FeneVision® Best Practice

Opening Designer Continuous Arc Configuration (BP0083)

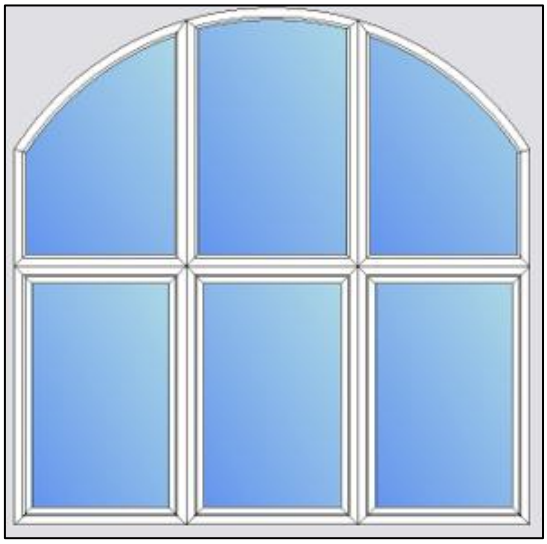
Introduction

The purpose of this document is to explain how to configure a continuous arc product using Opening Designer.

Using

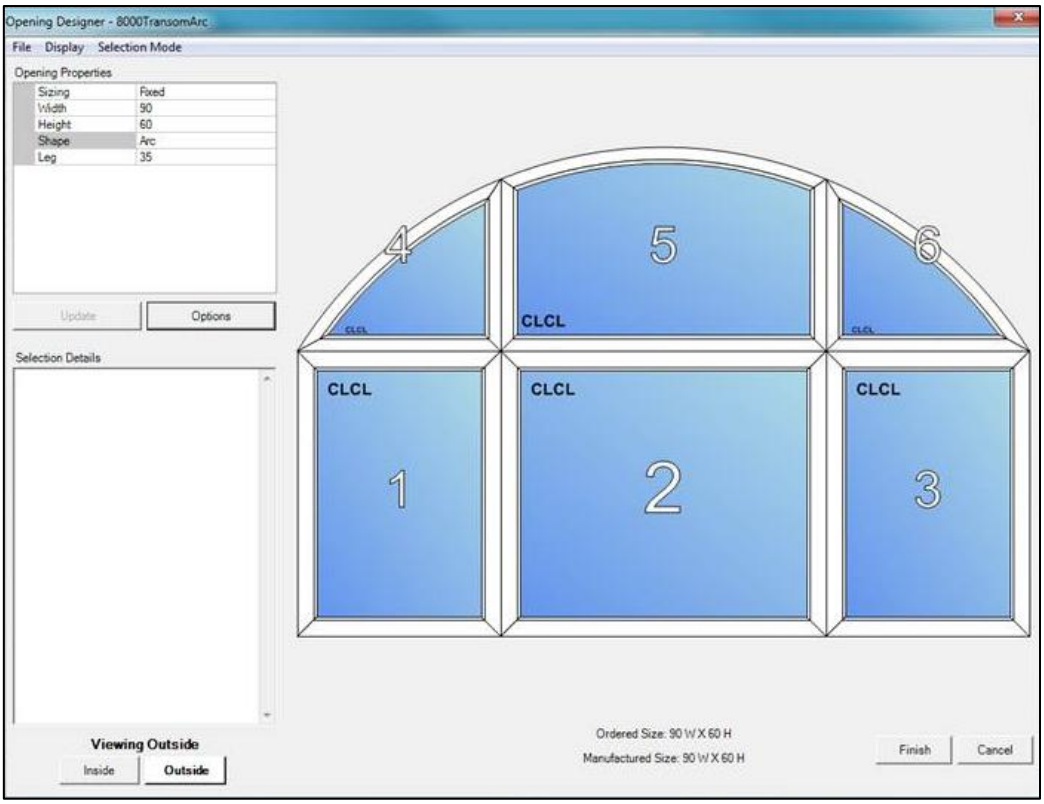
Opening Designer can be used to configure a mulled unit with a smooth continuous arc top. Such a unit can be comprised of three windows, a full eyebrow in the center and half eyebrows on the ends. Given an outer leg dimension (for the windows on the ends), Opening Designer will calculate the leg height needed on full eyebrow windows (in the center), as well as the leg, radius, and orientation (left/right) of the outer half eyebrow windows. Keep in mind, the continuous arc can be made with more or less than three windows. Possible section windows can be the eyebrow, half eyebrow, single hung pattern top eyebrow, and single hung pattern top half eyebrow.

Below is an example of continuous arc using a single hung pattern top eyebrow and single hung pattern top half eyebrows.

