



Architectural Design Guide & Profile Book

ARCHITECTURAL ELEMENTS



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B**Mantles**

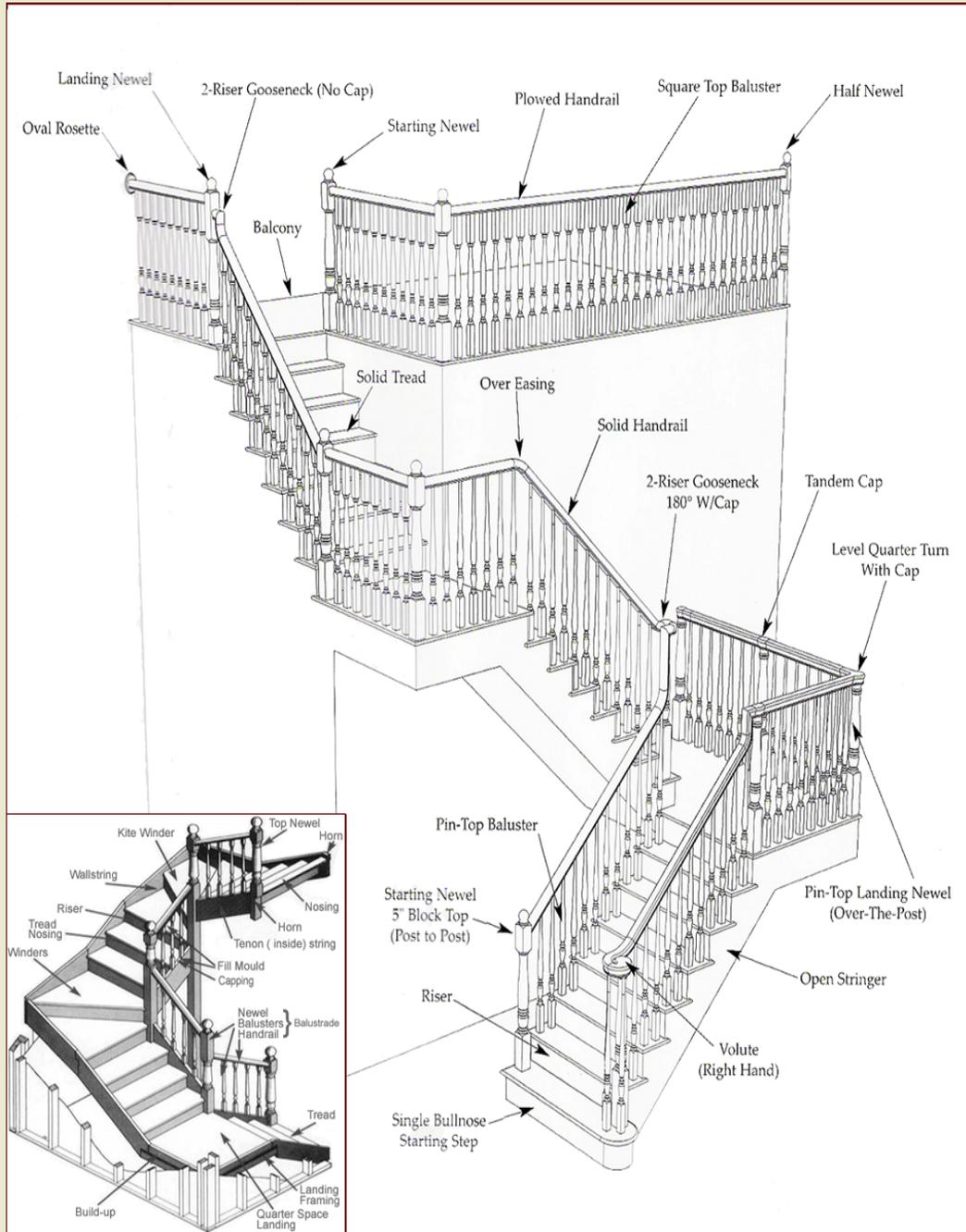
The staircase is one of the most dramatic statements a home can make, a blend of form and function. Much more than a simple means to change levels, staircases are a complex system that allows the builder, designer and homeowner to showcase the style and feel of the home.

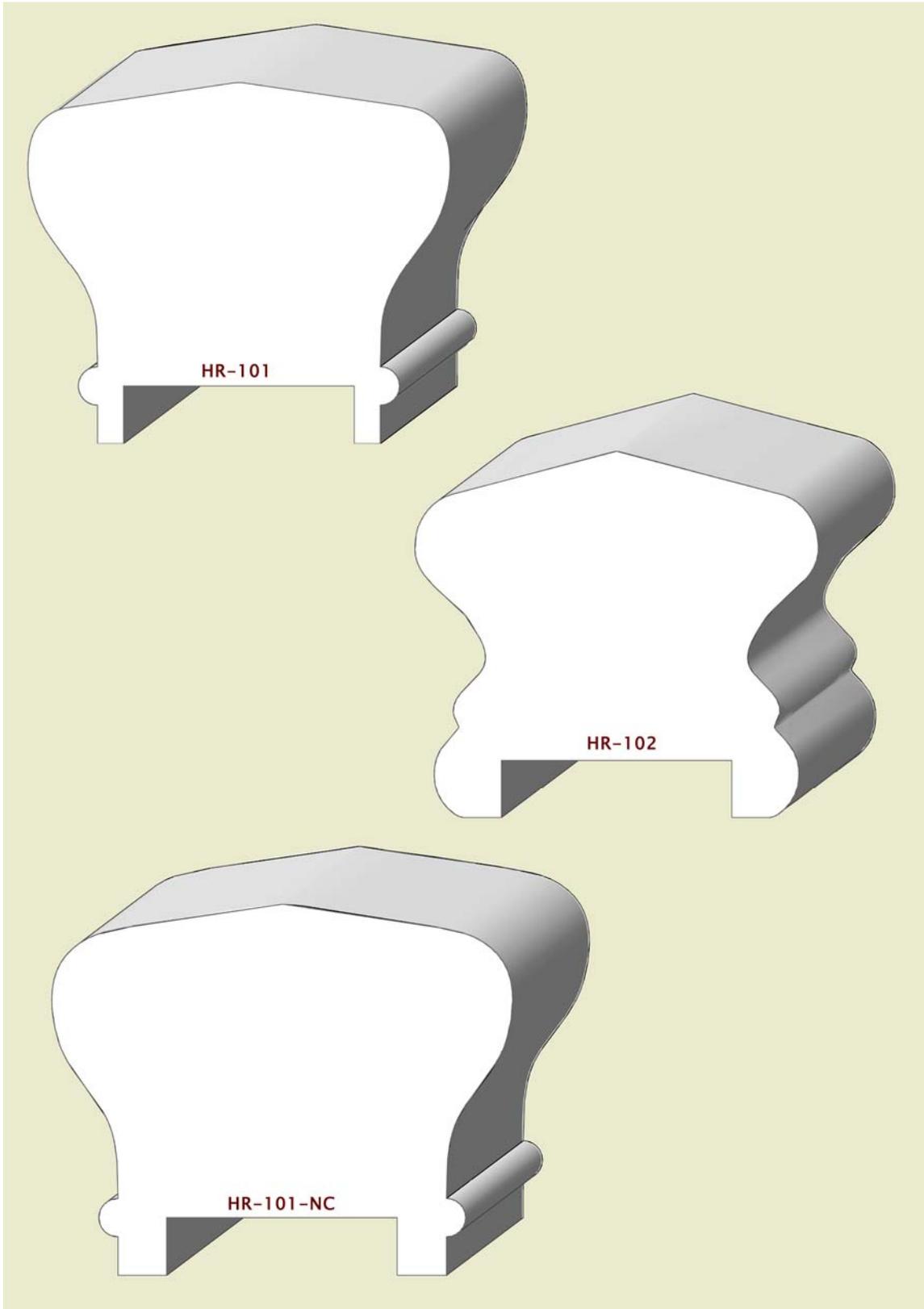
MDB Industries produces an array of staircase parts and components to assist in the fabrication of on-site or 3rd party constructed staircases. The following pages contain some examples of various profiles, parts and styles of common staircase components, as well as illustrations to help determine your necessary component(s).

