



Architectural Design Guide & Profile Book



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Thank you for choosing MDB Industries for your project. Our capabilities give you the advantage of a large scale, production plant, but with personal attention and care for each step of your project. We look forward to turning your vision into reality.

Inside you will find an illustrative guide to common trim, door and mantel designs, and staircase parts, but it is intended as a starting point only; almost any part or piece can mix and match another to create exactly the unique style you are looking for.

We do not stock any profiles. Everything is run on an as-needed basis. The Profiles Section is incomplete, as it is not updated with every new profile we run, but rather in batches. If you don't see what you are looking for, or need to match an exact profile, we are happy to create it for you.

Profile dimensions can often be adjusted within reason, as well as additional features such as tongue and grooving, chamfering, rebate cut's etc. added. Typically, a back-out relief cut or "plow" is used on the backside of the board, but is not represented in these images. Some profiles however do not allow the use of a relief cut as it ruins the structural integrity of the piece.

The profiles are organized within this book by their typical or ordered use, but that doesn't mean they cannot be used otherwise. For example, crown angles can be milled onto a casing, or a casing can be used as a chair rail. Profiles that have a significant amount of flat or non-profiled area can often be adjusted for height or width.

We also offer a selection of wall and ceiling coverings, as well as flooring and miscellaneous profiles for special projects. Our stairs section provides information regarding turnings and other stair parts to make on site fabrication easier and more cost effective or for repair and restoration.

MDB Industries is happy to work with customer supplied materials. Our sawing and kiln drying capabilities enables us process your timber, standing or down, into ready to install product for your home or project. We can also supply raw or dressed (S4S) stock with your mouldings for cabinet construction or other on-site projects.

Thank you again for choosing MDB Industries for your Architectural Millwork needs. We look forward to working with you on your project!

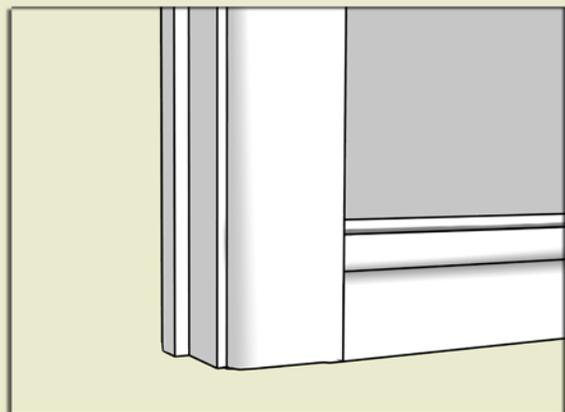
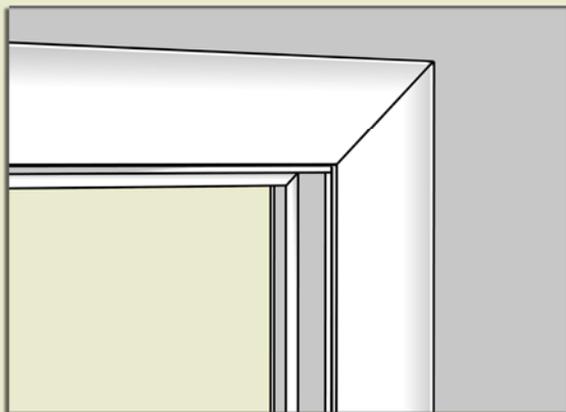
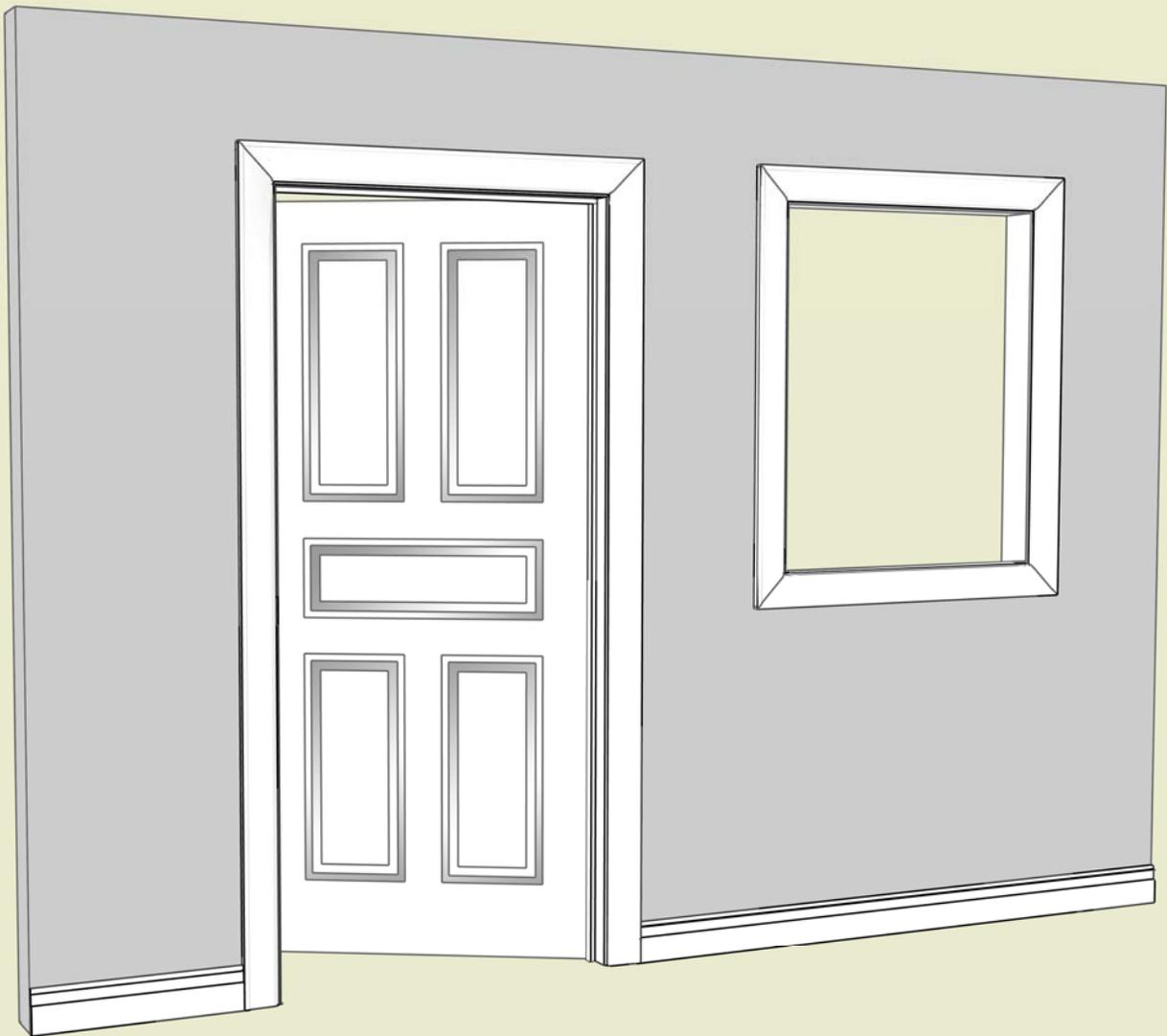


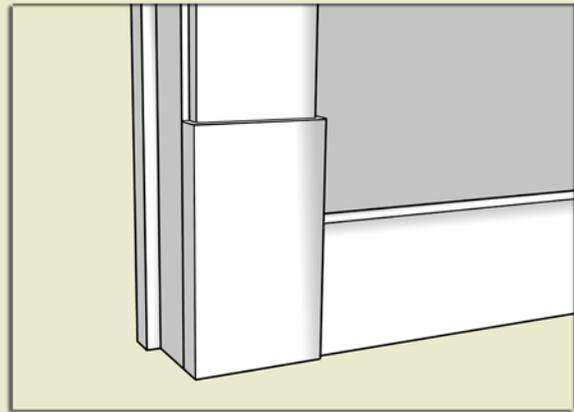
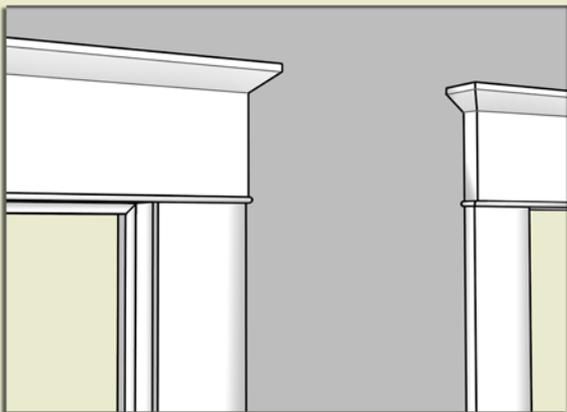
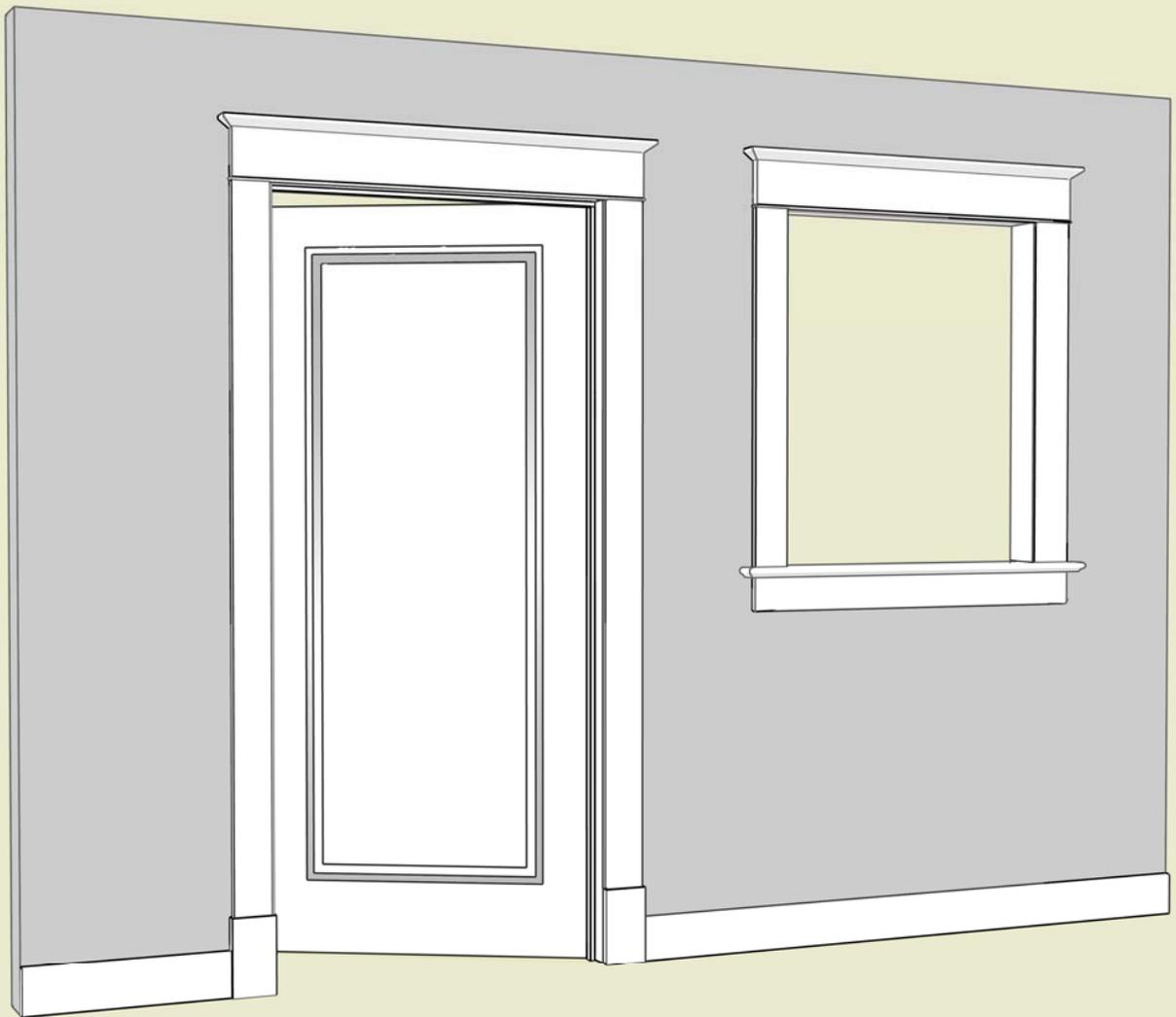
Carlton Wilson, President
MDB Industries, Inc.

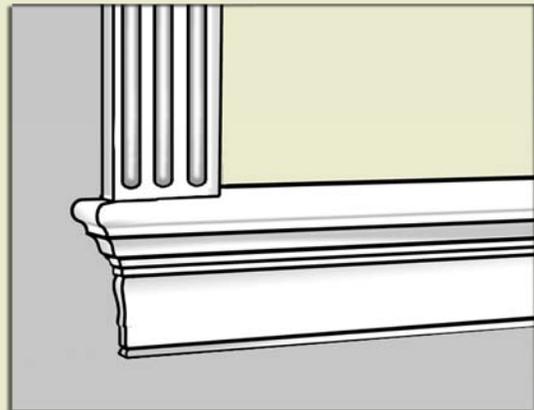
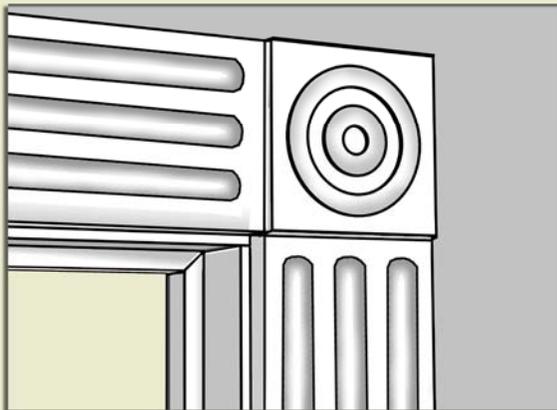
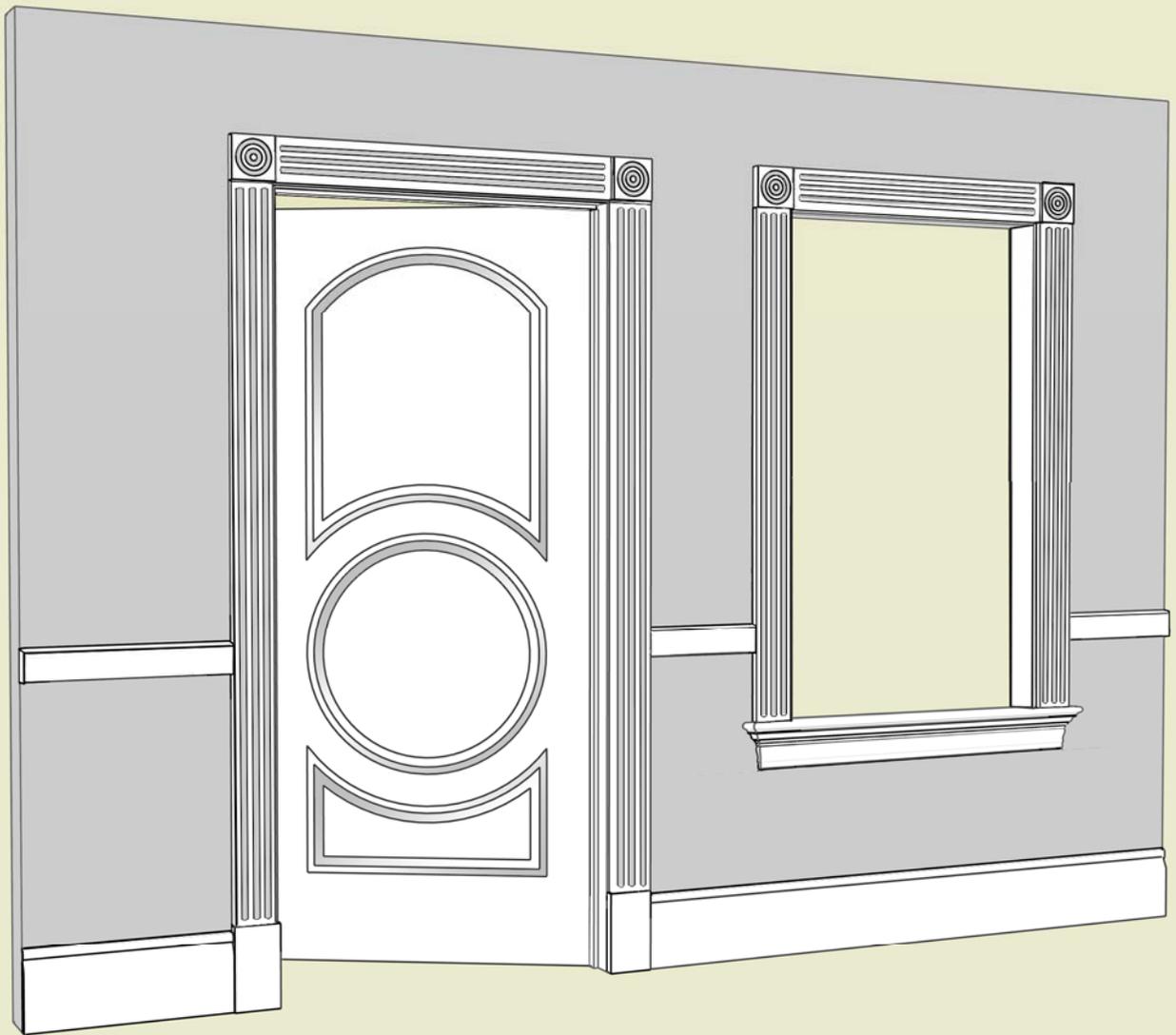
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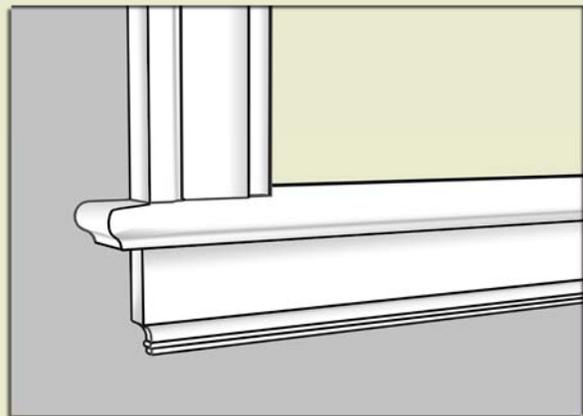
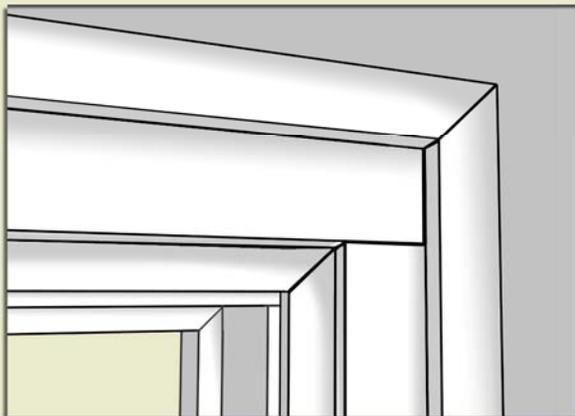
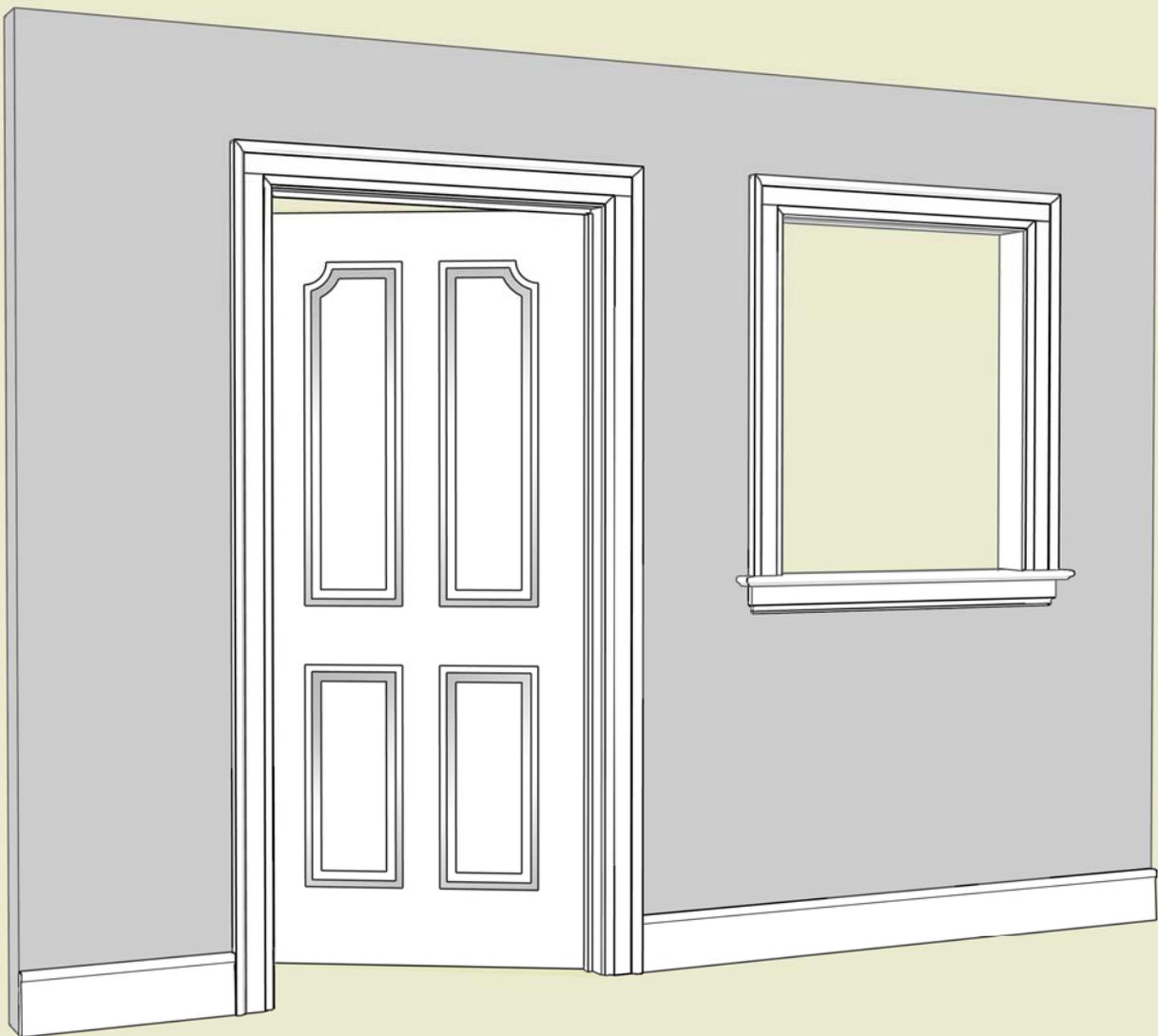
Trim Styles