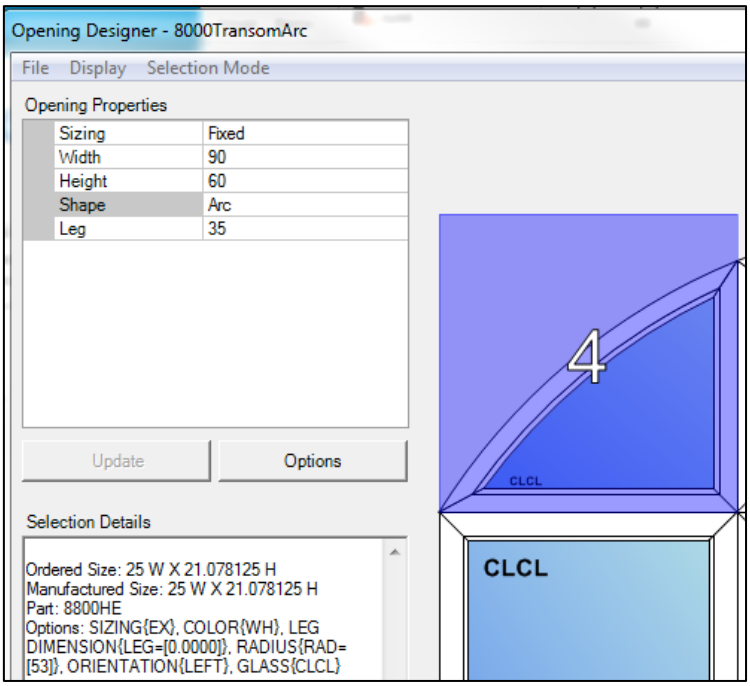


Continuous Arc in Opening Designer

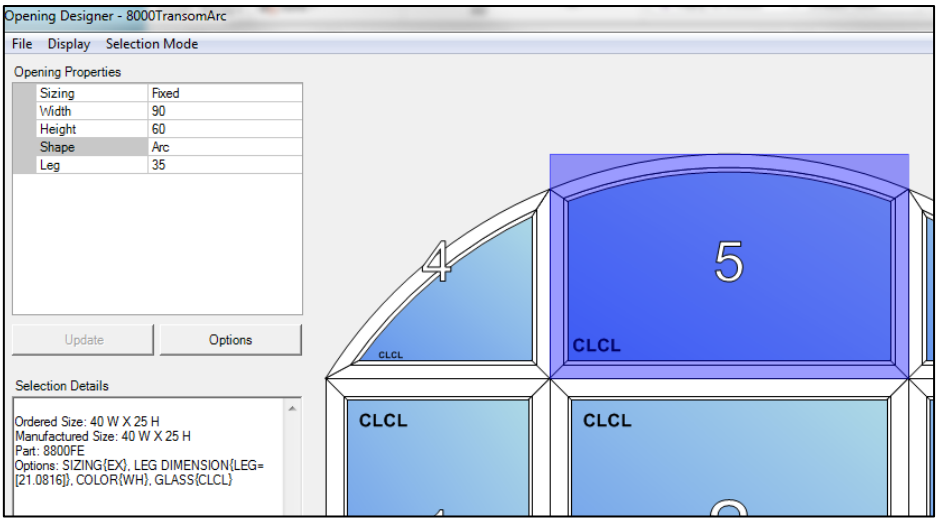
In this example, we will use six section windows and will setup the continuous arc in the transom. Notice the upper left corner of the screenshot, where the Shape = Arc and the Leg = 35. The leg is 35 because that is the height of the picture windows in the bottom sections, which will result in a leg of 0 for the half eyebrows on the ends. This was the desired result for the transom in this example.



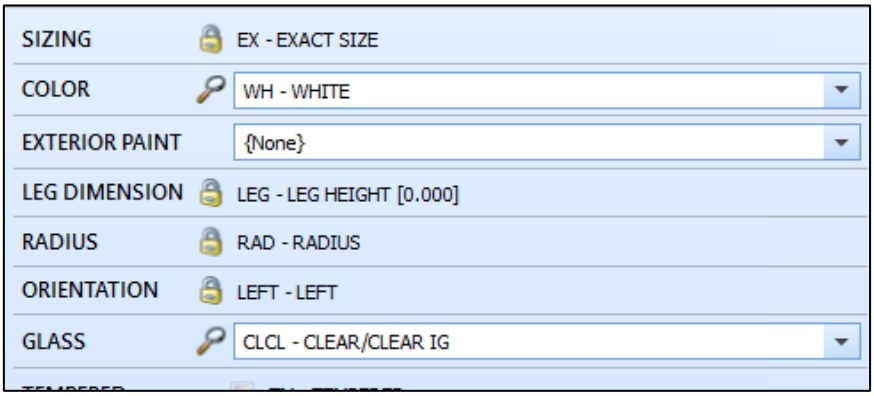
This only works when Opening Designer has the ability to set the LEG, RADIUS, and ORIENTATION (left/right) on the half eyebrows. The half eyebrow product must have these 3 options in its option structure. You can see their values in the screenshot below under Selection Details.