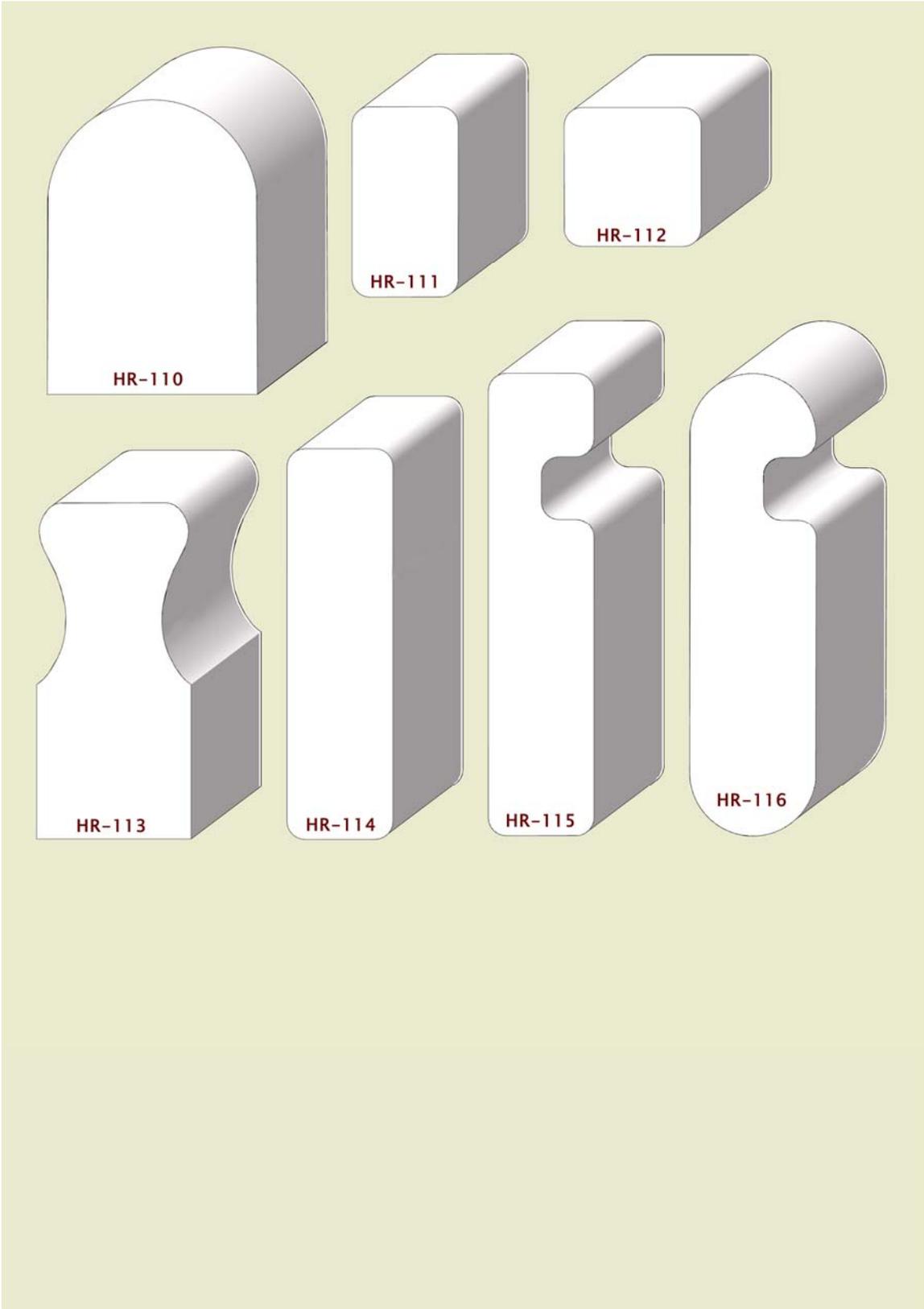
Custom work is welcomed, whether drawn by the designer/architect, sketched by the builder or homeowner, or an example is provided to be replicated. Our 4 axis CNC machining capability enables us to quickly produce custom work, whether it's a handrail transition or unique baluster profile for your entire staircase.

Restoration of historic or vintage stair components, in particular handrail transitions, can be challenging to source, and time consuming to produce. Our in house digital measuring and modeling allows us to create precise digital models of the original piece, and quickly manufacture the needed component.

At this time, MDB Industries does not offer stringer manufacturing, nor assembly or installation of any staircase component



