- d11.1 EXTERIOR ENTRY DOOR CRITERIA
- d11.2 EXTERIOR ENTRY DOOR CONFIGURATIONS
- d11.3 EXTERIOR GLASS DOORS
- d11.4 WINDOW TYPES_CASEMENTS, AWNINGS, SLIDERS, DOUBLE HUNGS
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- d11.6 OTHER WINDOWS
- d11.7 SOME DOOR AND WINDOW MULLED COMBINATIONS
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- d11.10 INTERIOR DOOR STYLES
- d11.11 FACTORYAND FIELD MULLING
- d11.12 CHOICES-CONSTRUCTION, GLASS, EXTERIOR COLOR, GRILLS, INTERIOR FINISH

COMPONENTS_doors+windows d11.1

EXTERIOR ENTRY DOOR CRITERIA

ENTRY EXPERIENCE

*APPROACH IDENTITY_THE ENTRY DESIGN USUALLY WANTS TO BE IDENTIFIABLE UPON APPROACH. THE HOME IMAGES BELOW HAVE ISOLATED THAT IDENTIFIABLE ENTRY ELEMENT, AND SHOW THAT THE DOOR ITSELF IS PART OF A BIGGER DESIGN. THE DOOR AND ITS IMMEDIATE ARCHITECTURAL AND WINDOW COMPANIONS ARE SELECTED AND POSITIONED AS AN INTEGRAL PART OF THAT DESIGN. ALL OF THESE DESIGNS USE READILY AVAILABLE DOOR AND WINDOW SELECTIONS AND DETAILS AS DESCRIBED THIS CHAPTER.

*UNDER COVER_ALL ENTRIES ARE ALSO UNDER COVER EMPLOYING A VARIETY OF METHODS. HAVING SOME COVER OVER THE ENTRY DOOR IS UNIVERSALLY DESIREABLE.

*FEEL COMFORTABLE ACCESSORIES_THE ENTRANCE EXPERIENCE CAN ALSO BENEFIT FROM PLANTS, BENCHES, CHAIRS, SOMEWHERE ON THE ENTRY PORCH/STOOP/DECK SPACE. THESE MAY BE USEFUL OR NOT, BUT ADD A LITTLE SENSE OF HOME AND PERSONALITY.































A SIMPLER ARCHITECTURE HAS THE SAME EXTERIOR DOOR CRITERIA

*APPROACH IDENTITY_BELOW IMAGES FROM ARE THIS PROJECT'S DESIGNS, AND ALTHOUGH A MUCH SIMPLER ARCHITECTURE, STILL WANT TO CREATE SOME IDENTITY, REMAIN CONSISTENT WITH THE AESTHETIC OF THE HOUSE, AND OFFER SOME COVER AND COMFORT ACCESSORIES.













SYMMETRY + ASSYMMETRY

*SOMETHING TO BE AWARE OF_THE ENTRY IS A GOOD PLACE TO POINT OUT THE SYMMETRY QUESTION- WHICH IS ONE CONFRONTS US ALL THE TIME IN HOME DESIGN WORK. THERE IS A NATURAL HUMAN PULL TOWARD SYMMETRICAL SOLUTIONS. SYMMETRICAL DESIGN SOLUTIONS ARE SOMETIMES PERFECTLY APPROPRIATE, BUT NOT ALWAYS. SCHEMATICS BELOW ARE INTENDED TO MAKE THAT POINT.

*CHARACTERISTICS_SYMMETRICAL DESIGNS ARE BALANCED, MAYBE MORE PEACEFUL. 'RESOLVED' IS ANOTHER DESCRIPTOR. ASYMMETRICAL DESIGNS ARE MORE ACTIVE AND HAVE A LITTLE MORE TENSION. ASYMMETRICAL DESIGNS CERTAINLY CAN BE COMFORTABLE - WITH A BALANCED SENSE- OR THEY CAN BE PURPOSEFULLY TENSE AND UNRESOLVED. IT IS A DESIGNERS CHOICE.



SYMMETRY

*This symmetric house profile is showing a symmetrical front door assembly that suits the design.



ASYMMETRY

*This asymmetric house profile is showing an assymetric front door assembly that suits the design.

EXTERIOR ENTRY DOOR CONFIGURATIONS

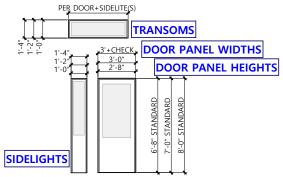
STANDARD EXTERIOR DOOR TYP NOTES

*FORMATS_ILLUSTRATIONS BELOW SHOW STANDARD FACTORY MULLED CONFIGURATIONS.THESE BASIC DOOR/SIDELIGHT/TRANSOM COMPONENTS AND ARRANGEMENTS HAVE BEEN AROUND FOREVER, AND CAN BE DETAILED TO GENEATE MANY DIFFERENT LOOKS. THESE 'NAKED' PRESENTAIONS ARE INTENDED TO HELP IN FIRST PICKING AN APPROPRIATE FORMAT.

DOOR PANEL WIDTHS_2'-6", 2'-8", 3'-0"". NOTE SINGLE FAMILY HOMES REQUIRE MIN 1 3'-0" EXIT DOOR ON AN UNOBSTRUCTED PATH OF TRAVEL IN THE HOME. THE 'FRONT DOOR IS USUALLY THAT DOOR.

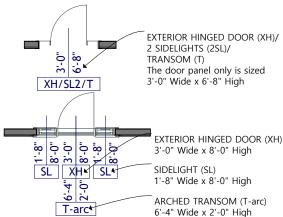
DOOR PANEL HEIGHTS_6'-8", 7'-0", 8'-0" SIDELIGHTSS_USUALLY 10", 12", 14" WIDE

TRANSOMS_USUALLY 10", 12", 16" HIGH.

