





# Vancouver Door Company

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Our manufacturing plant is located just south of Seattle, Washington in the Puyallup valley.



Vancouver Door Company is certified as a women's business enterprise by the Women's Business Enterprise National Council (WBENC), the nation's largest third party certifier of the businesses owned and operated by women in the US.

We recognize the commitment to supplier diversity that is embraced by corporations and government agencies today and we can add diversity to your supply chain.

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**Our research and development team has a fresh perspective that fuels our continued growth with exciting new products for all your projects including custom homes.**

## SIZES

### Single Doors:

Up to 4'x10' (1218mm x 3048mm)

### Pairs:

Up to 8'x10' (2436mm x 3048mm)

See pages 17, 18, and 19 for fire door sizes and specifications.

### Oversize / Barn / Sliding Doors - 6'w x 12'h max.

If width or height exceeds these dimensions call our sales staff.

## QUALITY STANDARDS

Our doors meet or exceed the following standards for grades and performance levels:

WDMA I.S. 1-A 11

AWS Quality Standards, Edition 1 2009, adopted by AWI,

WI & AWMAC, Section #9

## GREEN/ENVIRONMENTAL ISSUES

For **LEED** credit information and product compliance refer to the matrix on page 38.

As the LEED program continues to evolve we make the necessary adjustments to ensure that our products are in compliance.

## WARRANTY

All doors manufactured by Vancouver Door Company Inc. are warranted to be of good material and workmanship and free from defects which render them unserviceable for the ordinary uses for which they are recommended.

For warranty duration refer to the specific core selection on pages 13-19, and 21-24 or request a copy of our warranty.

Vancouver Door Company's commitment is to our customers. Our expert personnel and communication ensures you that your project will be handled professionally.

A consultant will work with you to select the doors for your specific needs. You can depend on us.

**Call 1-800-999-3667**

**Front Cover: Images are from the Gemini Inlay Series IL-1, IL-6, IL-7, Scorpio Sketch Face Series SK-4, Vision Lites VL-6, VL-8 and Aquarius Quirks QK-1, QK-6.**

## Aries Applied Moulding Series



AP-7



AP-5



AP-6



AP-2



AP-8



AP-10



AP-11



## Gemini Inlay Series and Scorpio Sketch Face Series



IL-5



IL-1



IL-3



IL-6



SK-1



SK-2



SK-3



SK-4

## Aquarius Quirks and Vision Lites Series



QK-1



QK-6



QK-5



QK-7



VL-1



VL-3



VL-4



VL-5

Vision Lites Series and Color Matching Samples



VL-6



VL-7



VL-12



VL-11



PS- Red Oak



PS- White Maple



PS- White Maple



PS- Red Oak



PS- Red Oak



PS Cherry



PS Red Oak



PS Red Oak



Rotary Natural  
Birch



PS Red Oak

## Face Selection

### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

There are a multitude of choices when it comes to selecting the face of a door to address the aesthetics desired for any particular project. Along with the performance criteria there are also criteria for the appearance of a door which is clearly defined by industry standards that all follow the Hardwood Plywood Veneer Association (HPVA) guidelines.

Doors will in most cases have what is referred to as a backer, sub-straight or platform that is glued to the actual face material and then glued to the door core construction. The backer is typically a one piece HDF or two piece edge glued plywood that adds stability and strength to the face and also eliminates possible telegraphing of the core components. Veneer by standards is usually 1/50 of an inch thick.

There are three main classifications or grades when it comes to veneering options.

- **PREMIUM GRADE (AA GRADE):** Typically specified for projects that seek the highest level of quality and workmanship. Premium grade veneers can also come with a premium price.
- **CUSTOM GRADE (A GRADE):** Specified for high quality workmanship. This is typically the standard when specifying veneers.
- **ECONOMY GRADE (B GRADE):** Seldom specified for architectural projects.

**\*If no grade is specified than custom grade is the default.**

**Veneers for Transparent Finishes.** For these door faces the following is required to be specified.

- **Specie.** There are numerous foreign and domestic species available. It is highly recommended to check with the supplier to ensure the specie is in fact available.
- **Cut.** This is the appearance of individual pieces of veneer and how they are cut or spliced from a log. More information can be obtained in the [“Veneer Cuts”](#) page.
- **Matching.** This determines how the individual pieces are placed adjacent to each other on the face. More information can be obtained on our [“Veneer Matching”](#) page.
- **Assembly.** This determines how the veneer flitches will be assembled on the face. More information can be obtained on our [“Veneer Assembly”](#) page.

There are several publications available that cover many veneering options, specific specie description and attributes to help on this subject.

**Materials for Opaque Finishes.**

- Medium Density Overlay (MDO), Medium Density Fiberboard (MDF), or hardboard (HDF). These types of materials provide the best option for achieving a finely smooth and less porous surface for painting.

**Laminates.**

- High Pressure Decorative Laminates (HPDL): We offer several colors and finishes from all the laminate manufacturers worldwide. Edges of the doors can be laminated to match, painted or stained. High gloss laminates should be avoided because they tend to accentuate natural telegraphing of door components.

Please see our [“Other Face Options”](#) page to obtain more information on these and other products that are available. If there is no reference to a specific material, please contact us.



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## Other Face Options

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There are options available used in lieu of veneering for door faces. As with veneered faces these types of products must also be specified in addition to the construction method.

### **High Pressure Decorative Laminate (HPDL)**

This product can be supplied in a multitude of colors, patterns and textures from a number of manufacturers. The laminate itself must meet the National Electrical Manufacturers Association (NEMA) standards of LD-3 latest edition which covers the minimum grade for this application. Typically the laminate itself can be pressed directly to the core assembly creating a 3-ply construction or it can be pressed to a backer on the core assembly creating a 5-ply assembly. Depending on the product type the laminate is to be pressed on will dictate what ply construction will be used. Door vertical edges can be laminated with the same material as face. The preferred method is to apply the edges after faces to make any replacement of the edge possible. When applied before the face it makes replacement very difficult.

## **Opaque Facing Materials**

### **Medium Density Overlay (MDO)**

This is a thin but very rigid condensed paper product that is utilized as a premium grade product. Typically MDO is applied to an HDF backer and then to door core assembly creating a very durable and smooth surface that can be painted.

### **High Density Fiberboard (HDF) / Medium Density Fiberboard (MDF)**

HDF and MDF material can be utilized as well for a custom grade face for an opaque finish. Both products comply to their respective ANSI standards for this type of product.

A closed grain hardwood veneer such as Paint Grade Birch may also be used as a custom grade facing option for opaque finishing.

## Veneer Cuts

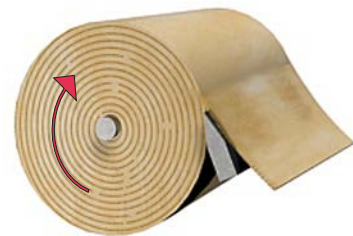
The beauty of veneer is in the natural variations of texture, grain, figure, color, and the way it is assembled on a door face. Faces will have the natural variations of grain inherent in the species cut. Any two veneer flitches of the same species may produce entirely different visual characteristics even though their color values are similar. Any method of cutting veneers can produce a wide variety of grain patterns and the method used also plays a major role in the log's yield or the number of flitches that can be produced from a log. It is strongly recommended that the project designer and supplier know what the desired look is prior to ordering. It is also worth noting that in most cases wood veneers and lumber cut from the same log will not be a perfect match.

**Veneer Cuts:** The way in which a log is cut in relation to the annual rings, determines the appearance of any veneer. The most commonly utilized cuts are described below.



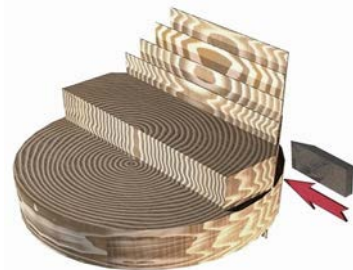
### Rotary Cut

The log is centered mounted in a lathe and rotated at a high rpm as the blade is slowly moved into peel a thin layer of wood from the log. This slice follows the log's annual growth rings, a general bold variegated and random appearance is produced. Once the sheets have been produced or lathed from the log, they can be spliced to the desired flitch dimensions. This is probably the least expensive cut due to the yield.



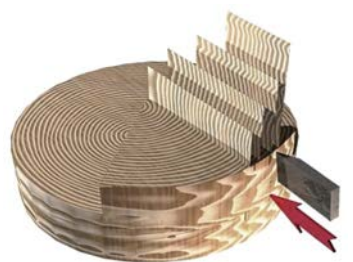
### Plain Sliced (Flat Cut)

The half log is mounted with the heart side floating against the guide plate of the slicer, and the slicing is done parallel to a line through the center of the log, producing a variegated figure. This cut produces a grain pattern in the shape of an inverted "V" or what is commonly referred to as a cathedral or crown pattern. Plain slicing may also produce a rotary cut appearance, a quartered cut appearance or even a rift cut appearance depending on the individual log and angle of the slicing of that log.



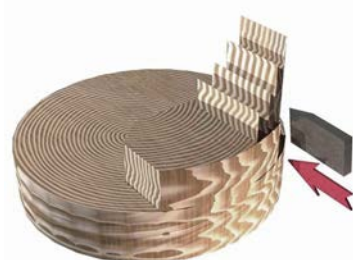
### Quarter Slicing

The quarter log is mounted on the guide plate so that the growth rings of the log strike at approximately right angles, producing a very straight grain (quartered) in some woods and varied grain appearance in other woods. In both red and white Oak, this slicing can produce unlimited amounts of medullary ray or ray fleck. Although these rays can not be totally eliminated in straight grain cuts it can be minimized by rift cutting the quarter of a log.



### Rift Cut/Comb Grain (Red/White Oak)

The Rift or Comb grain effect is produced by slicing perpendicular to the Oak's medullary rays on either the lathe or the slicer. This particular cut produces a very distinguishable straight and tight grain over the length of the entire flitch. This also minimizes the medullary rays that are produced in quarter cut veneers. Further more it is a better cut for matching adjacent flitches as well as stock or lumber material. Comb grain is the "hybrid" to Rift cut as far as tightness of grain and absence of rays or flecks.



## Veneer Matching – Individual Veneer Pieces

Once the veneer has been cut from the log as described in the [“Veneer Cuts”](#) page, it must be determined and specified as to how the flitches are to be spliced together next to one another to form a panels face. Veneer jointing is the first step in matching two flitches to be spliced together. This is where the specified grade and flitch width will be established for each adjoining flitch. Once the veneer has been jointed it will need to have the edges glued and the veneer is ready for splicing. There are two basic methods of achieving this and the majority of today’s veneering is computer processed but there are still some that perform this operation manually. If no match is specified than by default Book Match is used as this match is the most commonly used match for “A” grade.

Below are examples of the most common matches for architectural grade veneers. Some of the other optional matches include Color and Pleasing match (grain is not required) and Plank matching (Deliberately produces a random appearance).

### BOOK MATCH

This is by far the most common match. This is achieved by turning over every other veneer component from its sequence in the pile and edge gluing it to the previous flitch from the pile. It is essentially creating a mirror image of the flitch next to it. Although this type of matching is the most pleasing it also produces an effect that is called the “Barber Pole” effect. This is the cause of turning over every other flitch which puts the “Tight side” of one flitch facing outward and the “Loose side” of the adjacent flitch facing outward. This may refract light differently between the side by side flitches emitting a color or contrast variation. On a typical panel you may have several flitches over the entire face and this can be an undesirable effect for some.



### SLIP MATCH

This method is achieved by pulling a flitch in sequence and placing it next to the previous flitch with out flipping it over. This puts the pattern on the opposite side but keeps the tight-side outward on all panels so as not to produce the “Barber Pole” effect. Some find this match as a alternate in eliminating the “Barber pole” effect but it also has some undesirable issues. One of these is that it produces a sharp contrast between the two flitches which is allowed in most standards due to the yield required to eliminate this completely. Another issue is the leaning effect this can cause when the grain slope over particularly larger doors make it appear to have a lean or twist to one side.



### RANDOM MATCH

No sequential match is required for this match. Flitches are placed out of order and may not even be from the same log. The goal of this match is to produce an un-matched and random appearance in both color and grain.