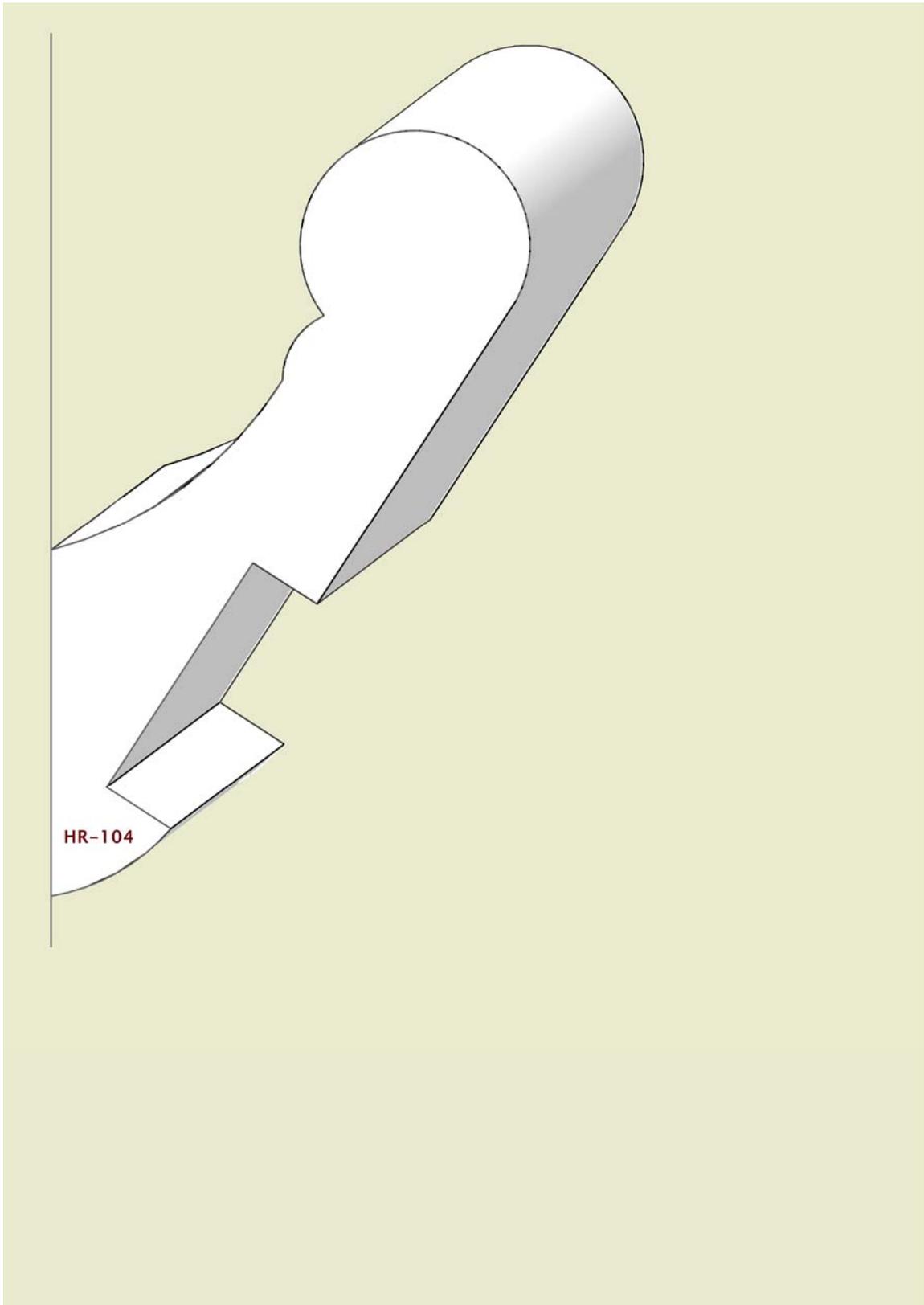


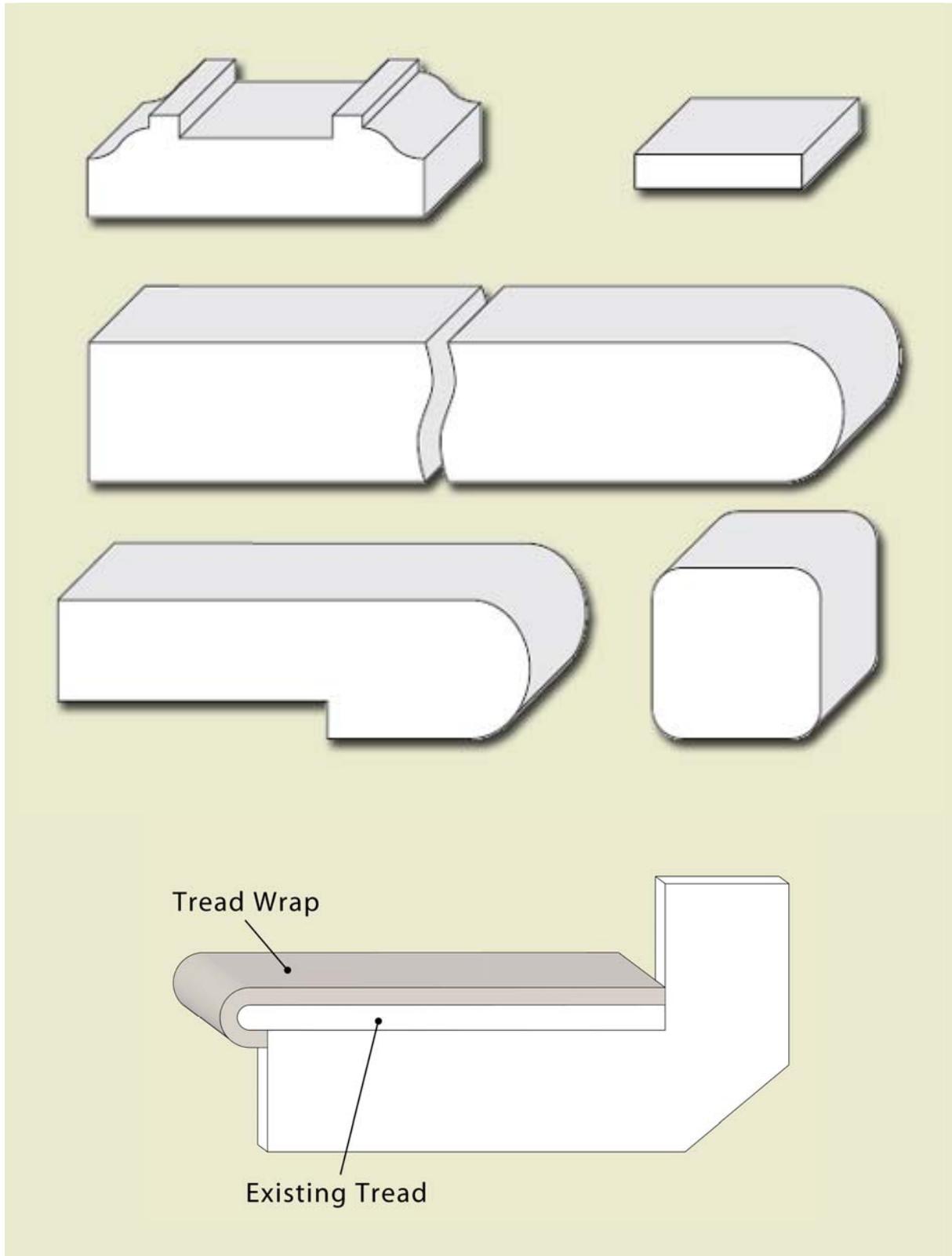


C

Staircasing

Sample Handrails

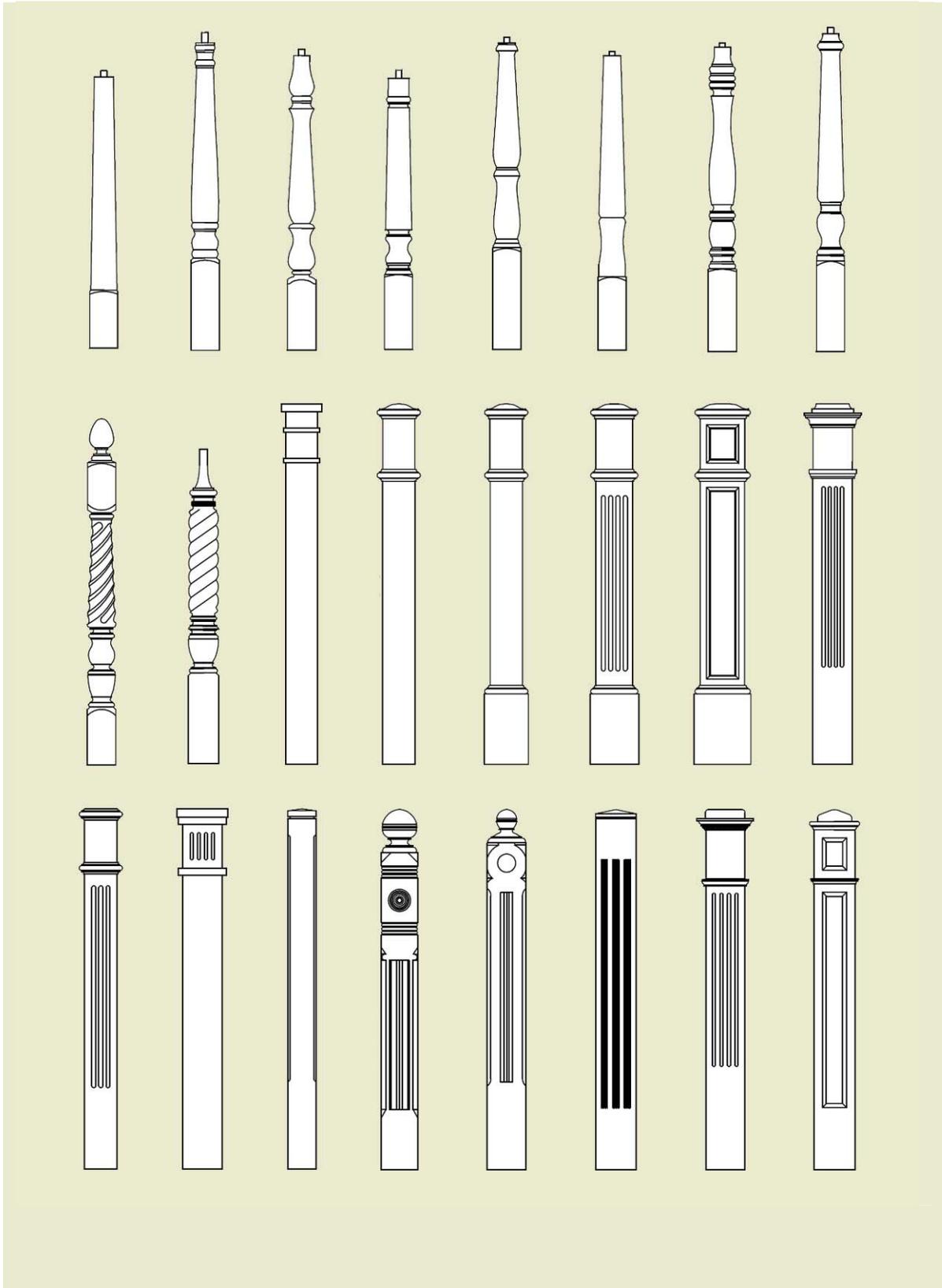


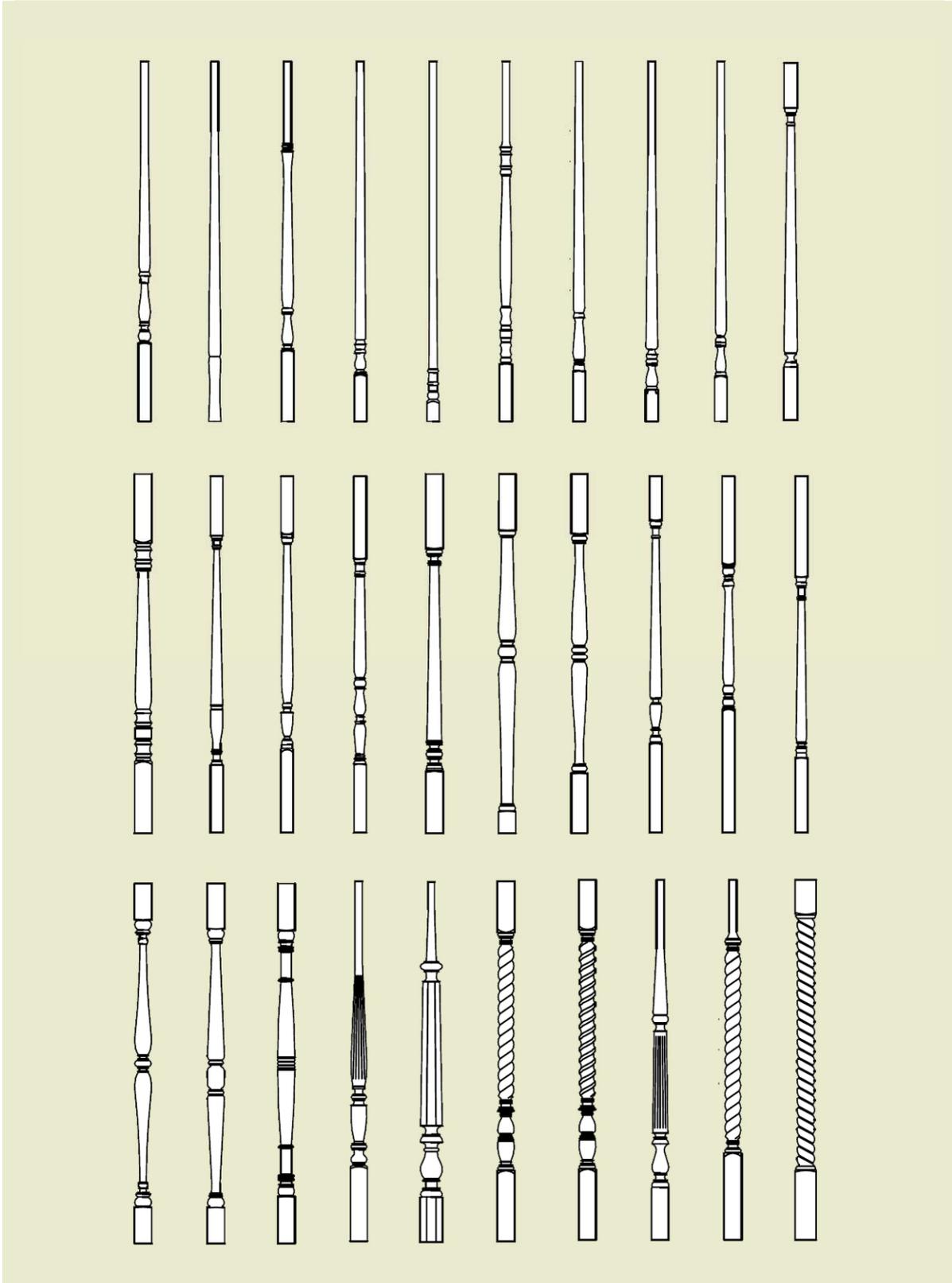


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Staircasing

Newel Posts

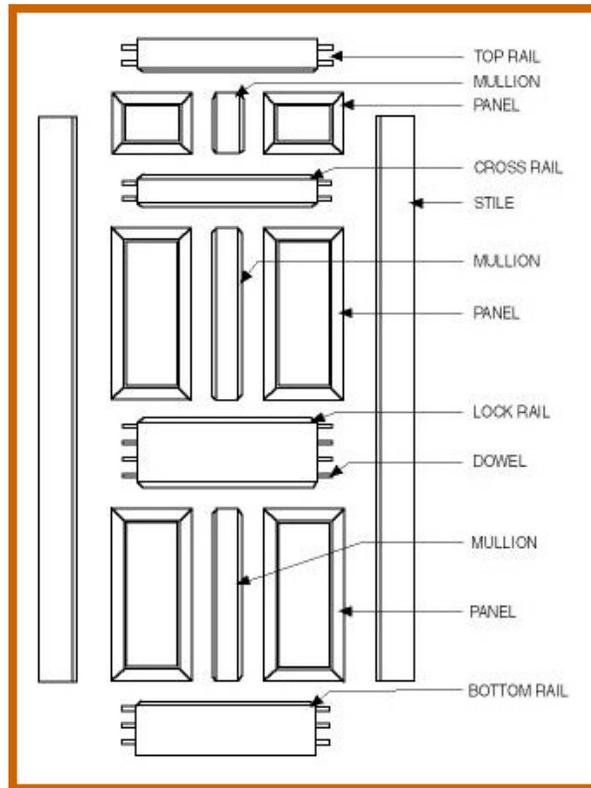




D

Doors

Door Anatomy



Standard Interior Door Specifications:

Door Width	12-18"	20-22"	24-36"	Bifold