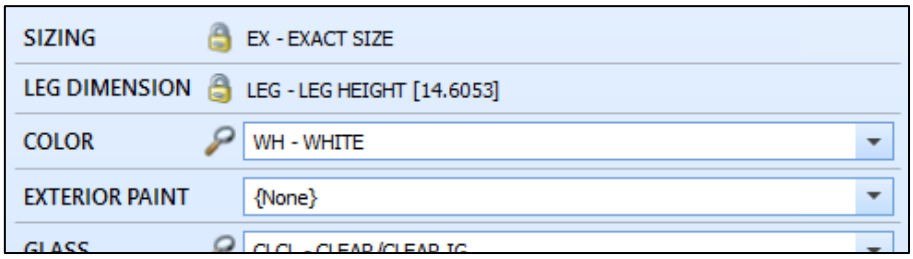
The full eyebrow must have a LEG option, which is automatically set by Opening Designer. You can see this under Selection Details below.



When you order a line item for this product, Opening Designer will automatically set the LEG, RAD and the LEFT/RIGHT options on the half eyebrows, and they will be locked.

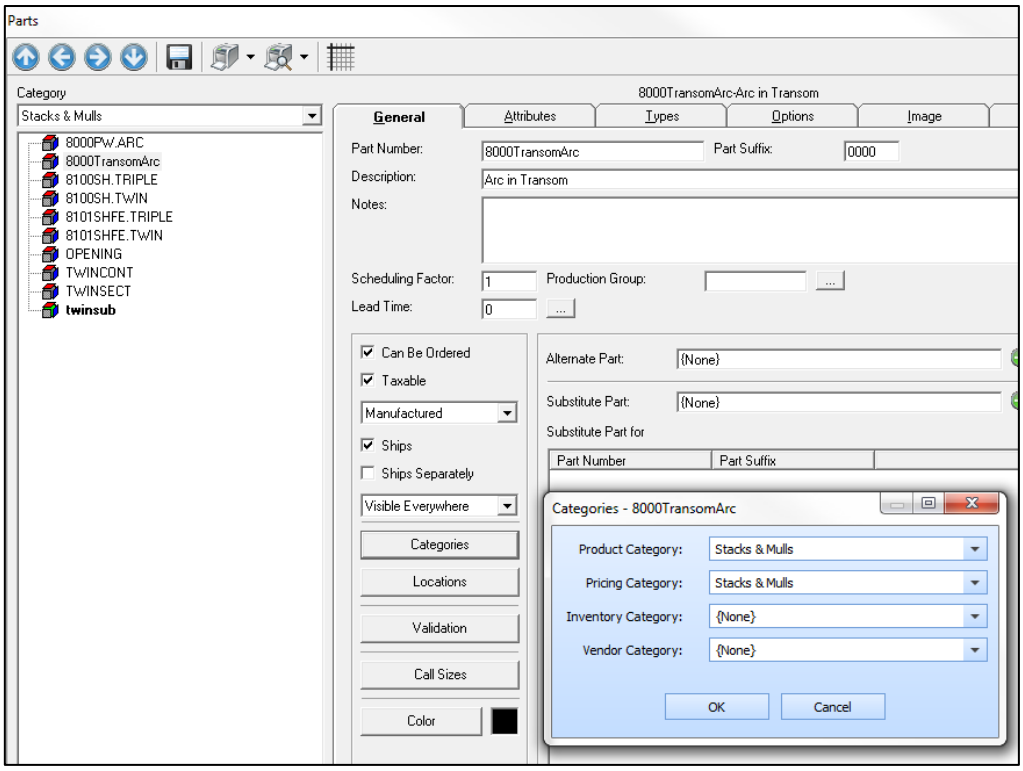


The LEG option will be set and locked for the full eyebrow. RAD and LEFT/RIGHT options are not needed for the full eyebrow.