Pair or set matching is not an option for a random matched face.





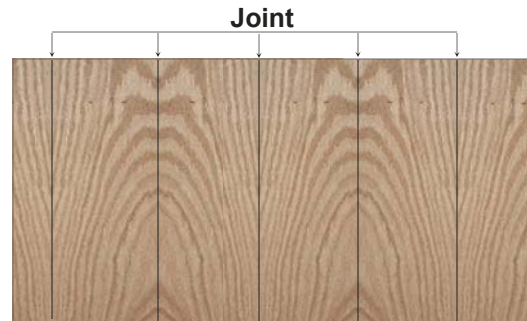
## Assembly of Veneer Flitches on Faces

The assembly refers to how the specified matched veneer flitches as outlined on the ["Veneer Matching"](#) page are to be assembled across the given panel or door width. Some of the particular matches across a given door width will determine flitch sizes and associated costs due to the yield that some require from the log. It must also be noted that there is a nominal minimum flitch width for both premium ("AA") and custom ("A") grade product and it does vary between the different veneer cuts.

If no match is specified than by default "Running Match" will be utilized as this is the most common type for "A" grade doors. If sequence or blue print matching are required it must be specified as some suppliers may only match up to a certain amount of panels due to the yield from the log.

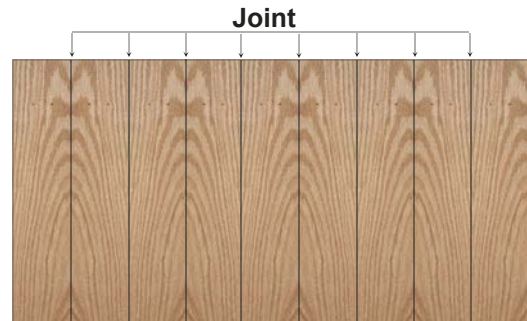
### RUNNING MATCH

This match is the standard or default if no other match is specified for custom ("A") grade faces. This is also the most economical of all the matches as it can be produced from larger flitches of un-equal width. In most cases the outer edges of the final trimmed panel or face will be narrower than the inner flitches. It is strongly recommended that this match not be specified when sequential matching from door to door is required.



### BALANCE MATCH

Each face is assembled from flitches of equal width. It may contain an equal or odd number of flitches within the trimmed panel or face. An odd number of flitches will result in the outer flitch from one edge to the next to be oriented in a different direction on book matched faces. Only at the outer edges will the flitch width differ by up to a maximum of one inch as allowed by standards.



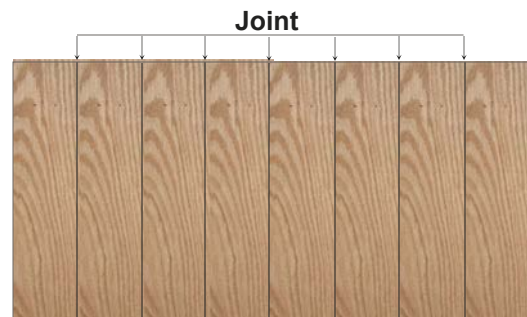
### CENTER BALANCE MATCH

This match requires that there be an equal number of flitches of equal width. This places a joint in the middle of the trimmed panel. The outer panels may be reduced after trim up to 1" on custom ("A") grade and 1/2" of premium ("AA") grade panels. The exact allowance on the offset of the center joint is 1/4" to 3/8". The yield factor for this particular match is somewhat higher and therefore the cost is augmented particularly on some species if available.



### SLIP CENTER BALANCE MATCH

Quarter and rift (comb) cuts are generally specified for this type of match. The panel is comprised of equal sized flitches with a center joint where the two center flitches are book matched and the direction is mirrored from the opposite side for the balance of the panel. All other aspects apply to "center balance" match.



## Solid Core 520P / 530P Particleboard Core (PC) 3, 5 and 7-Ply

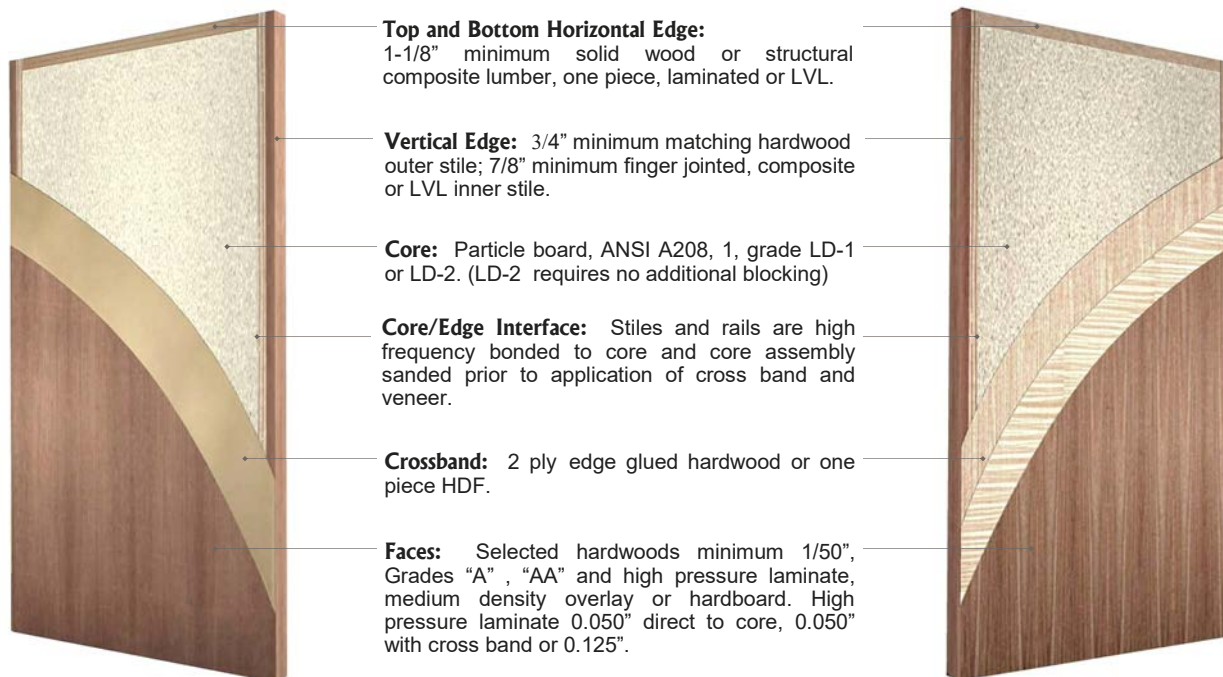
### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: PC-5 / PC-HPDL 3 or 5 - Bonded core  
 AWS: PC-5 / PC-HPDL 3 or 5 - Bonded core

WDMA: PC-7 - Bonded core  
 AWS: PC-7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).



**Warranty:** Lifetime for interior use / one year limited exterior, fully Type 1 wood or MDO faces only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 520P

#### Fire Ratings



- 20 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
- Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 10'	8' x 9'
Dbl Egress:	8' x 10'	8' x 9'
- Transoms—Up to 4' x 3'4"
- Vision lites (louvers not allowed)
- Applied mouldings, Quirks / Inlays.

See the "20 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-28 to STC-32.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Pairs or doors with transoms may require additional sealing / gasketing systems.
- "U" value = 0.46 (unglazed). Glazed doors vary based on glazing type. See "Default U factors for doors" matrix.

See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

### Available Construction Options For 520P

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Wicket Door (shelf upon request)
- Pairs, Set matches and Bifolds.
- Over-size doors and Splined sets.
- Full or Half louver - Non rated.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Arc or radius top to match jamb.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

## Solid Core 520C / 530C Structural Composite Lumber Core (SCLC) 5 and 7-Ply

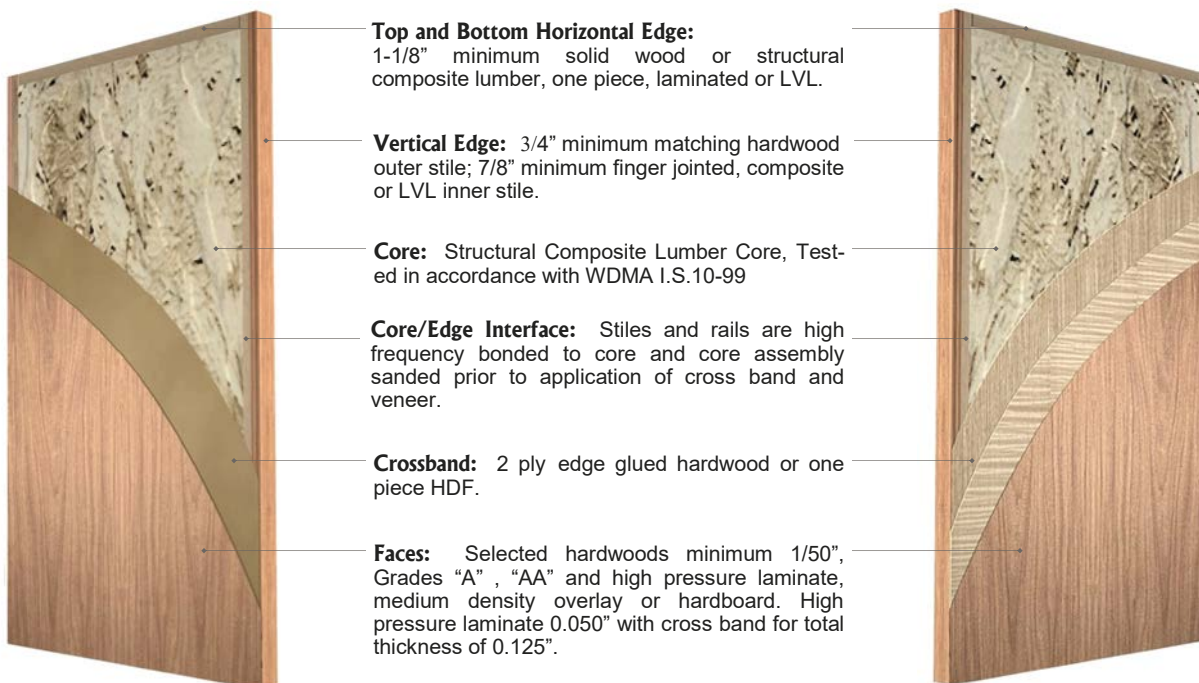
### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: SCLC-5 / SCLC-HPDL - Bonded core  
 AWS: SCLC-5 / SCLC-HPDL - Bonded core

WDMA: SCLC-7 - Bonded core  
 AWS: SCLC-7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).



**Warranty:** Lifetime for interior use / one year limited exterior, fully Type 1 wood or MDO faces only. See Vancouver Door Warranty.

**Blocking Options:** No blocking required for SCLC core doors

### Available Rating Options For 520C

#### Fire Ratings



- 20 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
- Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 10'	8' x 9'
Dbl Egress:	8' x 10'	8' x 9'
- Transoms — Up to 4' x 3'4"
- Vision lites (louvers not allowed)
- Applied Mouldings/Quirks/Inlays.

See the "20 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-28 to STC-32. STC 37 with full lite.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Pairs or doors with transoms may require additional sealing and gasketing systems.
- "U" value = 0.46 (unglazed). Glazed doors vary based on glazing type. See "Default U factors for doors" matrix.

See the STC "[Sound Transmission Information](#)" page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our "[LEED Matrix](#)" for additional information.

### Available Construction Options For 520C

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Wicket Door (shelf upon request)
- Pairs, Set matches and Bifolds.
- Over-size doors and Splined sets.
- Full or Half louver - Non rated.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Arc or radius top to match jamb.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.



