

## Surrounds Legend



Although there is no exact record of the origins of the word "Window", the vivid metaphor is related to the Old Norse word "Vindauga".

The compound of two words: vindr, "wind," and auga, "eye," vindauga reflected the fact that windows were simply openings and contained no glass at that point in history.

Though the definition of the word "Window" has changed since those historic days, the fact that a window is simply an opening remains.

Cast stone is a dramatic addition to any home. Aesthetic balance, attention to detail and the superior quality of our craftsmen make Stone Legends the first choice in cast stone opening surrounds.

Variations within this chapter are endless, from surrounds using one profile shape, to complex designs achieved by stacking and fitting several shapes and sizes together.

What style do you prefer? You can choose from among our standard surrounds, select from a family grouping of shapes or take the easy way out and have our designers develop something special for your project.

### Designing Your Surround

Several design aspects must be addressed before you can finalize shapes and sizes for the surround units and options you have chosen.

### Exterior Materials

The main face material chosen for your home affects many aspects of surround design. Brick and stone are typically 3<sup>3</sup>/<sub>8</sub>" deep, while Stucco and Dryvit systems are typically 1<sup>1</sup>/<sub>2</sub>" deep. This information is critical to choosing the overall depth (z) and setting bed (zz) dimensions of your surround. The depth (z) of your cast stone surround profile should be equal to or greater than the thickness of the main face material (Or, in the case of most sills, the "zz" depth). For interior applications, follow the same rules as for Stucco.

### Masonry Opening Size

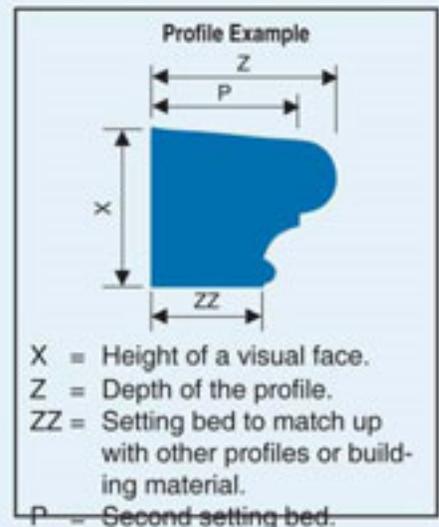
Typically, 1/4" is added to the window or door unit size on all four sides to determine the masonry opening size. In some instances more room is allowed at the header if you are incorporating a steel lintel for support. You, the customer, are solely responsible for the Opening Size and must provide this information to Stone Legends prior to or during the shop drawing phase.

### Surround Units Step by Step

First: pick one or more standard shapes for your surrounds. The following pages illustrate the basic unit shapes of window and door surrounds. You don't have to maintain just one shape, several can be combined attractively.

Typically, window surrounds include a sill or a picture frame bottom and surround all four sides of the opening. Door and arch opening surrounds usually outline only the two sides and top.

Second: Choose a profile to use for your surrounds. The profile is the etched portion of the stone that adds visual depth.



Third: Have you already chosen your window manufacturer? Will they be wood or aluminum? For budget purposes, we need only know the basic window size. Final dimensions will not be needed until we have been contracted and then begin producing shop drawings.

Fourth: Surrounds are priced by the total number of linear feet of cast stone required, based on the cost factor/linear foot for the profile chosen.

Other factors affecting the price include: unit shape, size of the openings, and any custom options chosen. Once we know your opening sizes (X & Y), we can take it from there. All unit shapes, except the Square Top will require special tooling for radii and arcs.

Onetime set up fees for each different surround will be included in our estimates. Many of the options must also be priced by size and shape.

# STONE LEGENDS

## Customizing to your taste

Customizing the standard unit shapes is easy. Add a crown, an ear, or a panel to a window or door. The variations are endless and our wide variety of tooling makes customizing affordable.

First: Select from our list of modifiers or send us a photo of something special you want to incorporate into your design.

Second: Choose the profile (style) for your Options.

Third: Some items such as keystones, brackets, and ears are priced on an each basis. Crowns, sills, picture frames, and dividers are priced by the linear foot. For radii and special angles, onetime set up charges are added for each dimensional change. Special legs, plinth blocks, panels and ornamentation must be priced separately according to size and shape.

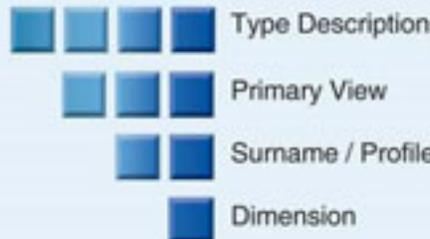
### Pricing Legend

Basic surround costs are calculated based on a **Linear Foot** basis.

Refer to the **Stone Legends Pricing Legend**, located as an insert at the back of the catalog, for more information on calculating stone costs for catalog units.