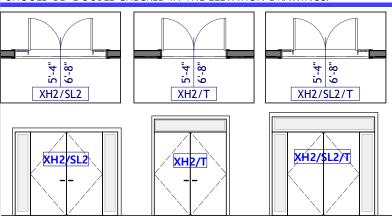


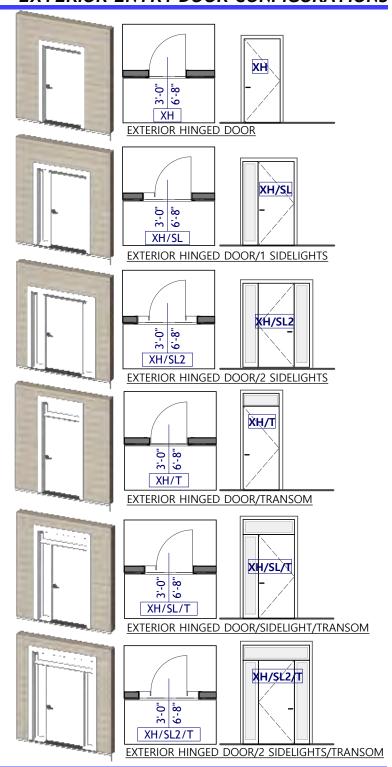
SYMBOLS USED THIS PROJECT

*MULLED DOOR ASSEMBLY_STANDARD DOOR ASSEMBLIES MAY GET ONE 'CALL OUT', AS THIS ONE DOES. THIS INDICATES A MULLED ASSEMBLY THAT IS PUT TOGETHER AT THE FACTORY AS A SINGLE UNIT.



*COMPONENT DOOR ASSEMBLY_FOR A FEW REASONS DOOR ASSEMBLIES MIGHT BE PUT TOGETHER IN THE FIELD USING SEPARATE DOOR AND WINDOW UNITS. THESE COMPONENTS WOULD BE 'CALLED OUT' SEPARATELY. ALWAYS CHECK ELEVATION FOR ASSEMBLY DESIGN CONFIMATION ASSUMING THE ELEVATIONS ARE CAREFULLY PRESENTED. *CALL OUT SYMBOLS_THERE IS NO ACCEPTED UNIFORM WAY OF DOING THIS. ALL INDICATIONS ON PLANS FOR EXTERIOR DOORS AND WINDOWS SHOULD BE DOUBLE CHECKED IN THE ELEVATION DRAWINGS.





DOUBLE ENTRY DOORS

*FUNCTION 1_HAVING A GRACIOUS WELCOMING ENTRY CAN BE A VIABLE INTENTION. AND SOMETIMES LARGER SCALE HOME NEEDS A BIG ENTRY STATEMENT TO SIMPLY GIVE IT A PRESENCE. THE DOUBLE DOOR IS (BUT) ONE WAY TO DO THAT.

*FUNCTION 2_MOVING OBJECTS IN AND OUTSIDE SOMETIMES MAY REQUIRE A LARGER DOOR ENTRY. ACCESS THRU TO FINAL DESTINATION SHOULD BE CONSIDERED. IN FACT THE STAIRS- NOT THE DOORS- ARE USUALLY THE KINK IN THE ACCESS PATH.

*CONSIDER_OPERATIONALLY DOUBLE DOORS ARE AWKWARD, CAN BE DIFFICULT TO SECURE, AND USUALLY LEAK AIR. ONCE THEY START WARPING THEY BECOME A (BIGGER) PROBLEM. A SINGLE LARGER DOOR (SAY 3'-4"Wx8'-0"H) IS AN OPTION TO SOLVE BOTH VISUAL SCALE AND ACCESS SIZE SITUATIONS WHILE NOT SHARING THOSE DOUBLE DOOR OPERATIONAL PROBLEMS.