Mitered





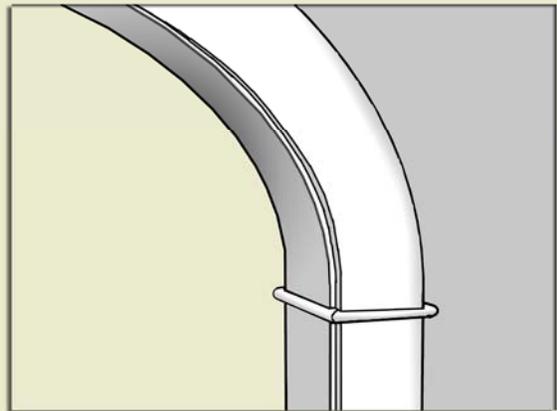
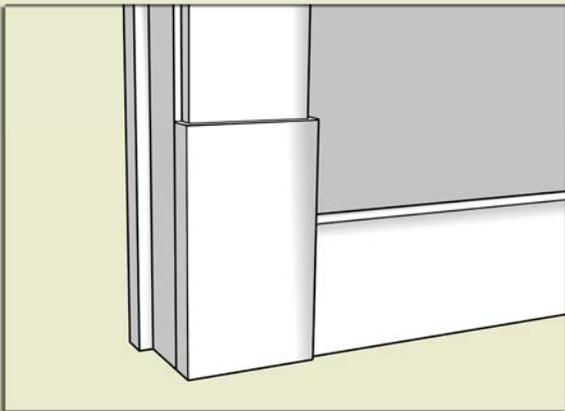
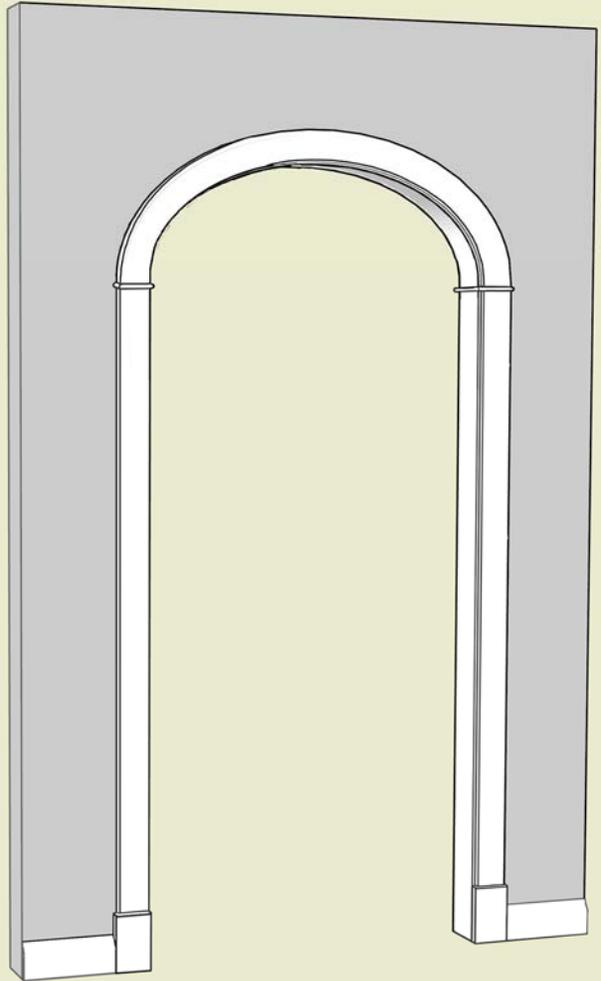
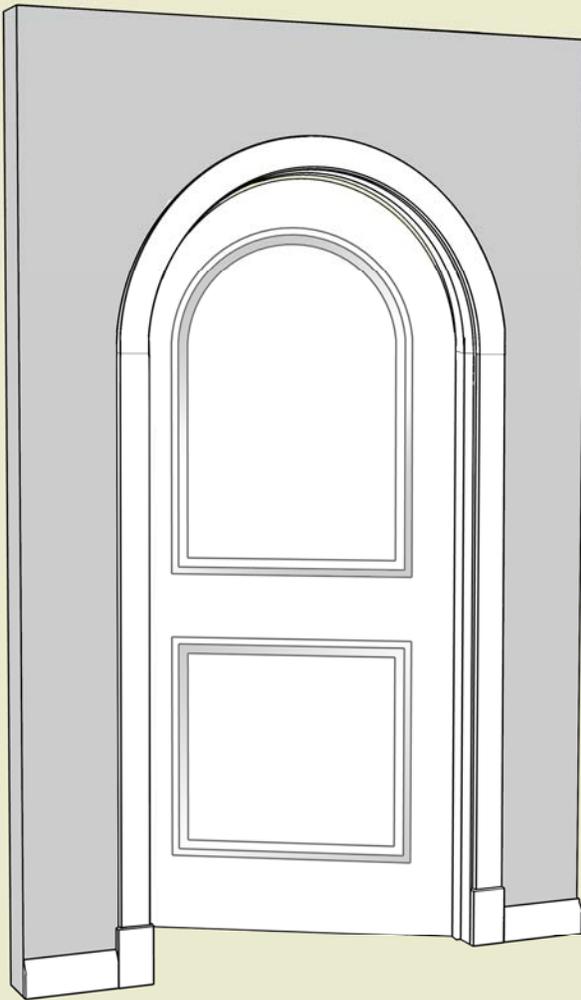


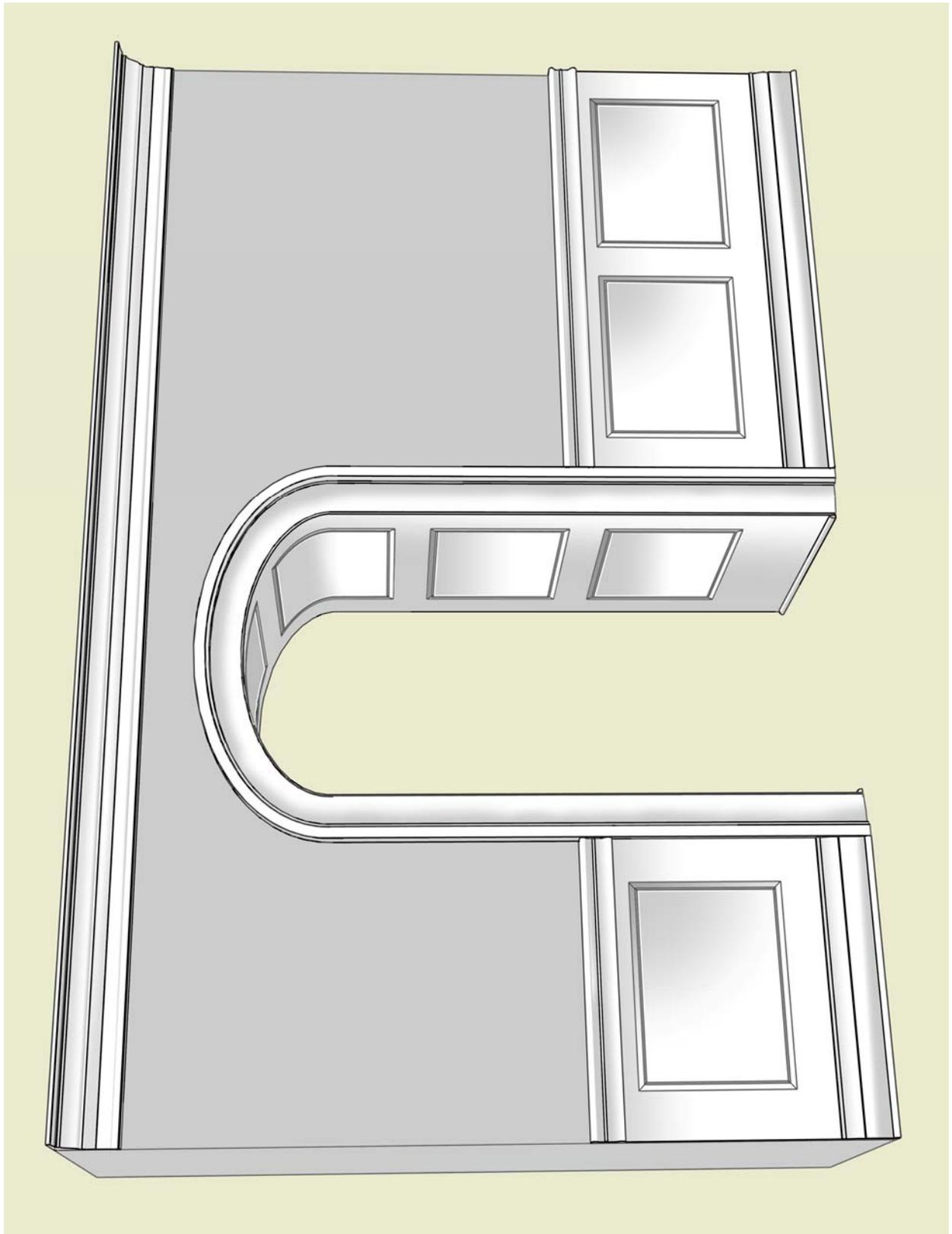


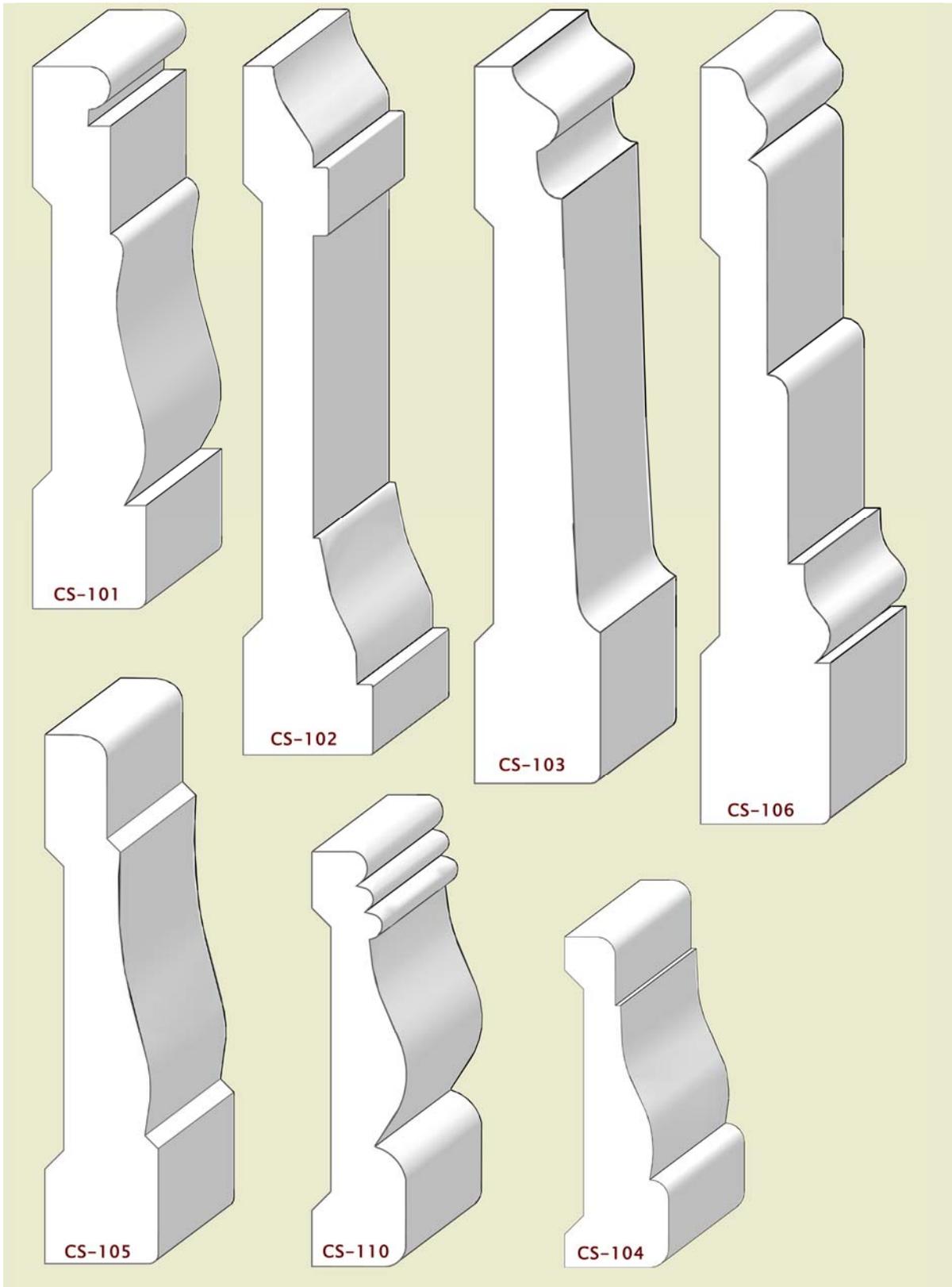
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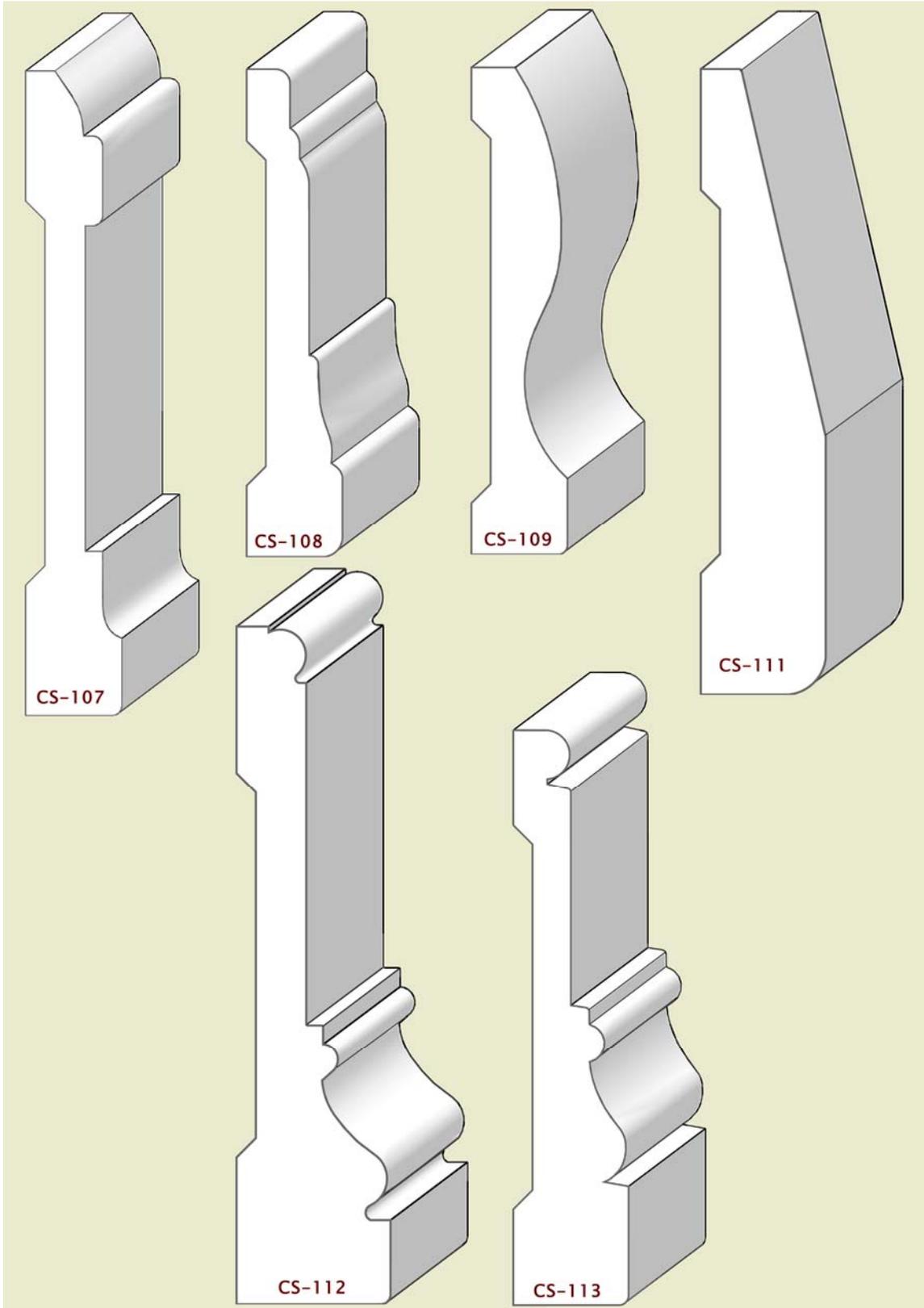
Trim Styles