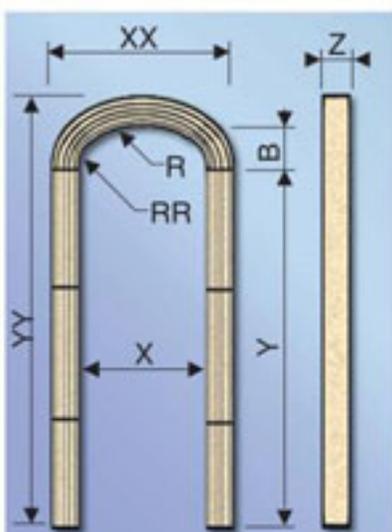
Alterations may involve additional charges.

## Organization Guide



Listed below are available catalog options as shown in this chapter. Refer to page 6 for a complete list of available TypeDescriptions, PrimaryViews and Modifiers.

Product Groups	Type Descriptions	Primary Views	Modifiers
Surrounds	Surround	CircleTop	360Degrees
		SquareTop	90Degrees
DividersHorizontal	Surround	Circular	Animaleer
		Eyebrow	Art
		Palladium	Bay
		GothicArch	Bracket
		Bow	Pilaster
		EyebrowDouble	Corbel
		Gable	Crown
		Quatrefoil	Decorative
		SpecialShape	
		CircleTopDouble	DividersVertical
		CircleTopMulti	DoubleSided
		CircleTopTriple	Ear
		Octagonal	Fluted
		Elliptical	Jamb
			Key
	Leg		
	Ornament		
	Panel		
	Pediment		
	PictureFrame		
	Plinth		
	Rope		
	Sill		
	Wings		



Generic Surround Dimension Legend

X	Width of a unit. A control dimension.	YY	Overall maximum height of a unit.
XX	Overall maximum width of a unit.	R	Radius of a unit.
Z	Maximum depth of stone in a unit, as in the depth of the sill of a window surround.	RR	Secondary radius of a unit. For instance the second radius for an elliptical top.
Y	Height of a unit. A control dimension.	B	Rise of an unit. For instance the interior height of a radius window or entry that is not a true half circle.

# STONE LEGENDS

# Surrounds Legend - Basic Shapes



SquareTop

**SquareTop** The simplest shape, it fits any opening by adjusting the length of the pieces.



Eyebrow

Eyebrows typically have larger radii than circle tops and join the legs with a cast in downturn. This window also shows a second profile used for the dividers, and a special keystone.

Eyebrow



Palladium

**Palladium**

Based on classical designs, the Palladium window really sets the tone for a regal home.



Circle Top

The smooth, round shape, a true half circle, is highly appealing. The opening surround shown here uses large, deeply profiled stone to accentuate the oversize door way beyond.

CircleTop



EllipticalTop

Actually an entry rather than a surround, this is an excellent example of an Elliptical Arch that is supported on fluted pilasters.

EllipticalTop



Triple Circle Top

Repeating windows or doors are accentuated by this standard shape.

TripleCircleTop



Gothic Arch

Above is a Gothic Arch surround that uses a custom profile.

GothicArch



Quatrefoil

**Quatrefoil**

Four acute divisions of foils or rounded spaces divided by cusps.



Circular

**Circular, Elliptical, Octagonal**

These fully enclosed windows add detail to any exterior.

Elliptical

Octagonal

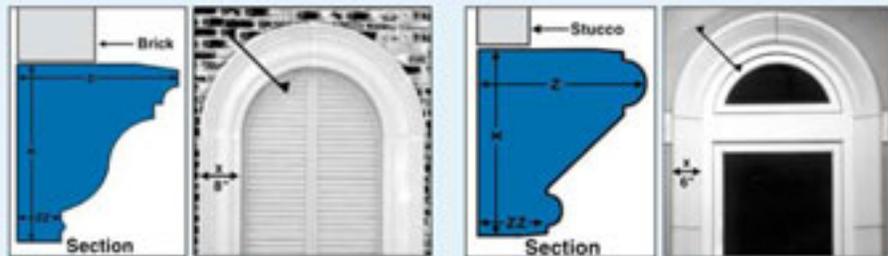
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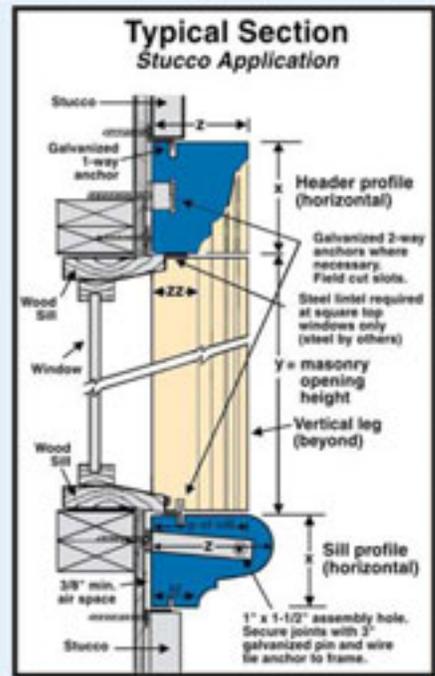
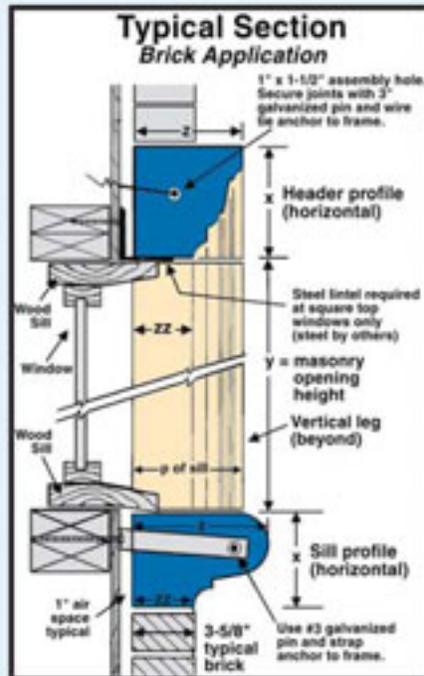
## Surrounds Legend - Profile Shapes