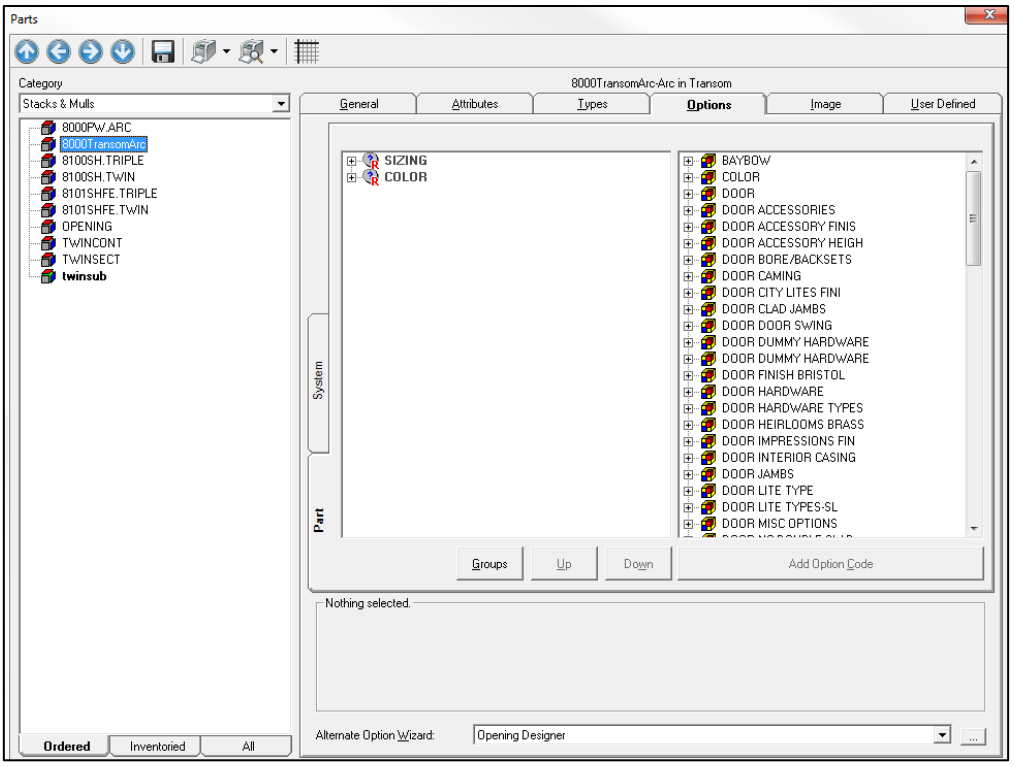


Opening Designer Setup

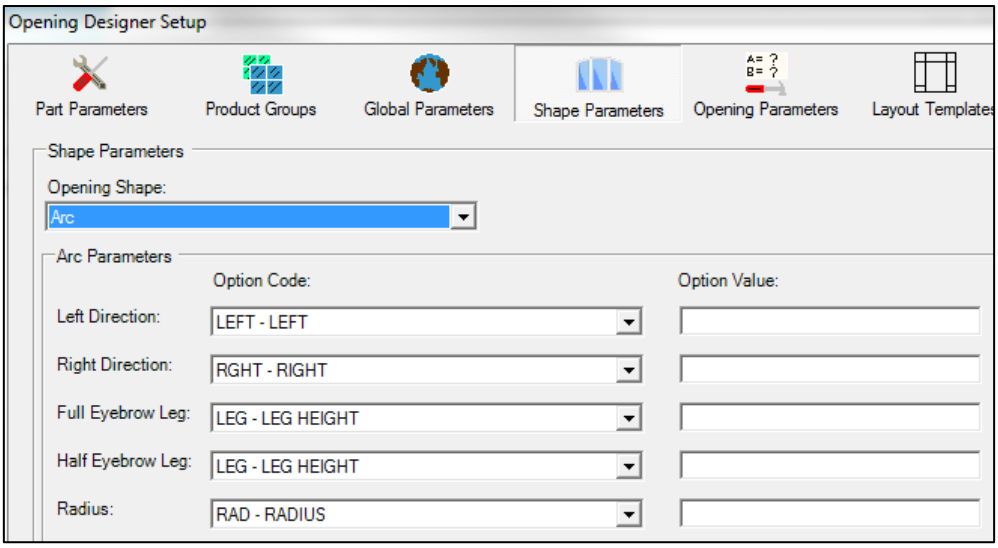
This example product is named 8000TransomArc, and it requires the typical settings on the General tab in Part Setup. It should be set as a manufactured, orderable part, and have product, pricing, and inventory categories.



