusive double wool pile for superior sound attenuation



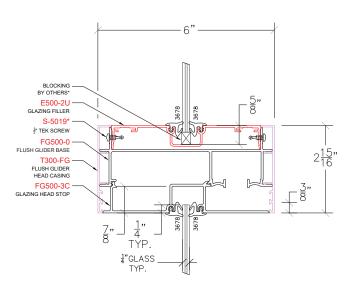
FG216 - DOOR HEAD W/ TRANSOM



FLUSH GLIDE SYSTEM AVAILABLE IN 5" THROAT



FG426 - GLAZING HEAD W/ TRANSOM



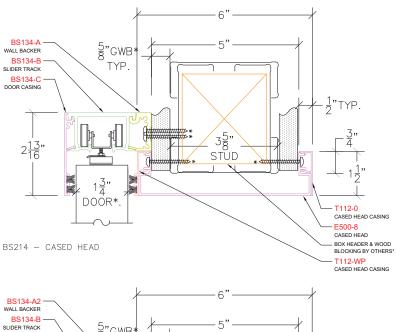
FG426C - GLAZING HEAD COVERED W/ TRANSOM

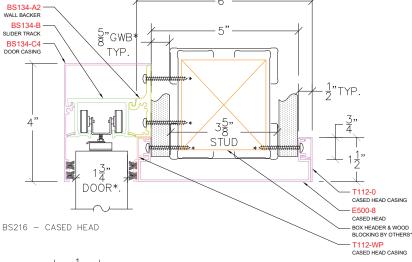
BARN DOOR SLIDER

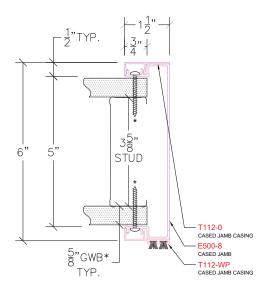


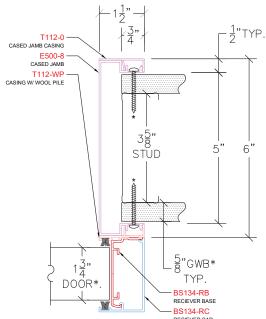
Exclusive double wool pile for superior sound attenuation











Available Options:

- **Pocket Doors**
- Bipass Doors

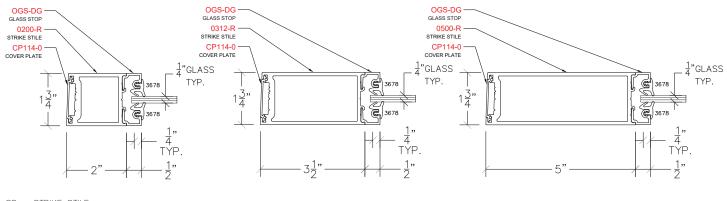
Compatible With:

- 1-3/4" Doors
 - 1-3/8" Doors

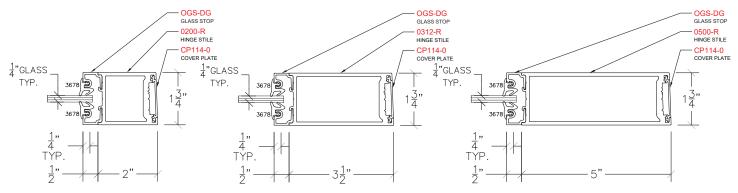
BS140 - CASED JAMB

BS140R - CASED JAMB RECEIVER

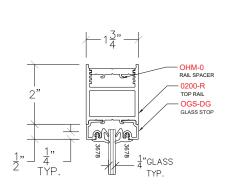
AVALON DOORS

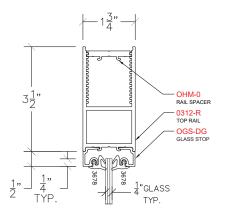


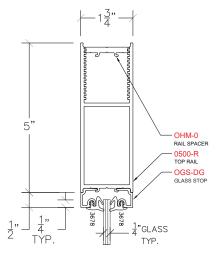
SS - STRIKE STILE



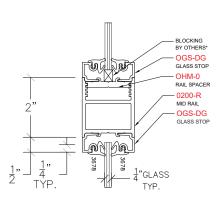
HS - HINGE STILE



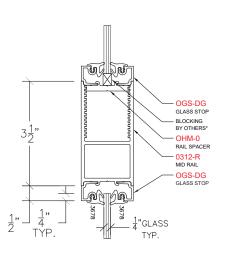


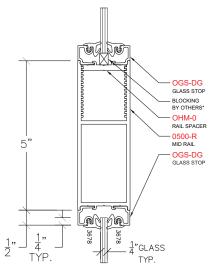


TR - TOP RAIL









NARROW

MEDIUM

WIDE



1/4" to 2-1/2" Glass Thickness

1" Insulated Glass

1" Integrated Blind Units (Page 21)

Inset Panel

5"

1"GLASS TYP.