## Solid Core 520S / 530S Staved Lumber Core (SLC) 5 and 7-Ply

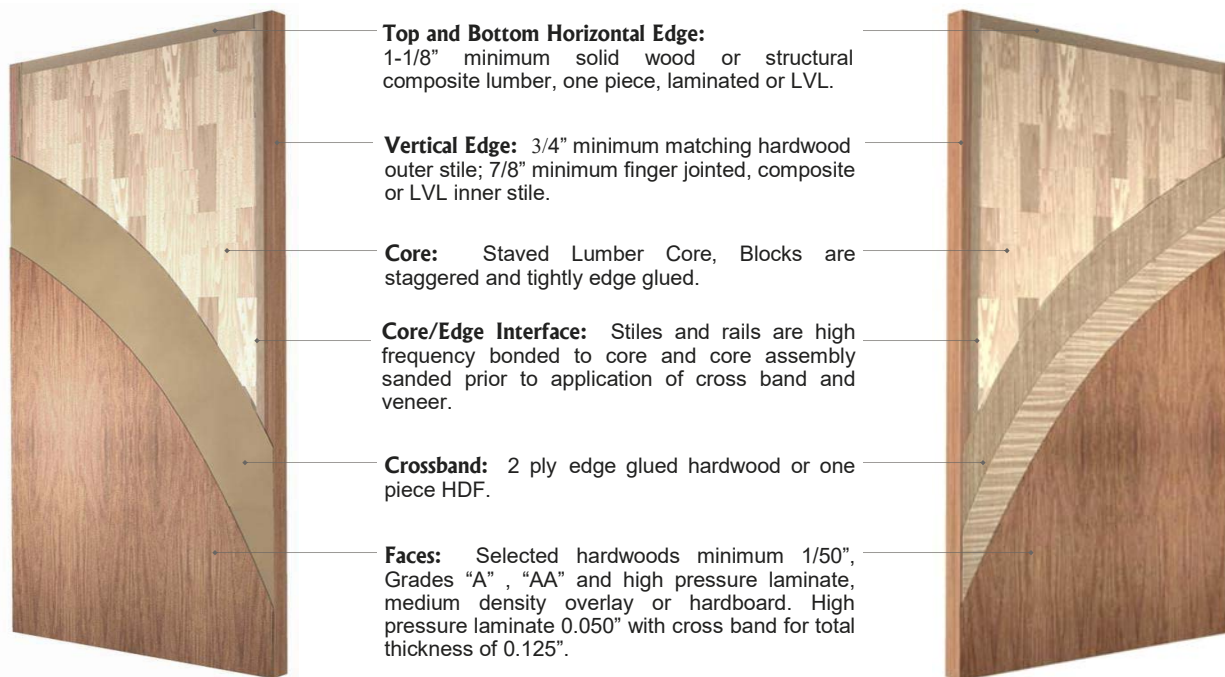
### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: SLC-5 / SLC-HPDL - Bonded core  
 AWS: SLC-5 / SLC-HPDL - Bonded core

WDMA: SLC-7 - Bonded core  
 AWS: SLC-7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).



**Warranty:** Lifetime for interior use / one year limited exterior, fully Type 1 wood or MDO faces only. See Vancouver Door Warranty.

**Blocking Options:** No blocking required for SLC core doors

### Available Rating Options For 520S

#### Fire Ratings



- 20 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
- Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 10'	8' x 9'
Dbl Egress:	8' x 10'	8' x 9'
- Transoms—Up to 4' x 3'4"
- Vision lites (louvers not allowed)
- Applied Mouldings/Quirks/Inlays.

See the "20 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-28 to STC-32.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Pairs or doors with transoms may require additional sealing / gasketing systems.
- "U" value = 0.46 (unglazed). Glazed doors vary based on glazing type. See "Default U factors for doors" matrix.

See the STC "[Sound Transmission Information](#)" page.

#### LEED Credits

- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our "[LEED Matrix](#)" for additional information.

### Available Construction Options For 520S

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Wicket Door (Shelf upon request)
- Pairs, Set matches and Bifolds.
- Over-size doors and Splined sets.
- Full or Half louver - Non rated.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Arc or radius top to match jamb.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

## Solid Core 520A / 530A – Agrifiber Core (AC) 3, 5 and 7-Ply

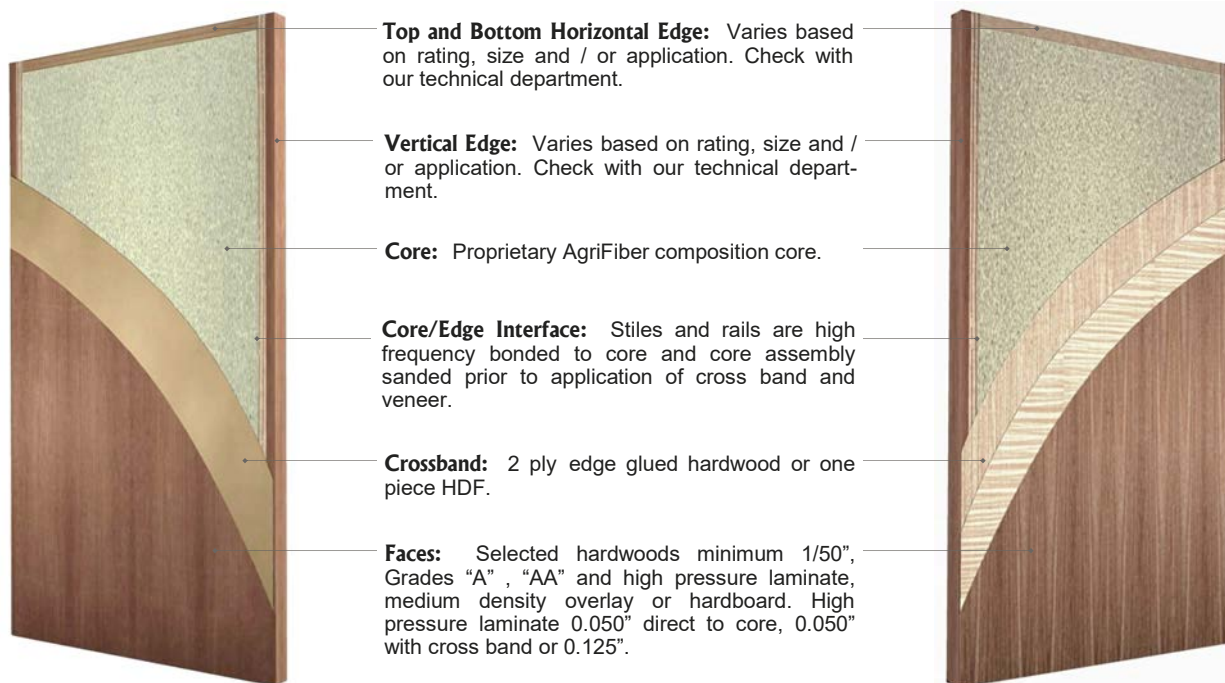
### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

AC-5 / AC-HPDL 3 or 5 - Bonded core  
 AC-5 / AC-HPDL 3 or 5 - Bonded core

AC-7 - Bonded core  
 AC-7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).



**Warranty:** Lifetime for interior use / one year limited exterior, fully Type 1 wood or MDO faces only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 520A

#### Fire Ratings



- **20, 45 and 60 Minute:** Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label (1-3/4" thick doors only)
- Max Sizes: Varies, check with our technical department
- Transoms-Up to 4' x 3'4"
- Vision lites (louvers not allowed)
- Applied Mouldings/Quirks/Inlays

#### STC Ratings



- Standard construction = STC-28 to STC-32
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating
- Pairs or doors with transoms may require additional sealing / gasketing systems
- "U" value = 0.46 (unglazed). Glazed doors vary based on glazing type. See "Default U factors for doors" matrix

See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR-6-Rapidly Renewable Materials
- EQ 4.4 - Low Emitting Materials, No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements

See our ["LEED" Matrix](#) for additional information

### Available Construction Options For 520A

- Dutch Door (various shelf types available) See "Dutch shelf options"
- Wicket Door (Shelf upon request)
- Pairs, Set matches and Bifolds
- Over-size doors and Splined sets
- Full or Half louver - Non rated
- Vision Lites - Various shapes and sizes. Glazed or unglazed
- Arc or radius top to match jamb

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

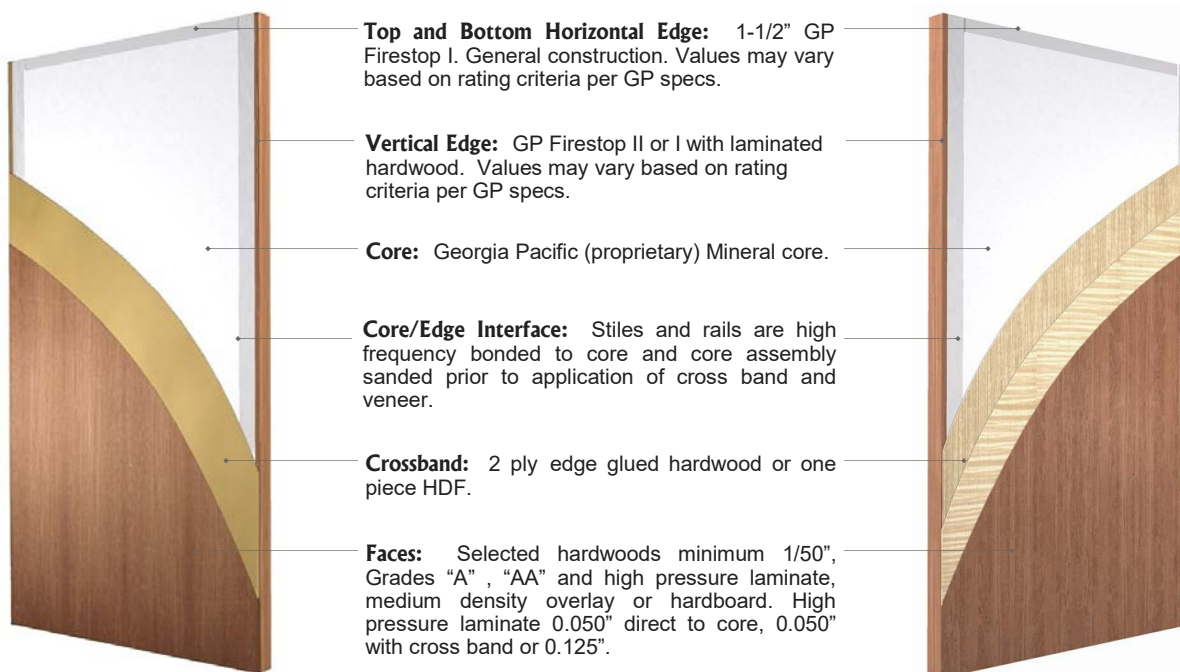
## 760M (1 hr) Fire Rated Mineral Core (MC) 5 and 7-Ply

### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: FD-60 / FD-60 HPDL 3 or 5 - Bonded core  
 AWS: FD-60 / FD-60 HPDL 3 or 5 - Bonded core

WDMA: FD-60 7 - Bonded core  
 AWS: FD-60 7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.



**Warranty:** Lifetime For Interior Use Only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 760M

#### Fire Ratings



- 60 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
  - Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 8'	8' x 9'
Dbl Egress:	8' x 8'	8' x 9'
  - Transoms—Up to 4' x 3'4"
  - Vision lites and Louvers
  - Applied Mouldings/Quirks/Inlays
- See the "60 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-35.
  - Lites - Recommended glazing systems must be used to obtain the maximum STC rating which may conflict with fire rating requirements.
- Currently Not tested or approved for pairs. Pairs or doors with transoms may require additional sealing / gasketing systems.
- See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
  - MR 4.2 - Recycled Content: 20%
  - EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
  - Low VOCs on all finishes.
  - All products conform to "CARB" Phase II requirements.
- See our ["LEED" Matrix](#) for additional information.

### Available Construction Options For 760M

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Pairs and Set matches.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Louver - Up to 1296 sq/in max.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.



