



Stile and Rail Door Designs

Stile and Rail Sections

I-1

Machining and Joinery

I-2

Wood Stile and Rail Doors

I-3

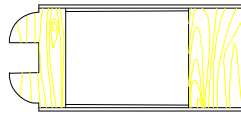
Stile and Rail Series Designs

I-4 to I-8

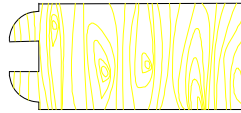
Materials and Workmanship

I-9 to I-10

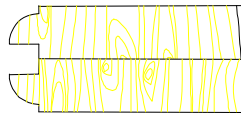
STANDARD STILE + RAIL SECTIONS



SCL (FOR INTERIOR USE ONLY), VENEERED WITH CROSSBAND



SOLID LUMBER



2-PLY SOLID LUMBER

STANDARD PANEL SETIONS



RAISED VENEER PANEL ALT.



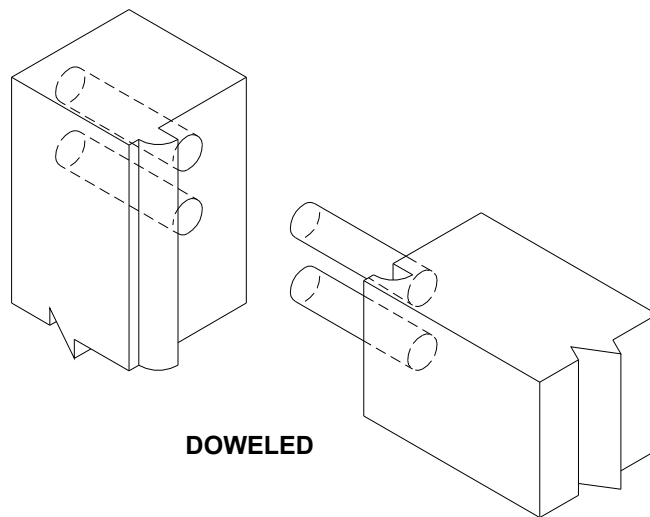
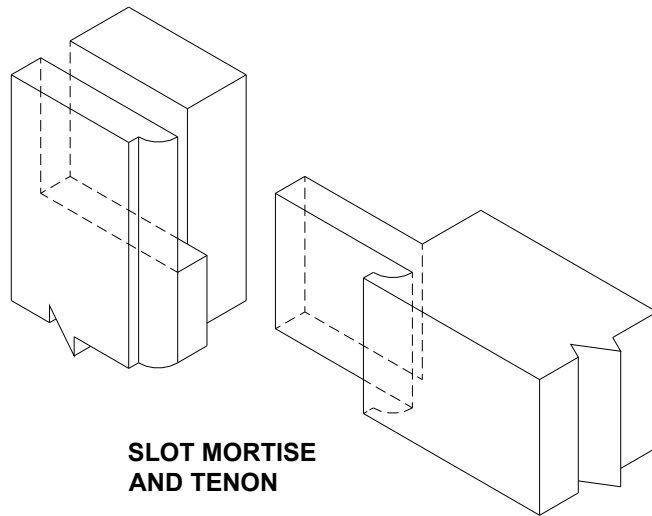
PANEL PRODUCT, FLAT PANEL