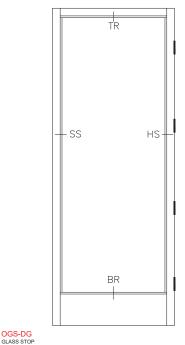
> BLOCKING BY OTHERS

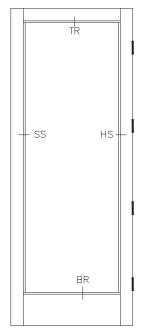
0500-R

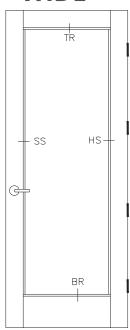
BOTTOM RAIL
OHM-0

RAIL SPACER

UARU

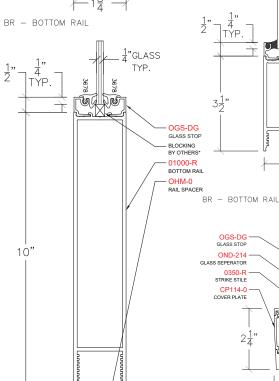


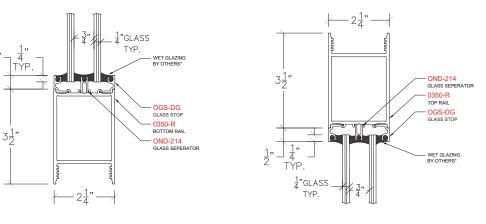




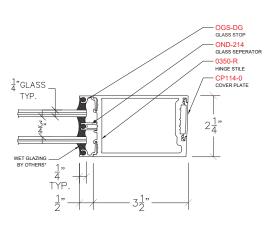
- » BOTTOM RAILS AVAILABLE IN OTHER SIZES
- » STANDARD WIDE STILE DOOR HARDWARE PREPS INCLUDED
- » 10- LINE BORED LOCKSETS & 4.5" x 4.5" BUTT HINGES