Arch Doorway & Elliptical Archway



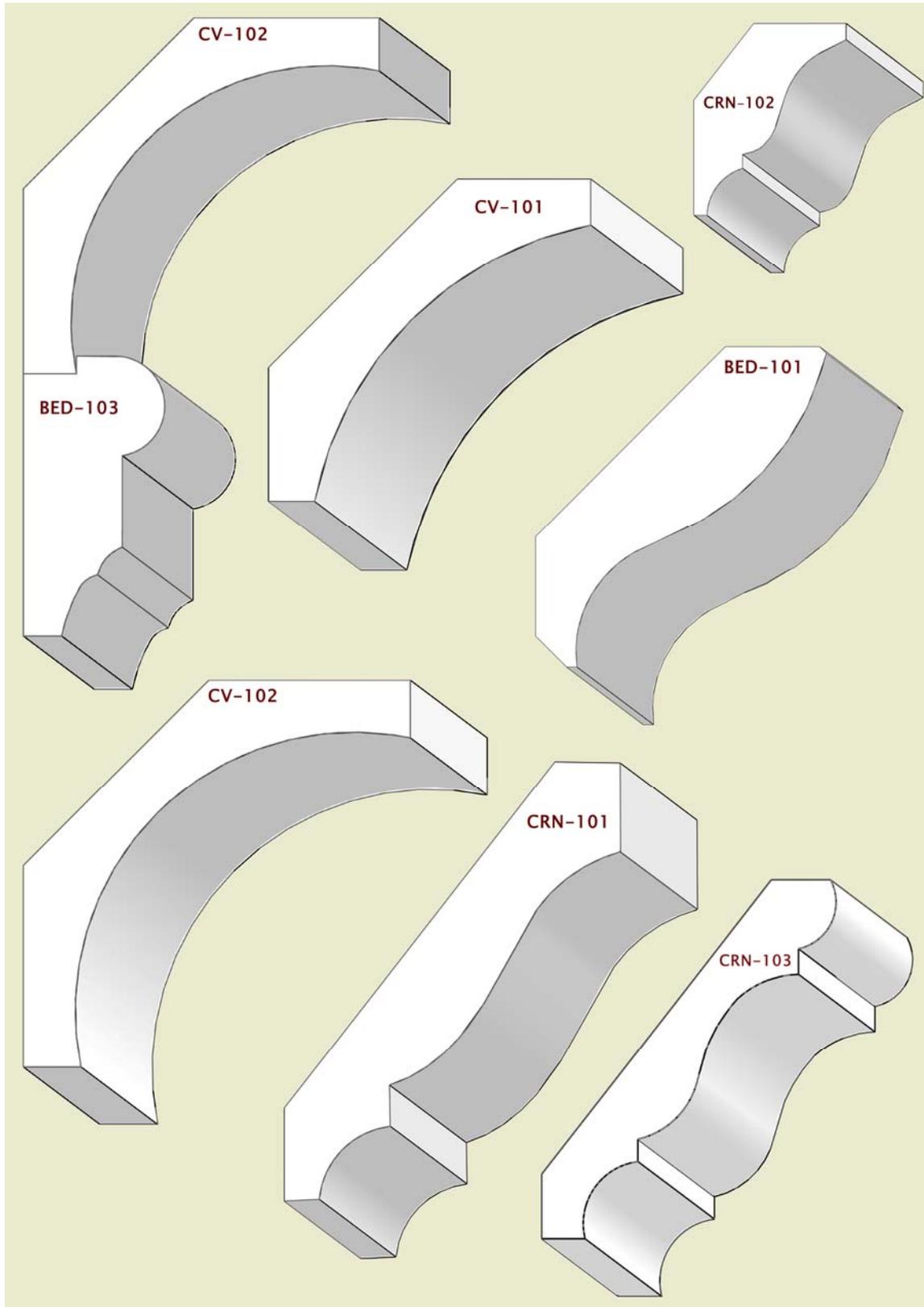


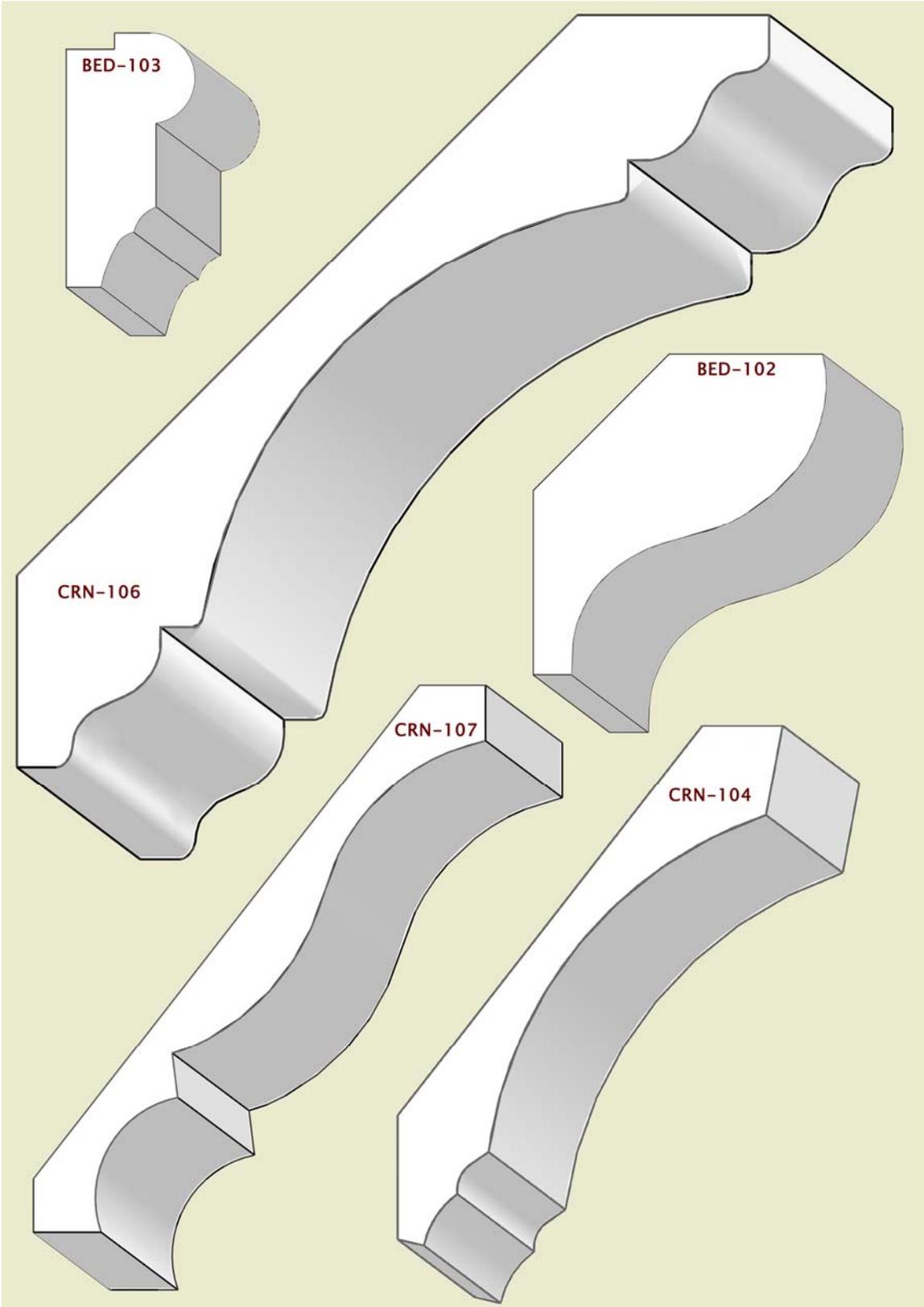


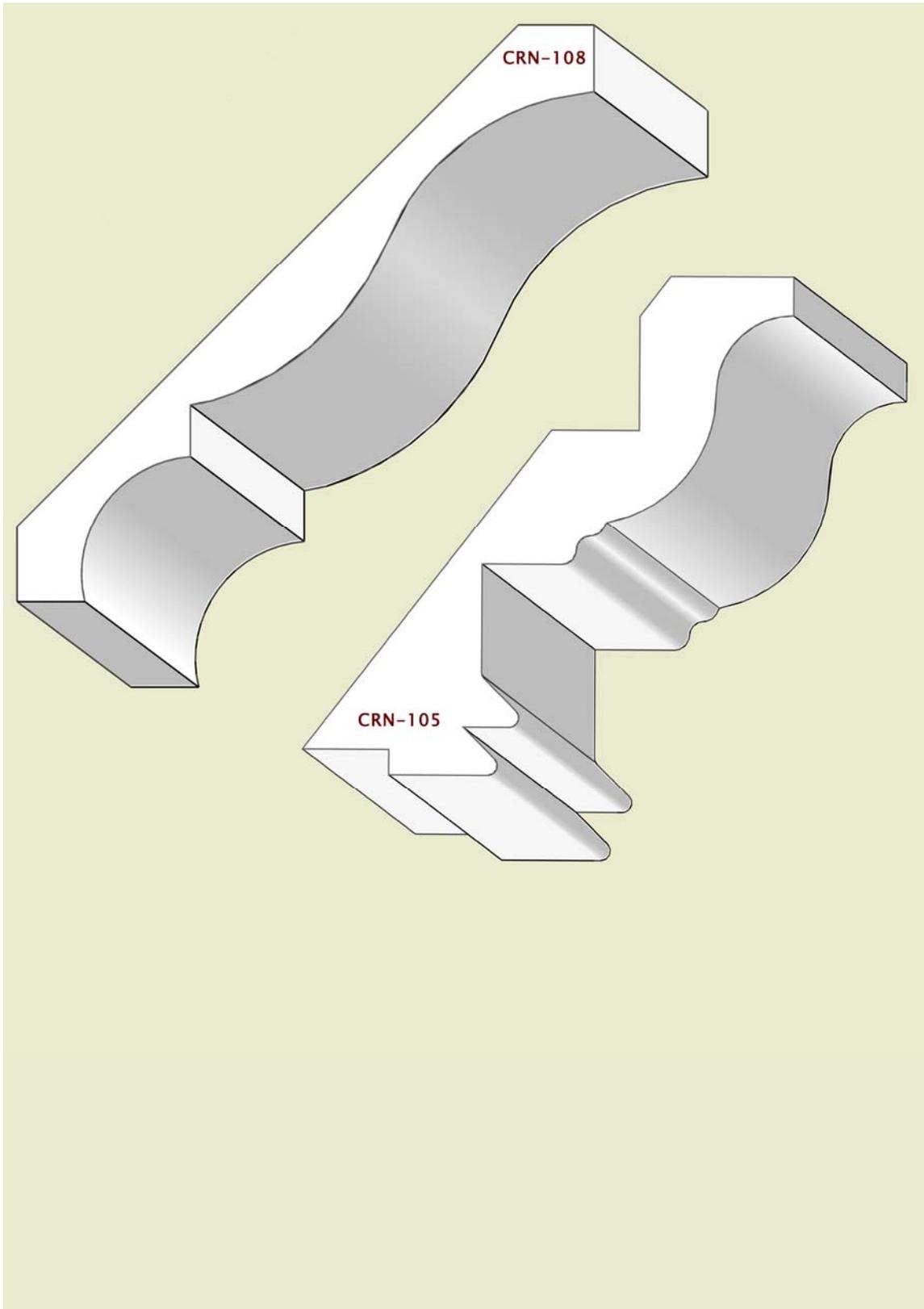


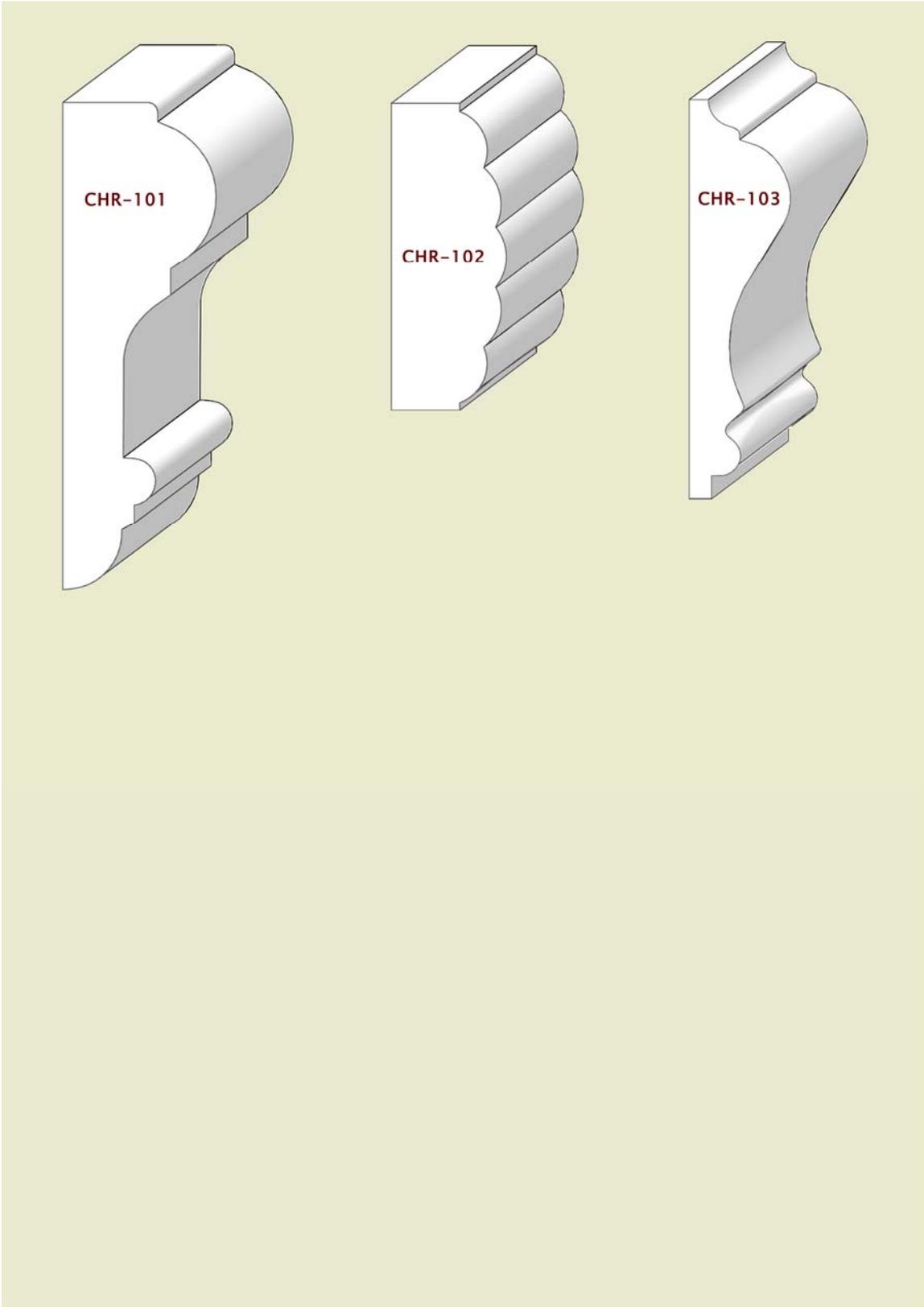
B Profile Examples

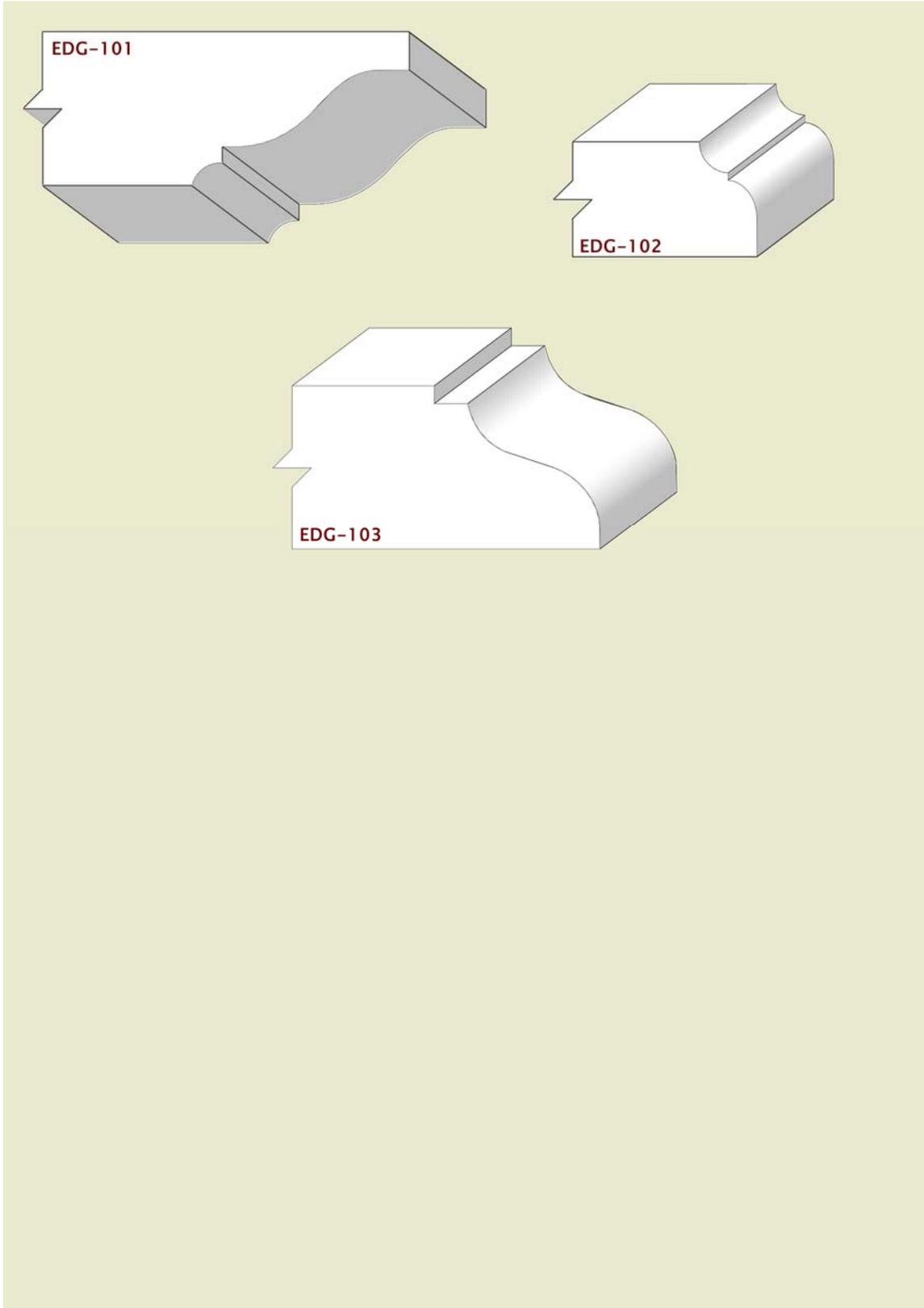
Crowns, Coves, and Beds

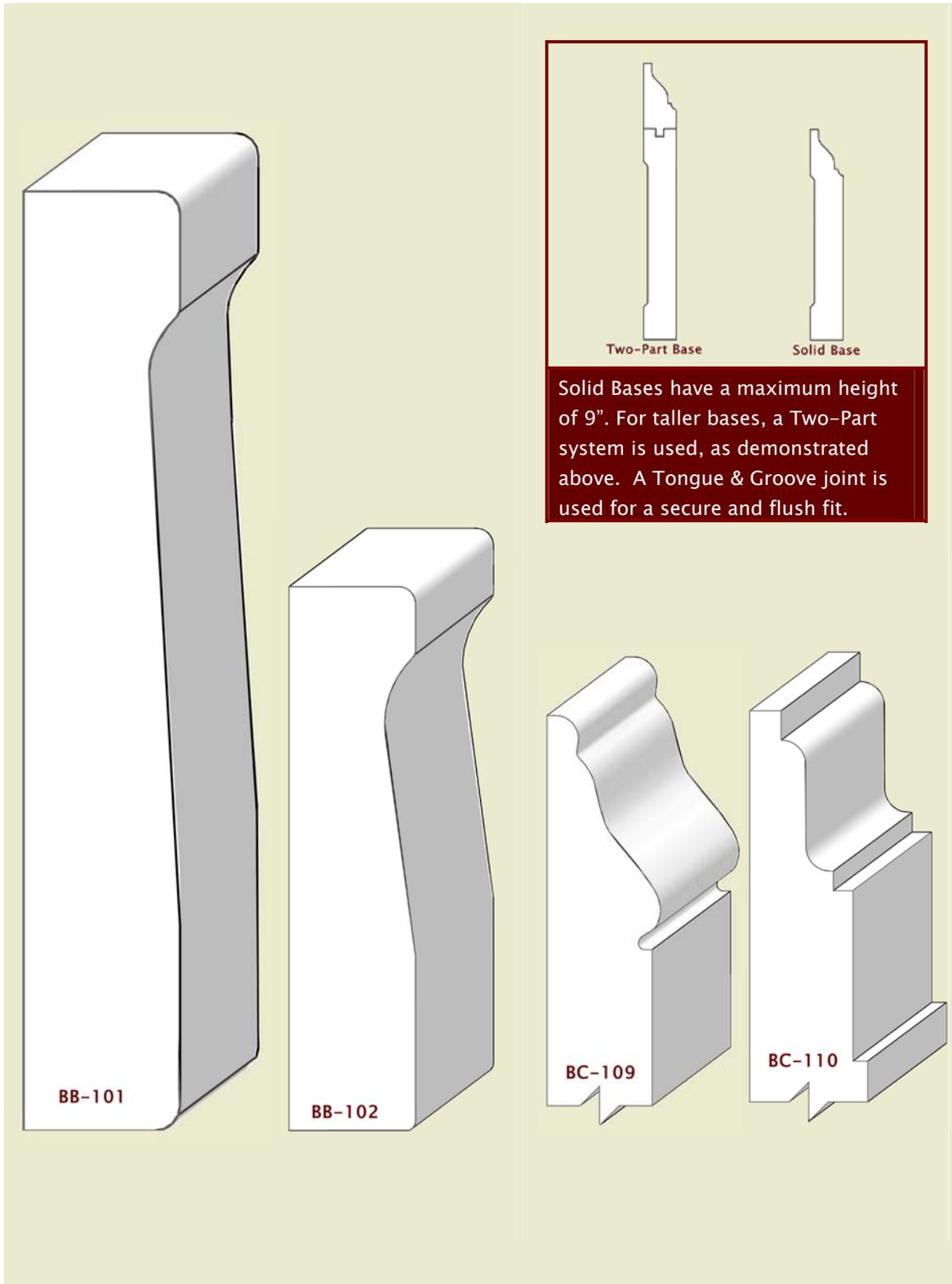


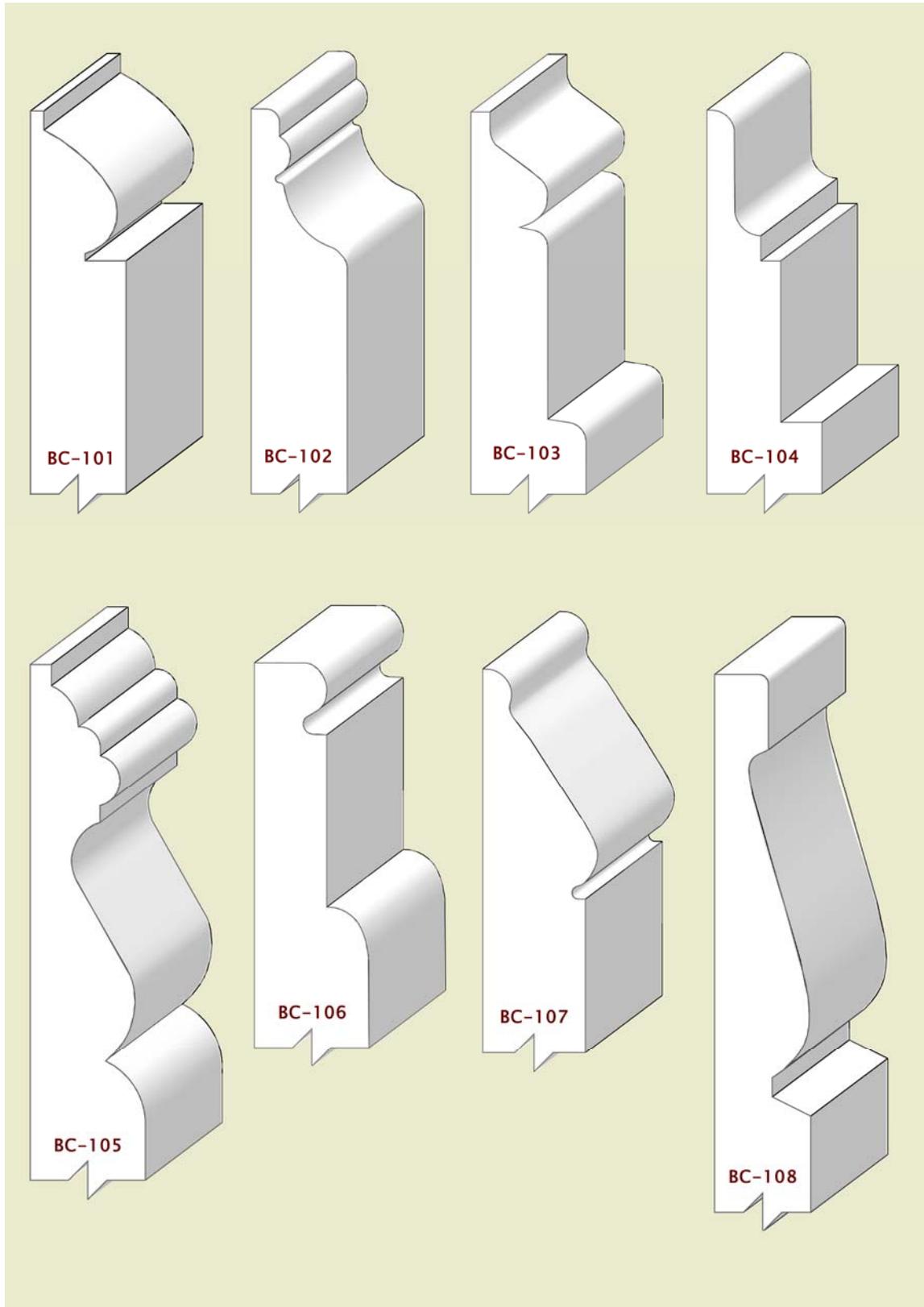


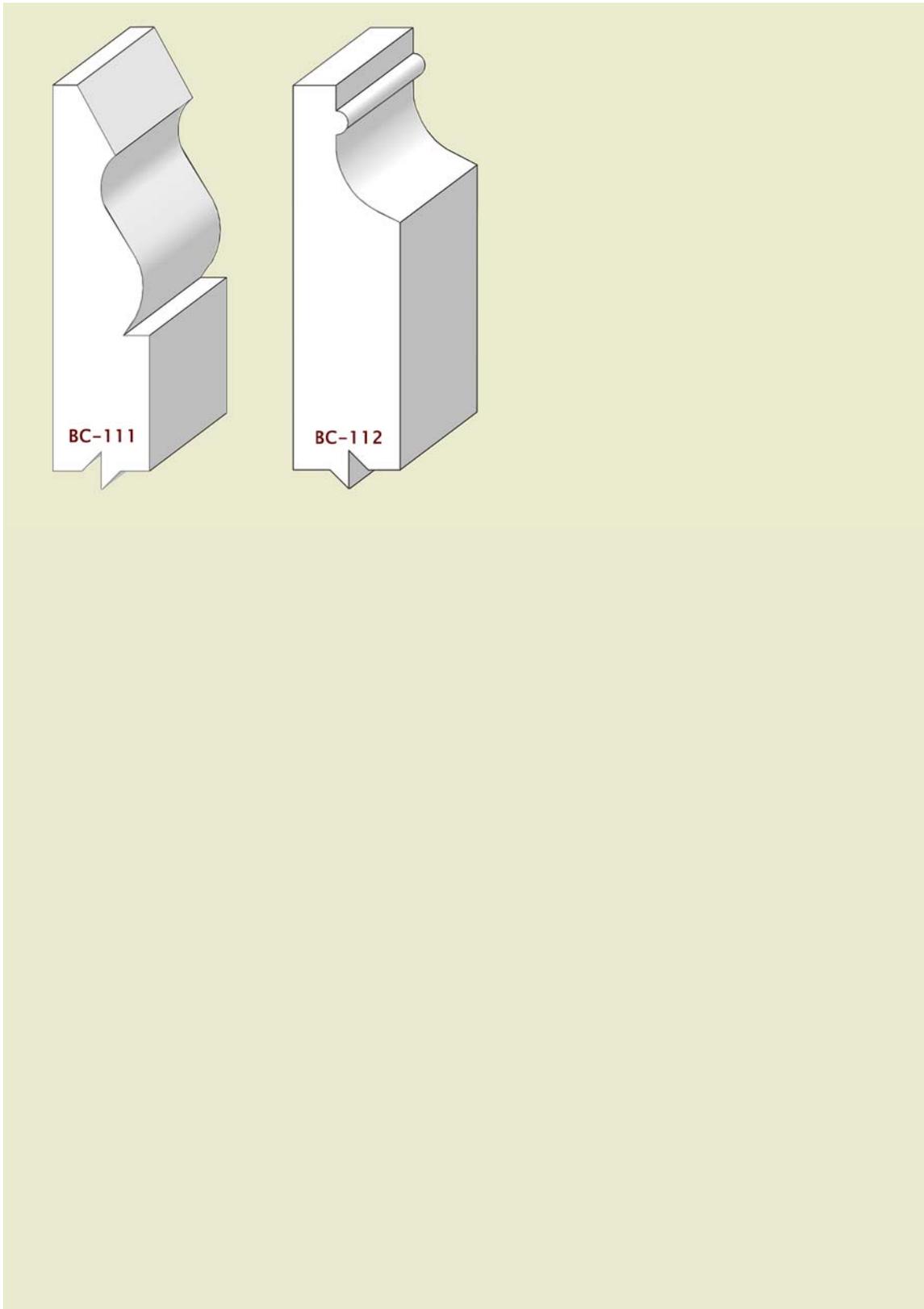




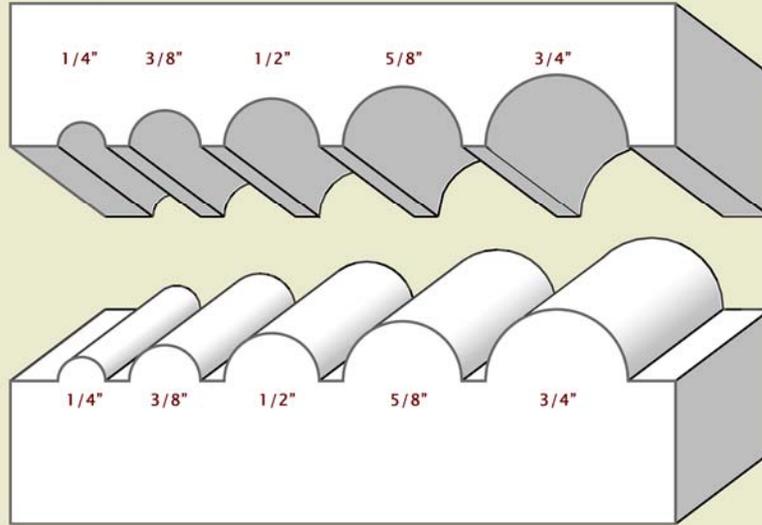




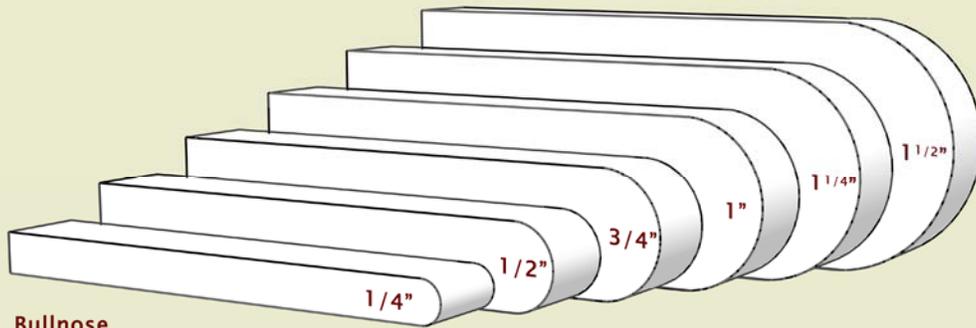