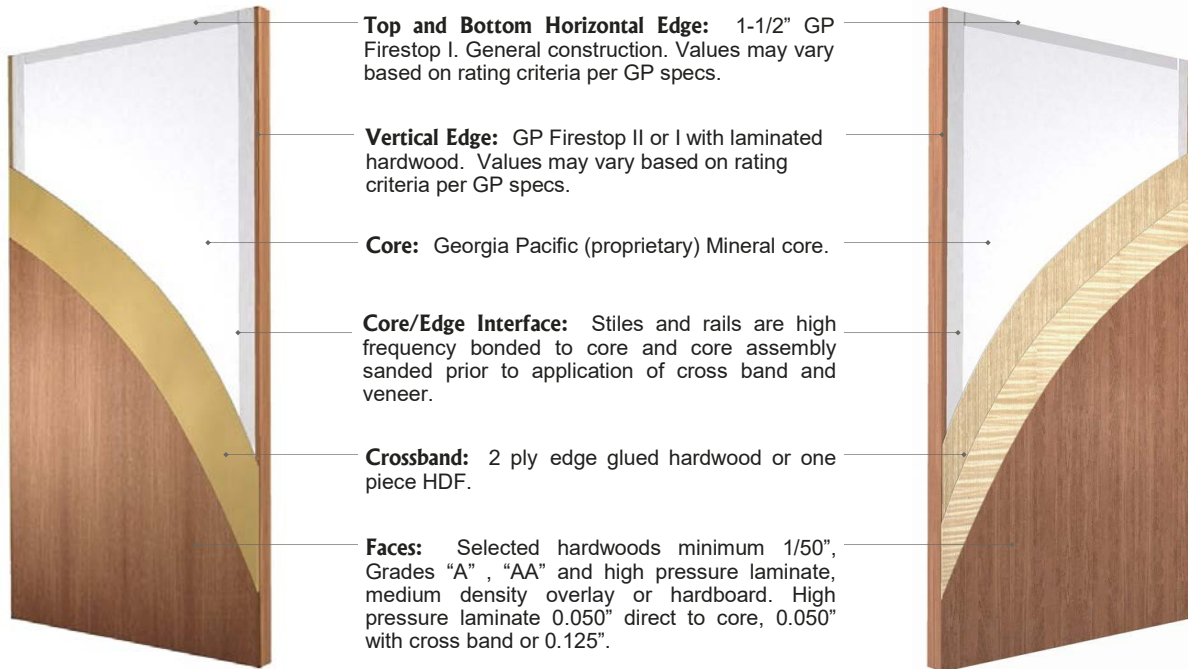
## 790M (1-1/2 hr) Fire Rated Mineral Core (MC) 5 and 7-Ply

### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: FD-90 / FD-90 HPDL 3 or 5 - Bonded core  
 AWS: FD-90 / FD-90 HPDL 3 or 5 - Bonded core

WDMA: FD-90 7 - Bonded core  
 AWS: FD-90 7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.



**Warranty:** Lifetime For Interior Use Only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 790M

#### Fire Ratings



- 90 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
  - Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 8'	8' x 9'
Dbl Egress:	8' x 8'	8' x 8'
  - Transoms—Up to 4' x 3'4"
  - Vision lites and Louvers
  - Applied Mouldings/Quirks/Inlays
- See the "60 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-35.
  - Lites - Recommended glazing systems must be used to obtain the maximum STC rating which may conflict with fire rating requirements.
- Currently Not tested or approved for pairs. Pairs or doors with transoms may require additional sealing / gasketing systems.
- See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

### Available Construction Options For 790M

- Pairs and Set matches.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Louver - Up to 1296 sq/in max.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

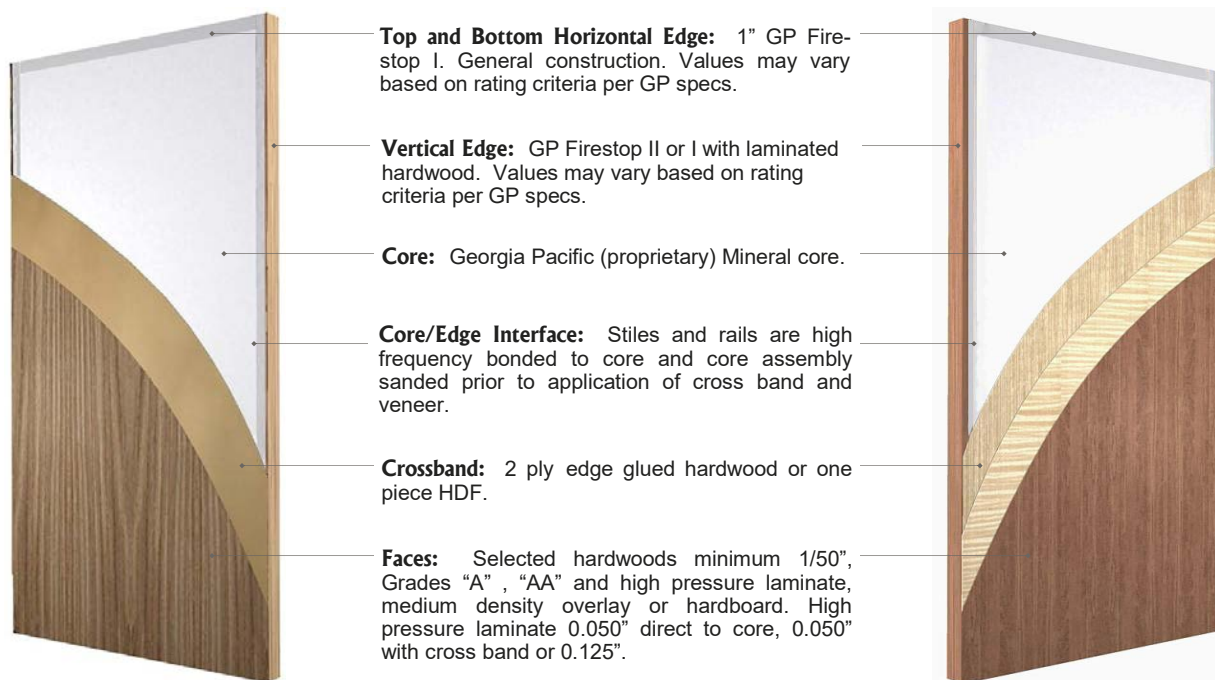
## 745M (3/4 hr) Fire Rated Mineral Core (MC) 5 and 7-Ply

### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: FD-45 / FD-45 HPDL 3 or 5 - Bonded core  
 AWS: FD-45 / FD-45 HPDL 3 or 5 - Bonded core

WDMA: FD-45 7 - Bonded core  
 AWS: FD-45 7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.



**Warranty:** Lifetime For Interior Use Only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 745M

#### Fire Ratings



- 45 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
  - Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	8' x 8'	8' x 9'
Dbl Egress:	8' x 8'	8' x 9'
  - Transoms—Up to 4' x 3'4"
  - Vision lites and Louvers
  - Applied Mouldings/Quirks/Inlays
- See the "45 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-35.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating which may conflict with fire rating requirements.

Currently Not tested or approved for pairs. Pairs or doors with transoms may require additional sealing / gasketing systems.

See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

### Available Construction Options For 745M

- Dutch Door (various shelf types available) See "Dutch shelf options".
- Pairs, Set matches.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Louver - Up to 1296 sq/in max.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

## POSITIVE PRESSURE AND "S" LABEL COMPLIANCE ALL RATINGS

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Category A and B, Doors and Jambs from the following options; Georgia Pacific FIREDOOR Components / ZERO International / PEMKO

Manufacturing / Vancouver Door Company Inc. Testing.

### **INTUMESCENT FREE DESIGN ON 20 / 45 / 60 AND 90 MINUTE DOORS \*\*\***

Any testing advancement by these companies will automatically be available to customers of Vancouver Door Company Inc. Contact our factory for updates on these systems.

### **20 Minute/45, 60, and 90 Minute approval to UBC Fire**

#### **Test Standard 7-2-1997**

Now available 20 Minute Positive Pressure to 4'x9' single and 8'x9' - Regular and 8'x8' double egress pairs. Series tested was 520P with 1-1/2" total hardwood laminated stiles.

745, 760 and 790 Mineral Core Fire Doors are available in Positive Pressure to 4'x9' Singles and 8'x9' regular and double egress pairs.

### **Smoke and Draft Control Door Assemblies**

UBC 7-2-1997 Section 7.210

Approval for supplemental "S" label - 20, 45, 60 and 90 Minute.

20 Minute (metal frame) to 4'x9' singles and 8x9' regular and double egress pairs. (Wood Frames) to 3'x8' singles and 6'x8' regular pairs. 45, 60, and 90 Minute Mineral Core Fire Doors to 4'x9' singles and 8'x9' regular and 8'x8' double egress pairs. Total intumescent and edge sealing system including assembly installation instructions provided by us.





## 600 Series Lead Lined (LL) 5 and 7-Ply

### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: PC-5 / PC-HPDL 3 or 5 - Bonded core  
 AWS: PC-5 / PC-HPDL 3 or 5 - Bonded core

WDMA: PC-7 - Bonded core  
 AWS: PC-7 - Bonded core

Unless specified otherwise all doors are constructed to extra heavy duty performance levels.

#### Special Core:

Doors are bonded and sanded, then a sheet of pre determined lead is pressed across the face of the door and concealed beneath the faces. The construction provides optimum shielding and durability for the life of the door.

Electro-shielding is another option that utilizes the same construction method.

Due to the excessive weight that

#### Lead Thickness - lbs. per sq.ft.

1/32"	2
1/16"	4 Typical)
1/8"	8
3/16"	12
1/4"	16

this construction produces heavy weight hinges, pivot hinges or continuous hinges are highly recommended.



**Top and Bottom Horizontal Edge:** 1-1/8" minimum solid wood or structural composite lumber, one piece, laminated or LVL.

**Vertical Edge:** 3/4" minimum matching hardwood outer stile; 7/8" minimum finger jointed, composite or LVL inner stile.

**Core:** Particleboard (shown), Staved Lumber Core or Structural Composite Lumber Core.

**Core/Edge Interface:** Stiles and rails are high frequency bonded to core and core assembly sanded prior to application of cross band and veneer.

**Crossband:** 2 ply edge glued hardwood (shown) or one piece HDF.

**Faces:** Selected hardwoods minimum 1/50", Grades "A", "AA" and high pressure laminate, medium density overlay or hardboard. High pressure laminate 0.050" direct to core, 0.050" with cross band or 0.125".

**Warranty:** Lifetime For Interior Use Only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 600 LL

#### Fire Ratings



- 20 Minute: Neutral Pressure (NP) or Positive Pressure (PP) - Cat "A" or "B" and intumescent free. Smoke and Draft control label.
- Max Sizes:
 

	NP	PP
Singles:	4' x 10'	4' x 9'
Std Pairs:	N/A	N/A
Dbl Egress:	N/A	N/A
- Vision lites (louvers not allowed)
- Applied Mouldings/Quirks/Inlays

See the "20 Minute" rating matrix and specifications sheet for hardware, frame and other information on ratings.

#### STC Ratings



- Standard construction = STC-37
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Pairs or doors with transoms may require additional sealing / gasketing systems.

See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

## 650 Series Bullet Resistant Door 5 and 7-Ply

**Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)**

### WDMA / AWS: BR - Special Function Doors

Door sizes: (Non rated) 1-3/4" - 2-1/4" thick, up to 4' wide x 8' high (Check with sales for larger doors).

These doors are specifically designed to protect occupants from potential threats from firearms, specifically handguns ranging from small caliber up to .44 caliber. You will typically find the need for these doors in applications such as court houses, detention facilities, schools, safe rooms and safe havens or any area where the need for security is of priority.

The door's overall quality and appearance is identical to all of our product lines with the exception of the inner construction. These doors are manufactured in compliance to meet and/or exceed the standards for UL 752 Level 3 classification. Level 4 and 5, call for quote.

Options available:  
 Applied mouldings, quirks, inlays, sketch face and most hardware preparation.



**Top and Bottom Horizontal Edge:** 1" minimum solid hardwood.

**Vertical Edge:** 3/4" minimum matching hardwood, finger jointed, composite or LVL inner stile.

**Core:** Special ballistic rated materials.

**Core/Edge Interface:** Stiles and rails are high frequency bonded to core and core assembly sanded prior to application of cross band and veneer.

**Crossband:** 2 ply edge glued hardwood or one piece HDF.

**Faces:** Selected hardwoods minimum 1/50", Grades "A", "AA" and high pressure laminate, medium density overlay or hardboard. High pressure laminate 0.050" direct to core, 0.050" with cross band or 0.125".