DOUBLE GLAZED DOORS





TR - TOP RAIL



HS - HINGE STILE

BR - BOTTOM RAIL

SS - STRIKE STILE

HARDWARE PREPARATIONS

STANDARD PREPS

4-1/2" x 4-1/2" Hinges

ANSI Strike

No Extended Lip Strike Required

AVALON SPECIALTY FEATURES

1" Wide Door Stop

No Additional Bracket needed for Parallel Arm Closer

Heavy-duty All Aluminum Hinge Backer

Mitre Corners Available

Double-Egress Frame

No Trim Notching Required



AVALON STANDARD 1" DOORSTOP WIDTH = **CLOSER SUPPORT IS NOT** REQUIRED

-.062" TO .125" EXTRUSION THICKNESS



PREMIER PREPS

Heavy Weight Hinge preps Electric Hinge preps 5" x 5" Hinge preps

CUSTOM PREPS

Concealed Closers

EPT – Concealed & Hinge types

Electric Strikes - All types

SOSS Hinges - Concealed Hinges

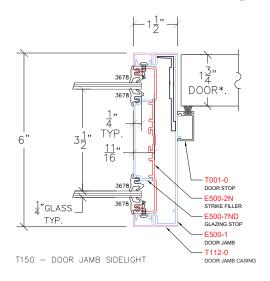
Concealed Overhead Stops

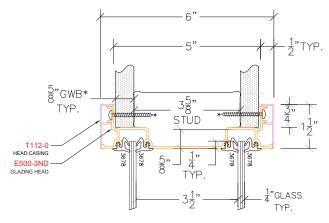
Flush Bolts

*Backers Included & Installed

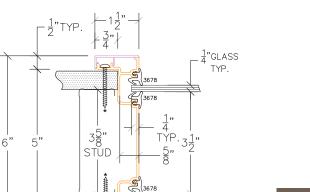
INDEPENDENTLY TESTED STC of 53



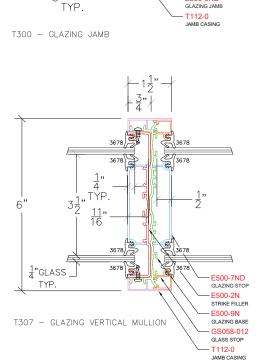




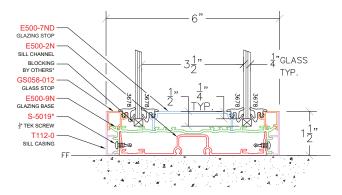
T400 - GLAZING HEAD



E500-3ND



5/8 "GWB*



T420 - GLAZING SILL



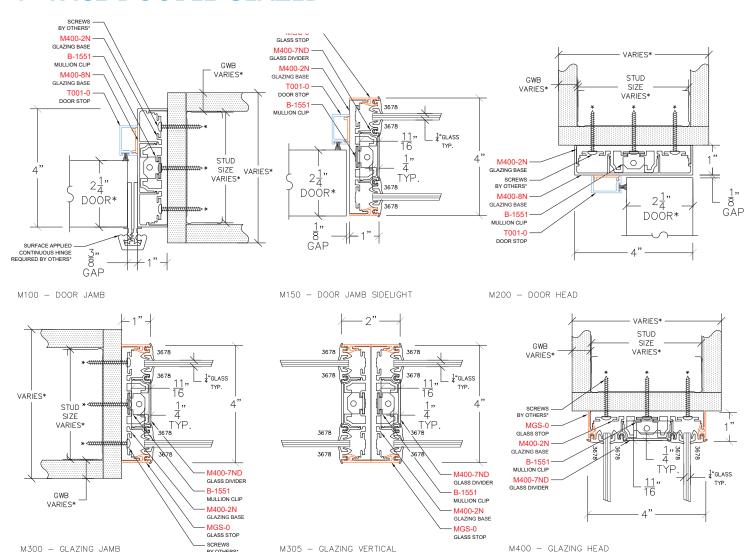


SIDELITE SYSTEM INDEPENDENTLY CERTIFIED WITH STC-53 RATING

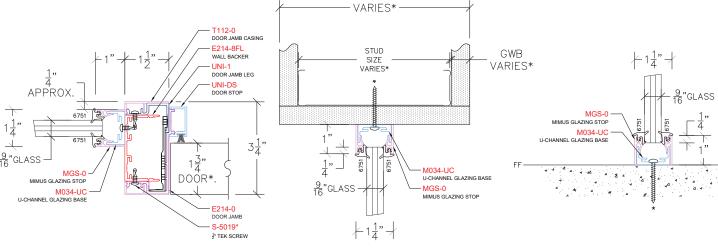
DEMOUNTABLE

When Specified under Div. 102219, AVALON Demountables Qualify for Section 179 Tax Deductions

1" FACE DOUBLE GLAZED



1" FACE U-CHANNEL

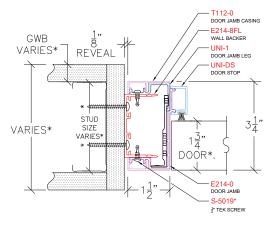


M150 - DOOR JAMB SIDELIGHT

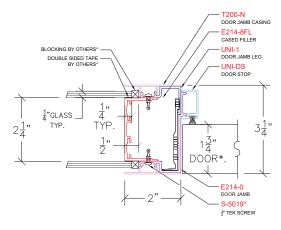
M400 - GLAZING JAMB

M420 - GLAZING SILL

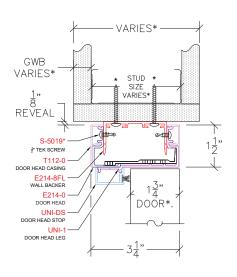
EXPOSED VITRIUM SECTION VIEWS - 11/2" DOUBLE GLAZED