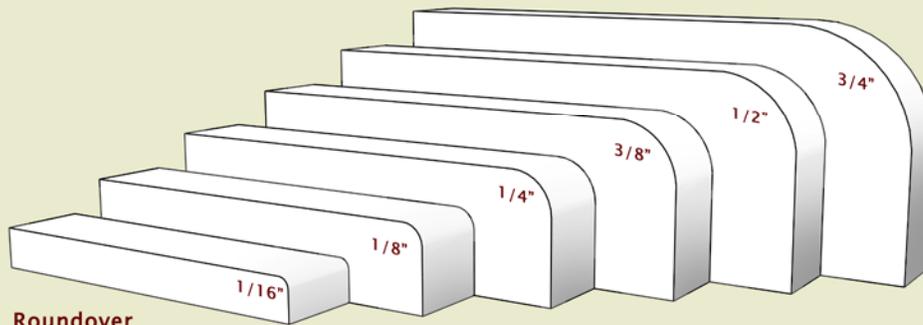
Fluting



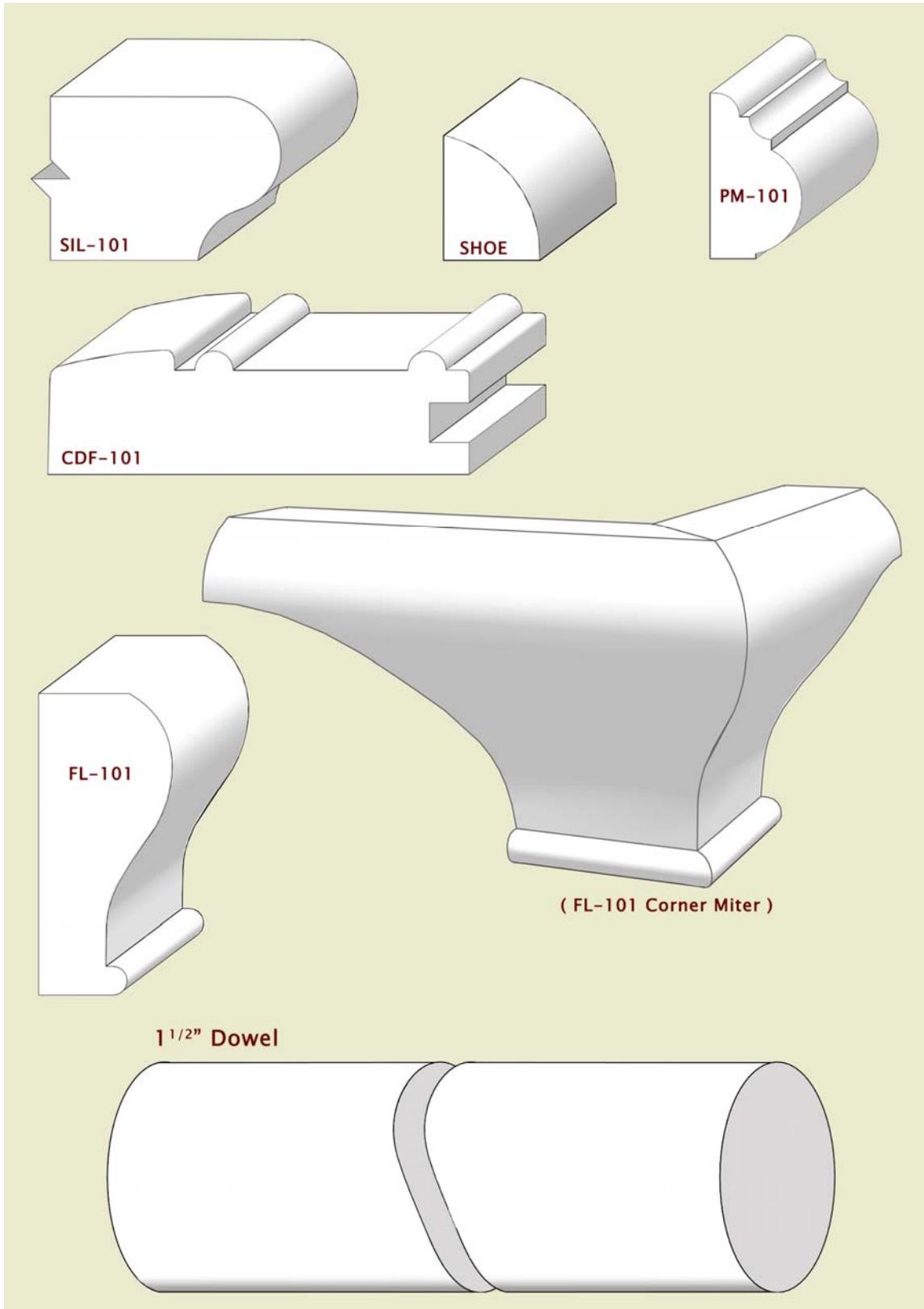
Beading

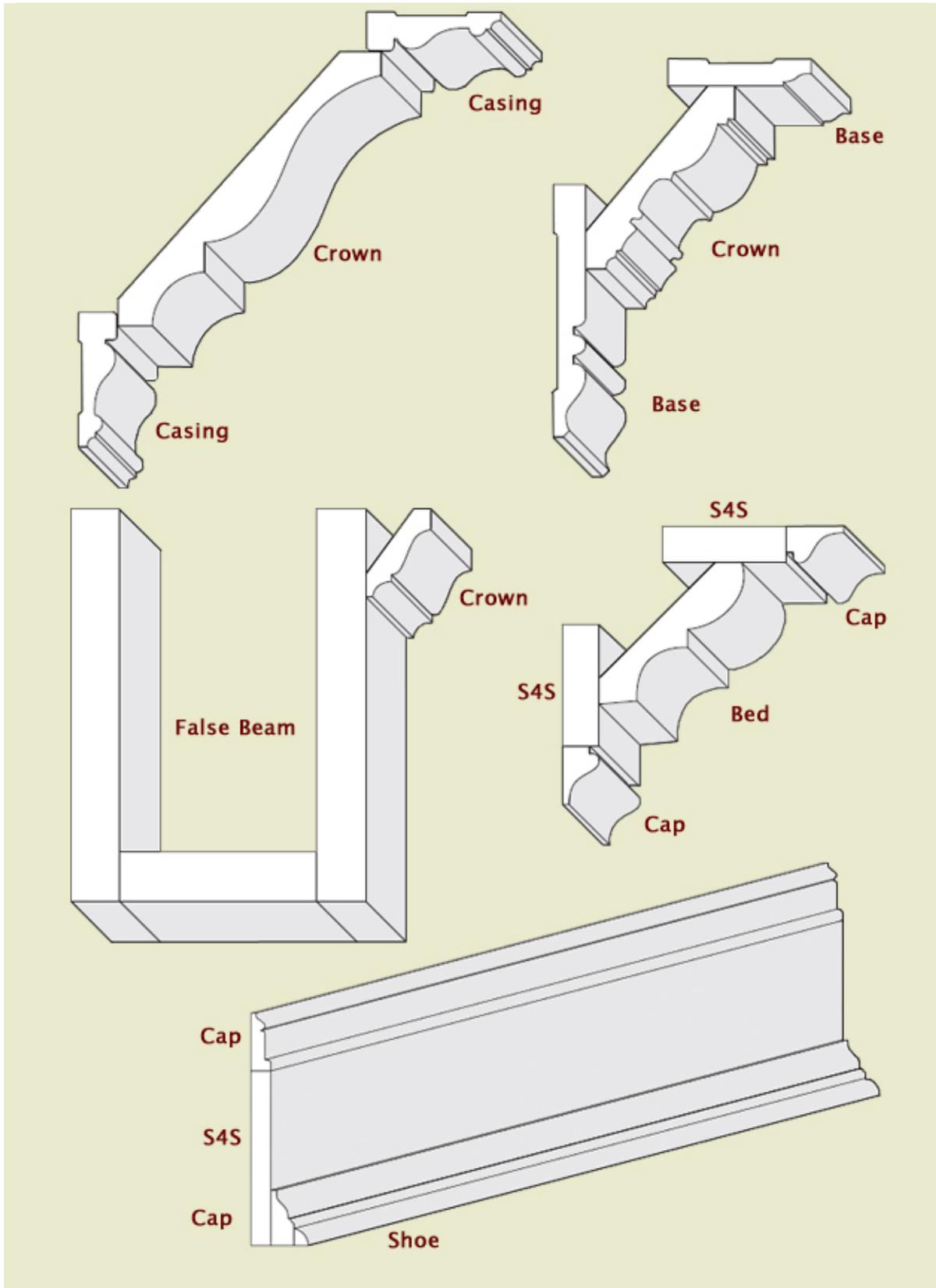


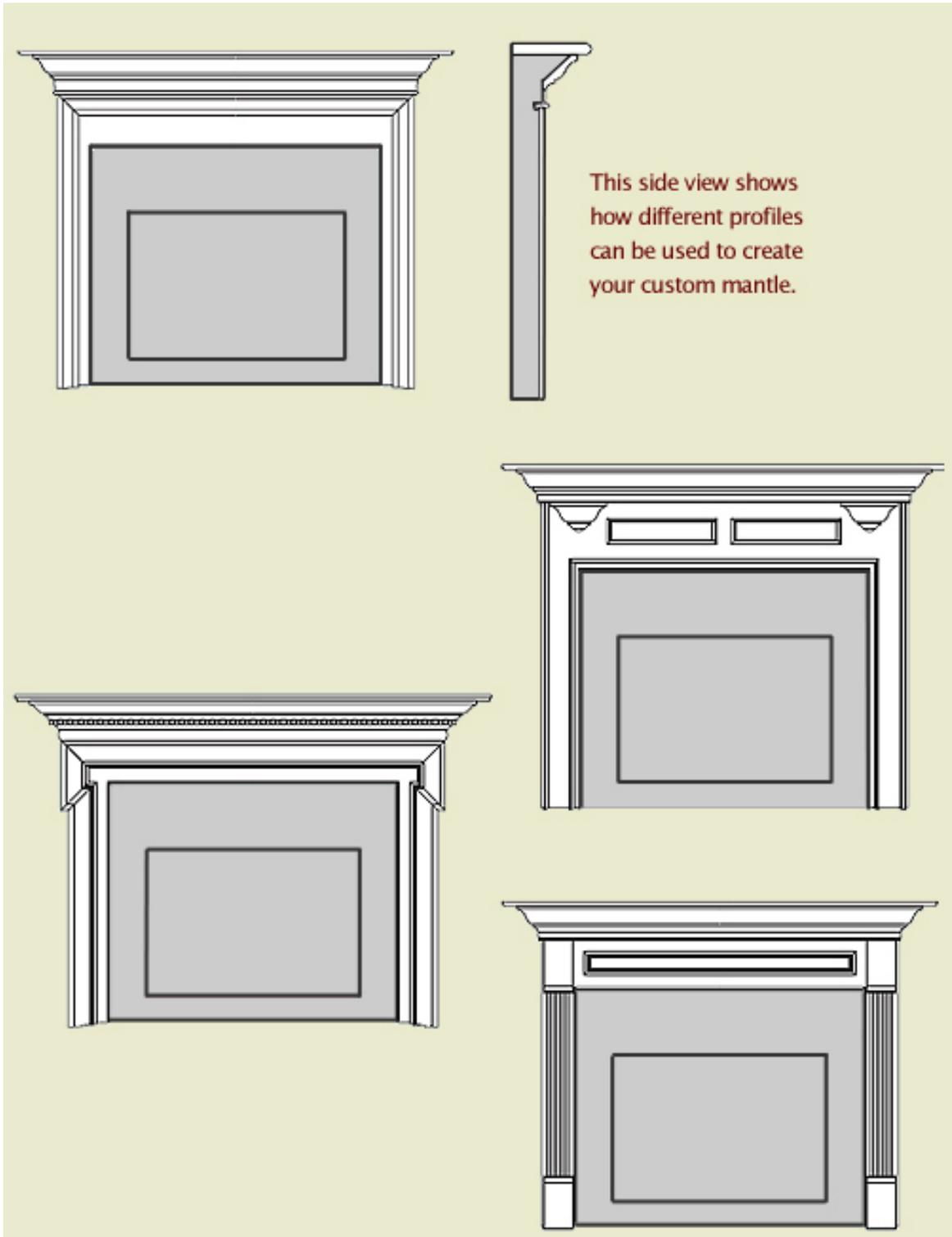
Bullnose



Roundover







This side view shows how different profiles can be used to create your custom mantle.

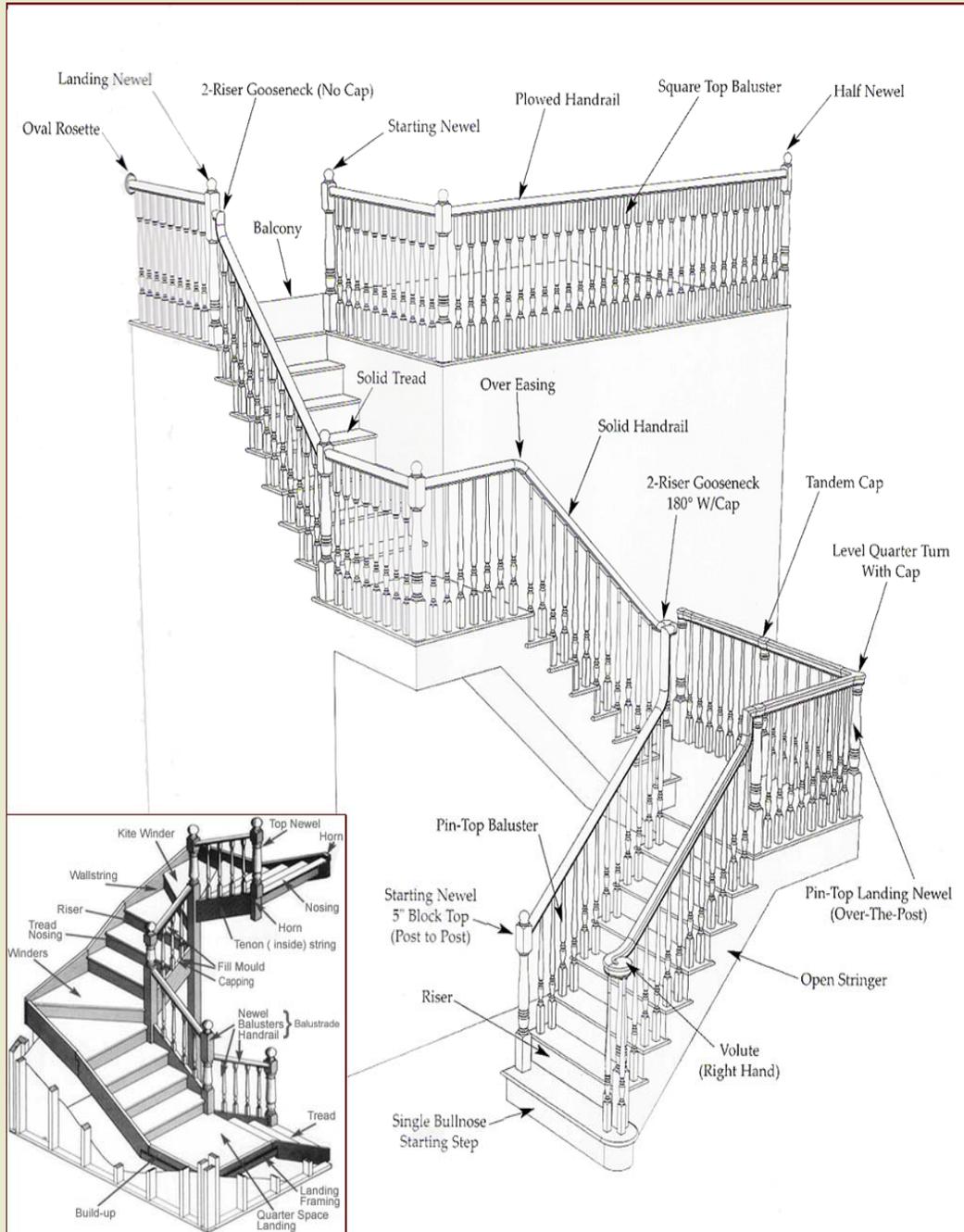
The staircase is one of the most dramatic statements a home can make, a blend of form and function. Much more than a simple means to change levels, staircases are