### Profile Selection

What width of profile do you want to see when looking at the elevation (x)? There is no right or wrong answer. Typically the larger, more elaborate surrounds use wider profiles. The objective is to be proportional to the structure, but not to change for every different sized opening. Try to pick one size that will work for all, or at least one section of the house. See right for examples.



*The sections, right, use the same profiles, but in Brick and Stucco versions to show the difference in the depth requirements.*



## Surrounds Legend - Modifiers

### Customizing Your Surround

Many options exist to help customize your basic surround. The following describes the standard nomenclature for modifying an opening surround. Additional charges apply in most cases. Contact your sales representative for more information.

#### Sills

Sills allow water to drain away from your window efficiently. Below is a sill with extended coped corners.

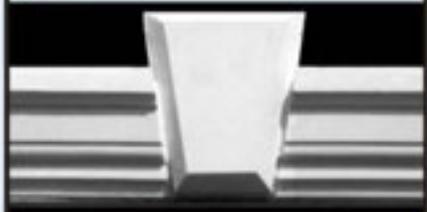


These specialty bowl sills add a note of Old World hand crafting to these windows. Our sales technicians can price these based on the size required.



#### Keystones

Keystones are the simplest and easiest option.



Above, a chamfered keystone. Below a flatface keystone in a deeply profiled surround.



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## Surrounds Legend - Modifiers

### Brackets

Any of our profile shapes can be made into brackets by blocking to the desired length and are priced on an each basis.

At right is our *Bolson* sill with *Ogee* brackets.



### Legs

Occasionally, the vertical members of the surround (legs) are different from the main header (top) profile. Often, the chosen profile is a column pilaster, as in the circle top window at left. If other than a pilaster, the transition should be made by incorporating a plinth block.



This window combines recessed panels with an oversized keystone and a crown.

The circular window below has been given a square top look with a surround and a crown. Note the custom circle top filler panel within the square frame.



### Crowns

Crowns sit atop the horizontal member or header of a surround. They are generally wider than the main profile and coped back into the facade. Crowns are often combined with other options for truly stunning doors and windows.



### Vertical & Horizontal Dividers

Vertical and horizontal dividers can be flatface, or profiled. The photo above shows an oversize window that separates sections by profiled dividers. Note: Flatface dividers are standard options. If another profile is used, special intersection pieces may be needed.

### Ears

Ears make a graceful transition between a wider profile at the top of a surround and a narrower leg of the **same** profile shape. We use a specialized piece for ears.



### Special Profiles

Want something really special, like the circle top rope surround above? We can produce virtually anything you can imagine. Send us your detailed drawings or a rough idea of what you want. We can make your dreams a reality.



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## Surrounds Legend - Modifiers

### Panels

Panels can be plain or decorative. They can be used to alter the apparent shape of an opening, to combine two windows into one visual unit, or continue wall banding.



A cast stone filler panel gives the look of an eyebrow arch to this square window, left.



Ornamental panels can be used to span the area between two windows. Custom quoined legs add to the look of this dramatic window, left.



The eyebrow window above uses an ornamental panel in place of a sill.

### Ornaments

Decorative items such as shells, scrolls, and flowers can be used to match a distinctive style, like French Provincial or Italian. Because of the delicate detail work, these must be custom designed and ordered.

This square window uses a cartouche ornament, crown, surround with ears and lower scroll ornaments to make a bold statement.



Right, our Louis Medallion ornament serves as the focal point of this eyebrow window. Initial set up charge is \$1,000 for the first ornament to set the radius. Each additional ornament at the same radius is the profile cost per required footage plus \$200.



## Surrounds Legend - Additional Technical

Technical Information  
Additional technical information has been provided in the back of this chapter.