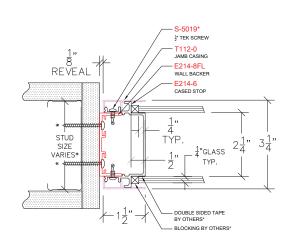
EV108 - DOOR JAMB



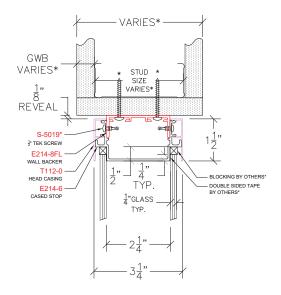
EV150 - DOOR JAMB SIDELIGHT



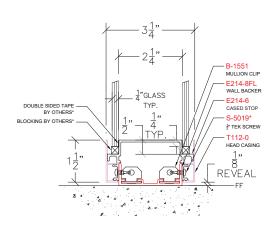
EV208 - DOOR HEAD



EV308 - GLAZING JAMB



EV408 - GLAZING HEAD



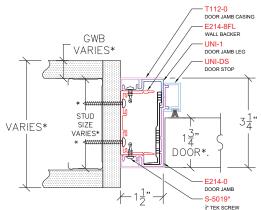
EV420 - GLAZING SILL

27.120

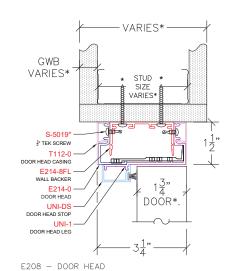
DEMOUNTABLE

When Specified under Div. 102219, AVALON Demountables Qualify for Section 179 Tax Deductions

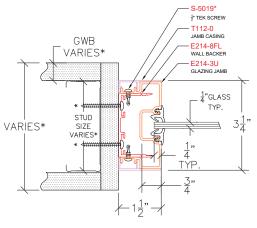
EAGLE SECTION VIEWS - E214



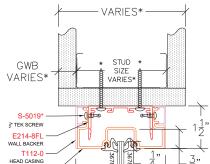




E108 - DOOR JAMB



E308 - GLAZING JAMB



1"GLASS

3678

F150 - DOOR JAMB SIDELIGHT

T112-0 DOOR JAMB CASING

UNI-1

DOOR*.

F214-2LU

GLAZING FILLER

DOOR JAMB LEG

 $3\frac{1}{4}$

UNI-DS DOOR STOP

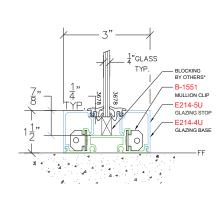
E214-0 DOOR JAMB

S-5019*

TEK SCREW

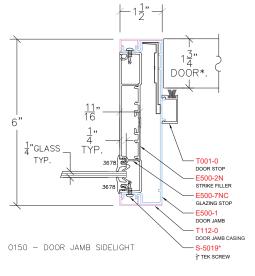
E408 - GLAZING HEAD

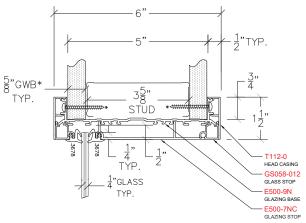
E214-3U GLAZING HEAD

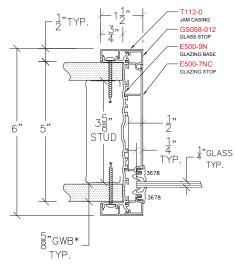


E420 - GLAZING SILL

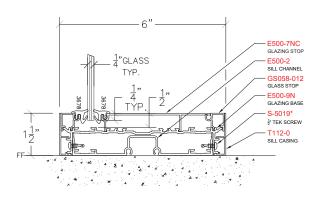
OFFSET GLAZING







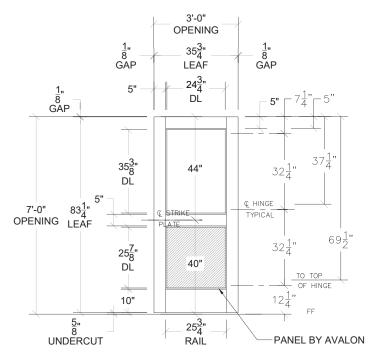
O300 - GLAZING JAMB



0420 - GLAZING SILL

HALF LITE DOOR

O400 - GLAZING HEAD



HALF/FULL LITE DOORS AVAILABLE



CUSTOM ENGINEERING AVAILABLE

ROUGH OPENINGS

40" AFF to CL Latch for Cylindrical Locksets



INVERT STUDS FOR GLAZING

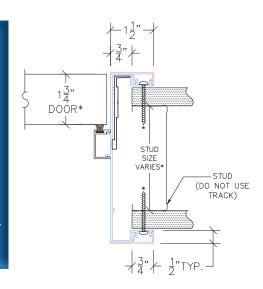
CALCULATING R.O.