a complex system that allows the builder, designer and homeowner to showcase the style and feel of the home.

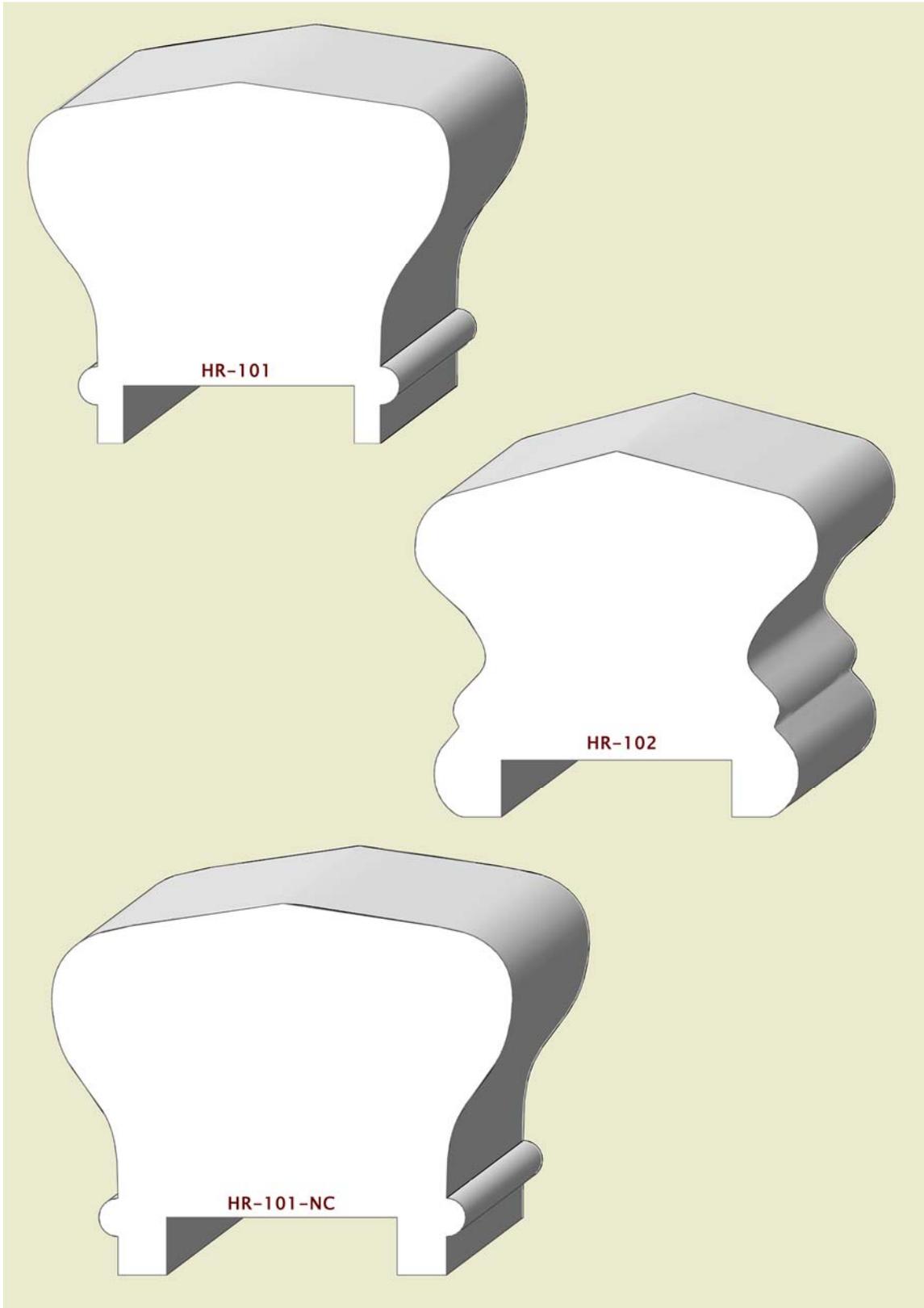
MDB Industries produces an array of staircase parts and components to assist in the fabrication of on-site or 3rd party constructed staircases. The following pages contain some examples of various profiles, parts and styles of common staircase components, as well as illustrations to help determine your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