Stile Width	2.25"	4.5"	4.5"	2.125"
Rail Widths:				
Top	4.82"	4.82"	4.82"	4.82"
Cross	4.5"	4.5"	4.5"	4.5"
Lock	7.5"	7.5"	7.5"	7.5"
Bottom	8.875"	8.875"	8.875"	8.875"
Mullions	4.5"	4.5"	4.5"	4.5"
Panel Number	2 or 3	2 or 3	4 or 6	4 or 6
Door Height	80", 84", 96"	80", 84", 96"	80", 84", 96"	79", 83", 95"

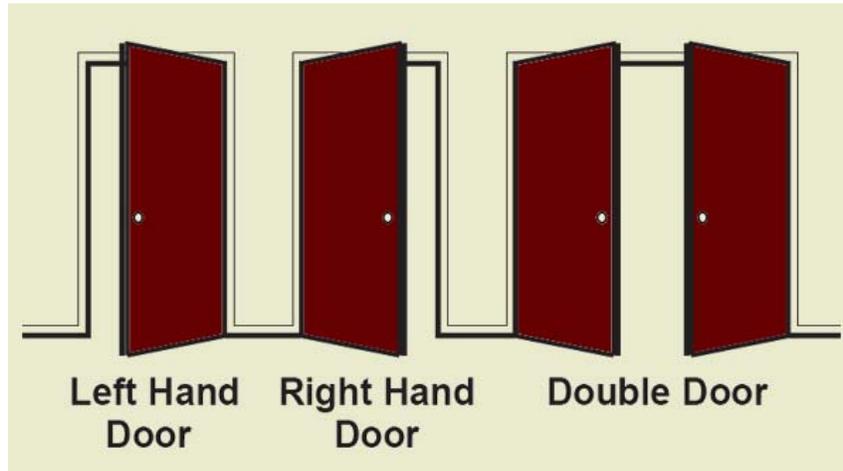
Door Thickness: 1-3/8" or 1-3/4" Typical. Custom thicknesses upon request.