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# Legend Heritage Surrounds - Worksheet

## Build a Profile Family

**PROFILE**

 UID:

—

*Keystone  
Modifier*



Page XXX

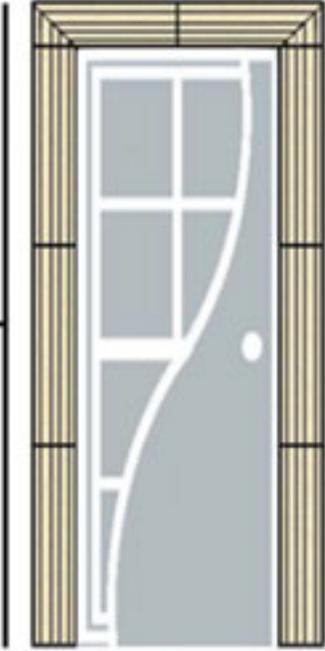
Brick     Stucco

*Surround*

**PROFILE**

 SquareTop     EllipticalTop  
 CircleTop     Circular  
 Eyebrow

—



*Basic Surround  
Pages XXX - XXX*

**PROFILE**

 UID:

—

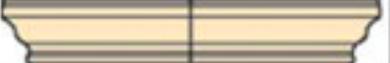


*Sill  
Modifier  
Page XXX*

## Modify Basic Surround

UID: 

*Odarra Crown  
SquareTopOnly;  
Page 217*



UID: 

*Ear Assembly;  
Page 217*



UID: 

*Plinth;  
Page 217*

 Flatface     Recess     Rearna

UID: 

*PictureFrame;  
Page 216*



*Opening surrounds can be used for many applications, from Arches to Windows and Doors to Vent Surrounds.*

***Make a copy of this page for each Opening Surround!***

***Fax all copies to Stone Legends for a complete cost estimate!***

# STONE LEGENDS

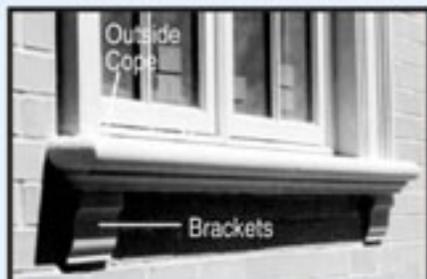
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# Surrounds Legend - Technical

## Sills

Cast stone sills add definition, beauty and utility to any window. They can be used alone or with a surround. Any unit shape, except full circles, can include a sill. Typically, sills are wider at each end than the surround (or window opening if used alone), and slanted to shed water. The ends are coped (corners) to turn back into the structure, see photo below.

The zz dimension (except z for Chamber and Wedge sills) must work with the main face material, just like the surround. And, the p dimension must be deep enough to support the depth (z) of the surround profile chosen.



Sill Treatments



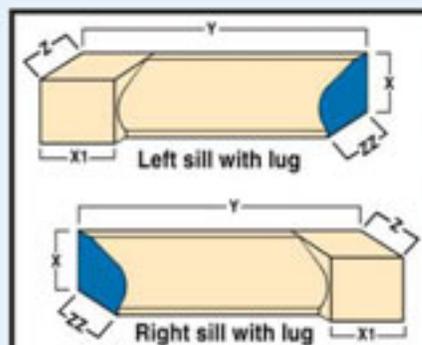
## Sizing Sills and Lugs

The main face material chosen for your home affects many aspects of sill design. Brick and stone are typically 3 5/8" deep, while Stucco and Dryvit systems are typically 1 1/2" deep. This information is critical to choosing the overall depth (z) and setting bed (zz) dimensions of your window sill.

In most cases, the depth (zz) of your cast stone sill profile should be equal to or greater than the thickness of the main face material. When used with a full surround, the sill (p) dimension must be deep enough to support the depth (z) of the surround profile chosen.

Some of our sills require cast-in lugs to support the legs of the surround. A lug gives the look of a plinth block, and still allows the sill to slope. A onetime set up fee is required to size the lugs to fit the chosen surround profile leg.

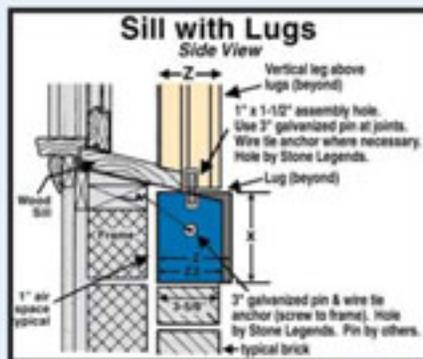
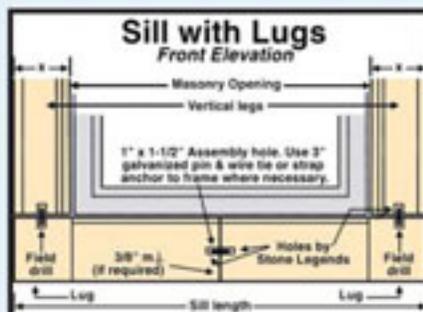
Coped ends must be field notched for brick applications or the brick can be notched around the stone. Note: Flat top profiles may also be used as sills, and should be installed at an angle to provide drainage. However, outside coped corners may require a set up fee.



### Lugs for Sills

Any sill profile can have cast-in lugs added to support the vertical leg surround profile. Lugs are required when the "ZZ" or the "P" of the sill is too narrow to support the surround profile maximum depth (Z). The "X1" dimension will be made equal to the "X" of the leg profile.

Onetime set up fee of \$300 for each sill/surround combination. Includes left and right



### Plinth Blocks

May be used in several different ways. Two examples are shown right. Plinth blocks are equal to or wider than the x dimension of the profile. The height (y) can be as desired. Depth (z) must be equal to or greater than that of the surround profile. Usually, plinths are plain (flatface), but can be designed with recesses, ornaments, slopes, stars, etc., to meet your preferences.