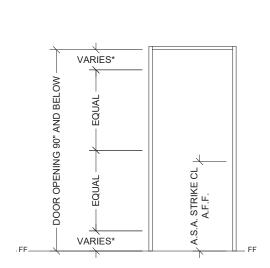
R.O. FOR 1-1/2" OR 2" PROFILE: OPENING SIZE + 3/4" EACH SIDE

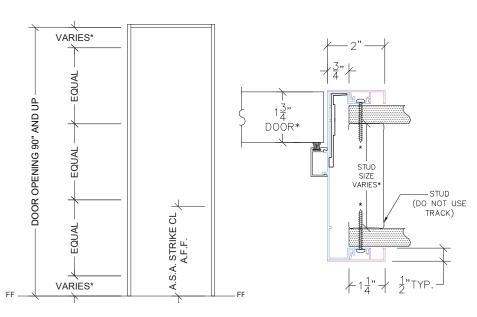
EX: 3070 FRAME

 $\frac{3}{4}$ " + 36"(WIDTH) + $\frac{3}{4}$ " = 36 $\frac{1}{2}$ " R.O.

EX: 3070 FRAME w/ 12" SIDELITE 3/4" + 36"(WIDTH) + 1-1/2"(PROFILE)+ 12"(SIDELITE) + 3/4" = 4'-3"

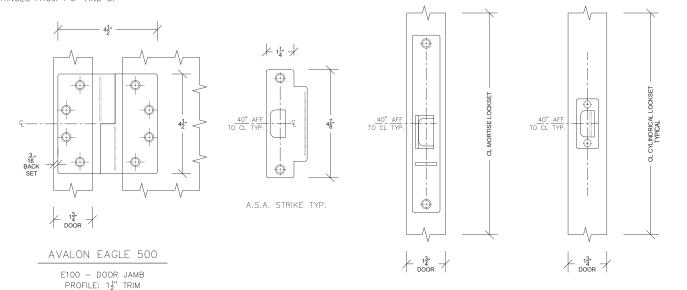






AVALON HINGE STACKS

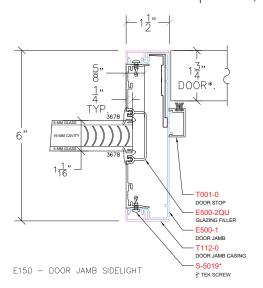
AVALON USES 3 HINGES UP TO & INCLUDING 7'6"; 4 HINGES FROM 7'6" AND UP

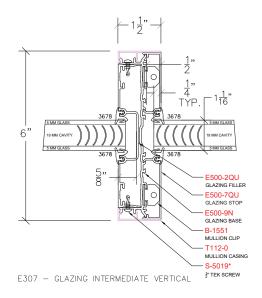


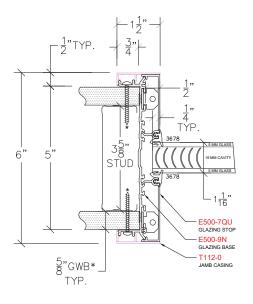
INTEGRAL BLINDS



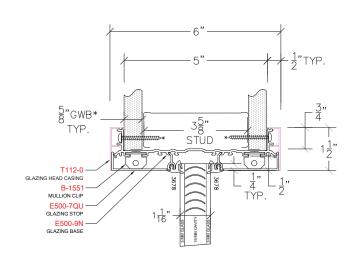
System can accommodate up to 1-1/8" IGU



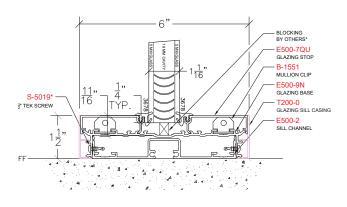




E309 - GLAZING JAMB



E409 - GLAZING HEAD



E420 - GLAZING SILL



BLIND IS OPTIONAL



BLAST TESTING

The testing method for the blast resistant windows involved standing the window unit 2m away from the center of a 500g TNT cylindrical explosive (size: 80mmx61mm). After detonating with an electric no. 8 detonator, the overall structure of the aluminum alloy blast resistant window was intact, the sash was broken, the laminated glass was intact, & there was no splash on the back of the glass.