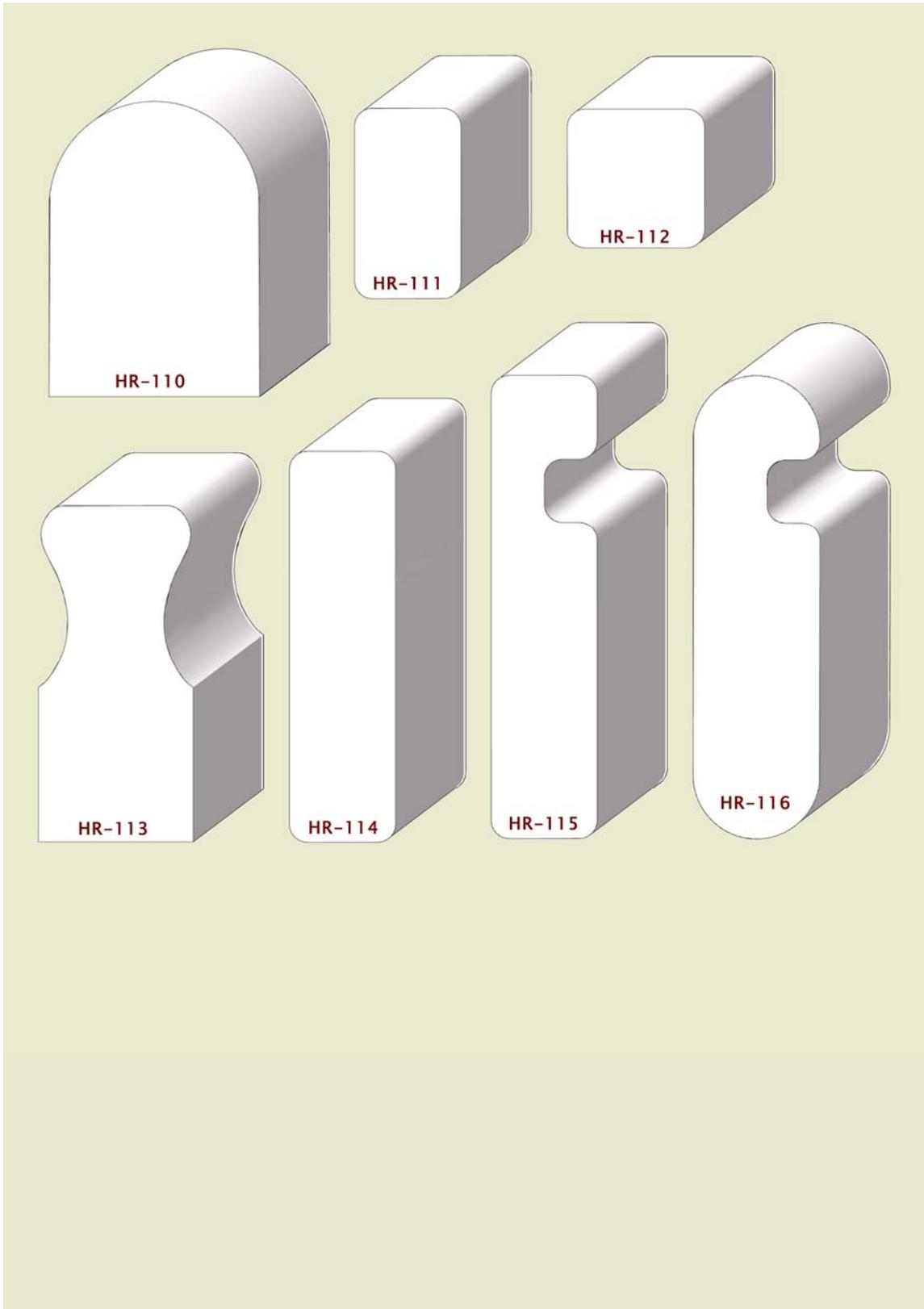
Custom work is welcomed, whether drawn by the designer/architect, sketched by the builder or homeowner, or an example is provided to be replicated. Our 4 axis CNC machining capability enables us to quickly produce custom work, whether it's a handrail transition or unique baluster profile for your entire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

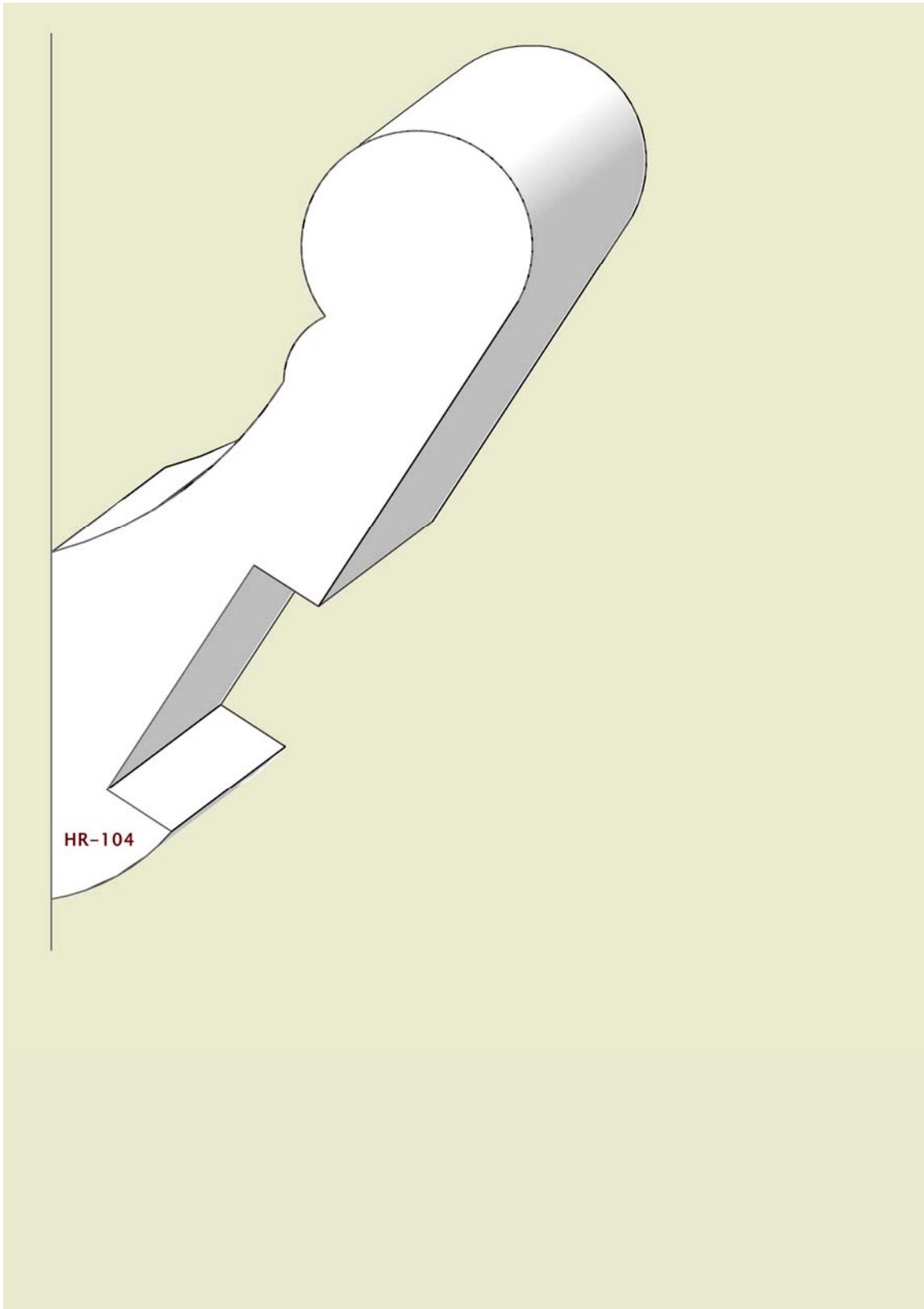
Restoration of historic or vintage stair components, in particular handrail transitions, can be challenging to source, and time consuming to produce. Our in house digital measuring and modeling allows us to create precise digital models of the original piece, and quickly manufacture the needed component.

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

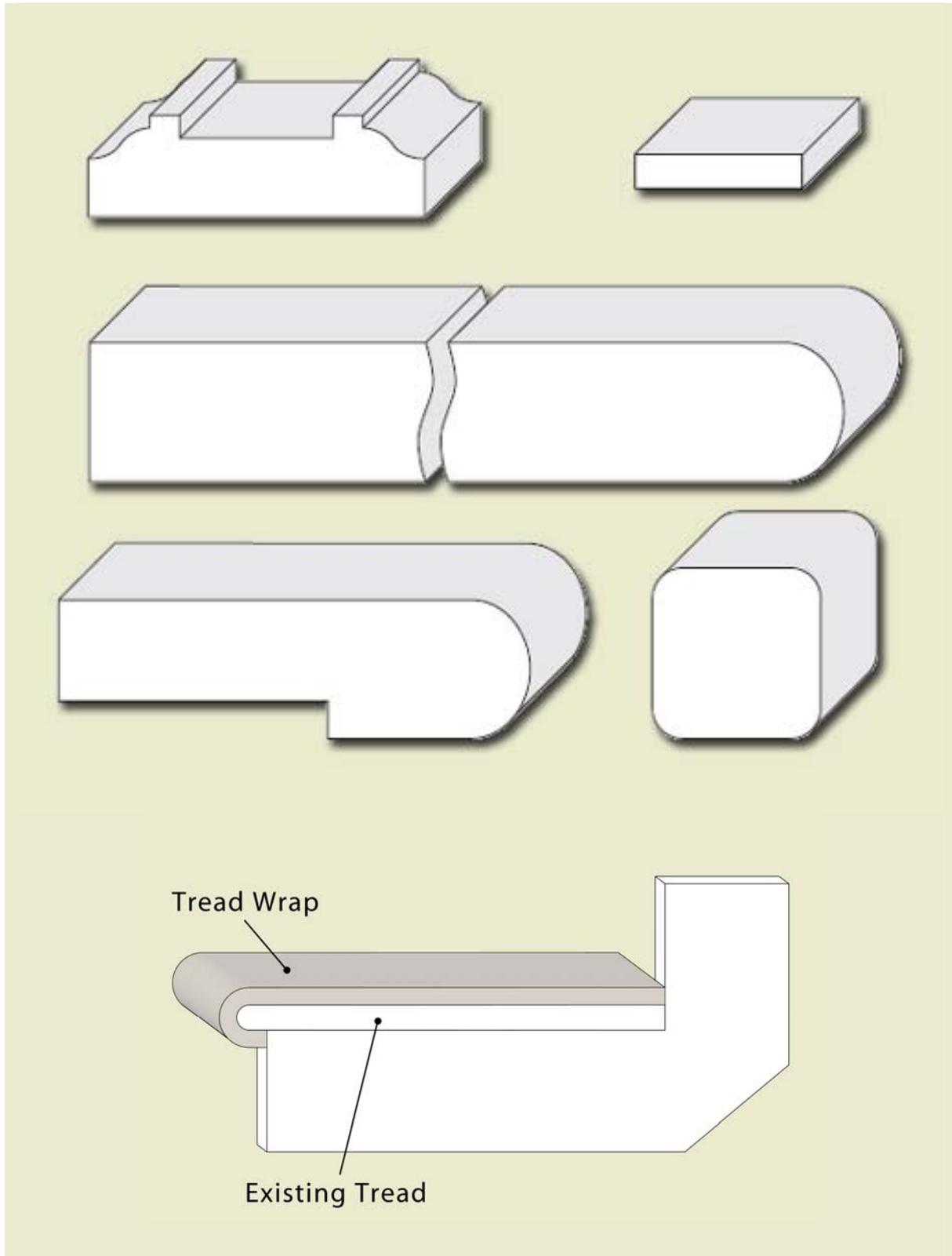


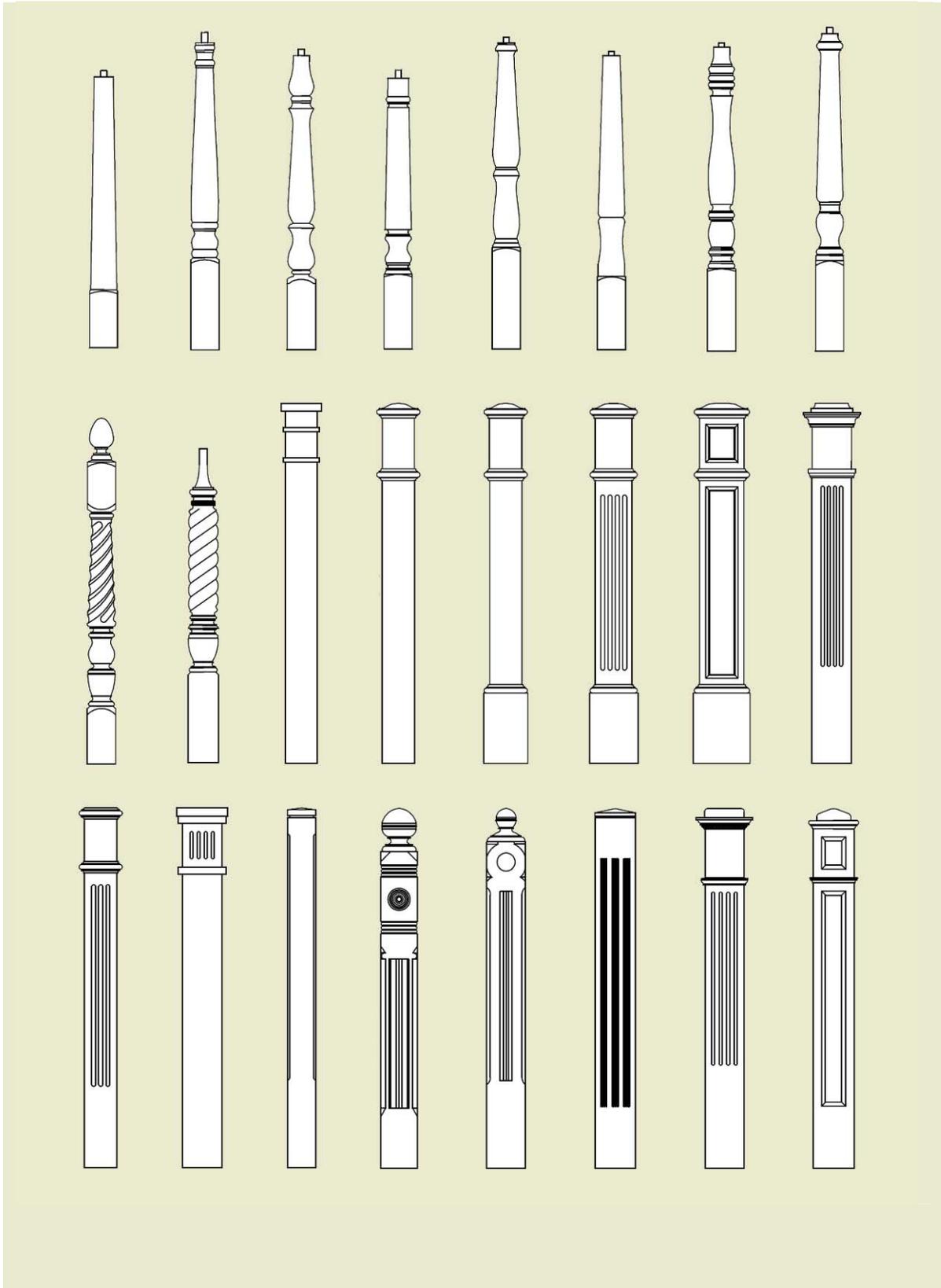


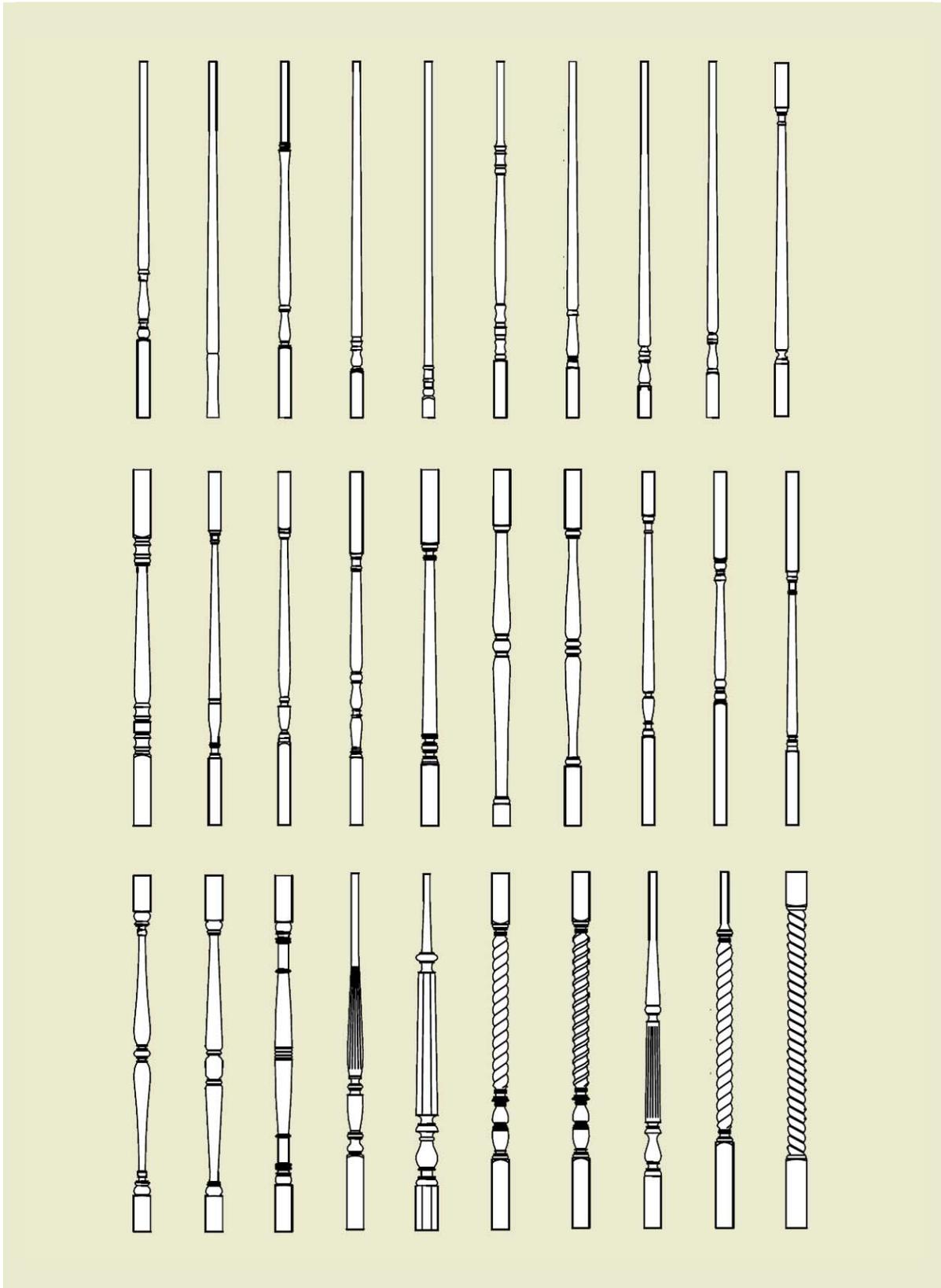




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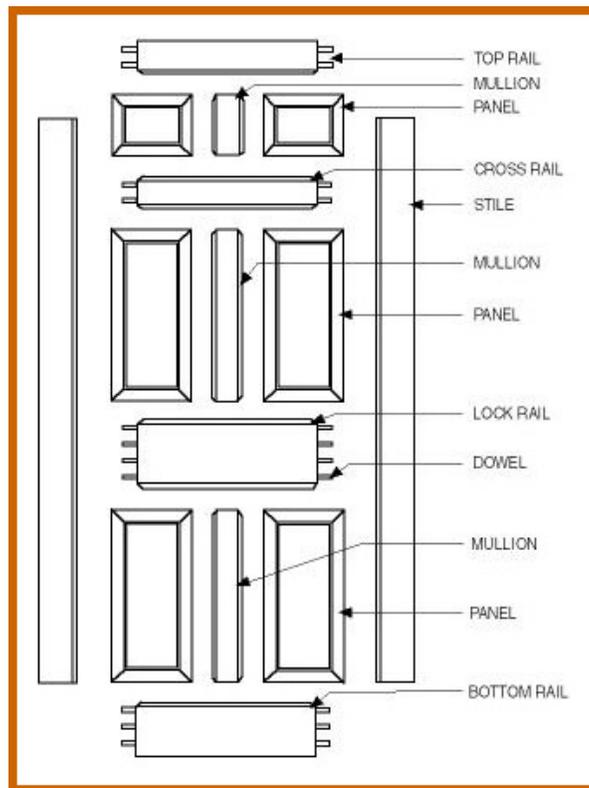




D

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"

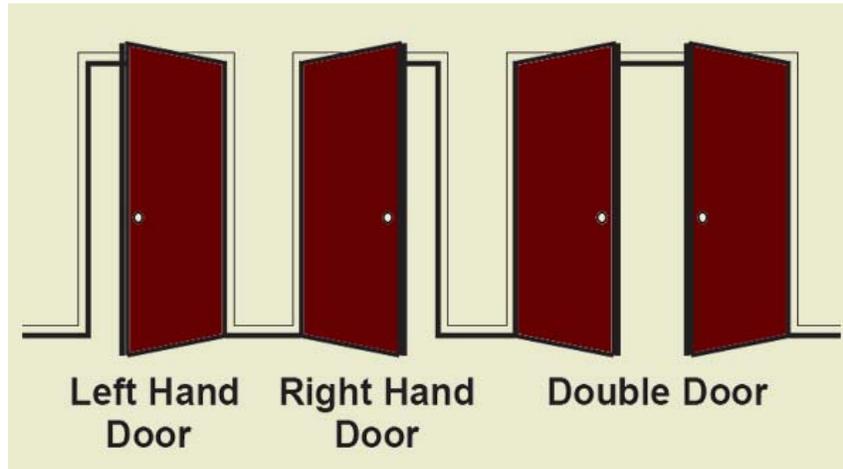
Door Thickness: 1-3/8" or 1-3/4" Typical. Custom thicknesses upon request.