### Panels

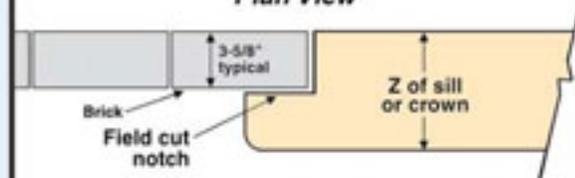
Can be sized two ways:

1. When used within a surround, adjacent to the window, a panel must have the same zz dimension as the surround profile. (Similar to the horizontal and vertical dividers.)

2. When used outside of the surround profile, the z dimension of the panel cannot be less than the zz of the surround profile. Shape as desired to make your own custom window surround.

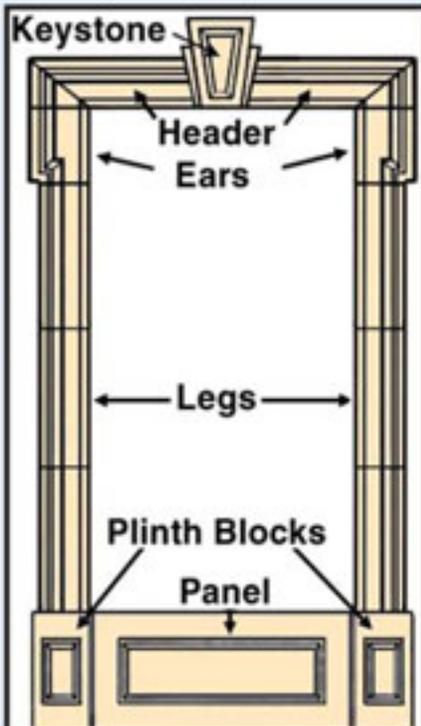
## Notch for Coped Sills and Crowns

Plan View



When used in conjunction with brick or face stone, the back side of the cope must be field notched around the building material. See left for plan view illustration. Or, you can notch the brick around the stone.

# Surrounds Legend - Technical



**Square Top with Options**

This window unit demonstrates a number of custom options beautifully.

The keystone chosen is a Recess Batman that stands out well from the larger header profile.

The ears smooth the transition between the two different sizes of Julian profile used. The header is Julian4 and the legs are Julian1.

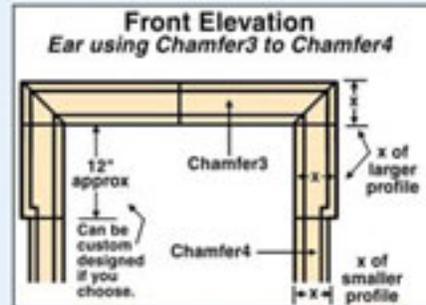
The legs themselves sit atop plinth blocks with recessed designs.

The recess panel was designed to match the plinths. This is an example of a panel within a surround.

Remove the panel and you have an equally handsome door.

## Ears

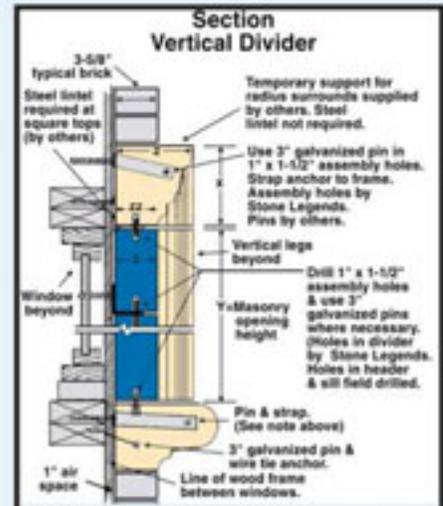
The transition between a taller and shorter profile of the same style. The transition dimension is usually about 2", but will actually be the difference in "x" between the two sizes. The standard length of the ear is usually 12" down from the top of the window opening. The header uses the wider profile and the ear completes the transition to the legs' narrower profile. The z (or depth) dimension must be the same for both profiles.



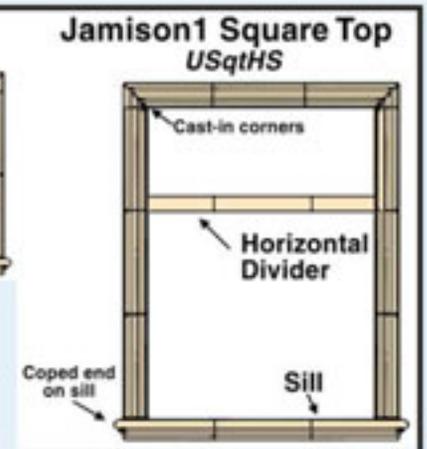
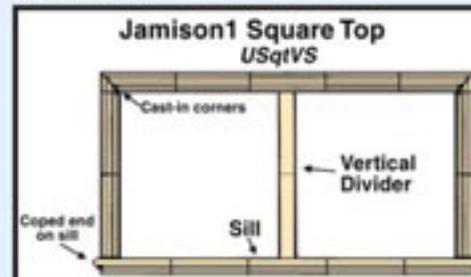
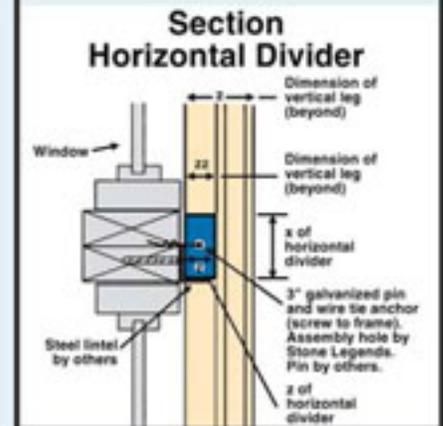
## Horizontal and Vertical Dividers