*panels can fold in one or both directions

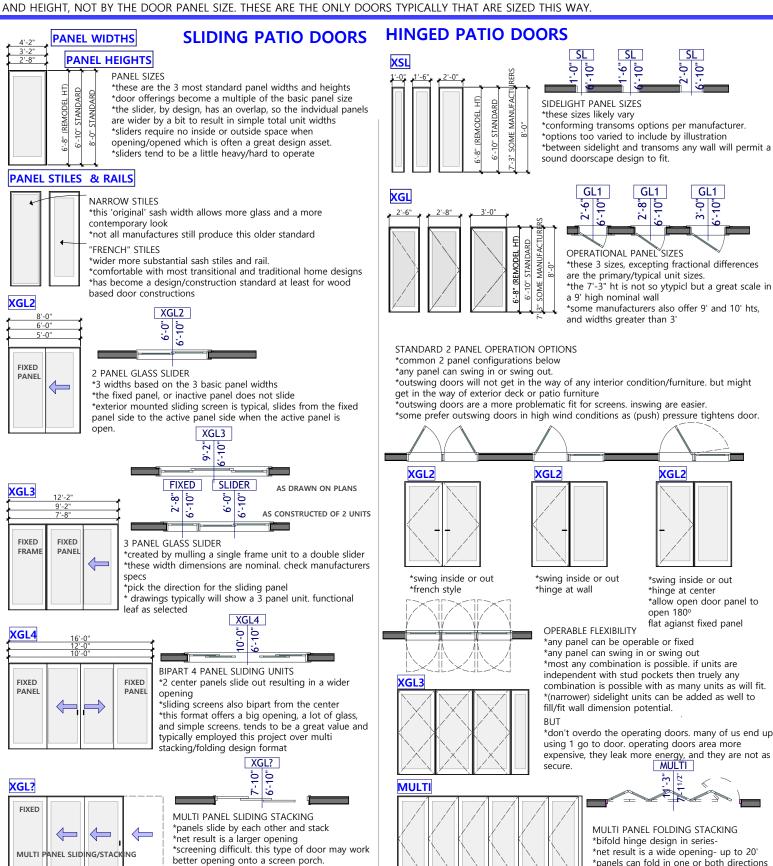
*custom construction and pricing

EXTERIOR GLASS DOORS aka PATIO UNITS

*PANELS+OPTIONS PATIO STYLE SLIDING AND HINGED DOORS ARE SIMILAR IN THAT THEY BASED ON THE GLASS DOOR PANEL SIZE, AND ARE UNIQUE IN HOW THOSE PANELS ARE PUT TOGETHER TO SOLVE A PROBLEM. SLIDING AND HINGING OPTIONS ARE CONSIDERABLE.

*SYMBOL USED THIS PROJECT XGL(#OF PANELS) IS USED UNIVERSALLY FOR SLIDING OR HINGING UNITS. OPERATION TYPE AND OPERATIONAL PANELS TO BE DETERMINED BY END USER.

*UNIT SIZES/NOT DOOR PANEL SIZES_MANUFACTURERS AND THIS PROJECT SIZE THESE PATIO DOOR TYPES BY UNIT (OUTSIDE OF FRAME) WIDTH



*consider if a really big opening is required

*heavy based on # of panels, and pricey.

WINDOW TYPES_CASEMENTS, AWNINGS, DOUBLE HUNGS, SLIDERS

CASEMENT WINDOWS

WIDTH_1'-6" UP TO 3'-0"

HEIGHT_1'-6" UP TO 6'-0"

OPERATION_WINDOW HINGES OUT FROM BOTTOM WITH A CRANK **SCREEN_**MOUNTS ON THE INSIDE AND IS EASILY REMOVEABLE

EGRESS_YES, 2'-4" X 3'-6" MIN SIZE



COMMENTS

*CASEMENTS OPEN (ALMOST) 100%, AS DO AWNING UNITS. DOUBLE HUNGS AND SLIDERS OPEN 50%. THERE IS NO MIDDLE OPERATING BAR, SO MORE GLASS+VIEW.

*GIVEN THE MANY SIZE OPTIONS THE CASEMENT IS A FLEXIBLE WINDOW TYPE

CHOICE.









SLIDING aka GLIDING WINDOWS

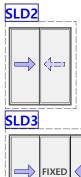
WIDTH 2'-6" UP TO 6'-0" FOR 2 PANEL UNITS

HEIGHT_2'-0" UP TO 5'-0"

OPERATION SLIDING, SLIDING BY PASS.

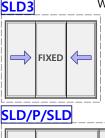
SCREEN_MOUNTS ON THE OUTSIDE

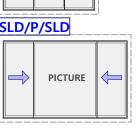
EGRESS_YES. 4'W X 4'W OR 5'W X 3'-6"H AND BIGGER UNITS COMPLY



COMMENT

CHOICE_SOME SLIDERS HAS 1 FIXED SASH AND 1 SLIDING SASH. OTHERS HAVE BOTH SLIDING SASH. THE LESS EXPENSIVE ALUMINUM AND VINYL CONSTRUCTED UNITS TEND TO HAVE 1 SLIDING SASH. THE MORE EXPENSIVE WOOD CONSTRUCTED WINDOWS TEND TO HAVE 2 SLIDING SASH.







AWNING WINDOWS

WIDTH_1'-6" UP TO 4'-6"

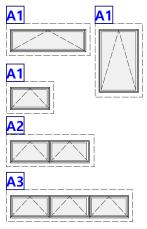
HEIGHT_1'-6" UP TO 4'-0"

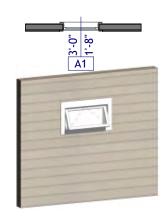
OPERATION_WINDOW HINGES OUT FROM BOTTOM WITH A CRANK **SCREEN_**MOUNTS ON THE INSIDE AND IS EASILY REMOVEABLE **EGRESS_**YES IF SILL HT IS SET BELOW 44"

COMMENT

*THE AWNING HAS LOTS OF USES. PARTICULARLY EFFECTIVE MOUNTED HIGHER ON A WALL ALLOWING FURNITURE BELOW.

*CAN BE LEFT OPEN IN LIGHT RAIN





DOUBLE HUNG WINDOWS

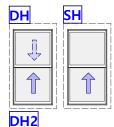
WIDTH_1'-6" UP TO 3'-6"

HEIGHT 3'-6" UP TO 6'-4"

OPERATION_BOTTOM SASH ALWAYS SLIDES UP. SEE NOTE BELOW.
SCREEN_MOUNTS ON THE OUTSIDE WHICH EFFECTS THE EXTERIOR
APPEARANCE. CHECK EXTERIOR SCREEN MANAGEMENT AND EXTERIOR
WINDOW CLEANING. EXT GLASS BEHIND A SCREEN CAN GET FILTHY OVER

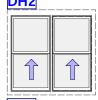
EGRESS_BECAUSE ONLY HALF THE WINDOW OPENS A 3'W X 5'H (+/_) UNIT SIZE IS NEEDED TO MEET EGRESS REQUIREMENTS.