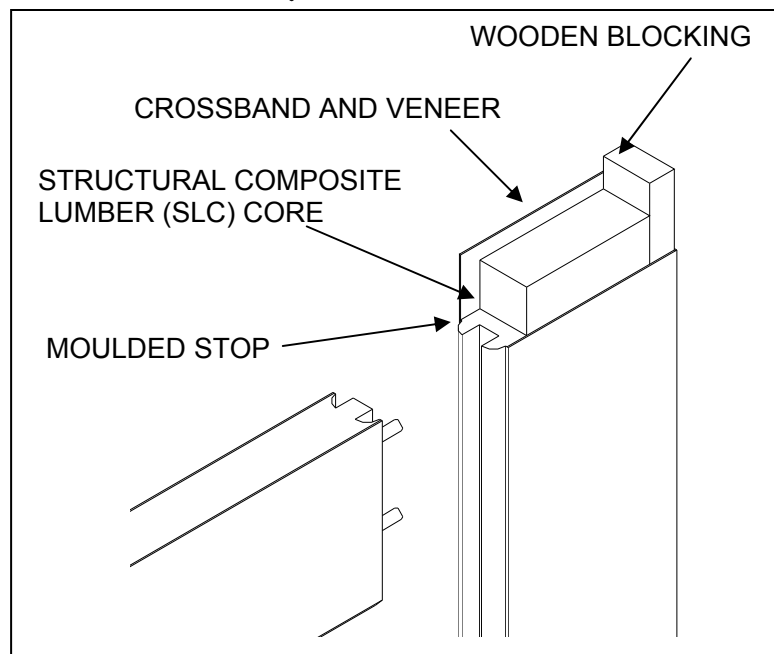
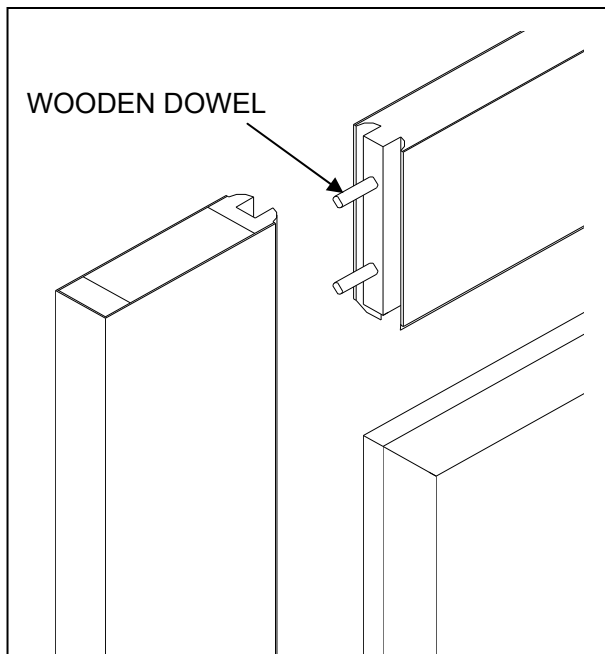