ALUMINUM ALLOY BLAST-RESISTANT WINDOW & TNT BARE CHARGE CYLINDER BEFORE EXPLOSION TEST

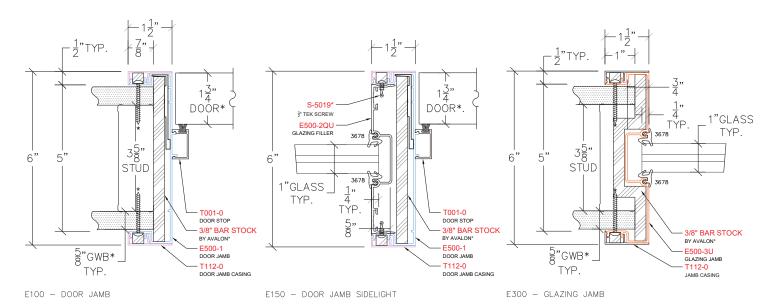
ALUMINUM ALLOY BLAST-RESISTANT WINDOW AFTER EXPLOSION TEST

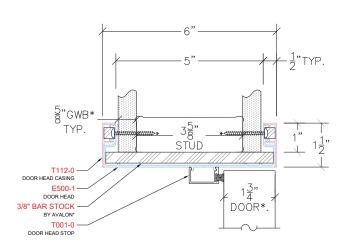
TECHNICAL SPECIFICATIONS

MATERIAL	MATERIAL	BLAST RESISTANT	IMPULSE PRESSURE
	THICKNESS	GLASS THICKNESS	RESISTANCE
		8MM (GLASS) +	
ALUMINUM ALLOY	2.0 MM	0.76MM (LAMINATE) +	1424 PA
EXTRUSION		8MM (GLASS)	
		12MM (GLASS) +	
ALUMINUM ALLOY	2.0 MM	0.76MM (LAMINATE) +	1424 PA
extrusion		12MM (GLASS)	

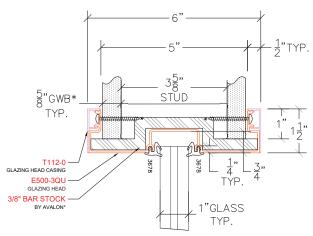
BLAST RESISTANT WINDOWS



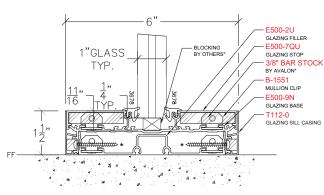




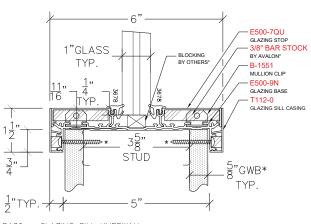




E400 - GLAZING HEAD



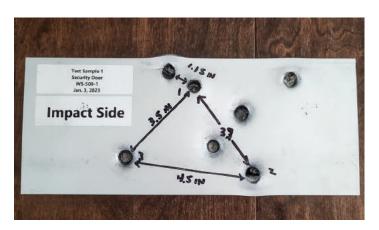
E420 - GLAZING SILL



E430 - GLAZING SILL KNEEWALL

SECURITY DOOR & FRAME

The testing method for the Security Door & Frame, Ballistics Level-3, involved firing multiple shots over each test sample from a .44 Magnum from a distance of 15 feet. In both the Door & Frame testing, no spalling occurred & no shots penetrated the samples. Each sample piece passed the Ballistics test.



IMPACT SIDE OF SECURITY DOOR SAMPLE AFTER BALLISTIC TEST



IMPACT SIDE OF SECURITY FRAME SAMPLE AFTER BALLISTIC TEST

TECHNICAL SPECIFICATIONS

REPORT NUMBER	PRODUCT	TEST STANDARD	PARTICULAR TEST	RESULT
	BEING TESTED			
			UL LEVEL 3 (.44	
BTR-02-11-20230102	SECURITY FRAME	UNDERWRITERS	MAGNUM SWC) -	PASSED THE TEST
SAMPLE 1		LABORATORY UL752	MULTI-SHOT	
			UL LEVEL 3 (.44	
BTR-02-11-20230102	SECURITY DOOR	UNDERWRITERS	MAGNUM SWC) -	PASSED THE TEST
SAMPLE 2		LABORATORY UL752	MULTI-SHOT	

CLOSE FOCUS RESEARCH BALLISTIC TEST









ACCORDING TO ISO 14025 & ISO 21930: 2017

We offer LEED compliance credit for MRc2 with EPD, MRc4 credit for ingredients (no VOC), & LEED v4.1 with Low E

Powder coating is the most environmentally friendly finish available. It is harder & more durable than color anodized, covers dye lines & is perfectly consistent in shade & appearance, plus it contains none of the nasty chemicals used color anodizing. in From a favorable ecological perspective, powder coating is far superior to any other finish.