The width (x) dimension of these must correspond to the distance between windows (trim to trim). Our minimum "x" dimension is 2". The depth (z) dimension will be determined by the z2 of the surround profile. Our minimum "z" dimension is 1 1/4". Dividers must not be greater than the profile's z2. For smaller dividers, maximum piece length is 24"; for larger ones 36".

Dividers can be anything from plain flatface to deeply etched double profiles. The more elaborate windows with both vertical and horizontal dividers will require special, custom pieces to smooth the transitions between the various profiles.



Above and below are section drawings showing how to size and suggested attachment of both horizontal and vertical dividers.



Shown above and at right are two Square Tops that have been customized with flatface dividers. Used throughout an exterior, such simple custom options can alter dramatically the final look.

# Profile Families

## Profile Family Configuration

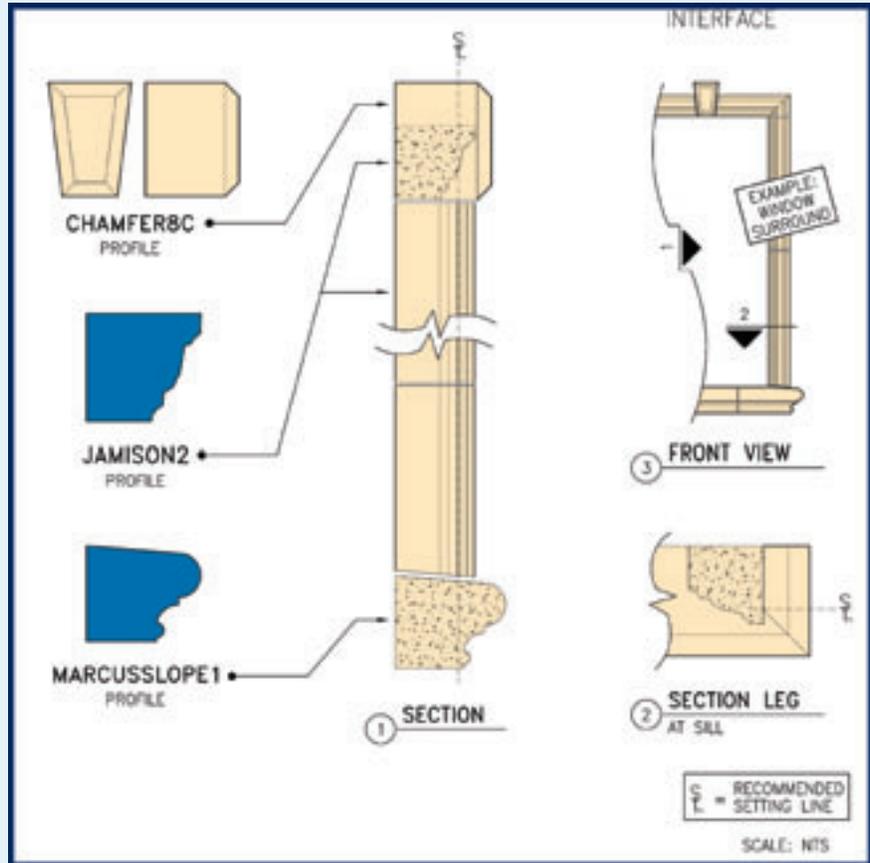
To simplify the selection process even further, the following popular Family configurations have been pre-configured. Shown on the following pages are the top 20 Profile Families for the Stone Legends top profile shapes.

These configurations are shown with a Chamfer keystone, however, standard Legend Heritage keystones can be substituted.

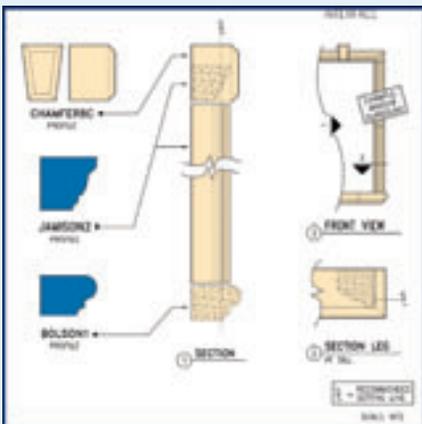
## Get Your Estimate

Once you've selected the Family Configuration, simply send us the surname associated with the unit and the masonry opening sizes for each surround unit required. You will get a complete cost estimate, including shipping directly to your project site.