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.

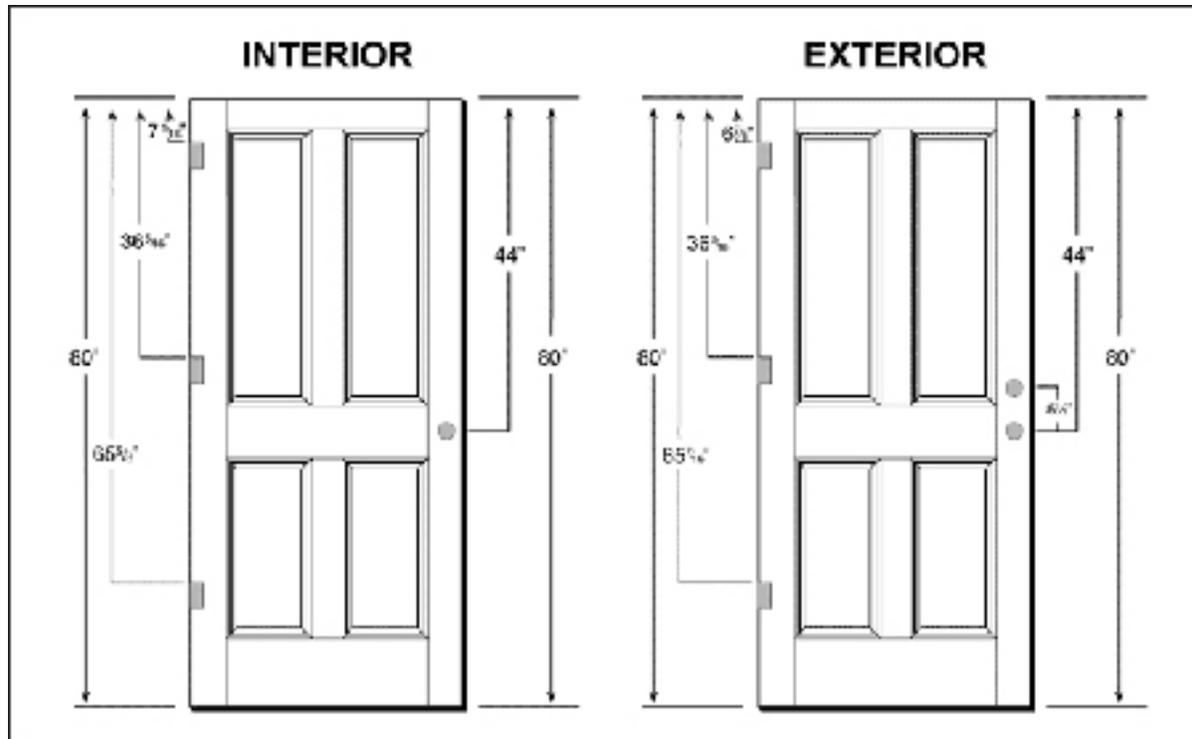
Rough Opening (RO):

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

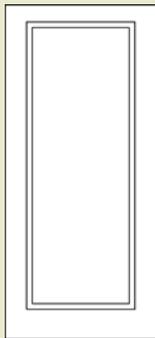
- Knuckle:** A pair of cylinders that work as the rotation point. Commonly 2, 3, or 4 knuckles per hinge.
- Plain Bearing:** The edge of each side of the knuckle ride against each other with no additional bearing surface.
- Ball Bearing:** A ball bearing is inserted between the two halves of the hinge 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:

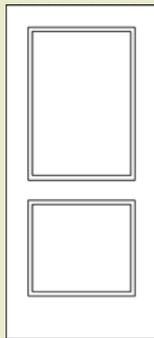
- Bored:** A lock or latch whose parts are intended for installation in holes bored in a door.
- Mortise:** A lock which is mortised into the edge of a door which combines the two functions normally required on a door; latching and bolting (deadbolt).
- Additional Styles:**
- Foot Bolt:** A type of bolt 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

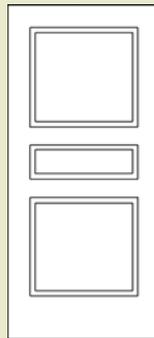
All Exterior doors are custom, and by quote only.



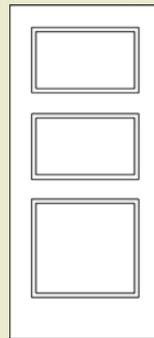
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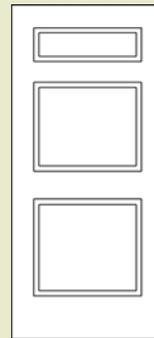
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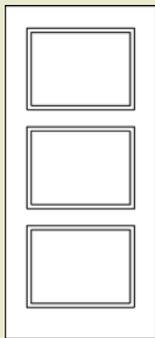
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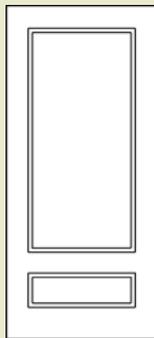
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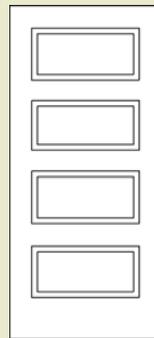
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D107



D108



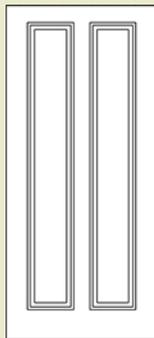
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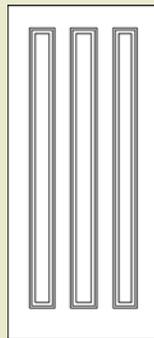
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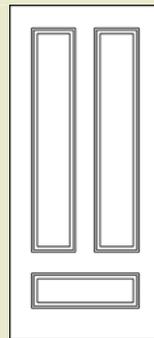
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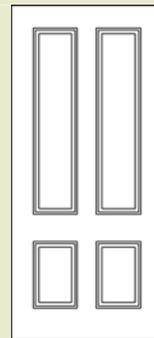
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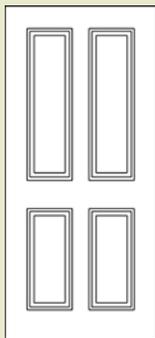
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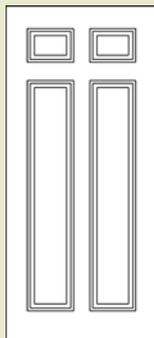
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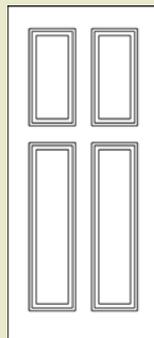
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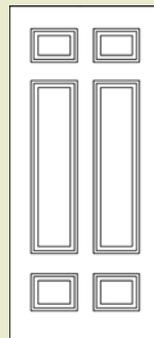
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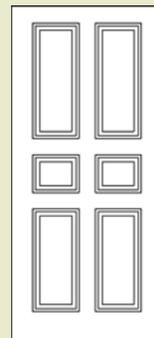
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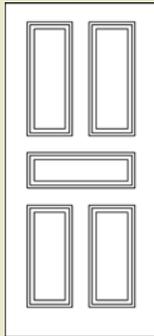
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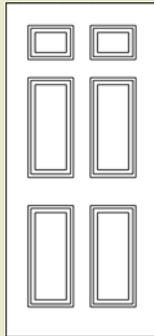
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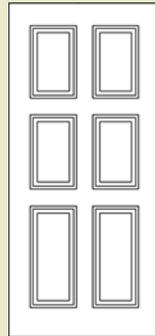
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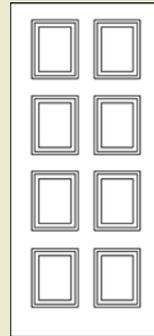
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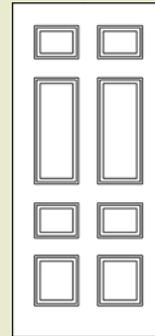
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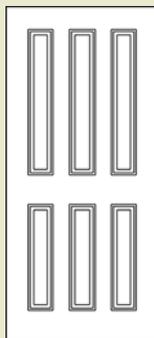
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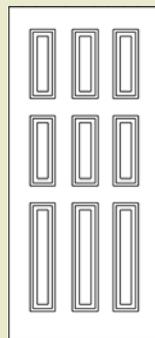
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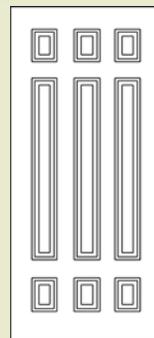
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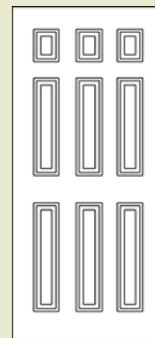
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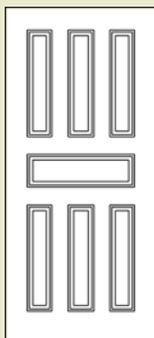
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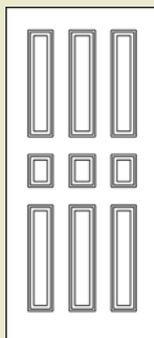
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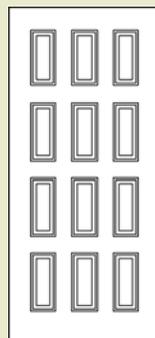
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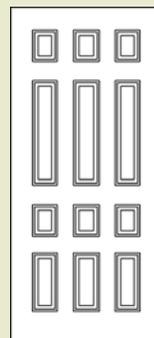
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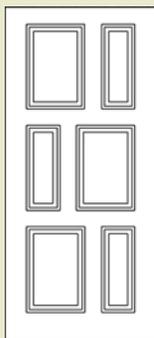
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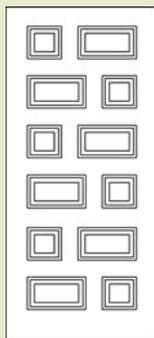
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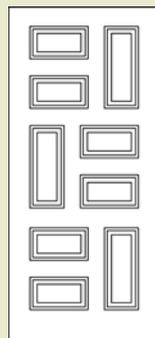
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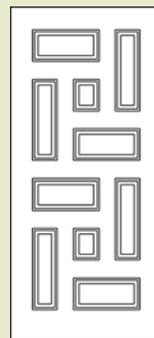
D136



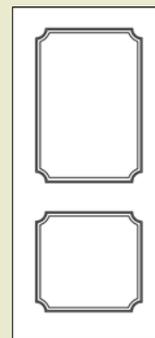
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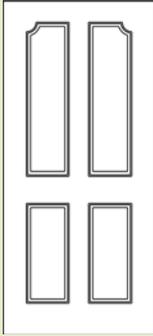
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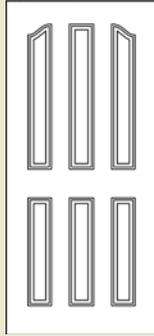
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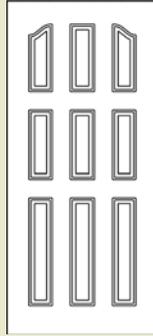
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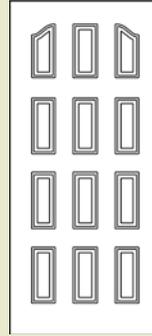
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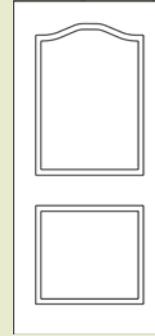
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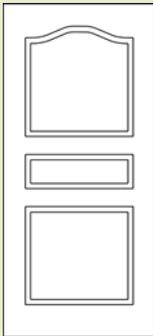
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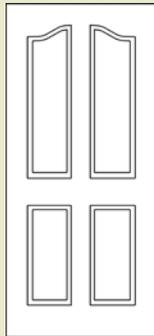
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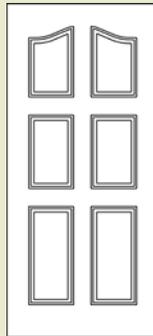
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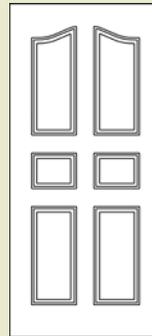
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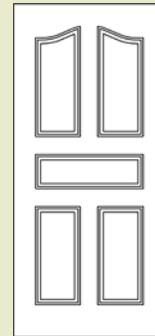
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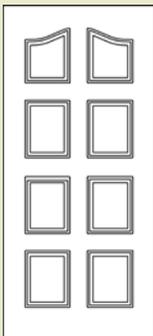
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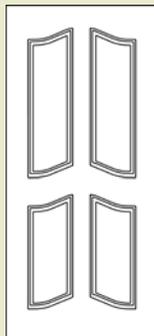
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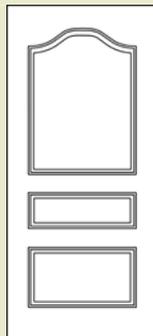
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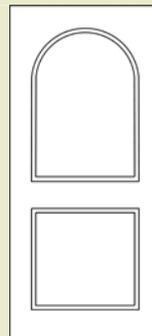
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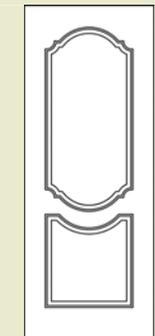
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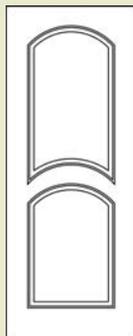
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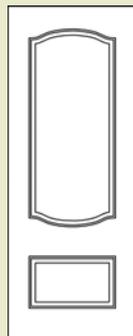
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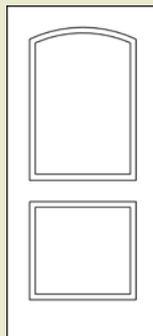
D155



D156



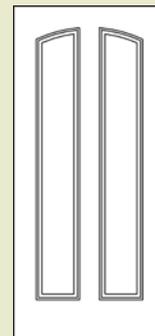
D157



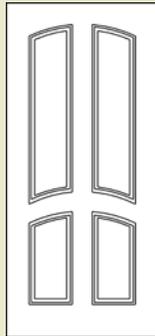
D158



D159



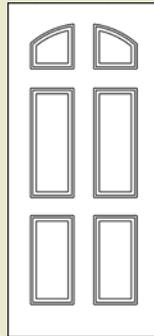
D160



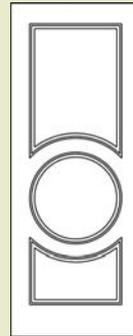
D161



D162



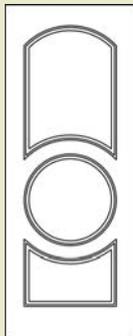
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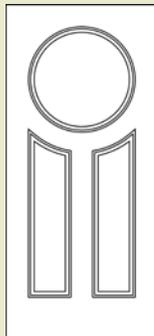
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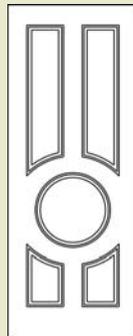
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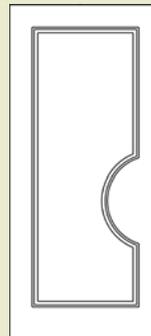
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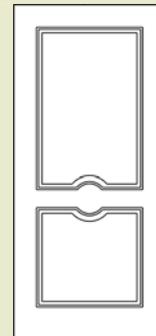
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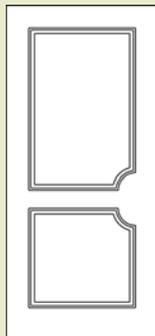
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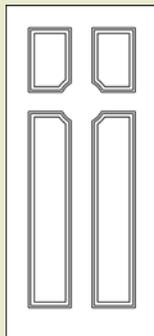
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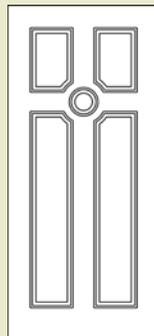
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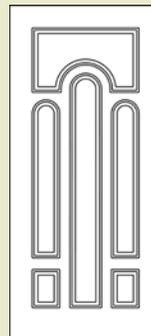
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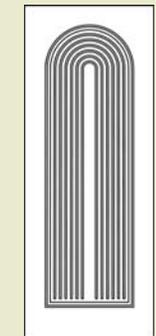
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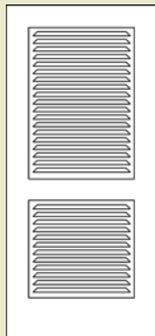
D173