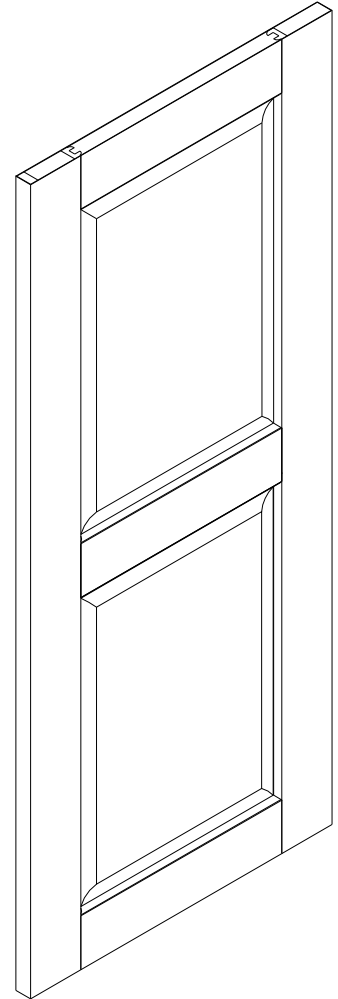
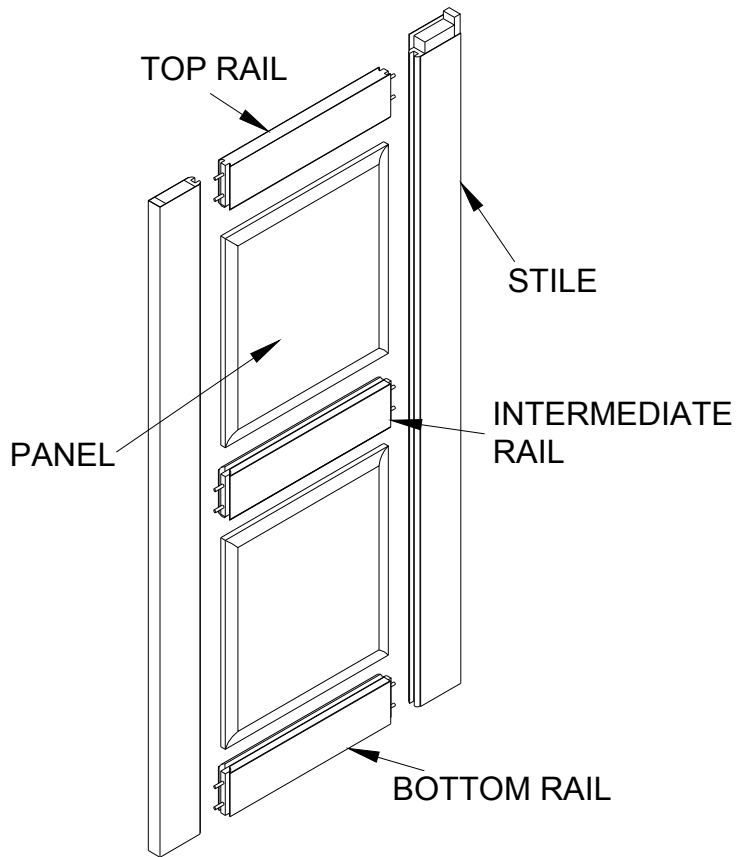