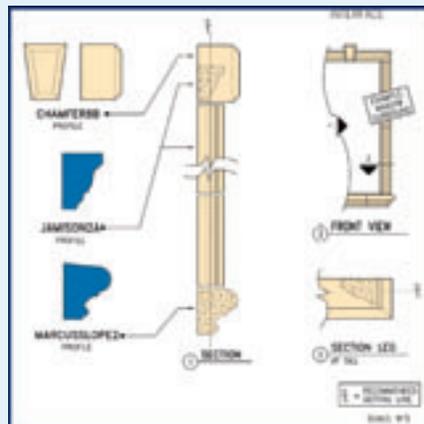
Contact your sales representative for more information on Profile Family configurations.



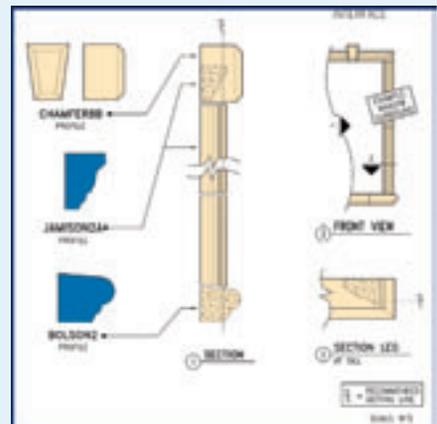
Jamison2 MarcusSlope1 Chamfer8c



Jamison2 Bolson1 Chamfer8c



Jamison2a MarcusSlope2



Jamison2a Bolson2 Chamfer8b

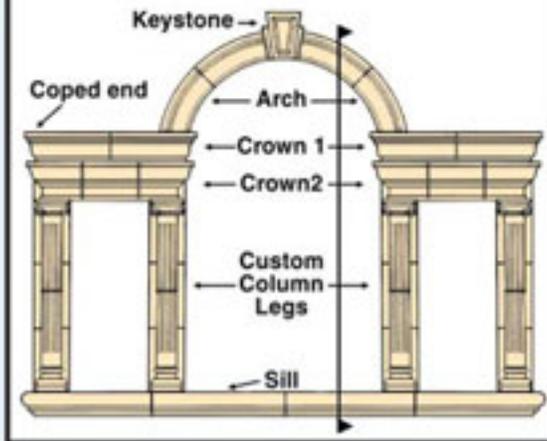
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# Surrounds Legend - Basic Shapes

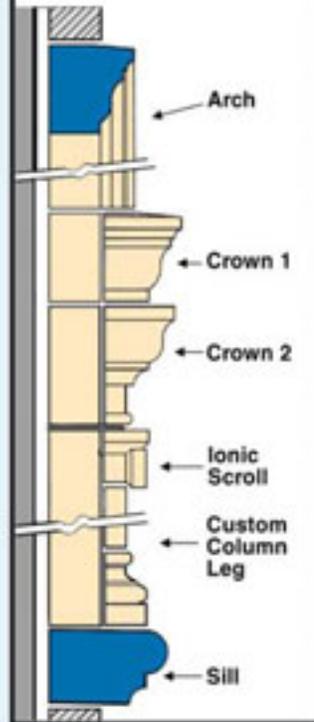
## Crowns

Crowns sit atop surround headers, so the z dimension of the crown must be greater than or equal to the z dimension of the surround profile. For most crowns, you will want the profile to turn to the face of the building, or be coped. See the Generic Parts List for more informa-

## Front Elevation Palladium Window with Double Crown



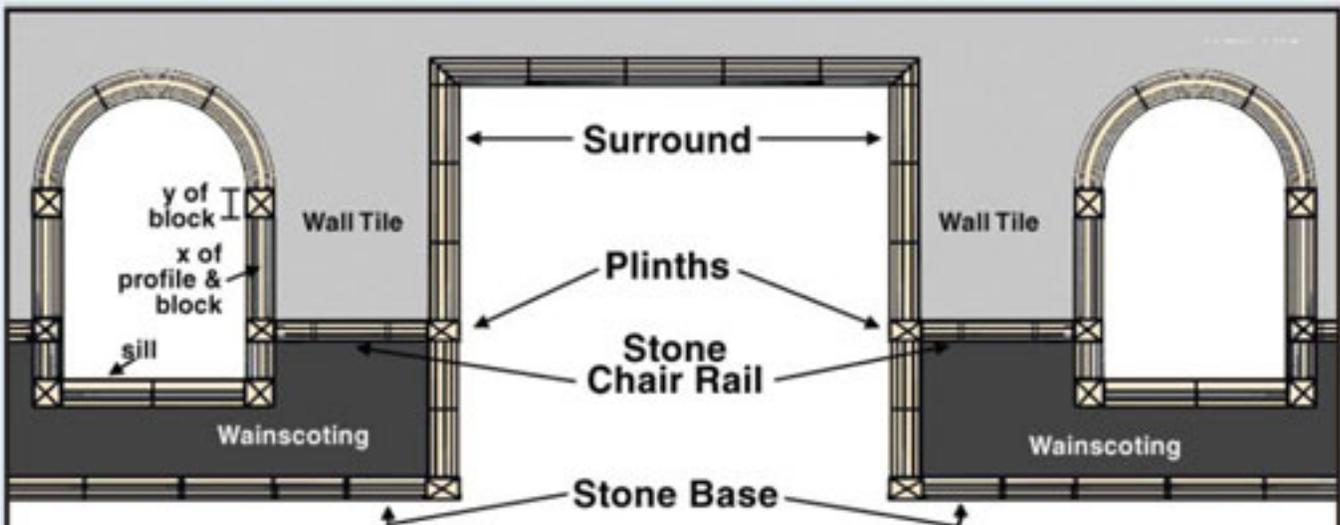
## Side View Palladium Window with Double Crown