**Warranty:** Lifetime For Interior Use Only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 650 STC

#### Fire Ratings



N/A

#### STC Ratings



- Standard construction = STC-37
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating.
- Currently Not tested or Approved for pairs.

See the STC ["Sound Transmission Information"](#) page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

\*Note: Each STC rated door requires a specific sealing system to maintain the rating. We can supply a complete system or you may supply as long as the system conforms to the test data. Check with our technical department.

Sized, beveled and machined for just about any specified surface, mortised or electrified hardware and prefinished.

## 310H and 510H Hollow Core (HC) 5 and 7-Ply

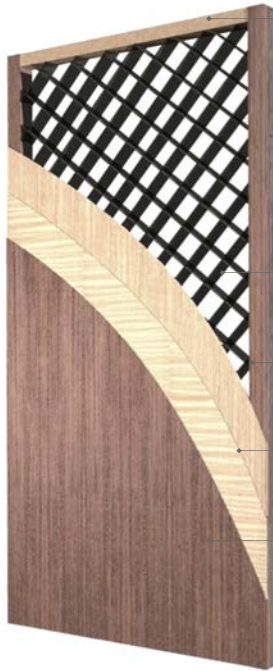
### Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)

WDMA: SHC / SHC-HPDL-5 or 7  
AWS: HC-5 / HC-HPDL-5 or 7

WDMA: IHC-5 or 7  
AWS: HC-5 or 7

Door sizes: (Non rated) 1-3/8" - 2-1/4" thick, up to 6' wide x 12' high (Check with sales for taller doors).

**310 HC / SHC**



**510 HC / IHC**



**Top and Bottom Horizontal Edge:**

1-1/8" (SHC) / 6-1/2" (IHC) minimum solid wood or structural composite lumber, one piece, laminated or LVL.

**Vertical Edge:** 1" (SHC) / 2-1/2" (IHC)

minimum matching hardwood outer stile; 7/8" minimum finger jointed, composite or LVL inner stile at IHC only.

**Core:** Expanded honeycomb made of corrugated paper. Other options available.

**Core/Edge Interface:** This is a Non-Bonded System. \*Special Blocking required at 510H.

**Crossband:** 2 ply edge glued hardwood or one piece HDF. (2 ply shown)

**Faces:** Selected hardwoods minimum 1/50", Grades "A", "AA" and high pressure laminate, medium density overlay or hardboard. High pressure laminate 0.050" direct to core, 0.050" with cross band or 0.125".

**Warranty:** One year limited . See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See ["Blocking Adds"](#) page.

### Available Rating Options For 310H and 510H

#### Fire Ratings



NONE

#### STC Ratings



NONE

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our ["LEED" Matrix](#) for additional information.

### Available Construction Options For 310H and 510H

- Pairs, Set matches and Bifolds.
- Over-size doors and Splined sets.
- Vision Lites - Various shapes and sizes. Glazed or unglazed.
- Full or Half louver - Non rated.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.



## 800 Series Acoustical (STC) Door 5 and 7-Ply

**Hardwood Veneer / MDO / HDF or High Pressure Decorative Laminate (HPDL)**

**WDMA / AWS: SR - Special Function Doors - STC-36, 39, 40, 42 or 43**

Door sizes: (Non rated) 1-3/4" - 2-1/4" thick, up to 3' wide x 7' high (Check with sales for larger doors).

Acoustical or Sound Resistant doors are tested in accordance with ASTM E90, E413 and E1332. The operable tests give the results of Sound Transmission Loss and the determination of the Sound Transmission Class (STC) for door systems.

These doors can be specified for a number of applications where noise reduction is required. Typical applications for this type of door are: Meeting or classrooms, band rooms, auditoriums, hotel rooms, etc.

More information can be obtained on the "Sound transmission information" section of our website.

Options available  
 Applied moulding, overlays, sketch face and hardware machining.



**Top and Bottom Horizontal Edge:** 1-1/2" minimum solid wood or structural composite lumber, one piece, laminated or LVL.

**Vertical Edge:** 3/4" minimum matching hardwood outer stile; 7/8" minimum finger jointed, composite or LVL inner stile.

**Core:** Sound dampening materials.

**Core/Edge Interface:** Stiles and rails are high frequency bonded to core and core assembly sanded prior to application of cross band and veneer.

**Crossband:** 2 ply edge glued hardwood or one piece HDF.

**Faces:** Selected hardwoods minimum 1/50", Grades "A", "AA" and high pressure laminate, medium density overlay or hardboard. High pressure laminate 0.050" direct to core, 0.050" with cross band or 0.125".

**Warranty:** 5 year for interior use / one year limited exterior, fully type 1 wood or MDO faces only. See Vancouver Door Warranty.

**Blocking Options:** For undercutting and specialized hardware. Must be specified if required. See "[Blocking Adds](#)" page.

### Available Rating Options For 800 STC

#### Fire Ratings



N/A

#### STC Ratings



- Standard construction = STC-36 to STC-43.
- Lites - Recommended glazing systems must be used to obtain the maximum STC rating. It is highly recommended that all glazing be done by the factory.
- Currently Not tested or Approved for pairs.

See the STC "[Sound Transmission Information](#)" page.

#### LEED Credits

- MR 4.1 - Recycled Content: 10%
- MR 4.2 - Recycled Content: 20%
- EQ 4.4 - Low Emitting Materials - No Added Urea Formaldehyde (NAUF)
- Low VOCs on all finishes.
- All products conform to "CARB" Phase II requirements.

See our "[LEED](#)" [Matrix](#) for additional information.

\*Note: Each STC rated door requires a specific sealing system to maintain the rating. We can supply a complete system or you may supply as long as the system conforms to the test data. Check with our technical department.

Sized, beveled and machined for just about any specified surface, concealed or electrified hardware and prefinished.

## STC Transmission Information

There are several instances where the need for an STC rated door would be required to reduce noise levels being transmitted from an outside or inside source that transmits high levels of noise. Other instances would include privacy or where specific information is to be contained within the transmission or meeting room. No matter what the circumstance is our STC products can provide your project with optimal performance.

All of our Sound Transmission Class (STC) products have been tested and approved under operable conditions by an accredited independent testing facility that specializes in testing and certification for these types of products.

### Test Methods:

American Society for Testing and materials designation ASTM E90-90/99, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions", and classified in accordance with the American Society for Testing and Materials designation ASTM E413-87 Re-approved 1999, "Classification for Rating Sound Insulation" and ASTM Standard E1332-90 Re-approved 1998 entitled, "Standard Classification for Determination of Outdoor-Indoor Transmission Class".

Exterior and interior noise reduction available for residential and commercial applications (airports, freeways, band rooms, sound studios, auditoriums, meeting rooms, hotel entry rooms, training rooms).



A sealed door and jamb system can reduce noise levels considerably but other aspects must also be taken into account to achieve maximum results. Other aspects that must be taken into consideration are the surrounding walls, windows or side-lites. There are different types of insulation and glass types that are tested and approved for these types of applications.

Our doors have STC ratings ranging from STC-32 to STC-43. The rating itself can dictate the door construction, size, sealing/gasketing system and any added options that may or may not be applicable for that particular construction. For example, fire rating, quirks, inlays or pairs. Please refer to the individual product pages and the "800" series doors to see the options offered for each product or contact our sales department for more information.

In most cases the level of attenuation achieved does not totally eliminate but rather muffles the sound to an unintelligible level. The chart below compares the level of human speech that would be heard through a door system having the indicated active STC range. Active STC rating is for an operable system as contrasted with a sealed-in-place rating of the door only.

### ACOUSTICAL RATINGS – ASTM E90 – 97 and 99

STC-30: Loud speech understood.  
 STC-35: Loud speech NOT understood.  
 STC-40: Loud speech audible murmur.  
 STC-45: Some loud speech barely audible.  
 STC-48: Hearing strained to hear loud speech.  
 STC-50: Loud speech NOT audible.

The higher the rating the better the performance.

STC RATING	THICK	MAX LIGHT OPENING	FIRE RATING
32	1-3/4	N/A	20 MIN.
35	1-3/4	N/A	45/60/90 MIN.
36	1-3/4	N/A	
37	Bullet Resistant	N/A	
37	1-3/4	FULL LIGHT	
37	1-3/4 lead lined	N/A	20 MIN.
39	1-3/4	24X30	
40	1-3/4	24X24 10X36	
42	1-3/4	N/A	
43	1-3/4	N/A	

STC test results available by request.

## Construction Options – Oversize / Barn Doors Series 900

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Oversize doors or panels can be manufactured from most of our product types with the exception being fire rated doors. Fire rated doors can not receive a label if the specified sizes for their respective application are exceeded. Doors considered to be oversize in most cases would be anything over 4' wide and/or 10' tall. Oversize doors can be produced with a wide selection of face options for both for transparent and opaque finishes and can be machined for hardware to meet most any applications. Typically these doors would be used as sliders for large openings that can be easily opened and closed off with minimal effort. Oversize doors are not warranted against warp, twist, cup or bow.



Due to freight restrictions on size it may be necessary to provide two large halves and have them splined at the jobsite. Please check with our sales staff to confirm if this method applies.



## Applied Mouldings

Applied mouldings or "Plant-ons" can be produced in any number of configurations and with any number species. Moulding can be supplied to match the face species or can be mixed as shown in the samples below. There are several types of moulding profiles available that can be provided to match new or existing conditions. Moulding can be applied to most of our products but there are some considerations that must be met on fire rated doors. Please check with our sales or technical department.

The following examples are just a sample of the possibilities that can be achieved with applied moulding.

### Special Moulding Configuration Exam-



### Special Moulding Configuration Examples



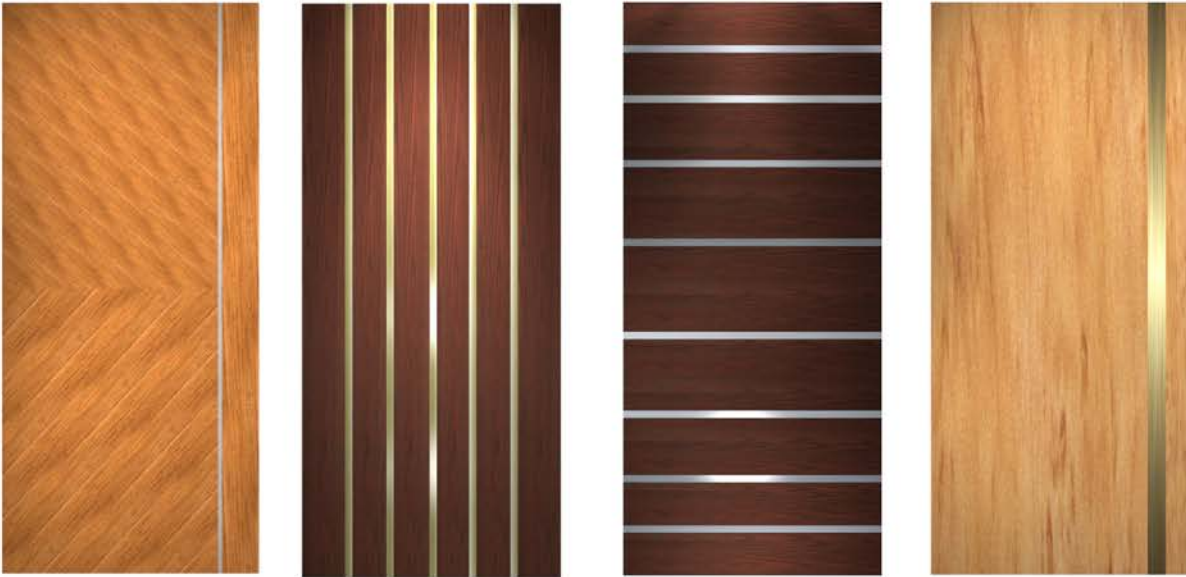
## Inlays, Sketch Face and Quirks

There are a multitude of options available for designer doors that can be configured in unlimited combinations to create the desired appearance. Our goal is to produce an aesthetically appealing door but to also maintain the integrity in the construction that assures your door will last for a long time. Most of these doors can be produced in accordance with most fire rating and LEED applications but depending on the materials being used there may be restrictions.

The following examples are just a sample of the possibilities that can be achieved in producing a designer door to specification.