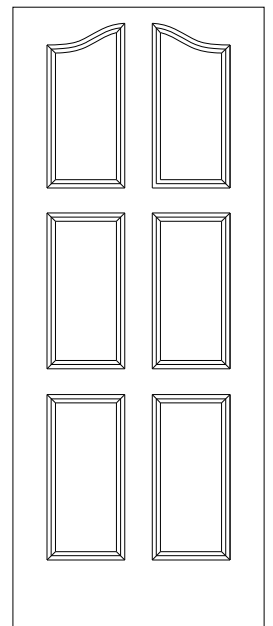
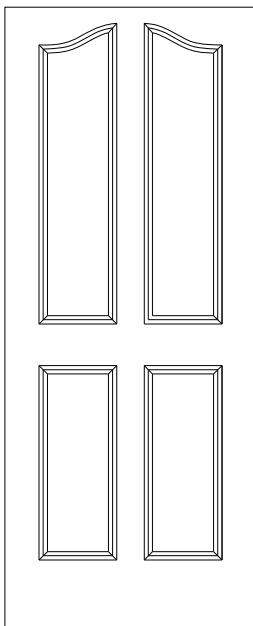
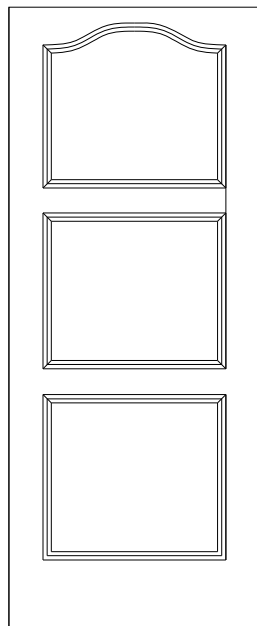
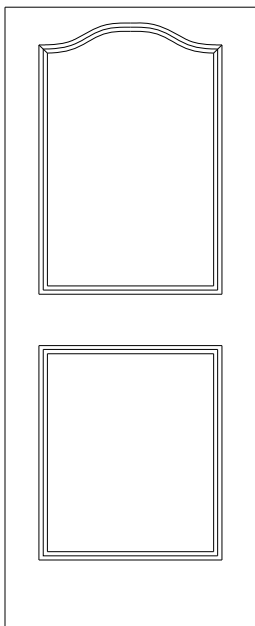
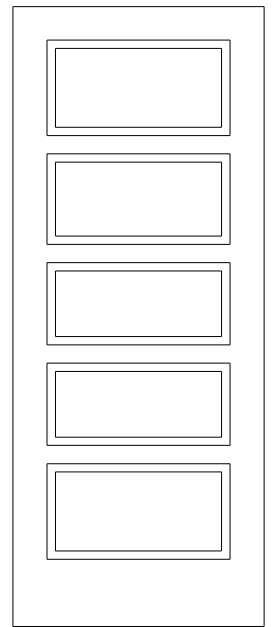
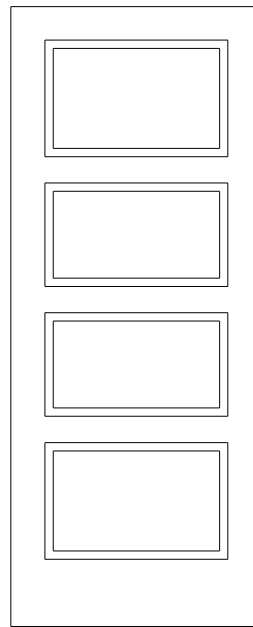
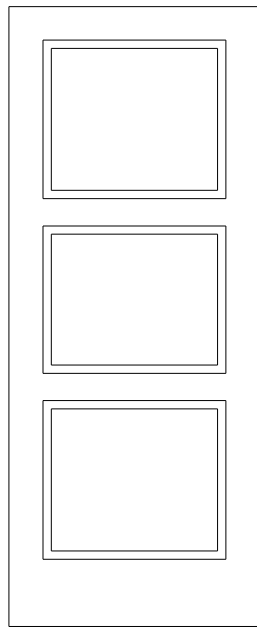
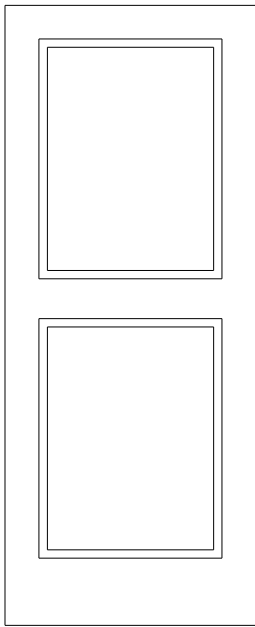
SOLID RAISED PANEL