Raised Panel Thickness: 3/4" Typical. Custom thicknesses upon request.

Flat Panel Thickness: 1-3/8" doors get 1/4" panel, 1-3/4" doors get 1/2" panel.

Door Handing:

Below is an illustration of industry terminology for door functioning.

**Slab & Pre-Hung:**

Slab: A door with no holes drilled for hinges or lock sets, and no jams.

Pre-Hung: A door slab mounted and hinged to a jamb set with appropriate boring or mortising for lock sets and shipped as an assembled unit.

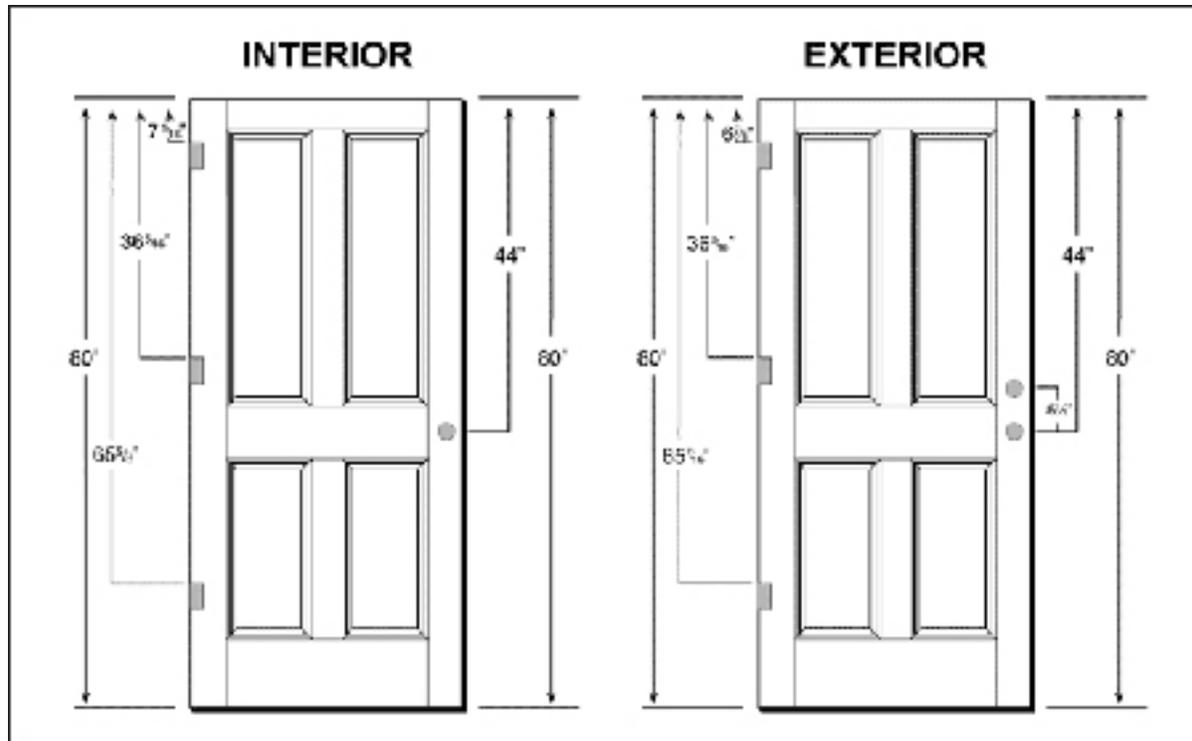
Rough Opening (RO):

The Rough Opening (RO) will be 2 ½" larger than the nominal size of the door. For Example: a 36" x 80" door needs a 38 ½" x 82 ½" RO.

Bi-fold doors are 2" over in width and 2" in height.

Door Hardware

MDB Industries strongly recommends Von Morris hardware for their exceptional quality, function, and finish. To view their catalog, please visit their website at <http://www.vonmorris.com>.

**Door Hinges:**

	Hinge Size	Hinge Number	Door Height
1-3/8" Door	3-1/2" x 3-1/2"	3	80" or 84"
	4" x 4"	4	96"
1-3/4" Door	4" x 4"	3	80" or 84"
	4" x 4"	4	96"

Standard Handleset Bore: 2-1/8"

Standard Latch Bore: 1"

Standard Strike Bore: 7/16"

Standard Backset: 2-3/8"

Standard Latch Mortise: 3/16" x 1" x 2-1/4"

Standard Strike Mortise: 1/16" x 1" x 2-1/4"

Hinge Components

- Knuckle:** A pair of cylinders that work as the rotation point. Commonly 2, 3, or 4 knuckles per hinge.
- Plain Bearing:** The edge of each side of the knuckle ride against each other with no additional bearing surface.
- Ball Bearing:** A ball bearing is inserted between the two halves of the hinge to provide smoother rotation, ideal for thicker or heavier doors.
- Olive Knuckle:** A single knuckle hinge in an elliptical shape, can be decoratively cast.
- Paumelle:** A single knuckle hinge resembling a cylinder with squared ends.
- Finial:** A decorative cap attached to the end of a rod, such as a door pin or curtain rod.

Lock Set Types:

- Bored:** A lock or latch whose parts are intended for installation in holes bored in a door.
- Mortise:** A lock which is mortised into the edge of a door which combines the two functions normally required on a door; latching and bolting (deadbolt).
- Additional Styles:**
- Foot Bolt:** A type of bolt applied at the bottom of a door and arranged for foot operation. Generally, the bolt head is held up by a spring when the door is unbolted.
- Cremone:** A surface mounted device, that by a turn of a knob or lever handle, locks the door or sash into the frame, top and bottom.

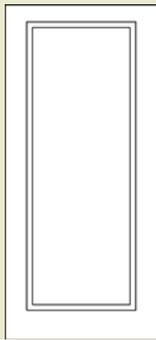
Exterior Doors

All Exterior doors are custom, and by quote only.