### Inlays

Inlays can be produced in many configurations with various materials such as wood, metal and/or laminates.



### Sketch Face

Sketch face doors are produced when veneers are laid out in a specific pattern on the skin backer. The veneers can be book, slip or random match and can be mixed with different species for the perfect contrast.



## Vision Lites and Glazing

Vision lites can be provided in all of our products in just about any shape, size or configuration required, from small, narrow, half, full, square, rectangular, round or oval. Combinations of lites may also be provided granted the overall area does not exceed the maximum allowed area for warranty or fire rating restrictions (Please check with our sales or technical department for limitations). Both wood and metal vision stop can be supplied upon request. We can also provide factory glazing. Below are just some examples of vision lites utilizing our typical stop.

### Small Lites

Small vision lites can be of various geometric shapes and are typically provided in single or multiple layouts .



### Narrow Lites

Narrow vision lites are common for many applications that require a larger area of vision than small lites but do not remove as much of the door material as half or full lite doors. The dimension from vision lite to edge of door or lock prep must not exceed 5" for warranty or fire ratings.



Available non-rated and 20, 45, 60, and 90 minute rated. See pages 35 and 36.

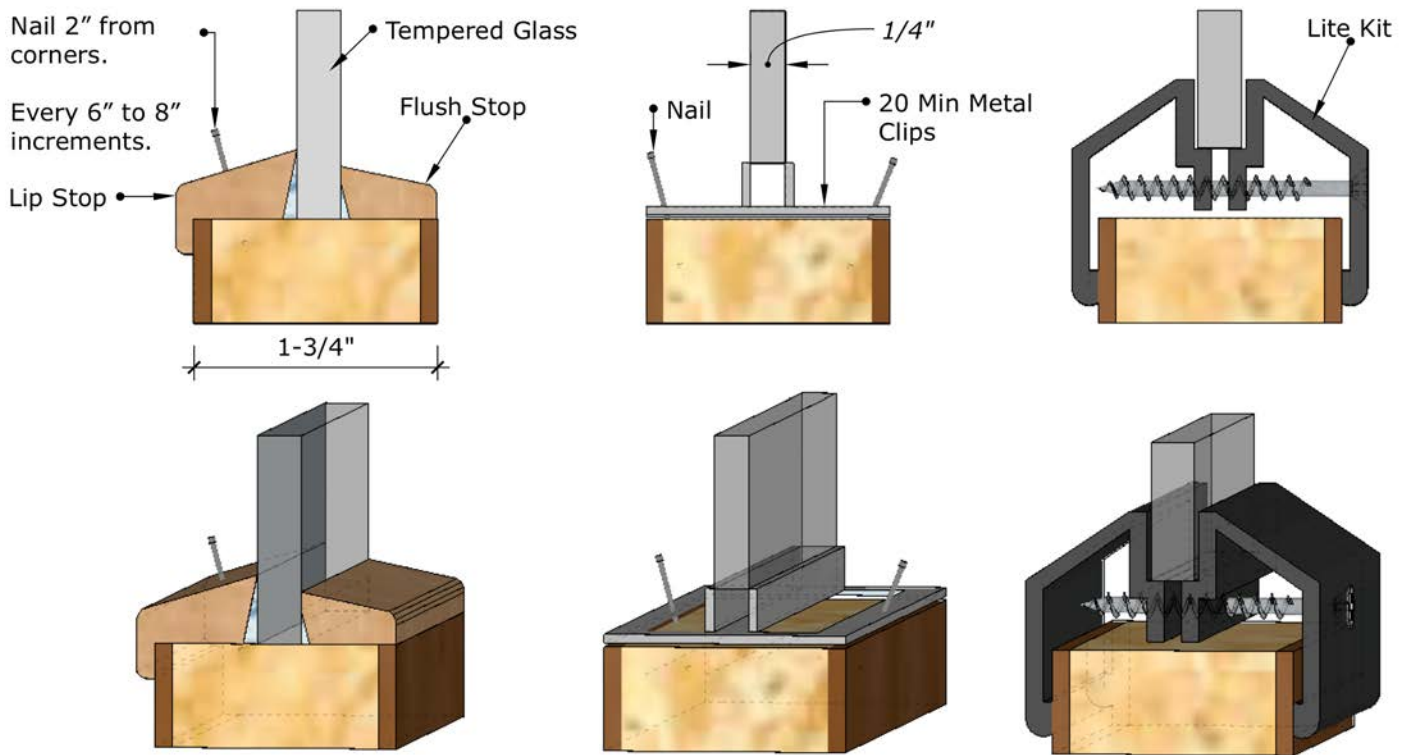
Lite stops and stop profiles, see page 30.

Check with our sales or tech department.



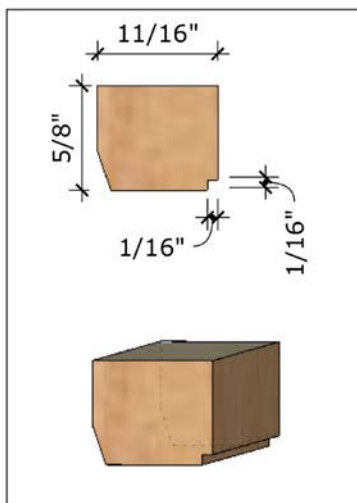
## Vision Lites Stops and Profiles

### Lite Stops

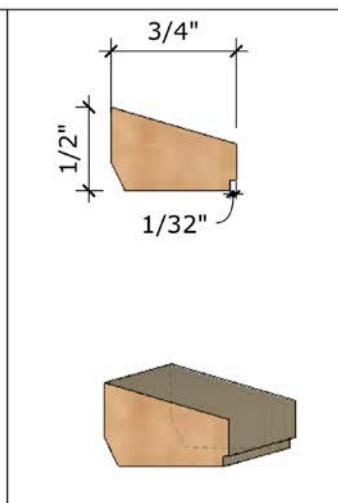


### Stops Profiles

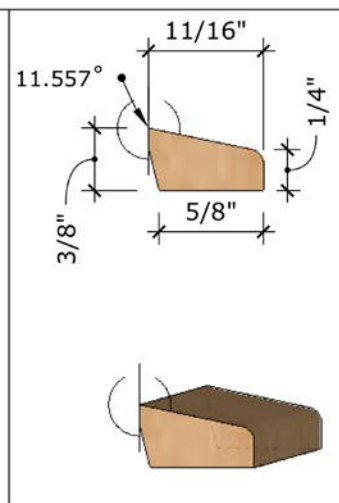
**VS-200**



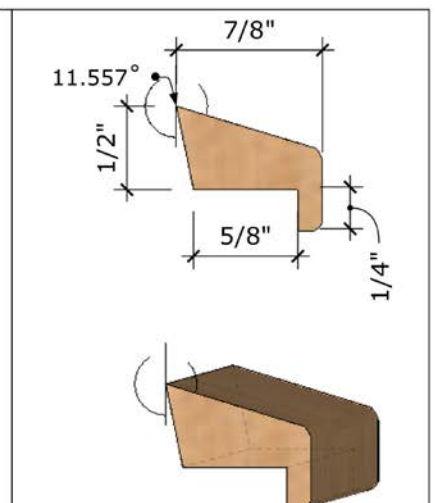
**VS-210**



**VS-220**



**VS-230**



# Special Services / Product Guide

Vancouver Door Company's many custom services reduce job site costs and assist in meeting time requirements on special installations.

## SUNBURST / WAGON WHEEL DOORS



Sound rated doors are available for your covered exterior front entry with a rating of STC 39.

\*Select from Aries and Garnet Series.

Interior sound doors are available.

Call for information and requirements on these special doors. (One Year Warranty Exterior Use)

## LOUVER DOORS



Variable size and type louvers can be provided and installed at the factory. From small to half to full size louvers.

Great for providing pass through Ventilation and fresh air.

Chevron style louvers are available in most hardwoods.

**Available non-rated and 45, 60, and 90 minute rated. See pages 35 and 36.**

**Not approved for 20 minute.**

## DOORS and TRANSOMS



Veneers may be continuous match, end match or no match. (*continuous match shown*)

See WDMA: I.S. 1-A, Section A-7

Rabbeted meeting rails are optional.

Not approved for STC applications.

**Available non-rated and 20, 45, 60, and 90 minute rated. See pages 35 and 36.**

Check with our sales or tech department for details and options.



## DUTCH / WICKET DOORS



Dutch doors are utilized in applications where the upper half of the door may be opened while keeping the lower half closed. Both leaves are typically latched together to maintain a single opening. Dutch door shelves are sent loose for field installation.

Wicket consist of the primary door and the wicket insert which can be opened to allow access while keeping the primary door closed or locked.

**Available non-rated and 20, 45 or 60 minute rated. See pages 35 and 36.**  
**\*Wicket Doors are not fire rated.**

Check with our sales or tech department for details and options.

## BIFOLD (FOLDING) UNITS, 2 and 4 DOOR



Hollow Core and Solid Core (Non rated)  
Veneer, HDF, MDO and High Pressure Laminate  
1-3/8" - 1-3/4" thicknesses

Heavy duty hardware supplied upon request.

## SLIDERS, POCKET DOORS and PANELS

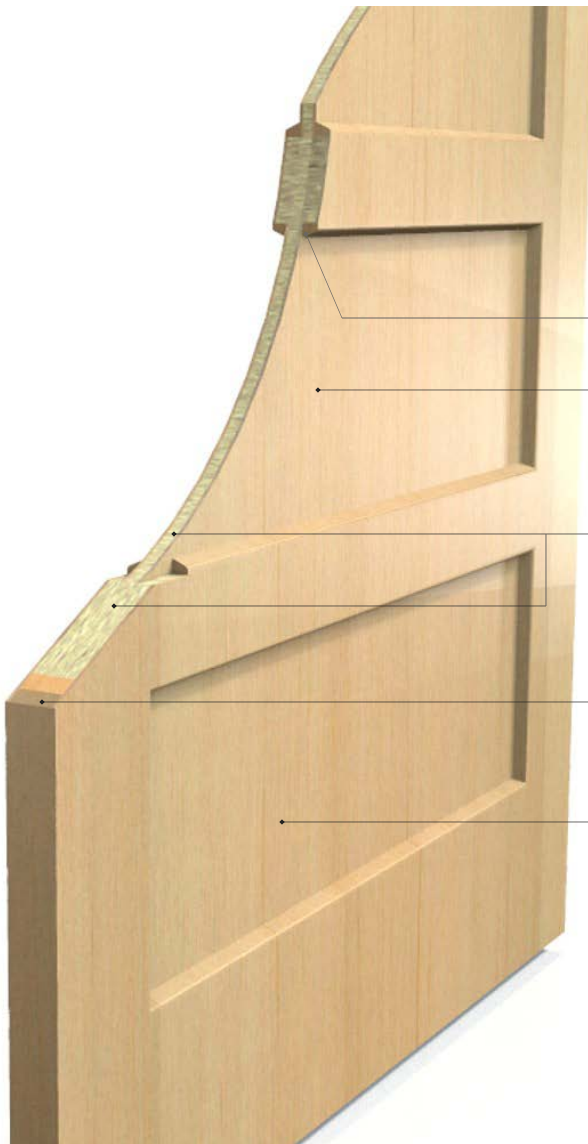


Hollow Core and Solid Core (Non rated)  
Matching Veneer, HDF, MDO and High Pressure Laminate  
1-3/8" - 1-3/4" thicknesses

## Particle Core Door With Recessed Panels

Veneer and High Pressure Laminate  
Particle Board Core, Bonded and Sanded

WDMA: PC-5 and PC-7    AWS: PC-5 and PC-7  
WDMA: PC-HPDL-3/5    AWS: PC-HPDL-3/5



**Top and Bottom Horizontal Edge:** 1-1/8" minimum solid wood or structural composite lumber, one piece, laminated or LVL.

**Panel Inserts:** 5/8" thick particle core with faces to match door attached with flush stop of same species to match face.  
Particle board, ANSI A208 minimum.