VALUE USUALLY A LITTLE LESS EXPENSIVE THAN THE CASEMENT TYPE

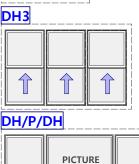


SH/DH COMMENT

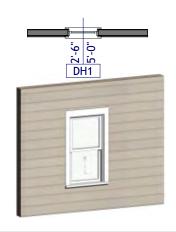
CHOICE_THE SINGLE HUNG WINDOW BOTTOM SASH ONLY SLIDES UP. THE DOUBLE HUNG ALLOWS THE BOTTOM SASH TO TO SLIDE UP AND THE TOP SASH TO SLIDE DOWN. THE DOUBLE HUNG UNITS (ONLY) MAY OFFER CLEANING EXTERIOR GLASS FROM THE INSIDE. DH DEFAULT_THESE WINDOWS ARE OTHERWISE THE SAME (SIZES).THIS PROJECT USES DH AS A DEFAULT SYMBOL. DOUBLE HUNG TENDS TO BE USED AS THE GENERIC DESCRIPTOR.



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WINDOW TYPES_PICTURE, TRANSOMS, TRAPS, PENTS, ARCHES

PICTURE WINDOWS

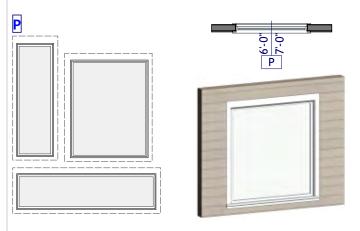
SIZE_USUALLY LIMITED BY TOTAL SQUARE FOOTAGE BETWEEN 50sf-60 sf CHECK MANUFACTURER FOR MINIMUM AND MAXIMUM WIDTHS AND HEIGHTS.

OPERATION_FIXED

SET_'SASH SET' PLACES THE GLASS IN A SASH SIMILAR TO ANY OPERATING WINDOW. THE SASH IS THE FRAME HOLDING THE GLASS. 'DIRECT SET' PLACES THE FIXED GLASS IN THE ASSEMBLY FRAME WITHOUT ANY SASH. THESE MAY BE A LITTLE LESS EXPENSIVE AND ARE 'THINNER' THERFORE ALLOWING A LITTLE MORE GLASS AREA.

INTEGRATION WITH OPERATING UNITS_MANUFACTURERS MAY HAVE PICTURE WINDOW OFFERINGS DESIGNED TO DIMENSIONALLY COORDINATE WITH THEIR CASEMENT OR DOUBLE HUNG OPERATING UNITS

VALUE PICTURE UNITS ARE USUALLY LESS EXPENSIVE PER SQUARE FT.



TRANSOM WINDOWS

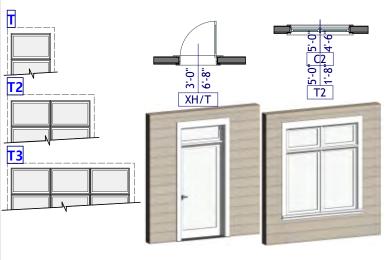
FUNCTION_TRANSOMS ARE SET ABOVE DOORS AND WINDOWS TO INCREASE VIEW AND LIGHT WHILE MAINTAINING CONVENTIONAL HT DOORS AND WINDOWS. TOTAL UNIT HTS ARE INCREASED SO CEILING HTS NECESSARILY MUST BE A BIT HIGHER-SAY 9' OR HIGHER.

SIZE_SIMILAR TO PICTURE UNITS THERE WILL BE COORDINATING WIDTHS FOR THE GLASS DOORS AND OR WINDOWS BELOW AND AVAILABLE IN 2 OR 3 HEIGHTS.

INTEGRATION_MANUFACTURERS MAY OFFER TRANSOMS FACTORY MULLED TO A DOOR OR WINDOW BELOW AS A SINGLE UNIT.

OPERATION_(USUALLY) FIXED

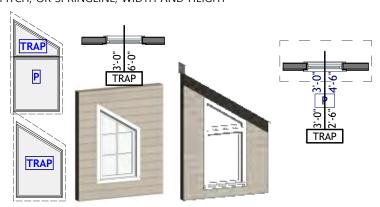
VALUE_BECAUSE OF THEIR SMALL SIZE THEY ARE PRICIER ER SQAURE FOOT THAN THE BIG PICTURE WINDOWS



SINGLES, TWINS OR TRIPLES COULD BE OVER PATIO DOORS OR CASEMENT WINDOWS

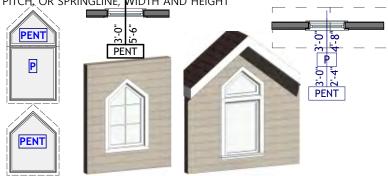
TRAPEZOID (TRAP) WINDOWS

SHAPE_ 4 SIDED. ANGLE DIMENSIONED WITH SPRINGLINE AND ROOF PITCH, OR SPRINGLINE, WIDTH AND HEIGHT



PENTAGONAL (PENT) WINDOWS-5 SIDES

SHAPE_ 5 SIDED. ANGLE DIMENSIONED WITH SPRINGLINE AND ROOF PITCH, OR SPRINGLINE, WIDTH AND HEIGHT



SEGMENTAL ARCH WINDOWS

SHAPE_SOFTER RADIUS ARCH DIMENSIONED WITH SPRINGLINE AND RADIUS,OR SPRINGLINE, WIDTH AND HEIGHT. VERY FLEXIBLE FOR DESIGNING IN DIFFERENT &ITUATIONS.



HALF CIRCLE ARCH WINDOWS

SHAPE_HALF CIRCLE. THEREFORE THE HEIGHT IS EXACTLY HALF THE WIDTH.



'SOLO' ACCENT WINDOWS

*MOST MANUFACTURERS MAKE AVAILABLE SMALLER ACCENT WINDOWS IN THE SIMPLE GEOMETRIES BELOW. THESE FIND A HOME IN ROOF GABLES, IN SMALL SPACES SUCH AS BATHS, AND IN FOYER CONFIGURATIONS. SOME ARE AVAILABLE AS OPERATING UNITS, AND SOME OFFER DECORATIVE GLASS OPTIONS.