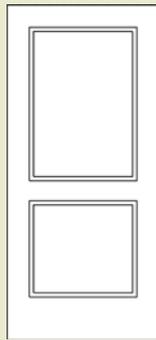
D

Doors

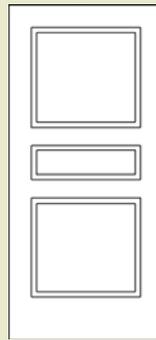
Style Samples



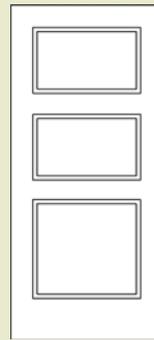
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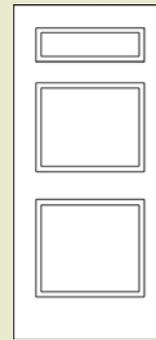
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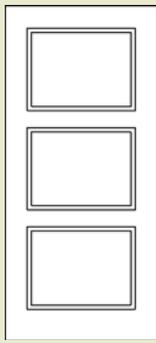
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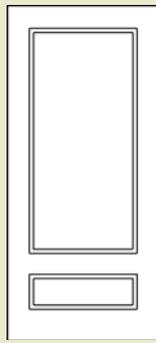
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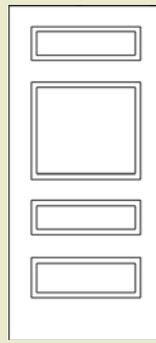
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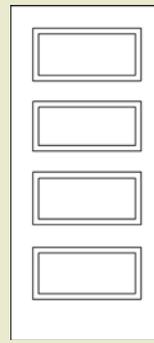
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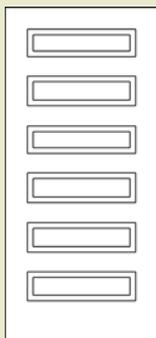
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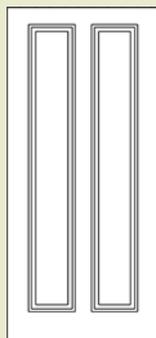
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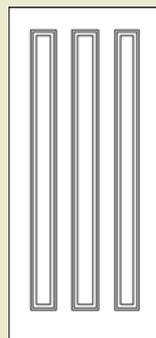
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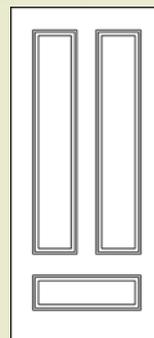
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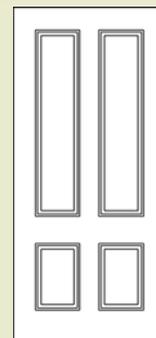
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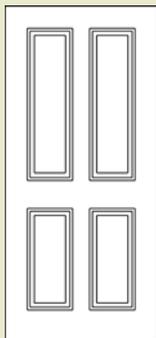
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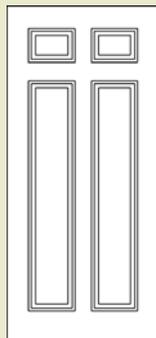
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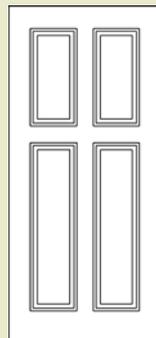
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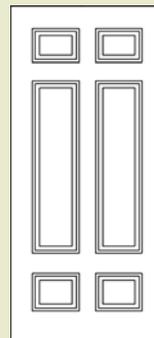
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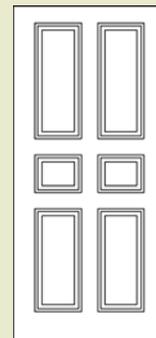
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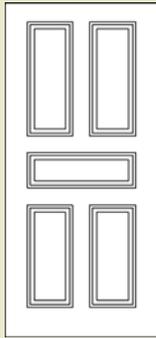
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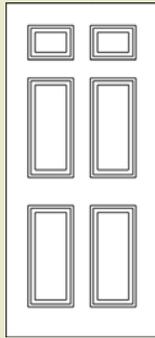
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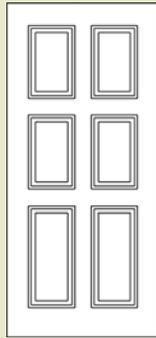
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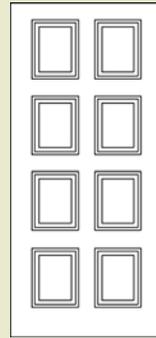
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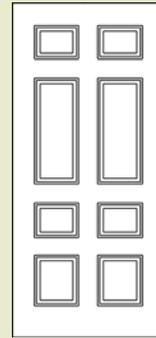
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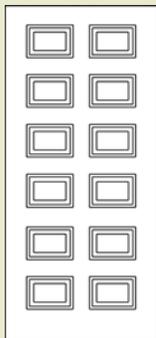
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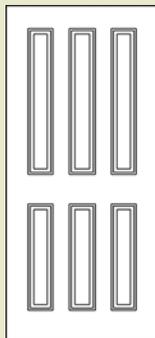
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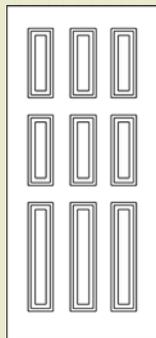
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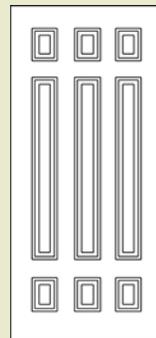
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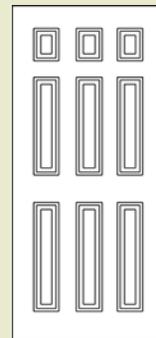
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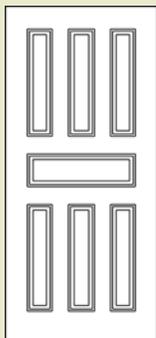
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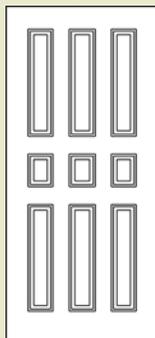
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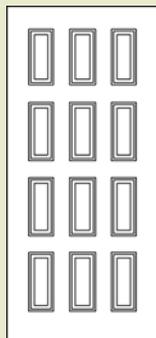
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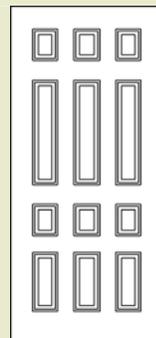
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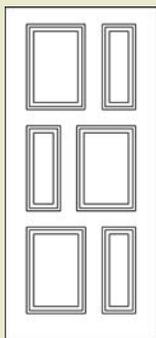
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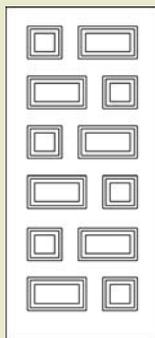
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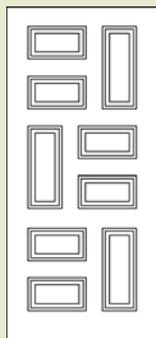
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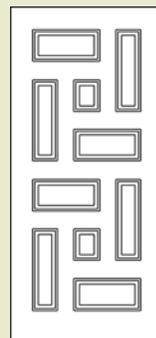
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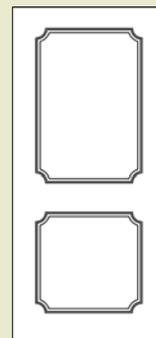
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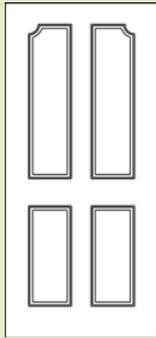


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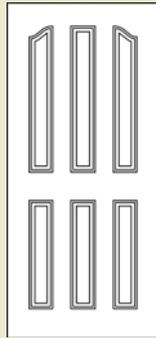
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Doors