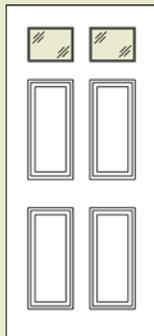
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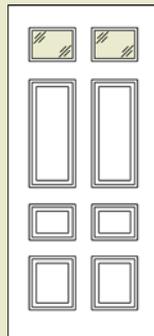
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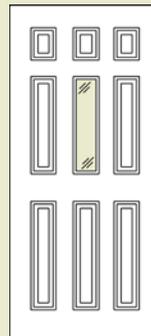
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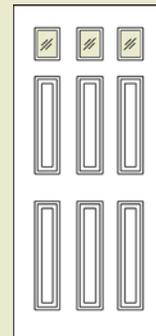
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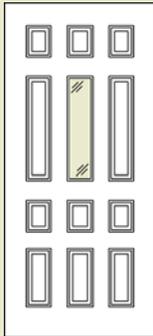
D178



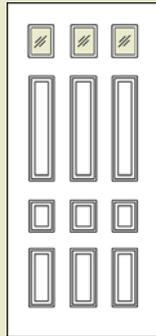
D179



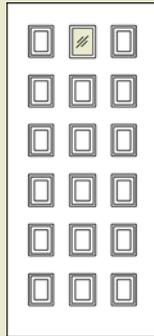
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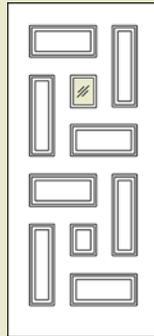
D181



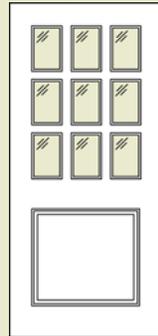
D182



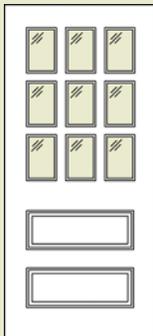
D183



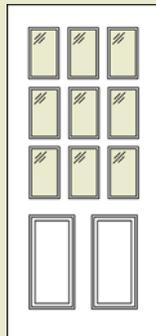
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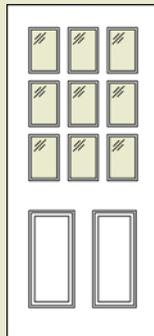
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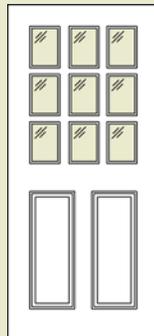
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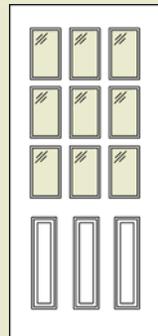
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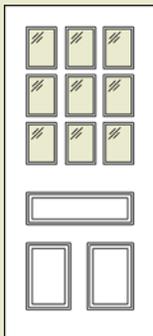
D188



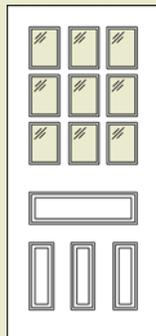
D189



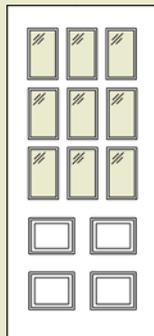
D190



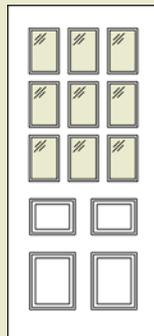
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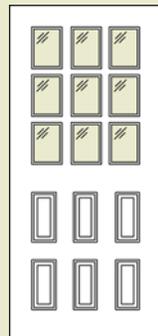
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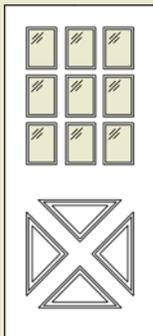
D193



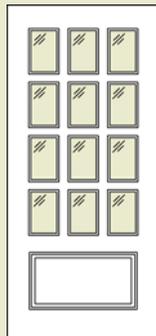
D194



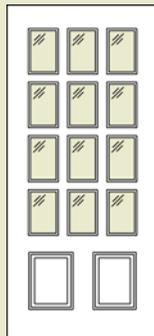
D195



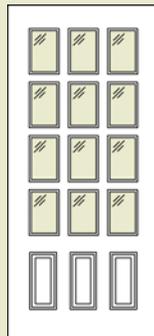
D196



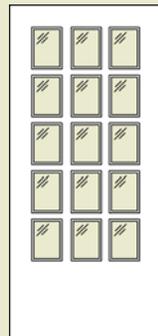
D197



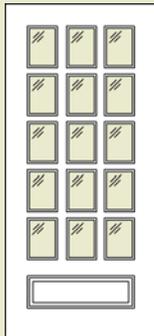
D198



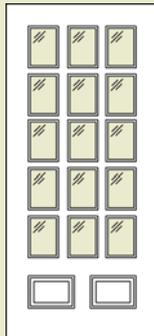
D199



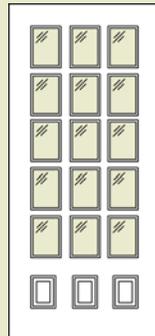
D200



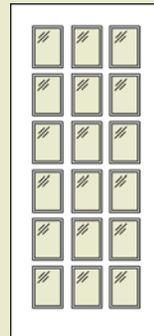
D201



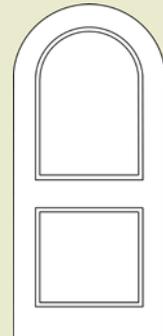
D202



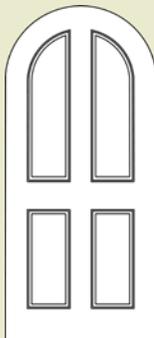
D203



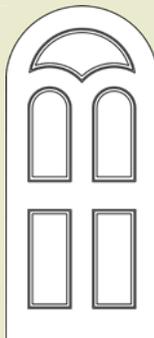
D204



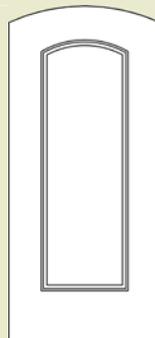
D205



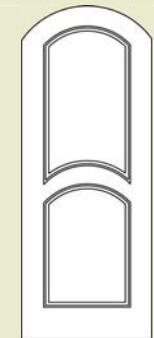
D206



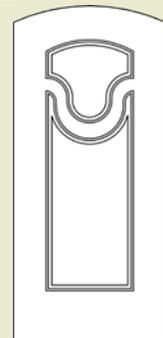
D207



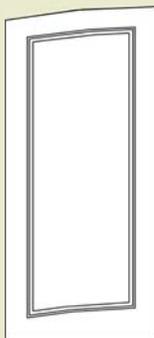
D208



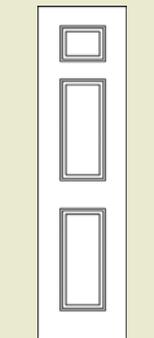
D209



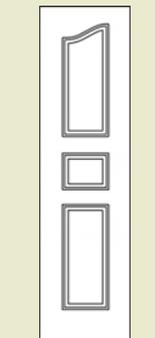
D210



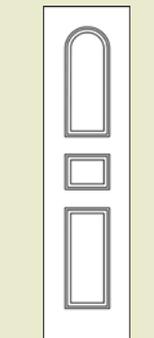
D211



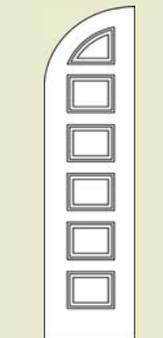
D212



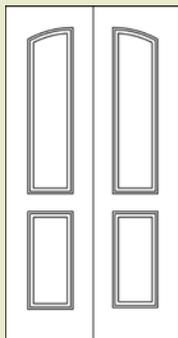
D213



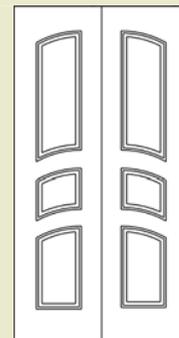
D214



D215

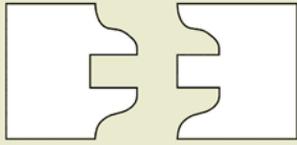


D216

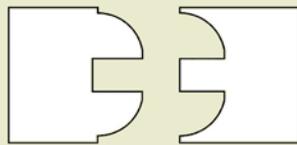


D217

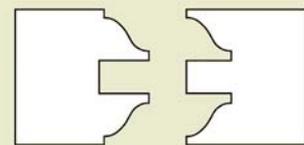
Stile and Rail Interior Door Profiles



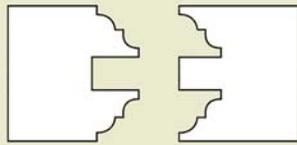
DSR-501



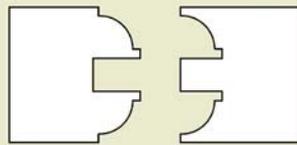
DSR-502



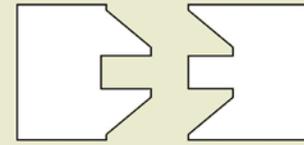
DSR-503



DSR-504

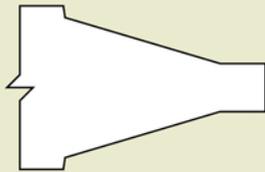


DSR-505

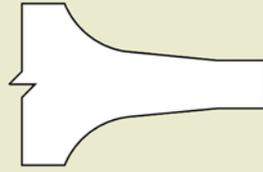


DSR-506

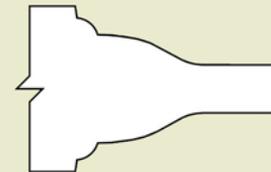
Door Panel Profiles



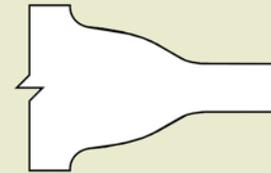
PNL-101



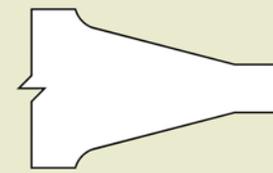
PNL-102



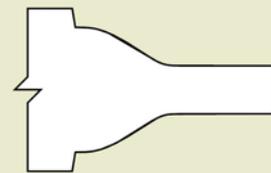
PNL-103



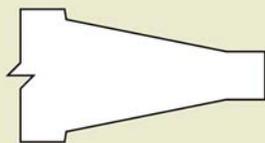
PNL-104



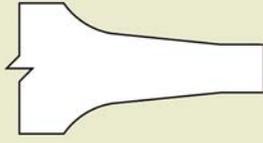
PNL-105



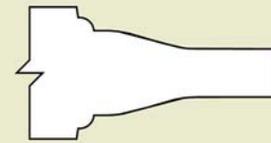
PNL-106



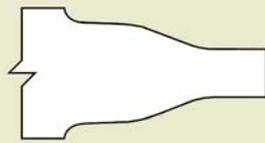
PNL-107



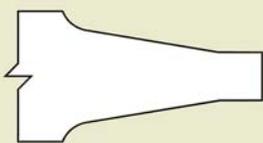
PNL-108



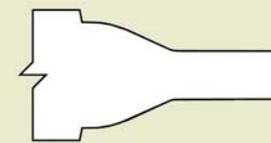
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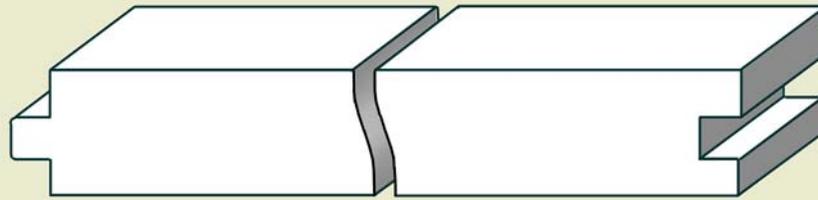
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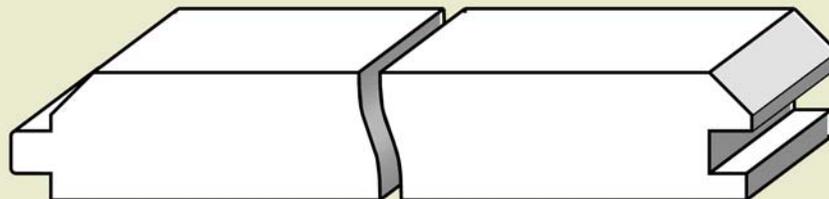
PNL-111



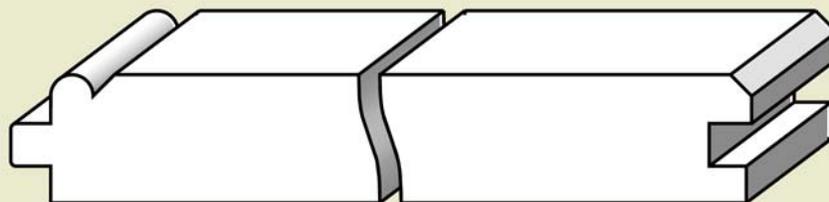
PNL-112



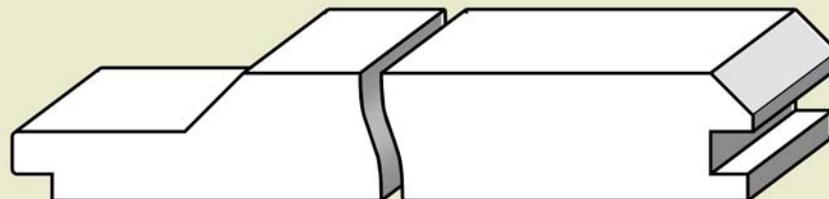
Square Paneling



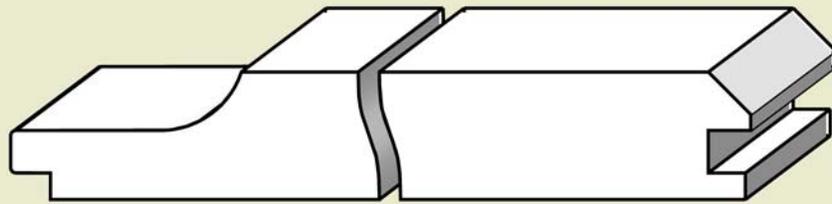
V-Groove Paneling



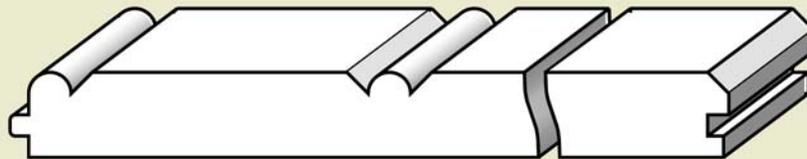
Beaded Paneling



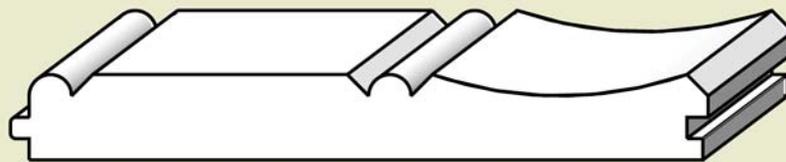
Lap Paneling



Scallop Paneling



Wainscoting



Pickwick Paneling

F Flooring

MDB Industries produces custom flooring for customers with difficult to find requirements or needs. Typically, our flooring is either from the customer's own timber, exotic or unusual species, or length and width requirements not readily available on the commercial market. However, we are happy to quote you on any flooring need you may have.

Often, we receive the request to process a customer's own timber or lumber into flooring for their home or project. This can be cost effective, as well as offering a unique conversation piece. In most cases, you also end up with a much higher quality floor, different from what is commercially available. By using your own materials, you can specify wider widths and longer lengths.

Our flooring is milled with a true flooring profile (shown next page) with a nailing slot milled above the tongue, and 1/32" off-set between the upper tongue edge and the lower tongue edge. This assures that during installation, the nail head has space to fully seat, and the upper edge fully contacts the board next to it without interference from the lower edge. On boards over 6" wide, a center fastener is recommended. This can be either nailing from the top through the board, or a screw from underneath through the subfloor into the floorboard.

One common misconception is ordering a "random width" floor. There is no random width flooring. It would be next to impossible to install if every board was its own unique width. Most customers are looking for a varied or multi width floor.

A varied width floor usually maximizes the yield from materials, making it the most cost effective. For example, if you have a 9" wide board and want 5" flooring, you'll throw away 4" of lumber, or almost half. By going varied width, we would make two 4" floorboards, or a 5" and 3", and have minimal waste. In most cases, a 3", 4", and 5" mix maximizes yield, while maintaining ease of installation and stability in the finished product.

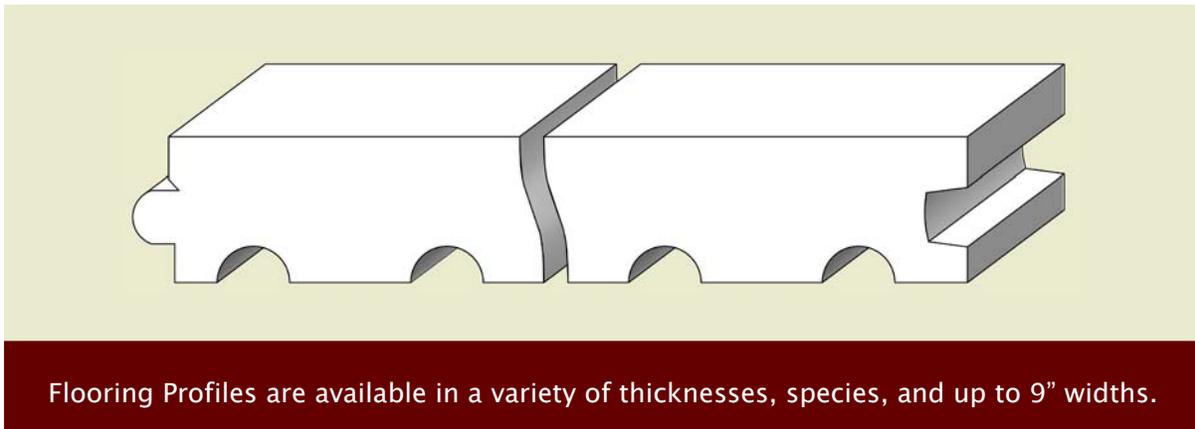
If you desire wide widths, 9" is the maximum capability of our production machinery. However, wider widths are possible at an additional cost. We do not offer end matching. Boards will need to be cut square before installation, as well as any defecting you wish to do.

Regardless of what style floor you go with, there are certain installation requirements that must be met in order to assure your floor stays looking beautiful for years to come. For more information on installation guidelines, please visit MDBIndustries.com for an installation checklist, or talk to a reputable/professional floor installer or supplier.

Square Footage per Lineal Foot

2 ¼" - .18 Sq/F	6" - .5 Sq/F
3" - .25 Sq/F	7" - .58 Sq/F
4" - .33 Sq/F	8" - .66 Sq/F
5" - .41 Sq/F	9" - .75 Sq/F

Flooring Profile





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