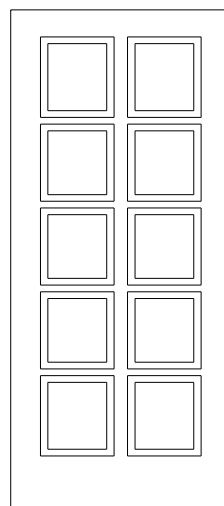
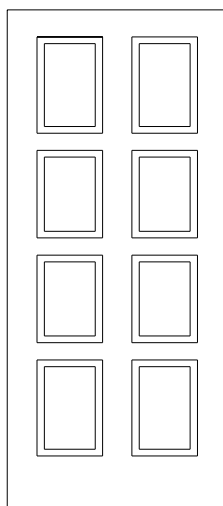
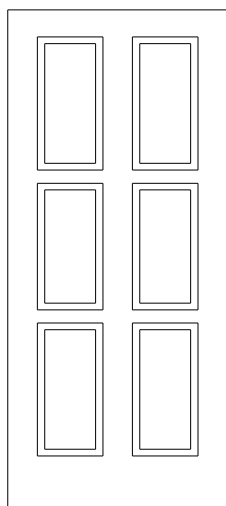
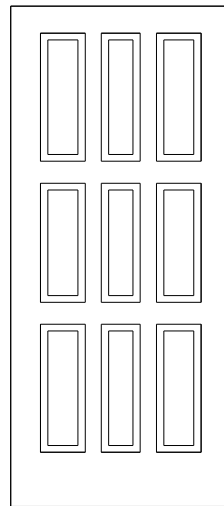
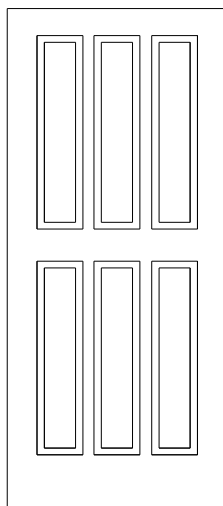
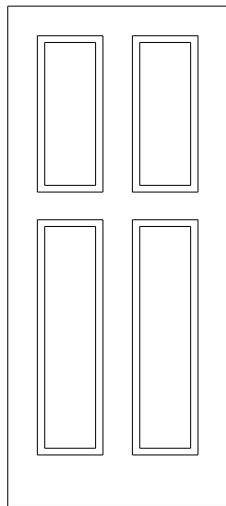
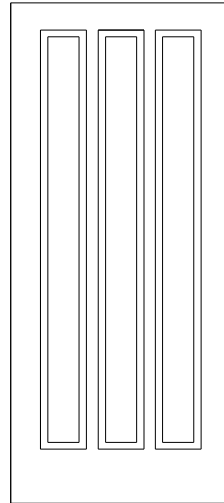
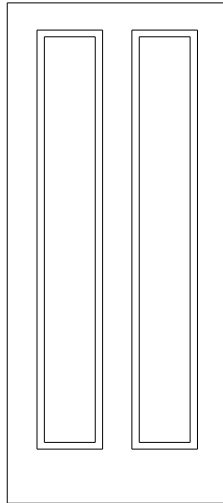
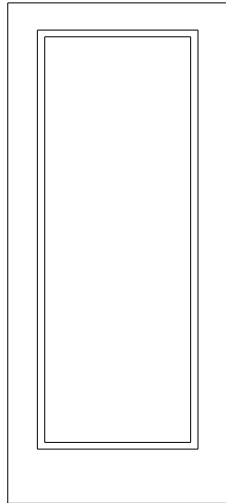