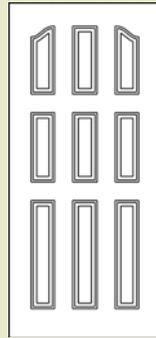
Style Samples



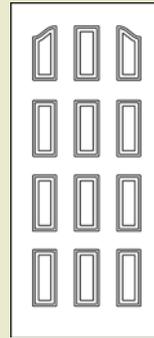
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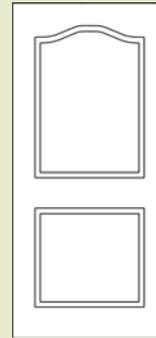
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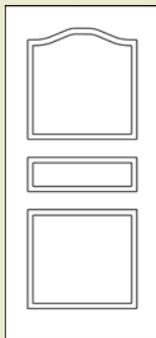
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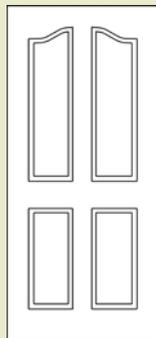
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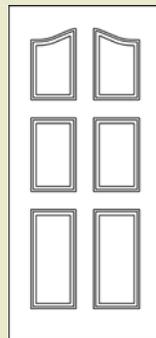
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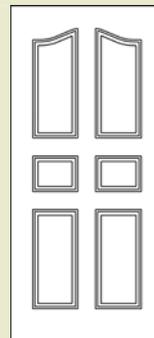
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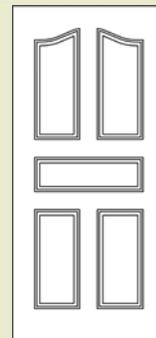
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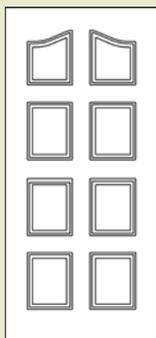
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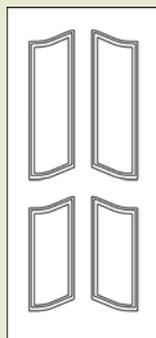
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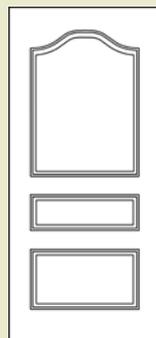
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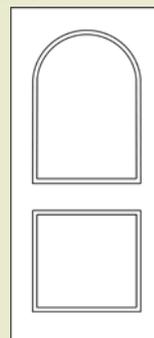
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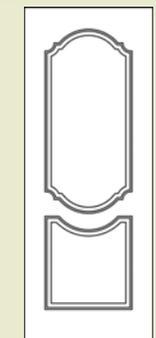
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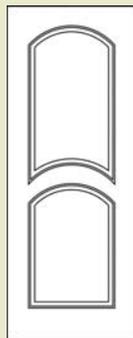
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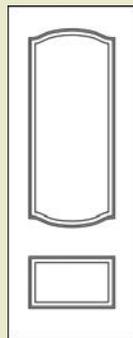
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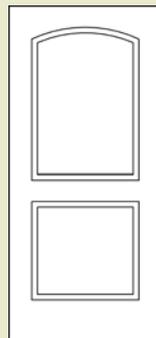
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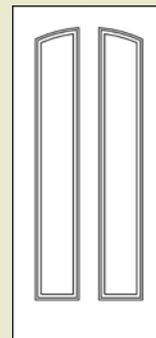
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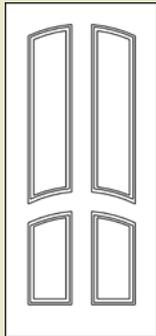
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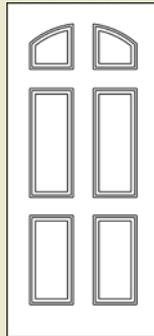
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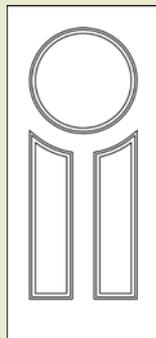
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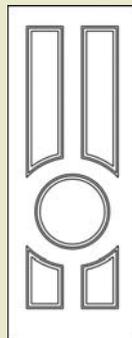
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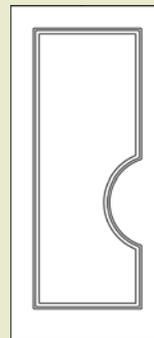
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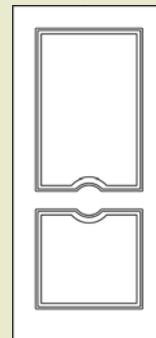
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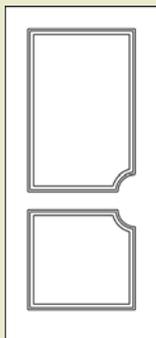
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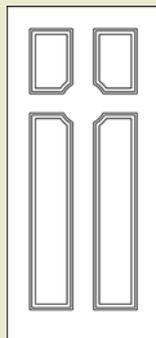
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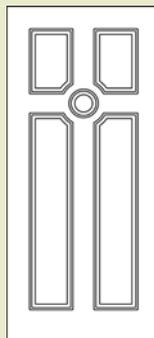
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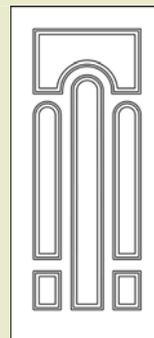
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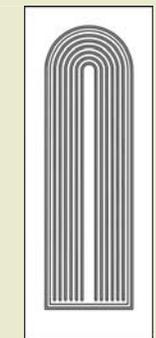
D172



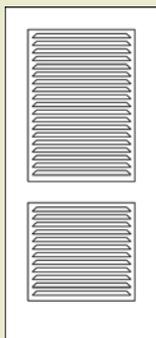
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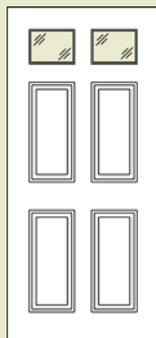
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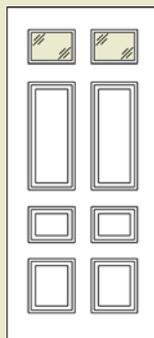
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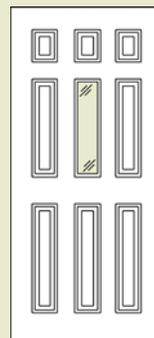
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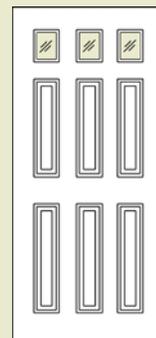
D177



D178



D179

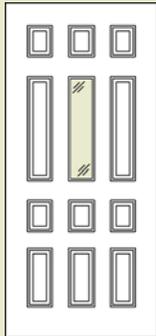


D180

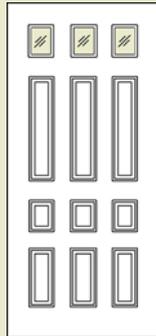
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Doors

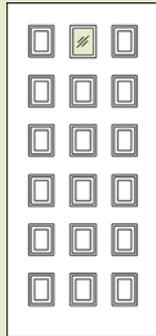
Style Samples



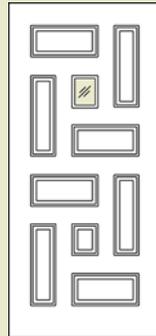
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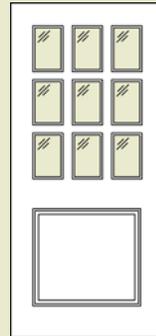
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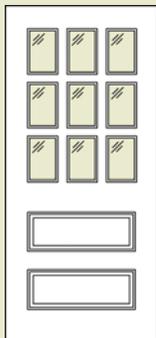
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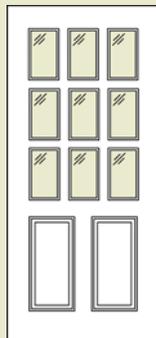
D184



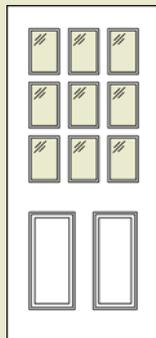
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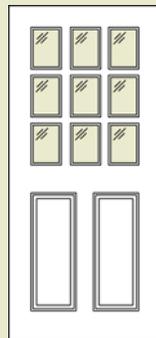
D186



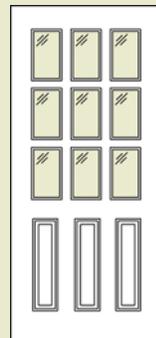
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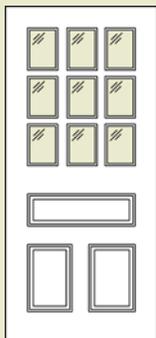
D188