**Core: Particle Core**  
Particle board, ANSI A208  
Meets and/or exceeds

**Vertical Edge:** 7/8" minimum hardwood w/ 7/8" solid, laminated veneered and 7/8" backer or inner ply may be structural composite lumber or LVL.  
Total = 1-1/2" net.

**Faces:** Selected hardwoods minimum 1/50", high pressure laminate, medium density overlay or hard-board. High pressure laminate 0.050" direct to core, 0.050" with cross band or 0.125".

**Crossband:** 2 ply edge glued hardwood or one piece HDF. (3-ply shown)

**Core/Edge Interface:** Stiles and rails high frequency bonded to core and core assembly sanded prior to application of cross band and veneer.

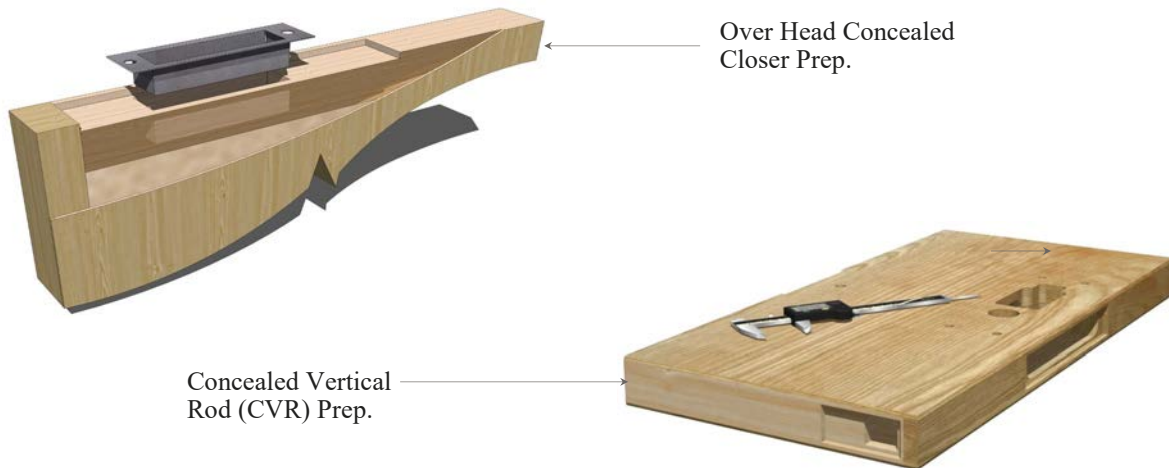
# Special Services - *continued*

## EDGE OPTIONS

Pre-fitting and edge beveling  
Radius edges  
Edge rabbeting  
Veneered or plastic laminate edges to match faces

## FACTORY MACHINING

Doors can be prepared for any standard or custom hardware. Precision factory machining and pre-fitting ensure proper hardware preparation for tolerances specified by National Fire Protection Association (NFPA), the Architectural Woodwork Standards (AWS), the Window and Door Manufacturers Association (WDMA) and the Door and Hardware Institute (DHI).



Some of our machining options include:

- Concealed Vertical Rods (Less Bottom Rod - LBR)
- Raceway's (Wire-chases)
- Concealed hinges, Anchor hinges, Pivot hinges
- Mortised door bottoms
- Mortised edge guards

Our expert staff can coordinate your projects to ensure a smooth installation of hardware to doors.

## WOOD JAMBS

Wood and wood veneered jambs in many species.  
Side light jambs are also available.

**Available non-rated, 20 to 90 minute rated.**

**Positive Pressure "S" label available in 20 to 90 minute singles and pairs.**

20 minute rated wood jambs in sizes up to 4'x9' singles and 8'x9' pairs.

## PRESERVATIVE / INSECT TREATMENT

Available on request.

## STILE AND RAIL

Wood doors in various species, sizes, configurations and fire ratings.



# Finishing

Finishing is a very important when dealing with wood for any project. It serves two main purposes in a finished product. The first of course is the appearance, as a good finish can enhance the natural beauty of the wood's color and grain, but probably most important is protection. It is essential for any wood door to have a protective sealant applied as soon as possible to all exposed edges to minimize moisture absorption, UV discoloration and cracking or checking from drying caused from natural moisture escaping.

Transparent (TR) for clear and stain grade and Opaque (OP) for painting which are two typical finishes and each of those can have up to eight different systems that can be specified that offer different levels of protection against wear or chemical contact. The most common finish provided for interior doors is TR-6 and OP-6 which is a Catalyzed Polyurethane finish that is a UV finish system that can be cured within the finishing line. There is an abundance of information in various forms that can be obtained in great depth on the different levels of finishing systems available. WDMA, section "F" and AWS section 5 offer a more in depth outline of the various finish systems and what they entail.

Regardless of the system type it is just as important that the color and sheen are specified when a stain is requested. There are multiple options for staining that begin with a simple single color stain to a culmination of multicolor matching to achieve the final desired hue/color. The final coat or top coat is typically clear and is how the "sheen" or "shine" is achieved. The sheen can vary from a dull or satin to a very high gloss.

One other aspect to consider is the texture that is open grain or filled grain. An open grain will highlight the grain texture, a filled finish will give a very smooth or laminate look.

All finishes are factory applied in a controlled environment and contain no VOCs (Volatile Organic Compounds.)

**Wood, being a natural material, will vary from piece to piece. The stock colors shown below are only samples. No guarantee can be made that the actual product color or grain will duplicate any of the examples below.**

**It is important to have physical samples of the finish / veneer approved prior to finishing the doors.**

*All samples shown with Plain Sliced Red Oak.*



**American Maple**



**Antique Birch**



**Driftwood**



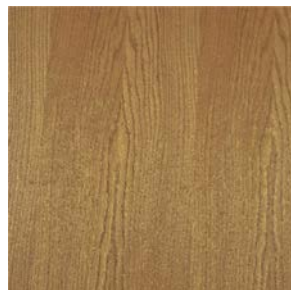
**Fruitwood**



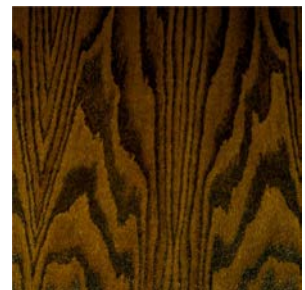
**Golden Brown**



**Madrona**



**Nutmeg**



**Walnut**

# Fire Rated Doors - Single Swing and Pairs

Ratings	20 Minute			45 Minute	
	Single Swing Door and Transom	Pair Regular or Double Egress	Lead Lined Single Swing	Single Swing, Door and Transom	Pair Regular or Double Egress
<b>Positive Pressure "S" Label</b>	Yes*	Yes*	Yes*	Yes*	Yes*
<b>Sizes: Positive Pressure shown</b>	4'x 9' 4'x 9' DR and TR Max Transom = 4'x 3'4"	Up to 8'x9' 6'x10' 8'x 9' 8'x 9' Dbl Egress	4'x 9'	4'x 9' 4'x 9' Door and Transom Max Transom = 4'x 3'4"	4'x 9' Regular 8'x 9' Dbl Egress 8'x 8' CVRE
<b>Protection Plates</b>	48"x 48"	48"x 48"	48"x 48"	48"x 48" Note: 2	48"x 48" Note: 2
<b>EPT</b>	Yes	Yes	Yes	Yes Note: 2	Yes Note: 2
<b>Wire Chase</b>	Yes	Yes	Yes	Yes	Yes
<b>Dutch Door</b>	4'x8' No Vision Panel	N/A	N/A	4'x9' No Vision Panel	N/A
<b>Maximum Vision Panel</b>	1,296 sq. in. 36" Wide 54" High	1,296 sq. in. 36" Wide 54" High	N/A	1,296 sq. in. 2,638 sq. in. Note: 1	1,296 sq. in. 2,638 sq. in. Note: 1
<b>Maximum Louver Fusible Link</b>	N/A	N/A	N/A	24"x 24"	24"X 24' each leaf
<b>Viewers</b>	Up to 1" diameter	Up to 1" diameter	N/A	Up to 1" diameter	Up to 1" diameter
<b>Hinges</b>	Per NFPA #80	Per NFPA #80	Per NFPA #80	Per NFPA #80 Note: 6	Per NFPA #80 Note: 6
<b>Locks</b>	Cylindrical / unit / mortise	Cylindrical / unit / mortise	Cylindrical / unit / mortise	Cylindrical / unit / mortise Note: 7	Cylindrical / unit / mortise Note: 7
<b>Exit Devices</b>	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod
<b>Flush Bolts Top/Bottom for Inactive Leafs</b>	N/A	Listed surface manual or automatic flush bolts.	N/A	N/A	Listed surface manual or automatic flush bolts installed with 28 gauge liner
<b>Edge Guards</b>	Yes, Note: 3	Yes, Note: 3	Yes, Note: 3	Yes, Note: 3	Yes, Note: 3
<b>Concealed Vertical Rod</b>	Yes	Yes, no channel required	N/A	Yes, 5"channel may be required	Yes, 5" channel may be required
<b>Concealed Closers</b>	Yes	Yes	N/A	Yes, Note: 2	Yes, Note: 2
<b>Applied Mouldings</b>	Yes	Yes	No	Yes	Yes
<b>Automatic Door Bottoms</b>	Yes	Yes	No	Yes, Note: 2	Yes, Note: 2

Note: (1) Special glass and stop required/max size 36" x 80". (5) Special blocking required.  
 (2) Special blocking required. (6) Special hinges and pivots require additional blocking.  
 (3) Special edges required. (7) Special hinges and pivots require additional blocking.  
 (4) Special glass and stop required. (8) Contact factory for hardware options.

**\*Contact factory for maximum sizes and options for Neutral and Positive Pressure requirements.**

# Fire Rated Doors - Single Swing and Pairs

Ratings	60 Minute		90 Minute	
	Single Swing, Door and Transom	Pair Regular or Double Egress	Single Swing, Door and Transom	Pair Regular or Double Egress
<b>Positive Pressure "S" Label</b>	Yes*	Yes*	Yes*	Yes*
<b>Sizes:</b> <i>Positive Pressure shown</i>	4'x 9' 4'x 9' Door and Trans. Max Transom 4'x3'4"	8'x 9' Regular 8'x 8' Dbl Egress 8'x 8' CVRE	4'x 9' 4'x 9' Door and Transom Max Transom = 4'x 3'4"	8'x 9' Regular 8'x 8' Dbl Egress 8'x 8' CVRE
<b>Protection Plates</b>	48"x48" Note: 5 page 35	48"x48" Note: 5 page 35	48"x48" Note: 5 page 35	48"x48" Note: 5 page 35
<b>EPT</b>	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35
<b>Wire Chase</b>	Yes	Yes	Yes	Yes
<b>Dutch Door</b>	4'x 9' No Vision Panel	N/A	N/A	N/A
<b>Maximum Vision Panel</b>	100 sq. in. 1015 sq. in. Note: 4 page 35	100 sq. in. 1015 sq. in. Note: 4 page 35	100 sq. in. 1015 sq. in. Note: 4 page 35	100 sq. in. 1015 sq. in. Note: 4 page 35
<b>Maximum Louver Fusible Link</b>	24"x 24"	24"x 24" each leaf	24"x 24"	24"x 24" each leaf
<b>Viewers</b>	Up to 1" diameter	Up to 1" diameter	Up to 1" diameter	Up to 1" diameter
<b>Hinges</b>	Per NFPA #80 Note: 6 page 35	Per NFPA #80 Note: 6 page 35	Per NFPA #80 Note: 6 page 35	Per NFPA #80 Note: 6 page 35
<b>Locks</b>	Cylindrical / unit / mortise	Cylindrical / unit / mortise	Cylindrical / unit / mortise	Cylindrical / unit / mortise
<b>Exit Devices</b>	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod	Listed rim, mortise or vertical rod
<b>Flush Bolts Top/Bottom for Inactive Leafs</b>	N/A	Listed surface manual or automatic flush bolts	N/A	Listed surface manual or automatic flush bolts installed
<b>Edge Guards</b>	Yes, Note: 3, page 35	Yes, Note: 3 page 35	Yes, Note: 3 page 35	Yes, Note: 3 page 35
<b>Concealed Vertical Rod</b>	Yes, 5" channel may be required.	Yes, 5" channel may be required	Yes, 5" channel may be required	Yes, 5" channel may be required
<b>Concealed Closers</b>	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35
<b>Applied Mouldings</b>	Yes	Yes	Yes	Yes
<b>Automatic Door Bottoms</b>	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35	Yes, Note: 2 page 35

**Testing:** Labeled fire doors have been tested in accordance with UL 10(B), CAN 4S 104(ULC-S104), NFPA 252 and UBC 7-2 fire door test standards.