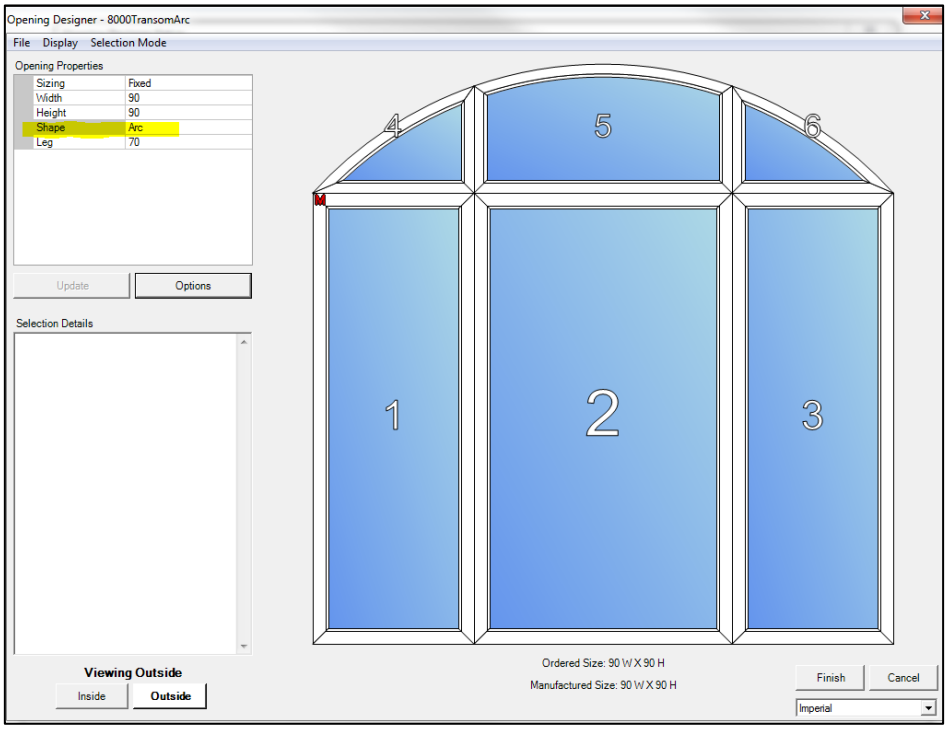
It is assigned Opening Designer for the Alternate Option Wizard (bottom of screenshot below).



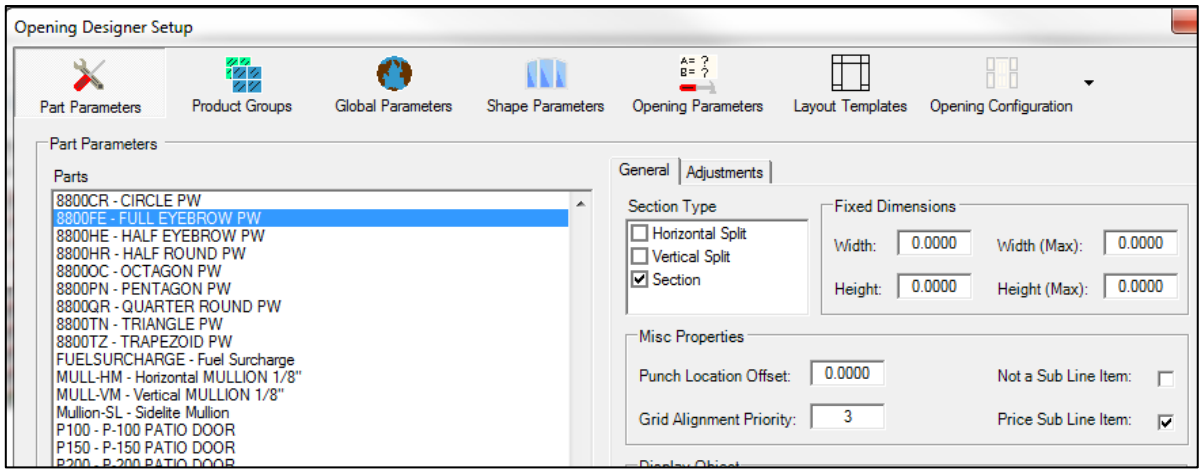
Clicking the ellipsis button to the right of the wizard opens Opening Designer Setup. The most important settings related to continuous arc are found in the Shape Parameters area. You must tell Opening Designer what the name of your LEG, RADIUS, and ORIENTATION option codes are for the Arc shape in Opening Designer Setup. This gives Opening Designer the ability to set and lock these options automatically when ordering a continuous arc product.