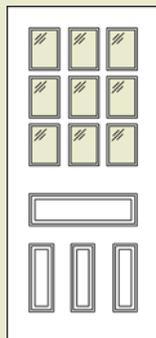
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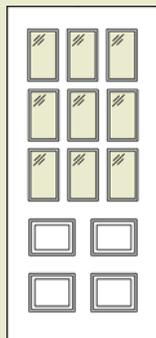
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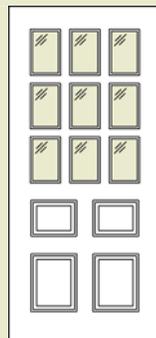
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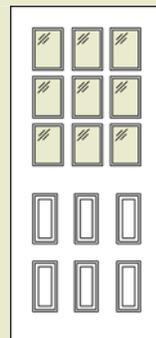
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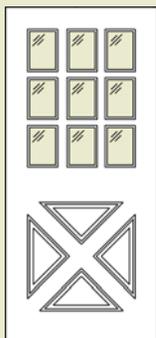
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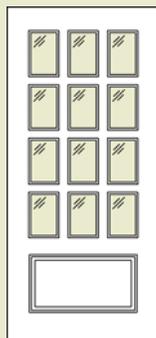
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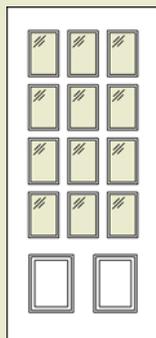
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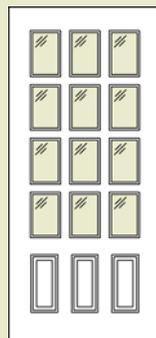
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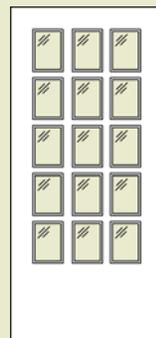
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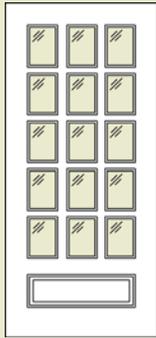
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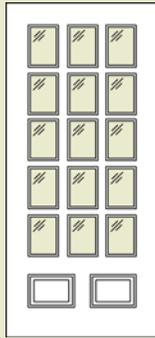
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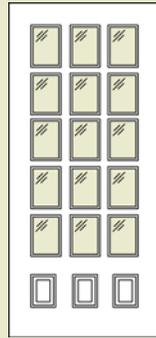
D200



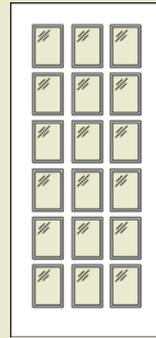
D201



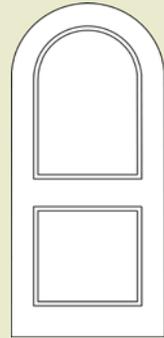
D202



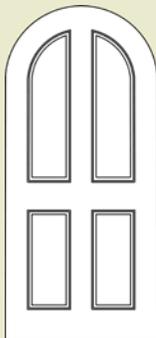
D203



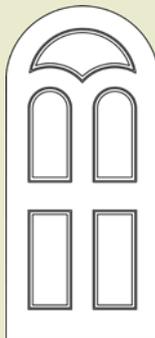
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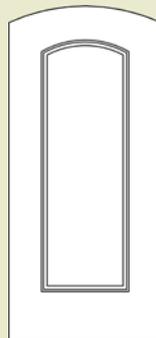
D205



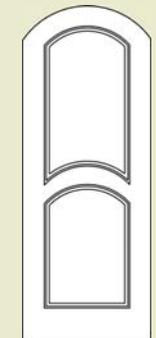
D206



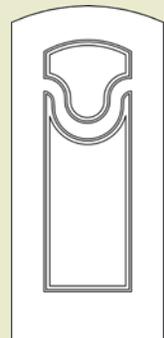
D207



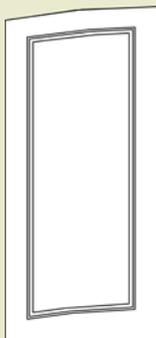
D208



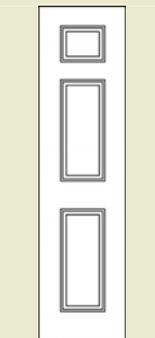
D209



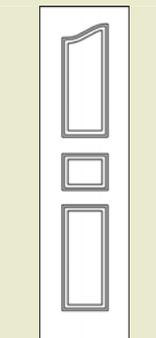
D210



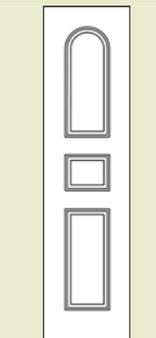
D211



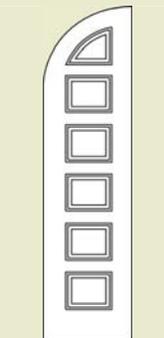
D212



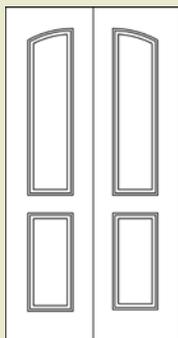
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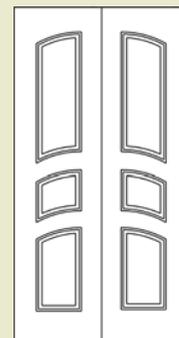
D214



D215



D216



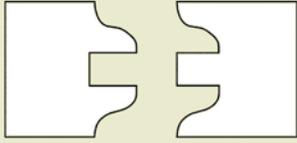
D217

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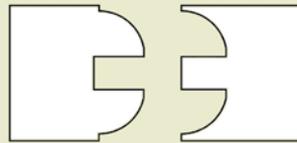
Doors

Stile, Rail, and Panel Profiles

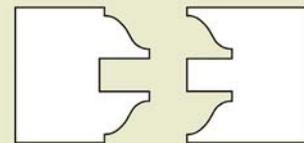
Stile and Rail Interior Door Profiles



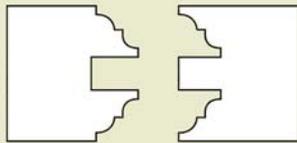
DSR-501



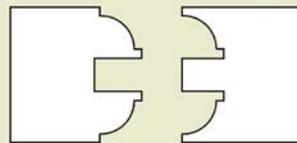
DSR-502



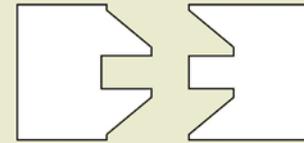
DSR-503



DSR-504

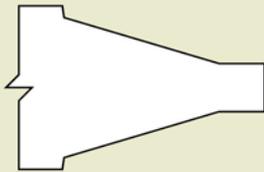


DSR-505

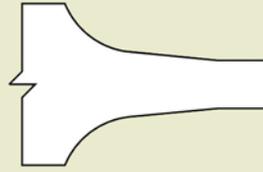


DSR-506

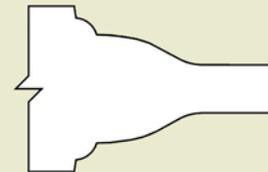
Door Panel Profiles



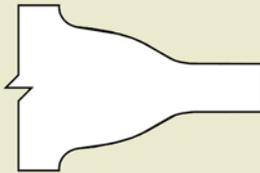
PNL-101



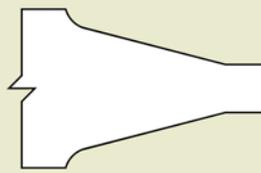
PNL-102



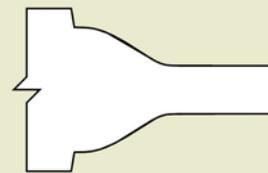
PNL-103



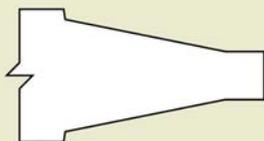
PNL-104



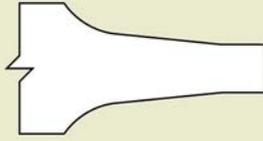
PNL-105



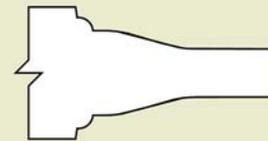
PNL-106



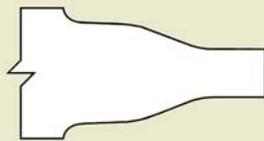
PNL-107



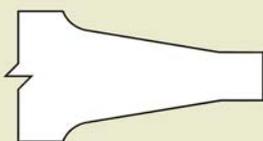
PNL-108



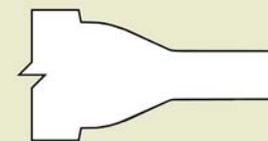
PNL-109



PNL-110



PNL-111



PNL-112



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