**Labeling:** Testing, inspection and labeling is by Intertek Testing Services/Warnock Hersey, Inc. Vancouver Door Co. is listed to manufacture and machine fire rated wood doors. Labels are affixed to hinge edge at eye level, or on top rail if positive pressure.

## Matrix for LEED Credit Contributions

Developed by the US Green Building Council (USGBC), Leadership in Energy and Environmental Design (LEED) provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

The matrix below identifies the wood doors (Veneered and laminated faces) that qualify for credits for a specific project. All LEED projects must be specified when submitting a quote request or a purchase order to ensure that you obtain the necessary contributions from the doors. Please feel free to contact us with any questions or if you need additional information. 1-800-999-3667

All Vancouver Door products are in compliance with California Air Resource Board (CARB) Phase 2 requirements.

<b>Product Type (Wood and HPDL Faces)</b>	<b>MR 4.1</b>	<b>MR 4.2</b>	<b>MR 5.1</b>	<b>MR 5.2</b>	<b>MR 6</b>	<b>MR 7</b>	<b>EQ 4.4</b>
<b>310 - Hollow Core (HC)</b>	Yes	Yes	No	No	No	No	No
<b>510 - Institutional Hollow Core (IHC)</b>	Yes	Yes	No	No	No	No	No
<b>520P - Particle Core (PC)</b>	Yes	Yes	No	No	No	No	Yes
<b>520A - Agrifiber Core (AC)</b>	No	No	No	No	Yes	No	Yes
<b>520S - Staved Lumber Core (SLC)</b>	No	No	No	No	No	No	Yes
<b>520C - Structural Composite Lumber Core (SCLC)</b>	No	No	No	No	No	No	Yes
<b>600P - Lead Lined (LLPC)</b>	Yes	Yes	No	No	No	No	Yes
<b>600S - Lead Lined (LLSLC)</b>	No	No	No	No	No	No	Yes
<b>600C - Lead Lined (LLSCLC)</b>	No	No	No	No	No	No	Yes
<b>650P - Bullet Core (BCPC)</b>	Yes	Yes	No	No	No	No	Yes
<b>745M - Mineral Core (MC45)</b>	Yes	Yes	No	No	No	No	Yes
<b>760M - Mineral Core (MC60)</b>	Yes	Yes	No	No	No	No	Yes
<b>790M - Mineral Core (MC90)</b>	Yes	Yes	No	No	No	No	Yes
<b>836 - Sound Transmission Class (STC36)</b>	Yes	Yes	No	No	No	No	Yes
<b>839 - Sound Transmission Class (STC39)</b>	Yes	Yes	No	No	No	No	Yes
<b>840 - Sound Transmission Class (STC40)</b>	Yes	Yes	No	No	No	No	No
<b>841 - Sound Transmission Class (STC42)</b>	Yes	Yes	No	No	No	No	No
<b>843 - Sound Transmission Class (STC43)</b>	Yes	Yes	No	No	No	No	No

**MR 4.1 Recycled Content: 10% (Post Consumer + 1/2 Pre-Consumer)**

**MR 4.2 Recycled Content: 20% (Post Consumer + 1/2 Pre-Consumer)**

**MR 5.1 Regional Materials: 10% Extracted, Processed and Manufactured Regionally**

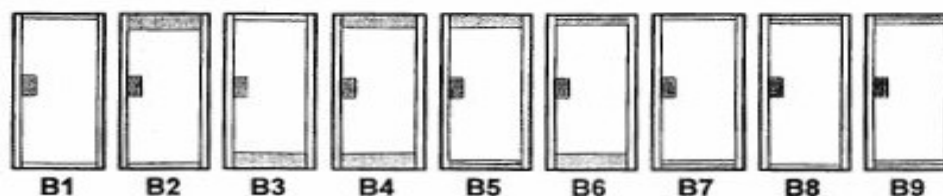
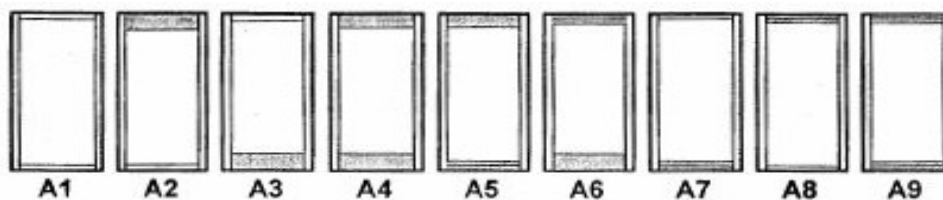
**MR 5.2 Regional Materials: 20% Extracted, Processed and Manufactured Regionally**

**MR 6 Rapidly Renewable Materials**

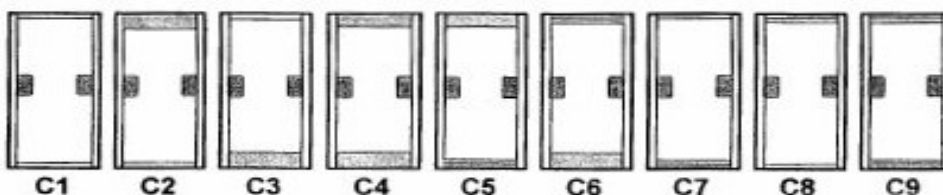
**MR 7 Certified Forest Products (FSC)**

**EQ 4.4 Low-Emitting Materials – No Added Urea Formaldehyde (NAUF)**

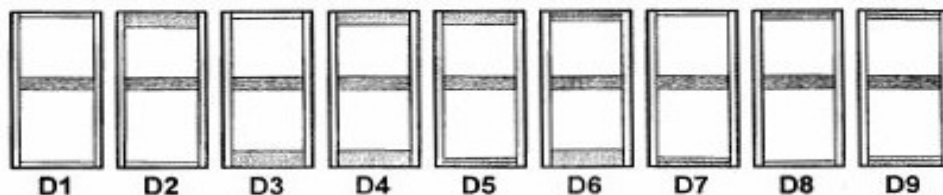




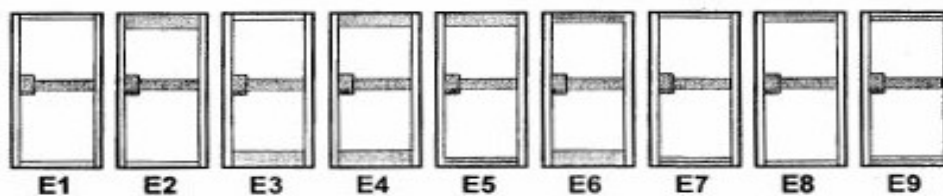
\*\*\* SAME AS "A" SERIES BLOCKING TO INCLUDE 1 EACH LOCK BLOCK.



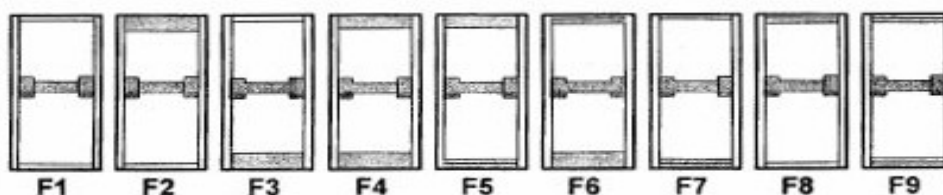
\*\*\* SAME AS "A" SERIES BLOCKING TO INCLUDE 2 EACH - LOCK BLOCK.



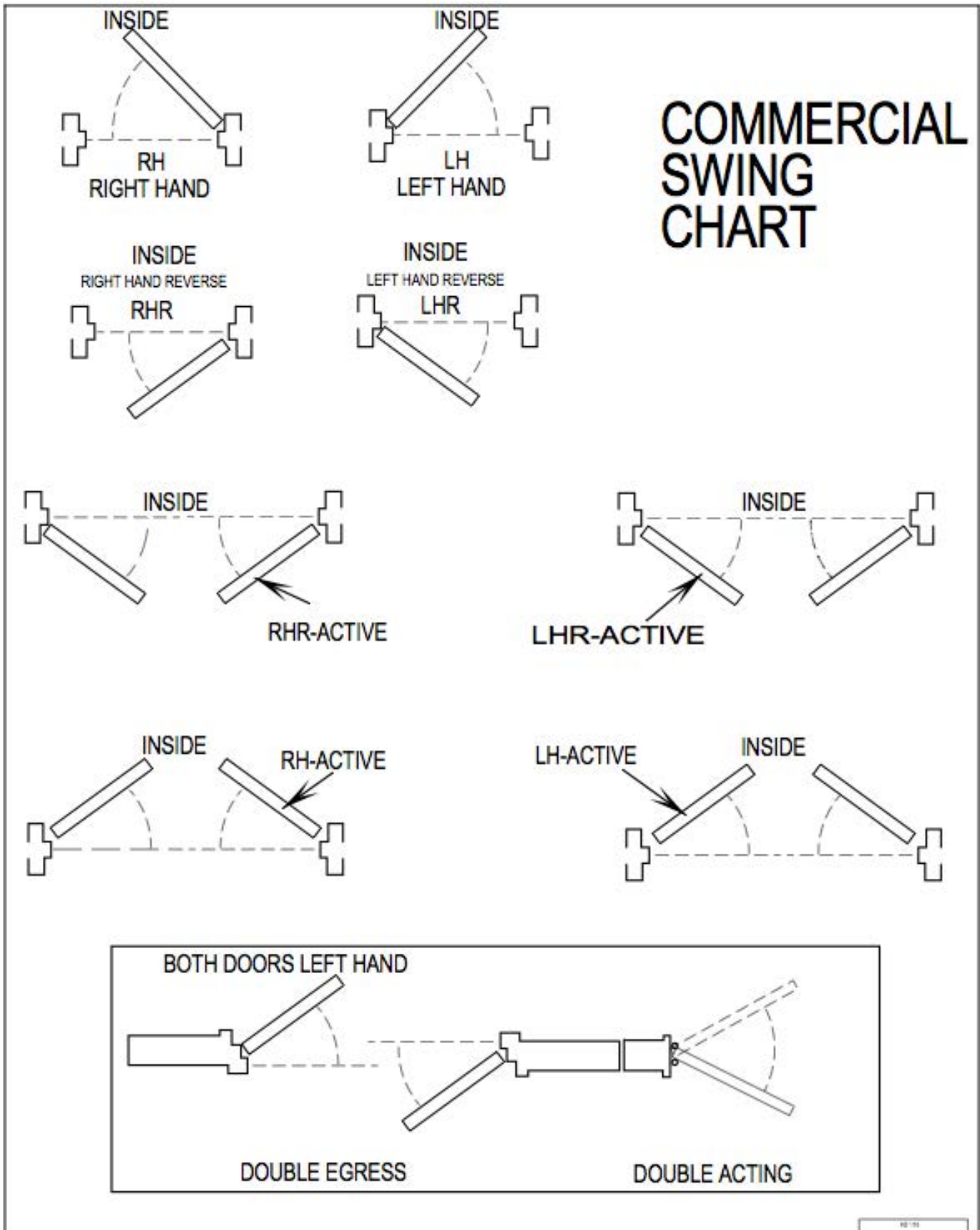
\*\*\* SAME AS "A" SERIES BLOCKING TO INCLUDE 1 EACH - INTERMEDIATE RAIL.



\*\*\* SAME AS "A" SERIES BLOCKING TO INCLUDE 1 EACH - LOCK BLOCK & INTERMEDIATE RAIL.



\*\*\* SAME AS "A" SERIES BLOCKING TO INCLUDE 2 EACH - LOCK BLOCK & INTERMEDIATE RAIL.



## Tulalip Resort And Casino



## Hilton Hawaiian Village Waikiki



## Fort Harrison Hotel





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