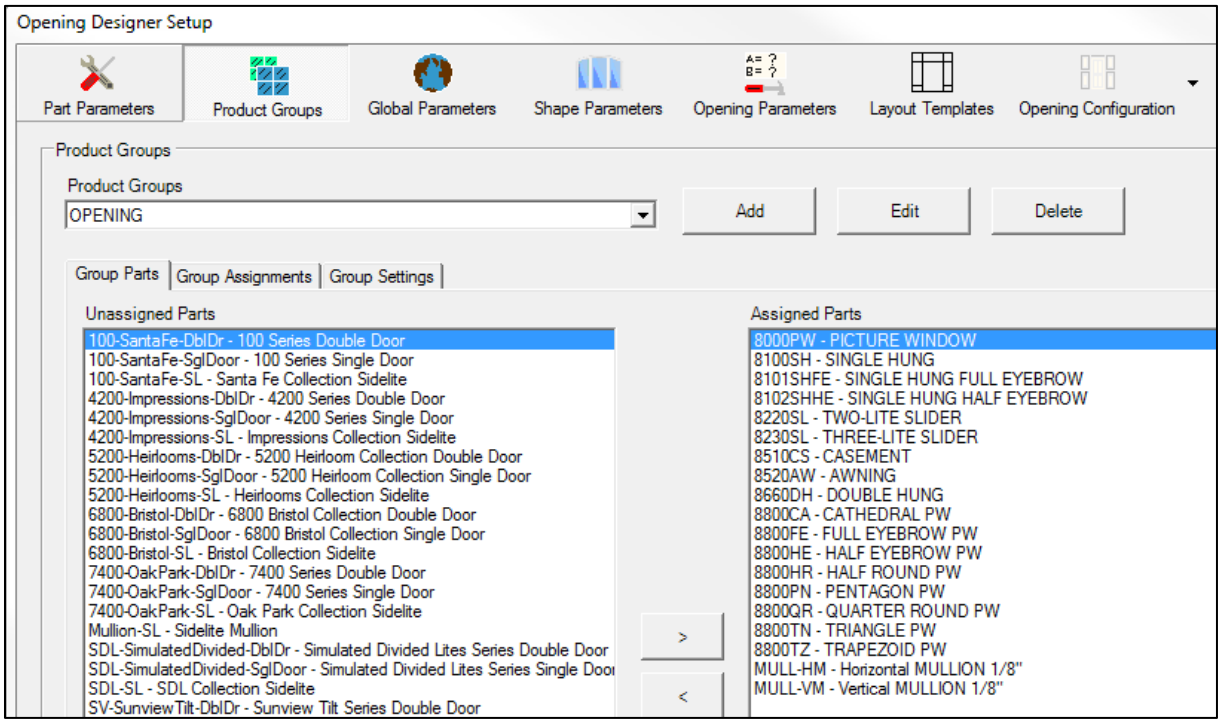
Make sure Shape = Arc in the Opening Configuration so that users don't have to flip the setting to Arc every time they order the product.

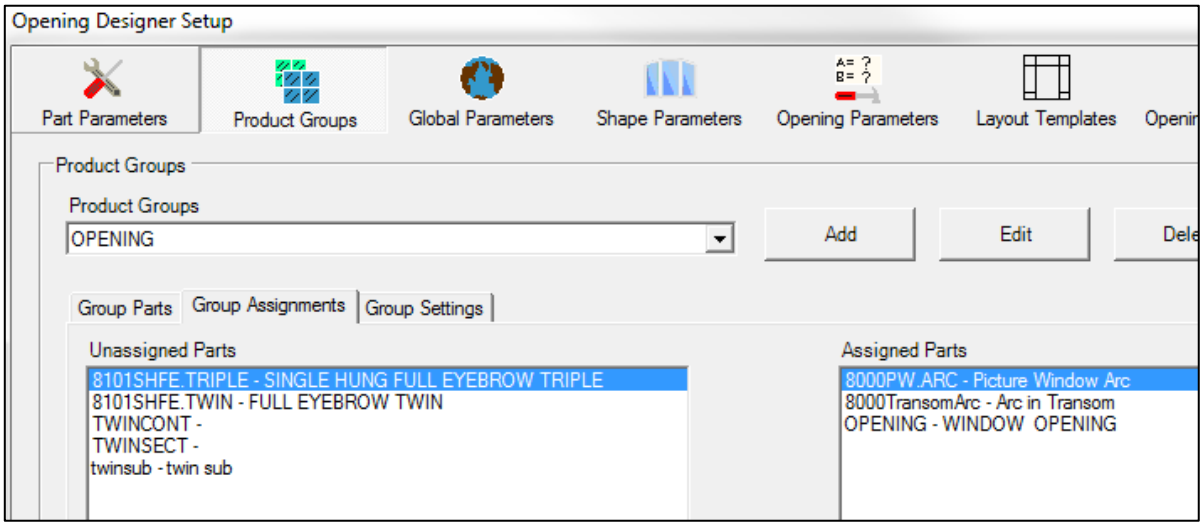


Other Opening Designer Setup is similar to any other opening part. The section and split parts are setup as typical for any opening design.