OTHER WINDOWS TYPES







MULTI

- *Small rectangular units adjacent to each other in groups, shapes, vertical or horizontal runs.
- *These can be comprised of casement, awning, or fixed 'direct set' units.
- *When properly inegrated in a design these can be very effective

CASEMENT VARIATIONS

*These single and twin operating casements with arc heads are interesting but have trouble integrating so one needs to be careful where they are placed.

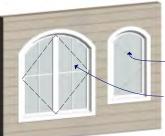
*This arc head windows need to be seen in context with an entire elevation to guage suitability.

DOULE HUNG VARIATIONS

*The 'cottage style' is asymmetrical with shorter sash on top. This proportion offers a subtle interest and looks great when mulled 2 or 3 across.

*Arch and arc heads also are interesting but have trouble integrating with other windows so one needs to be careful where thay are placed.

*arc head double hung

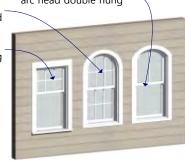


arch (half circle) head double hung

*cottage style double hung

*operating arc head casement

*operating arc head twin casement- sometimes called a french casement

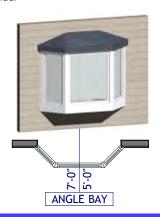


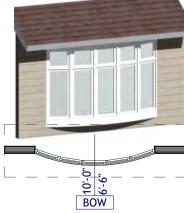
BAY AND BOW

- *3 traditional geometries for 'projected' windows which can be factory manufatured or field built.
- *Casement, fixed, and double hung units are available for incorporation.
- *Small roofs or tucking the projection under a cantilever floor or house roof are options.

*These can be exterior features, perhaps more important is how a projected window can open and make more interesting the space from the inside.









GB_Glass Block or Acrylic Block

*Glass block is the generic reference. Real glass block is an option. Acrylic block is a more economical and flexible option

*Window sizes based on 6" or 8"block module and available in any multiple both horizontally and vertically.

*Example 8-8" block wide=64"+2" for frame, 2-8" block high=16"+2" for frame. Unit size is 66"x18"h or 5'-6"x1'-6".

*Their vinyl frames allow them use in wet conditons like showers.

*Also available in operable units. See hy-lite.com



SOME DOOR AND WINDOW MULLED COMBINATIONS

STANDARD CONFIGURATIONS-MISC OBSERVATIONS

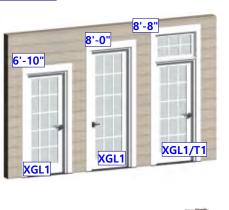
*INDUSTRY OPTIONS_AS AMERICAN CONSUMERS WE ARE USED TO HAVING TOO MANY OPTIONS AND CERTAINLY THIS IS TRUE IN THE DOOR AND WINDOW INDUSTRY. THE MANY OPTIONS TRANSLATES INTO MORE INVESTIGATION AND MORE PATIENCE REQUIRED. (d11.12) THE NEXT PAGE OUTLINES SOME OF THE DETAIL DECISIONS INVOLVED. THIS PAGE IS PRESENTING MORE BASIC DESIGN THINKING ABOUT WINDOW ASSEMBLY OPTIONS AVAILABLE BY COMBINING WINDOW AND DOOR COMPONENTS AND GRILL OPTIONS.

*NATIONAL GIANTS+REGIONAL MANUFACTURERS _DOORS FEEL MORE SUBSTANTIAL, OPERATE MORE SMOOTHLY, AND BLOCK NOISE MORE EFFECTIVELY WHEN THEY HAVE SOME WEIGHT TO THEM. THEY ALSO REQUIRE A BETTER HARDWARE, AND WILL RATTLE THE HOUSE IF THEY ARE SLAMMED.

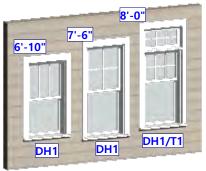


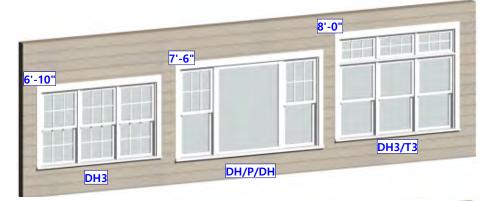
PRETTY STANDARD ASSEMBLIES

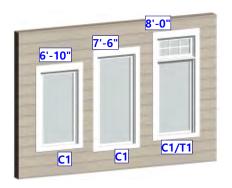
*The mulled combinations shown this page are actually standard and available thru many manufacturers. They are using the 'call' nomenclature unique to this project. So don't expect a vendor to know what a XH/2SL/T is. Long winded decsriptions just don't fit on drawings very well. So this is another reminder that 3d images like these, and 2d elevation drawings, are needed to truely describe window assemblies. Standard size single windows dont need the same attention but the 3 door designs at left make it clear that the one call symbol can't descibe the design with the 3d or elevation images.