3-PLY LUMBER RAISED PANEL

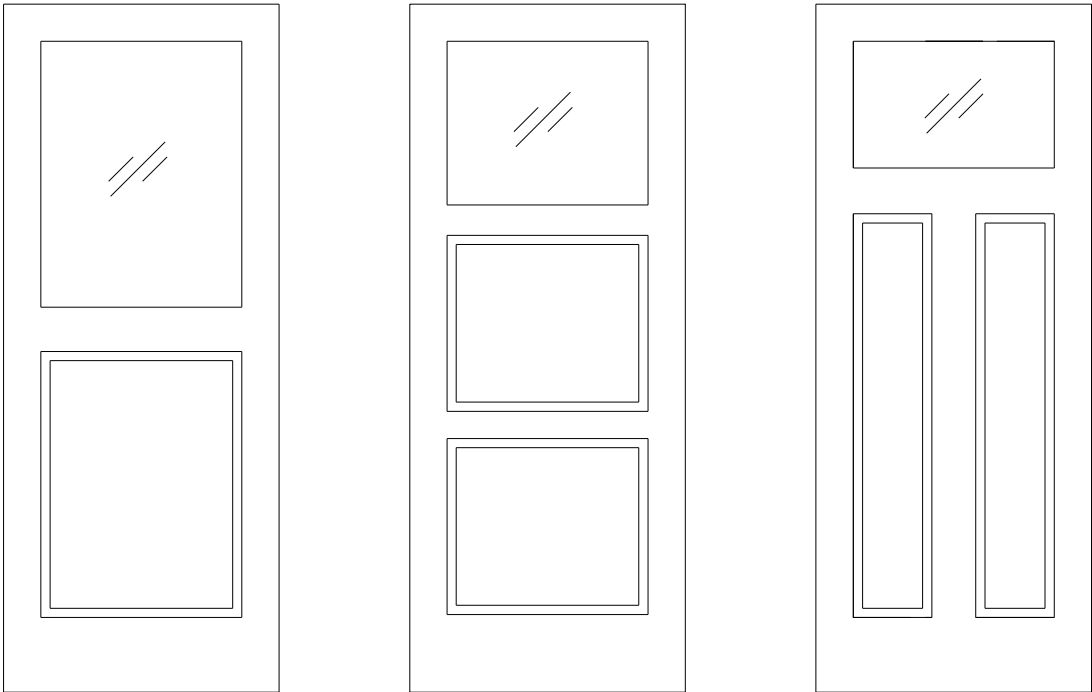




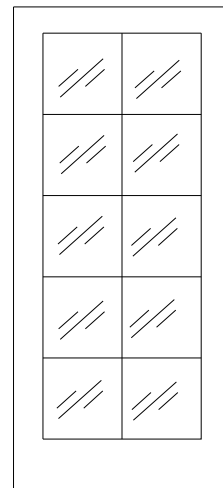
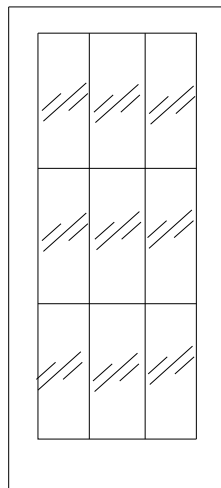
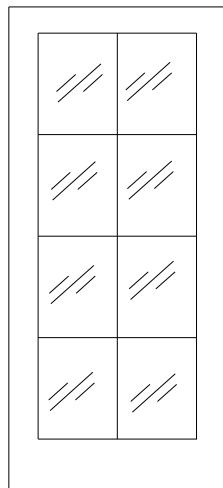
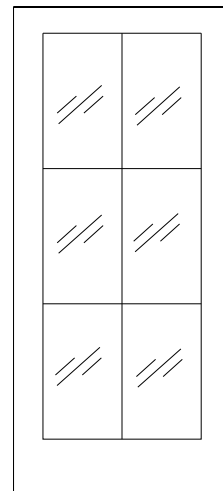
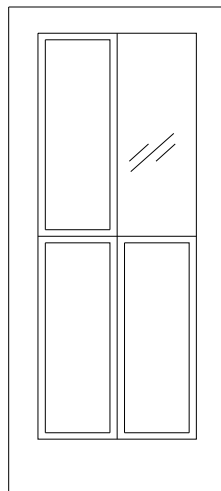
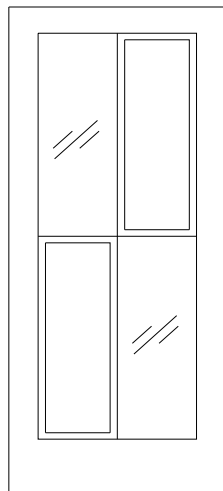
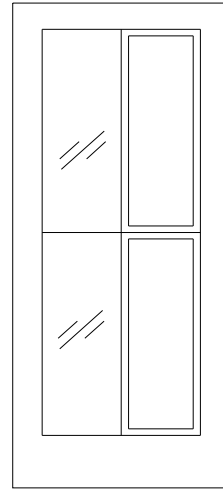
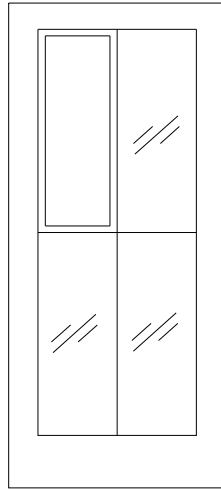
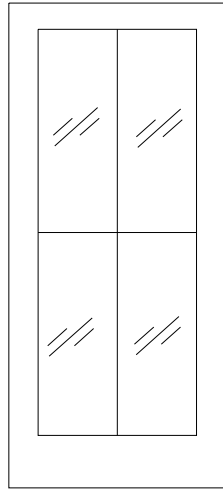