## Unit drawings and attachments

Below is an example of cutaway section and suggested attachment drawing. Our doors and windows are beautiful to look at and easy to install because we do so much of the work for both you and the stone mason prior to material arriving on site. Once a contract is signed, we provide shop drawings that indicate piece lengths, joint sizes, identification marks for the stones, and other pertinent information. We also predrill assembly holes as much as possible. Corners and turns are cast-in to eliminate field mitering. Pieces are produced to  $1/8$ " tolerance, and arrive ready to install with minimal field cutting required. Copies of finished drawings go out with every completed order to ease installation. This level of detail is necessary to successfully complete each and every job.

Please note that these are suggested installation details only. All attachments, steel sizes, gauge thickness and anchor sizes should be calculated by a structural engineer. Stone Legends is not liable for installation of any kind. Above is an installation drawing of a square top header with a soffit for either a cased opening or



Final food for thought: This drawing illustrates how combining elements creatively can make a huge difference. This room started with simple Square Top and Circle Top units. Square star plinths hold the legs at top and bottom and rectangular ones serve to meet the chair rail at the middle and the base rail at the bottom of the wall.

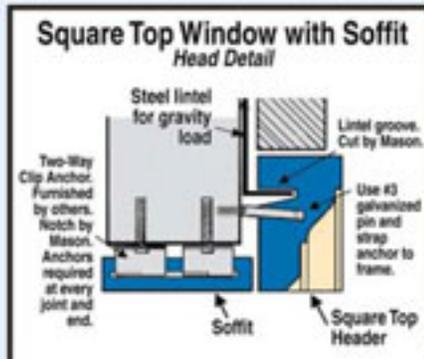
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## Surrounds Legend - Profile Shapes

a deeply recessed window. The drawing clearly shows the lintel for the header and the joint clips to hold the jamb in place. Here, a hidden lintel angle is required because the bottom edge of the header is exposed. Joint Clip Anchors

Using the proper clip anchors is essential to successfully installing any cast stone door or window surround. Shown below are three different anchors that are often specified by stone masons or structural



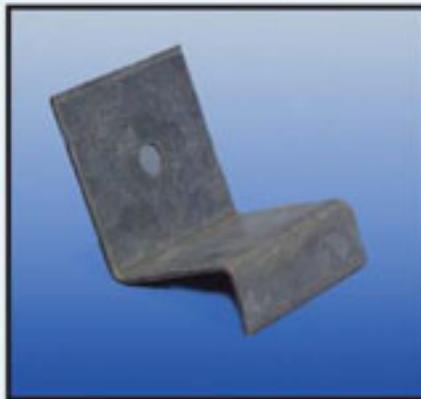
Above is an installation drawing of a square top header with a soffit for either a cased opening or a deeply recessed window. The drawing clearly shows the lintel for the header and the joint clips to hold the jamb in place. Here, a hidden lintel angle is required because the bottom edge of the header is exposed.

### Joint Clip Anchors

Using the proper clip anchors is essential to successfully install any cast stone door or window surround. Shown below are three different anchors that are often specified by stone masons or structural

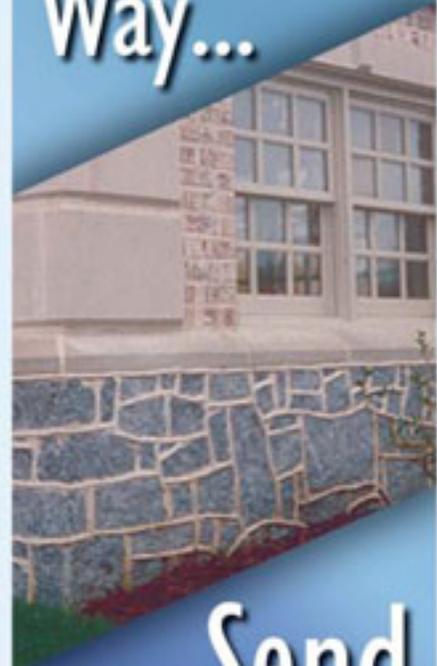


*Two-way clip anchors (above) and one-way anchors (below) are widely used in both brick and stucco applications.*



*This version of a two-way anchor is used for specialized applications.*

# Do It The Easy Way...



# Send Us Your Plans!

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