Determine if your fireplace is a factory built prefabricated fireplace or a masonry type fireplace. If your fireplace is a factory built prefab, refer to "measuring a zero-clearance fireplace."

Masonry Fireplaces

All types of fit: Be sure to take all measurements to the nearest 1/16" using a steel tape measure. Note any irregularities around the opening of the fireplace, such as projecting or recessed brick, and advise on the Custom Order Form accordingly. For complex custom applications, a photograph of the fireplace will prove very helpful.

Overlap Fit is when the enclosure is larger than the opening of the fireplace. Measure the width of the opening at the top and again at the bottom. We need the minimum and maximum widths. See Figure 1.

Fireplace Opening Dimensions

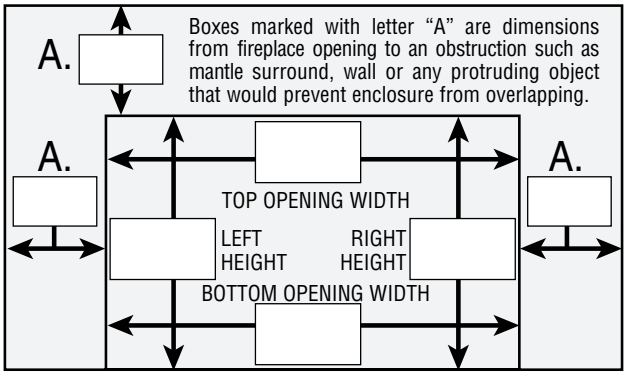

Figure 1

Next, measure the height of the opening from the hearth (where the enclosure will sit) to the brick, marble, slate, etc. When ordering Regal or Original, make sure you do not overlap the opening more than 3 1/4" when using mesh curtains. When ordering Cameo or Classic with mesh, indicate on the Custom Order Form the thickness of the lintel bar, as we must allow the mesh angle assembly to clear under the lintel bar. If there is no hearth extension or you have a raised firebox, you will need to overlap the bottom of the opening (Picture frame mount). To aid in this installation, use the suspension bar (SB-1) as indicated on page 33. The suspension bar drops down 5/8", therefore adding 5/8" to the effective opening.

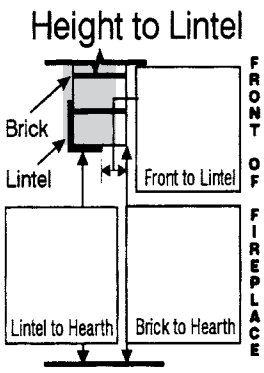

Figure 2

Inside Fit is when the enclosure is smaller than the opening of the fireplace. Measure the width of the opening at the top and again at the bottom. We need the minimum width. See Figure 1. Next, measure the height of the opening from the hearth (where the enclosure will sit) to either the bottom of the lintel bar or the bottom of the finishing material (brick, marble, etc.) See figure 2.

Notes on Inside Fit Enclosures:
Width - If the top width is 42" and the bottom width is 41 1/2", we will make the enclosure 41 1/4" wide allowing 1/8" clearance tolerance on each side. This means that at the top, there will be a 3/8" gap between the side panel and the frame on each side. You may reduce this gap by ordering exact overall frame size, but remember to allow enough clearance for the enclosure to fit into the smallest width dimension (Factory tolerance is + or - 1/32"). Another option may be to use the Laser enclosure (from page 26). Generally, the clearance tolerance gaps can be filled from the backside of the frame using high temp silicon RTV. If the gaps become excessive (as in a stone fireplace), it may be necessary to mortar in the enclosure.

Height - If you are planning on installing the enclosure under the brick, the face of the lintel bar must be 1 1/8" back from the face of the fireplace, otherwise the enclosure will protrude out from the fireplace, as the enclosures are 1 1/8" thick. The distance from the face of the fireplace to the face of the lintel bar must be indicated in the area provided on the custom order forms before we can begin processing your order. See figure 2. In general, you will usually obtain a better fit (and easier installation) when you overlap fit the enclosure to the fireplace.

Stone Fireplaces: If the stone is smooth enough, you can overlap or inside fit as described above. Most of the time, however, the enclosure will need to be mortared in. On certain size applications, the Install-Rite will be a tremendous aid in this process. See page 33. It is usually best to select a smaller size enclosure (than the opening) and mortar in from the sides rather than overlapping and trying to mortar behind the side panels. This also tends to give the appearance of a concrete box in front of the fireplace with an enclosure up against it rather than the "built in" look. The best person to select a size enclosure for a rough stone fireplace is the person that will be installing it. When you order an enclosure for a rough stone fireplace, we suggest that you do not try to provide us with opening dimensions; simply indicate "stone" on the type of fireplace on the order form and indicate what size outside frame dimensions you need.

Zero-Clearance Fireplaces

Determine the manufacturer and model number of the fireplace. This information is usually located high on the inside wall of the fireplace above the refractory panels or behind the mesh curtain on the inset return. Once this information is obtained, refer to pages 12 & 13 of this price list and determine if a stock enclosure is available. If the fireplace manufacturer and model are not listed, refer to custom Z-Door™ pricing at the bottom of page 13.

Custom Z-Door™: Measure the width and height of the steel opening where the enclosure will fit. See Figure 1. This will be the same position that the fireplace manufacturer's enclosure would be installed. Do not measure the finish material in front of the fireplace; brick, stone, marble, slate, tile, etc. You may need to remove the track to install the Z-Door™, so measure accordingly. It is very important, however, not to modify or remove any other component of the fireplace. Determine if Air Studs or an Air Draft Bar should be used. The Air Stud will not add any thickness to the enclosure, and is used when there is an "ash lip" in the refractory or there is not enough inset depth. The Air Draft Bar is used more with "masonry appearance" type zero-clearance fireplaces. The Air Draft Bar will add 5/8" thickness to the enclosure, making the enclosure extend forward from the fireplace. Air Stud Example: If the inset is 1", and the thickness of the enclosure is 1 1/8", the enclosure will extend forward from the face of the fireplace 1/8". See Figure 3.

We will manufacture the enclosure (less the cooling air intakes) based on the fireplace opening dimensions you provide.

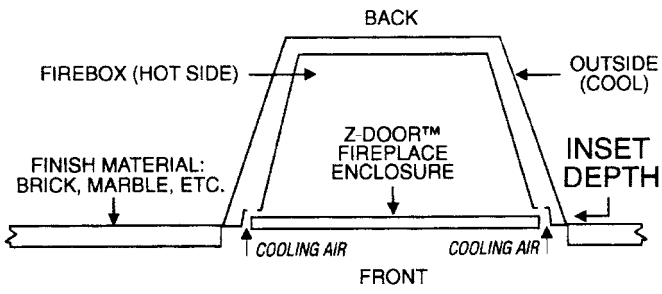

Figure 3