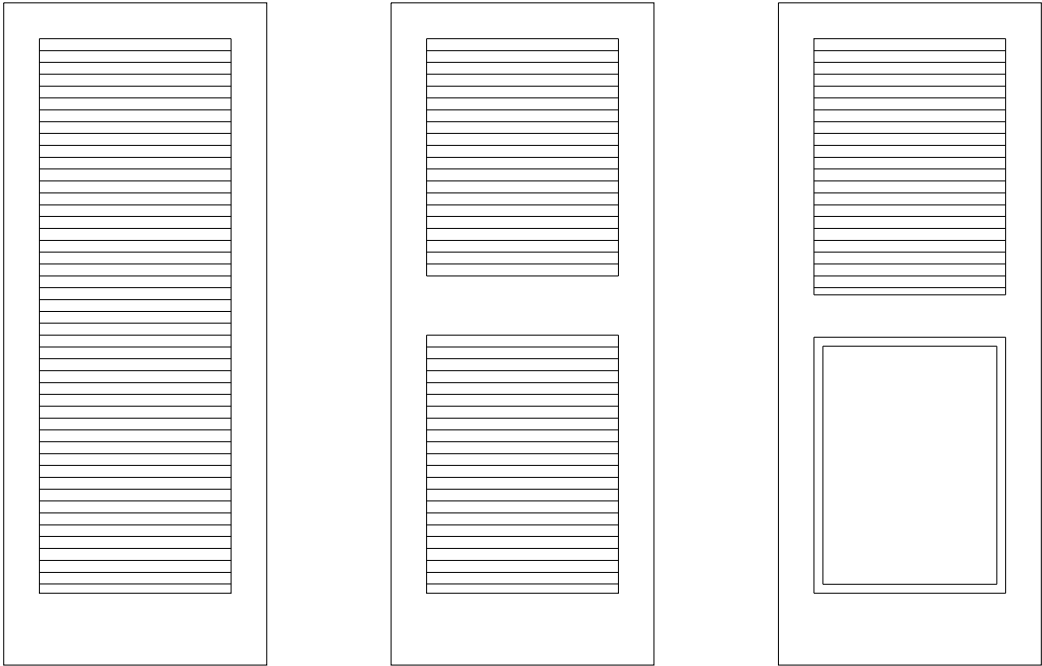
Wood Panel and Lite Combinations



French Panel Designs



Louvered Doors



Materials	Premium		Custom		Economy	
	Transparent	Opaque	Transparent	Opaque	Transparent	Opaque
Solid Lumber						
Stiles, Rails, Mullions and Applied Mouldings	I Well matched for grain and colour between veneer and lumber	II	II Compatible for colour between veneer and lumber	II	II With no selection for grain or colour	II
Flat Panels	Not permitted, panel product required		II Permitted for panels less than 350mm (13-3/4") across the grain		II Permitted for panels in any dimension	
Raised Panels	I Used to rim panel product centers	II Used to rim panel product centers	II Used to rim panel product centers and permitted for panels less than 350mm (13-3/4") across the grain			
It is recommended all exterior wood elements be treated with a wood preservative in accordance with Section 100 of AWI standards. Due to environmental considerations, not all manufacturers can treat wood products at their plant.						
Panel Products						
Core for veneered stiles, rails and mullions	Low density lumber or SCL (MDF by specification)		Low density lumber, SCL or MDF		Mill Option	
Core for veneered flat and raised panels	Particleboard or fiberboard (veneer core only by direct specification)		Particleboard or fiberboard (veneer core only by direct specification)	Particleboard or fiberboard recommended (veneer core permitted)	Particleboard or fiberboard recommended (veneer core permitted)	Particleboard, fiberboard or veneer core
Face veneer grade for transparent finish and material for opaque finish	"AA" face well matched for grain and color between veneer and lumber	"B" veneer, plain fiberboard or MDO	"A" face compatible for colour between veneer and lumber	"B" veneer, plain fiberboard or MDO	"B" face veneer	"B" veneer, plain fiberboard or MDO
Minimum Assembly Thickness (up to 1067mm (3'-6") wide and/or 2440mm (8'-0") tall)						
Veneered stiles and rails	44mm (1-3/4")		35mm (1-3/8")		35mm (1-3/8")	
Flat panels	9.5mm (3/8")		9.5mm (3/8")		6.4mm (1/4")	
Raised panels	19mm (3/4")		19mm (3/4")		12.7 (1/2")	
<p>Note: 1) Wood has natural markings and characteristics which will enhance the beauty and value of any project. However, these natural characteristics may, when seen in final product not fulfill the design professional's intent. Therefore, it is the responsibility of the design professional to review the allowable criteria for these characteristics, in Section 100 of the AWI standard, to insure that material being specified will meet the project requirements. 2) Veneer slicing produces "tight" and "loose" face on each flitch of veneer. Book matching of some species accentuates this condition, reflecting light differently in adjacent flitches and even causing differences in absorption of stain. Consult Section 200, of the AWI standard, or your local woodwork manufacturer, when specifying veneer panels.</p>						