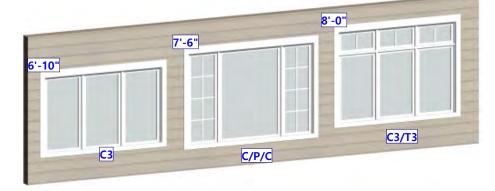






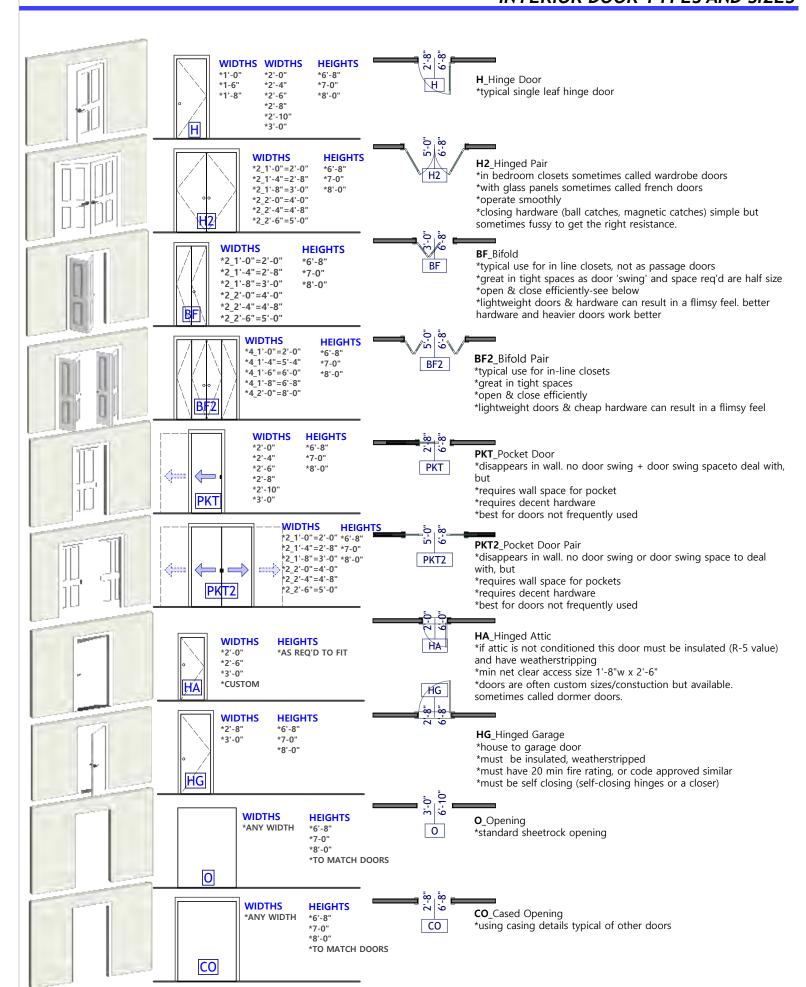






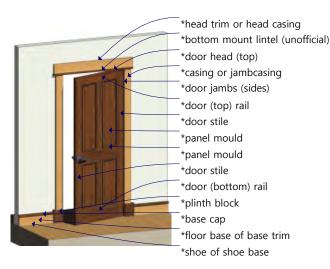
BASE COMPONENTS+HEAD HTS

MULLED TRIPLE ASSEMBLIES+HEAD HTS



DOOR ASSEMBLY PARTS

*COMMON TERMS FOR DOOR AND DOOR CASING PARTS



CASING THOUGHTS

*PRE-HUNG_GENERALLY ACCEPTED THAT BUYING A DOOR PRE-HUNG IS SMART. MACHINING IS DONE.

*CASING BELOW OUTLINES SOME THOUGHTS ON CASING.





COMMODITY PRE-HUNG DOOR KIT

*pre-hung door in frame with casing fixed 1 side *pre-cut loose casing for the other side *casing typical 5/8" x 2 1/4" which is a

*closing hardware fussy



PRE-HUNG DOOR-NO CASING

*pre-hung (only) door without casing *and shows without any floor base *note the floor base and the casing necessarily butt into each other so detail needs consideration



PRE-HUNG DOOR-CUSTOM CASING

*pre-hung (only) door without casing *flat stock casing and floor base match thickness and can be any width *shows a wood door in a painted trim environment which always highlights the door





PRE-HUNG DOOR-CUSTOM CASING

*pre-hung (only) door without casing *casing and floor base showing a highlight trim *avoids sometimes difficult mitres at door head *note 'plinth block' at floor that allows different trim conditions to 'kill'.

INTERIOR DOOR CHOICES

*ANOTHER HUGE INDUSTRY_HAS AN INCREDIBLE NUMBER OF CHOICES FOR CONSUMERS. MANUFACTURERS SEARCH ENDLESSLY HOW TO OFFER A SALEABLE GOOD LOOK AT A LOWER MANUFACTURING COST. THIS RESULTS IN LOTS OF SUBTLE MANUFACTURING DISTINCTIONS. SEE MANUFACTURERS WEB SITES (MASONITE CORP IS A GOOD LOOK SITE).

*DOOR PANEL CONSTRUCTION_AGAIN MANY CHOICES. GENERIC DESCRIPTORS ARE HOLLOW, SEMI SOLID, AND SOLID. MANY TO MOST USE SOME FORM OF COMPOSITE WOOD (WOOD CHIPS AND GLUE). REAL WOOD DOORS AVAILABLE AND BEAUTIFUL AND FAIRLY COSTLY.

*APPEARANCE_SELECT DOORS YOU LIKE TO LOOK AT.

*WEIGHT DOORS FEEL MORE SUBSTANTIAL, OPERATE MORE SMOOTHLY, AND BLOCK NOISE MORE EFFECTIVELY WHEN THEY HAVE SOME WEIGHT TO THEM. THEY ALSO REQUIRE A BETTER HARDWARE, AND WILL RATTLE THE HOUSE IF THEY ARE SLAMMED.

*INSTALLATION TEST WHEN HINGED DOORS ARE INSTALLED THEY SHOULD OPEN AND CLOSE SMOOTHLY- AND NOT OPEN OR CLOSE BY THEMSELVES. IF THEY PASS THIS TEST THEY SHOULD BE TROUBLE FREE. EVEN THE CHEAP DOORS ARE SANDWICH CONSTRUCTED WITH THOSE COMPOSITE MATERIALS TO PRECLUDE WARPAGE.