IN-HOUSE POWDER COATING

INTERIOR ALUMINUM DOOR FRAME | SECTION 081216

Part 1 - General

1.01 SECTION INCLUDES

Extruded field assembled aluminum frames for interior wood doors, wood panels, & glazing. Coordinate with Sections 08211 & 08800.

1.02 REFERENCES

American Society for Testing Materials (ASTM): 1. B 221: "Specifications for Aluminum-Alloy Extruded Bars, 2.02 FRAMES

Rods, Wire, Shapes, & Tubes."

Architectural Aluminum Manufacturers Association (AAMA): AAMA 603: Voluntary Performance Requirements & Test Procedures for Pigmented Organic Coatings on Extruded Aluminum.

1.03 SUBMITTALS

Procedures: In accordance with General Conditions. Shop Drawings: Indicate framethickness & configuration, location of cutouts for hardware, reinforcement & finish. Show profiles, types, dimensions, anchorage construction, relationships to adjacent structure & interface with adjacent materials. Cross reference to Schedules.

Sample for Verification of Painted Finishes: Submit

two samples on 3 by 5 inch standard "Q" panel.

Product data including illustrated isometric installation instructions.

1.04 SEQUENCING & SCHEDULING

Do not begin fabrication of frames until hardware templates have been received from hardware supplier.

1.05 QUALITY ASSURANCE

Installer Qualifications. Capable of installing & authorized by manufacturer to install all products specified in this Section.

1.06 DELIVERY, STORAGE, & HANDLING

Deliver, store, & handle frames in a manner to

prevent damage or deterioration.

Provide packaging such as cardboard or other containers, separators, banding, spreaders, & paper wrappings to protect items.

Follow special storage & handling requirements of

manufacturer.

Part 2 - Products

2.01 ACCEPTABLE MANUFACTURER

AVALON Eagle, or Phoenix Series, as manufactured by AVALON INTERNATIONAL ALUMINUM, INC. Portland, Oregon, 1-800-678-0566, is specified as design standard.

Glazing Frames: Snap-in type stops with manufacturer's 3.02 TOLERANCES standard neoprene® gaskets. Glass adjacent to metal without intervening gasket not permitted. Intermediate mullions shall remain 1 1/2" or 2" profile.

Substitutions: Acceptable substitution subject to provisions of Sections 2.01 (A) & (D) must be approved ten days prior to bid date.

Other Substitutions: None permitted. Finish: Thermal-setting powder coating.

Hybrid **Epoxy-Polyester** Type: blend. Minimum film thickness of 1.8 mils required.

Application: Finish must be factory applied to ensure controlled film thickness

& smooth surface.

Color: Standard or Custom color as selected by Architect.

Aluminum alloy, extruded & fabricated to shapes as required for each application, for knock down field assembly.

Thickness of Main Frame Members: 0.062 inch nominal. Increase to 0.130 inch at

frame & hinge anchorage.

Fasteners & Hardware: Aluminum, stainless steel, or other non-corrosive materials compatible with aluminum & acceptable to frame manufacturer, countersunk style. Exposed fasteners not permitted.

Flush 1-1/2" or 2" casing, extended lip

strike not permitted.

Throats of frames to be nominal wall thickness plus 1/8".

Part 3 - Execution

3.01 INSTALLATION

Install frames in accordance with manufacturer's instructions. Rough opening to be framed out using steel studs, not steel track.

Coordinate with wall construction for anchor placement.

Field cut jamb legs if required to fit

actual finished opening dimensions.

Install plumb & true in line, with all necessary clips, anchors, & fastenings. Direct attachment of frame to metal stud required.

Coordinate installation of glass & glazing to comply with Section 09900 "Glazing" for

glazed openings.

Install reinforcement channels between two abutting frames. Anchor to structure & floor.

Accurately join, fit, & reinforce corners to flush hairline joints.

Install frames to permit hanging wood doors to AWI requirements as specified in Section 08211.

3.03 ADJUSTING AND CLEANING

Adjust hardware for smooth & balanced door movement.

Clean completed system promptly after erectizon taking care to avoid damage to finishes.