Taken from AWI/AWMAC – 8th Edition Quality Standards

Workmanship	Premium		Custom		Economy	
	Transparent	Opaque	Transparent	Opaque	Transparent	Opaque
Cut of Lumber	Plain Sawn	Plain Sawn	Plain Saw	Plain Sawn	Mill Option	
Cut of Veneer	Plain Sliced	Mill Option	Plain Sliced	Mill Option		
Matching Considerations						
Stile and Rail Orientation	Top, cross, & bottom rails shall run between the vertical stiles. Mullions shall rub between horizontal rails, For transparent finish, components shall be well matched for grain and colour, member-to-member. No selection required for opaque finish.				Mill Option	
Veneer match between adjacent leaves on a single panel face	Book Match	Mill Option	Book Match	Mill Option	Mill Option	
Note on Special Matching: Book Match and End Match or Slip Match and End Match, or Special Faces must be specified and detailed in the architectural drawings. Consult an AWI/AWMAC manufacturer for design solutions.						
Veneer match within each panel face	Center and Balance	Mill Option	Running	Mill Option	Mill Option	
Veneer sequence between adjacent panels (blueprint match available)	Sequence match side to side and continuous vertically	Mill Option	Selected for compatibility of grain and colour	Mill Option	Mill Option	
Veneered panel sequence between doors (blueprint match available)	Selected for compatibility of colour	Mill Option	Selected for compatibility in general appearance	Mill Option	Mill Option	
Solid Lumber Panel	Not Permitted		Selected for compatibility of color (transparent finish only)		Mill Option	
Fiberboard or MDO panel	Permitted for opaque finish or core under veneer in any Grade					
Minimum Thicknesses for 35mm (1-3/8") Thick Door						
Flat Panels	9.5mm (3/8")		9.5mm (3/8")		6.4mm (1/4")	
Raised Panels	19mm (3/4")		19mm (3/4")		12.7mm (1/2")	
Minimum Thicknesses for 44mm (1-3/4") Thick Door						
Flat Panels	12.7mm (1/2")		12.7mm (1/2")		12.7mm (1/2")	
Raised Panels	28.6mm (1-1/8")		28.6mm (1-1/8")		28.6mm (1-1/8")	
Minimum Thicknesses for 57mm (2-1/4") Thick Door						
Flat Panels	19mm (3/4")		19mm (3/4")		19mm (3/4")	
Raised Panels	38mm (1-1/2")		38mm (1-1/2")		38mm (1-1/2")	
NOTE: Panel Products for exterior doors must have type I assemblies.						

Taken from AWI/AWMAC – 8th Edition Quality Standards