DOOR+PANEL TYPES

*PRE-HUNG GENERALLY ACCEPTED THAT BUYING A DOOR PRE-HUNG IS SMART. MACHINING IS DONE.

*CASING_BELOW OUTLINES SOME THOUGHTS ON CASING.





FLUSH

*the term for a flat door is 'flush'

*available in a very inexpensive hollow core prehung format up to a highly specified architectural exotic wood veneer.

*also in 'flush steel', or 'flush fibeglass' constructions

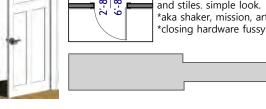




FLAT PANEL

*the flat panel is flat with square edge meeting rails and stiles, simple look.

*aka shaker, mission, arts+crafts, craftman.





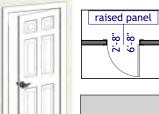


MOULDED PANEL

*a projected moulding connects the panel to the rail and stile. the moulding may be simple (as in the 3d image) or complex and deep.

*a rich, elaborate door can be created not possible with the other panel types.

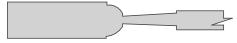






*the panel itself has a champfered perimeter that slots into the rails and stiles.

*initially the raised panel format was necessary for a door assembly that could harmlessly move and shift a little, anf this has been handed down as a design staple of traditional designs.



DOOR STYLES

*A CROSS SECTION OF DESIGNS SHOWING IN PAINT GRADE



6 PANEL_ *probably the most common American door panel. Colonial heritage.



PROJECT DEFAULT_ *neutral design works in any transitional design



FLAT PANEL_ *craftsman style-non moulded panel *several panel designs and door constructions



GLASS DOORS_ *15 lite glass *narrower doors may be 2 lites across *8' high doors may be 6 lites high



MID CENTURY_ *1 panel shown *4+5 horizontal panel designs available



CONTEMPORARY_ *door design series by masonite corp *value priced, contemporary look

DOOR STYLES

*A CROSS SECTION OF DESIGNS SHOWING IN WOOD



TRADITIONAL_ *4 panels showing with moulded panels



PROJECT DEFAULT_ *the 4 panel neutral design showing in wood



GLASS DOORS *15 lite with arch head *cheaper way to get an arch than the full door



GLASS DOORS *prairie style glazing *very available



MID CENTURY_ *2 panel showing with moulded panels



CONTEMPORARY *the simple flush door *lots of veneer woods are available.

ARCHED HEADS

*CHECK RESOURCES/AVAILABILITY OR ARCH HEAD TRIMS BEFORE



SINGLE_ *15 lite glass *other



+TRANSOM

design.

*a different way to

introduce an arch

HINGED PAIR_ *or 'french door' with 6 lite glass panel



HINGED PAIR +TRANSOM *the segmental arch allows one to control the radius and therfore the height



ARCHED CASED OPENING *something special about the arch



ANYTHING GOES_ *get inventive with shape. *easier execution w/o trims

RECTANGULAR HEADS

*OTHER RECTANGULAR DOORS AND OPENINGS



OBSCURE GLASS *light and privacy offered. many glass choices



HINGED PAIR +TRANSOM *transom gives the door more presence



HINGED PAIR +TRANSOM *glass transom for light *solid doors for privacy



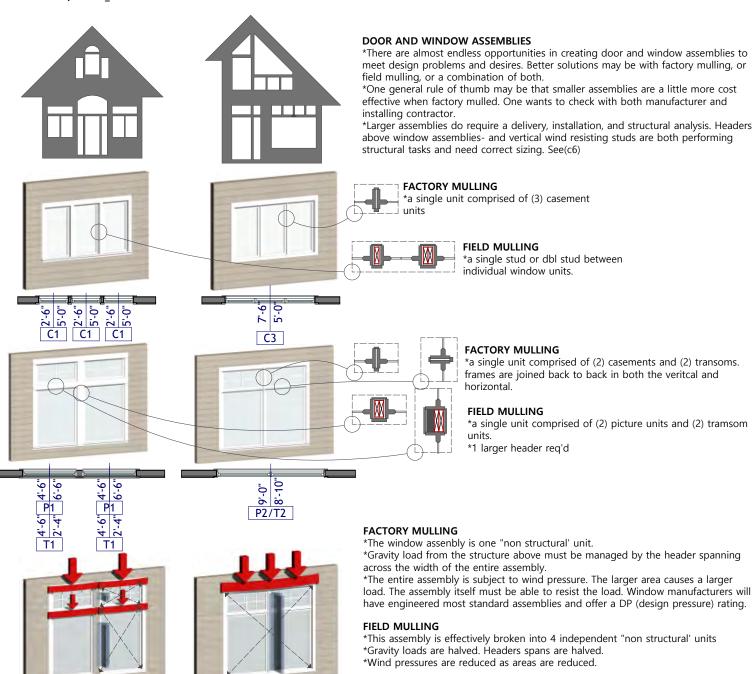
OPENING W/TRANSOM *this painted transom is a traditional detail



ANYTHING GOES *the rectanglar opening is easy to field frame and trim out

FACTORY+FIELD MULLING

- *FACTORY_UNIT FRAMES ARE FIXED TO UNIT FRAMES AND SHIPPED AS 1 PIECE UNITS.
- *FIELD_UNITS ARE SHIPPED INDEPENDENTLY AND INSTALLED INDEPENDENTLY. VERTICAL STUDS, AND HORIZONTAL HEADERS ARE PART OF THE FIELD FRAMING SO EACH OPENING FOR EACH UNIT IS PRE-PREPARED.
- *SIZE AND WEIGHT_SHIPPING SIZE AND INSTALLATION WEIGHT CAN LIMIT FACTORY MULLING. SALES REPRESENTATIVES NEED TO CHECK.
- *STRUCTURE/WIND_MULLED UNITS CAN EXCEED WIND RESISTANCE CAPACITY. SALES REPRESENTATIVES NEED TO CHECK.



NOTE

*This illustration does not/cannot consider the bigger (structural) picture. Accept this as a principle to consider.

HEADER+WALL PLATES HEADER-WALL PLATES HEADER

STANDARD NOMINAL FLAT CEILING HEIGHTS

REQUIRED CEILING HEIGHT FOR TRANSOMS

- *8' ceilings do not readily support transoms. Door and window heads can be pushed to nominal 7' for a taller door and more glass.
- *9' ceilings will support standard transoms.
- *10' ceilings (not typical this project) allow a lot more transom
- *illustrations show typical header construction. Other options exist to enable raising door and window heads closer to the ceiling.

COMPONENTS_doors+windows d11.12

CHOICES-CONSTRUCTION/GLASS/EXTERIOR COLOR/GRILLS/INTERIOR FINISH

CONSTRUCTION OPTIONS

*MANY CHOICES OUT THERE FOR THE BASE CONSTRUCTION. PROS, CONS, PRICE POINTS ARE DIFFERENT. THIS OFTEN A FIRST AND MOST IMPORTANT DECISION.



EXTRUDED PVC aka SOLID VINYL

*a less expensive and serviceable non rot/low maintenance option in (usually) white and almond colors



EXTRUDED ALUMINUM

*a less expensive and serviceable non rot/low maintenance option. anodized colors options



EXTRUDED FIBERGLASS

*tough, strong construction. Marvin Integrity series brought this construction to market



ALUMINUM CLAD WOOD

*common construction. maintenance free prefinished alum cladding outside and wood inside.



VINYL CLAD WOOD

*andersen brought this to big market with vinyl frame exteriors and full sash wrap (outside and inside).



PRIMED WOOD

*primed coat ready for field finish coat(s) of consumer selected paint. some exterior wood might be non rot. least expensive of the wood windows



FACTORY PAINTED WOOD

*alternative to the alum+vinyl clad wood windows. the factory paint options offera huge range of colors and serious warranties.



SERIOUS (real) WOOD

*a few options exist for sophisticated and expensive solid non rot wood windows.



WOOD

*these windows likely comprised of soft woods, composte woods, pvc composites, rigid foam, and specifially designed metal extrusions

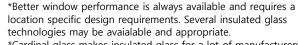
GLAZING OPTIONS

*MOSTLY GOOD OPTIONS. THIS IS A SITUATION FOR US ALL TO THANK CODE REQUIREMENTS



INSULATED GLAZING

*Give a heary thanks to code required energy standards that have all manufacturers complying and therefore insuring that any window on the market will be a decent energy compliant window.



*Cardinal glass makes insulated glass for a lot of manufacturers. Visit their web site to learn about insulated glass options.



*Obscure glass designs usually employed for privacy in entry areas or bathrooms may be available as an integral part of the insulated pane. Great solution in some situations.

*More decorative (eg stained glass) patterns may also be available. Entry door assemblies frequently offer this option. Andersen offers a removeable stain glass panel for their casement windows. And custom stain glass can be fitted in a number of ways.



*THE BETTER EXTERIOR FINISH IS PERMANENT. SO PICK A COLOR THAT WORKS AND YOU WON'T TIRE OF.



*The available colors in the alum and vinyl claded windows are decent. The color selections in the factory painted options are extensive. A permanent exterior finish is important and a major factor in limiting maintenance. Smart money invests in good windows a permanent exterior finish.

GRILL OPTIONS

*GRILLS IN WINDOWS ORIGINALLY WERE REQUIRED BECAUSE OF GLASS SIZE RESTRICTIONS. GLASS IN NO LONGER A LIMITING FACTOR. GRILLS REMAIN POPULAR BECAUSE OF THE POWER OF TRADITION- AND THEY ADD 'SCALE' TO DESIGNS WHICH IS VERY OFTEN DESIREABLE. THE 4 DIFFERENT TYPES HAVE DIFFERENT LOOKS, DIFFERENT MAINTENANCE RAMIFICATIONS AND VERY DIFFERENT PRICE POINTS. CHECK THEM OUT.



GRILL BETWEEN GLASS aka GBG



INTERIOR GRILL



SIMULATED DIVIDED LITE



TRUE DIVIDED LITE





WINDOW/NO CASING

*Some aluminim and pvc windows have a 3"+/- frame depth and sit inside the interior wall plane

*Sheetrock is 'returned' into the window at the head and jambs. *Usually a more 'durable' sill is installed- painted, natural wood, or a solid surface of some kind.



INTERIOR FINISH OPTIONS

*THE 5 GENERIC OPTIONS BELOW EACH HAVE A 'LOOK' TO THEM. A PREFERRED LOOK WILL DRIVE OTHER WINDOW DECISIONS SO THIS APPEARANCE DECISION IS IMPORTANT. THE TERMS PAINTED AND WOOD BELOW ARE BEING USED TO DESCRIBE A SOLID COLOR, OR A NATURAL WOOD APPEARANCE.

*THE WINDOW/NO CASING OPTION IS A BUDGET DRIVEN CHOICE AS BOTH WINDOW TYPES AND TRIM OUT ARE LESS EXPENSIVE. THE WOOD WINDOW/WOOD TRIM IS THE MORE EXPENSIVE. STAIN GRADE





*PAINTED WINDOW

WOODS ARE CONSIDERABLY PRICIER THAN A PAINT GRADE PRODUCT.