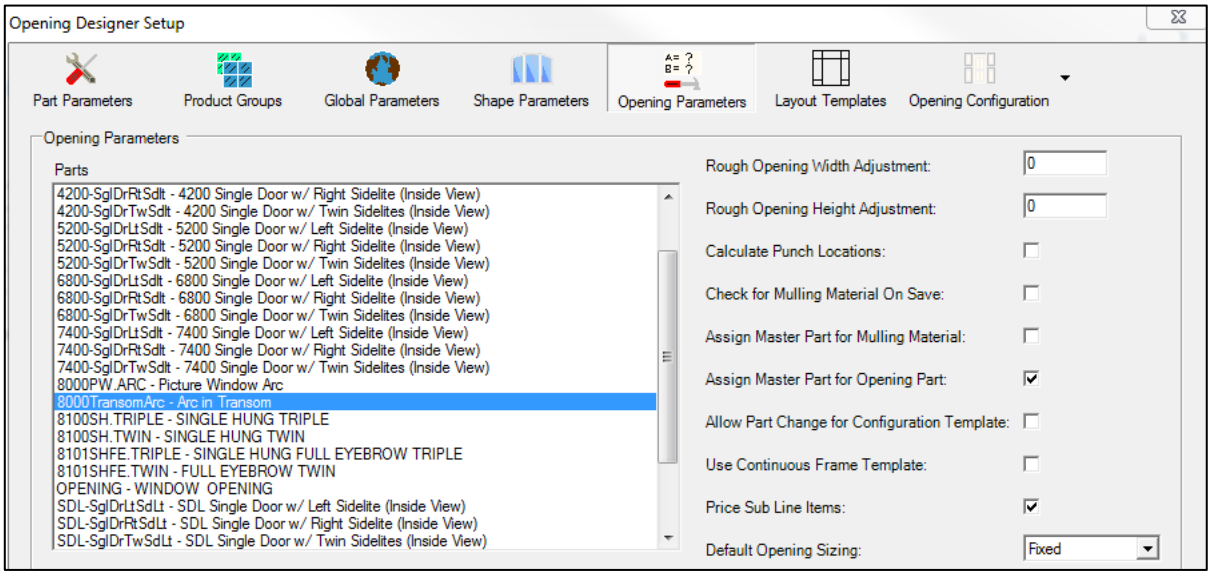


Setup product groups as desired.



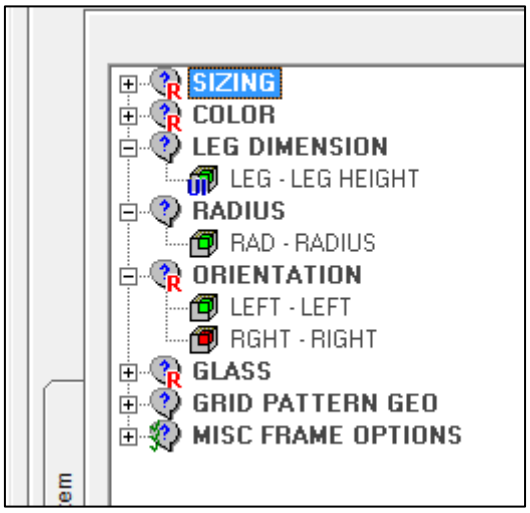


Setup Opening Parameters as desired.



Option Structure

As mentioned earlier, the half eyebrows and single hung pattern top half eyebrows will need LEG, RADIUS, and ORIENTATION option codes.



Most likely you will only want the RADIUS question to be visible when the half eyebrow is part of an opening designer unit (unless you actually do enter RADIUS when ordering your half eyebrows standalone). You can hide the question with a group visibility script for standalone eyebrows by utilizing the IsSubLineItem function:

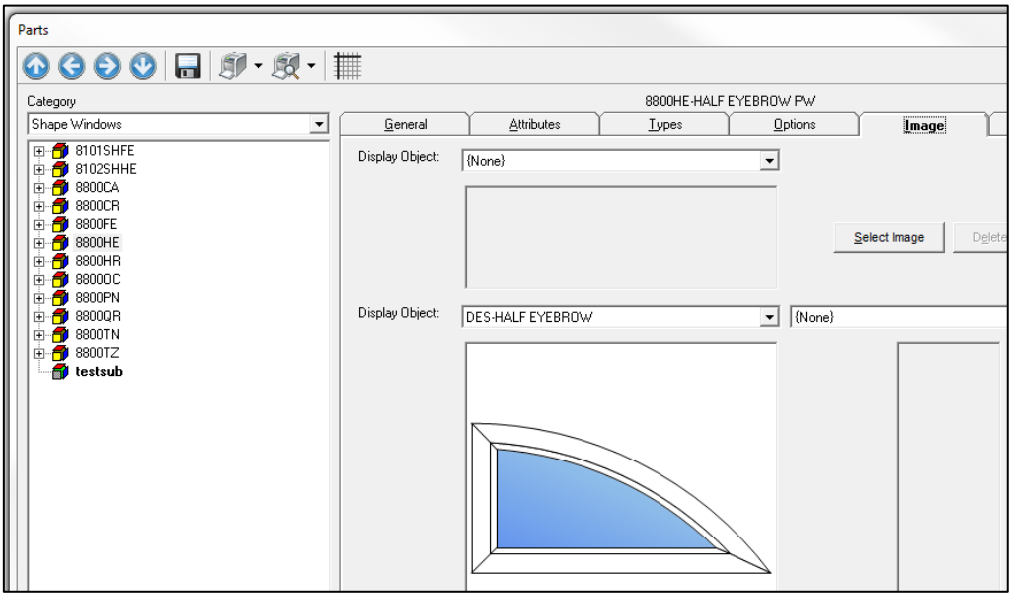
```
Function GroupVisible() As Boolean

    Dim retval As Boolean

    'EXAMPLES
    ' retval = OptionExists("ARGON")
    ' If OptionExists("WGWH") Then
    '       retval = True
    ' Else
    '       retval = False
    ' End If
    'NOTE: This Function is REQUIRED to return a value of TRUE or
     FALSE.

    'ENTER YOUR CODE HERE!
```

```
        retval = False

        If IsSubLineItem = True Then retval = True

        'DO NOT MODIFY CODE BELOW THIS LINE!
        GroupVisible = retval

    End Function
```

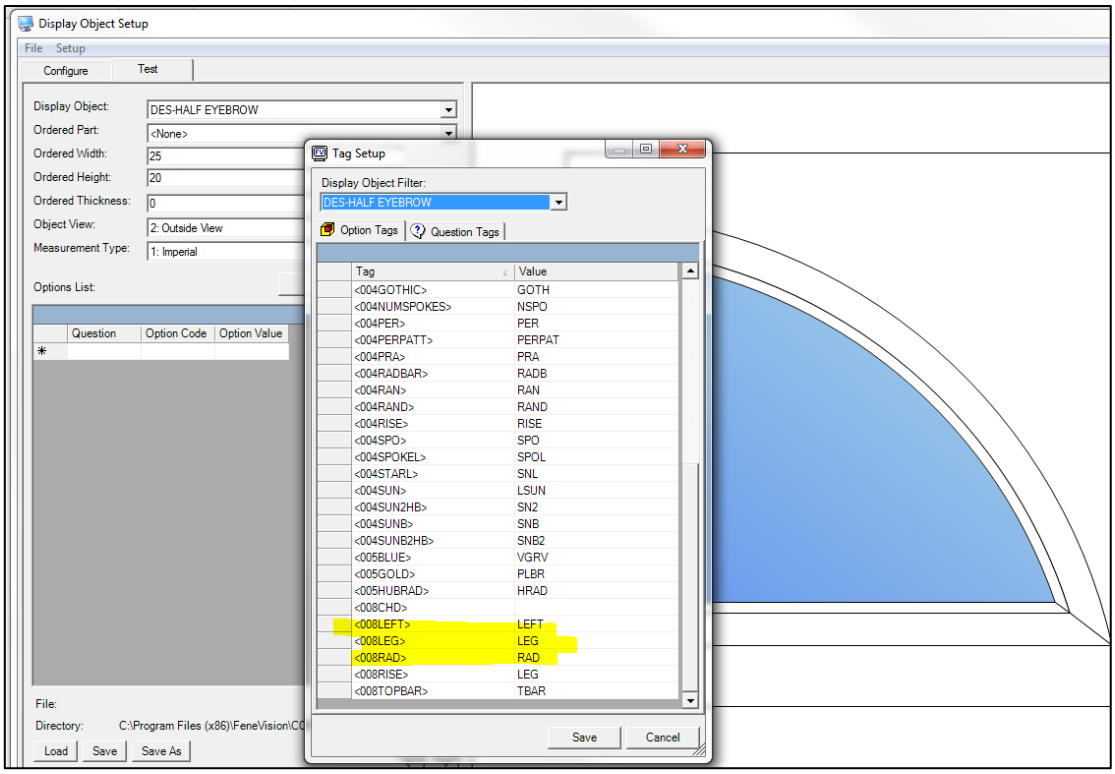
Full eyebrows require the LEG option in their option structure, which is typical for standalone eyebrows and those which are part of a mulled unit.

Display Objects

Note that the base DES objects are required because they handle the required options: LEG, RADIUS, and LEFT/RIGHT. Make sure all sections in the mulled unit are assigned DES objects in Part Setup, or custom objects generated from DES objects.

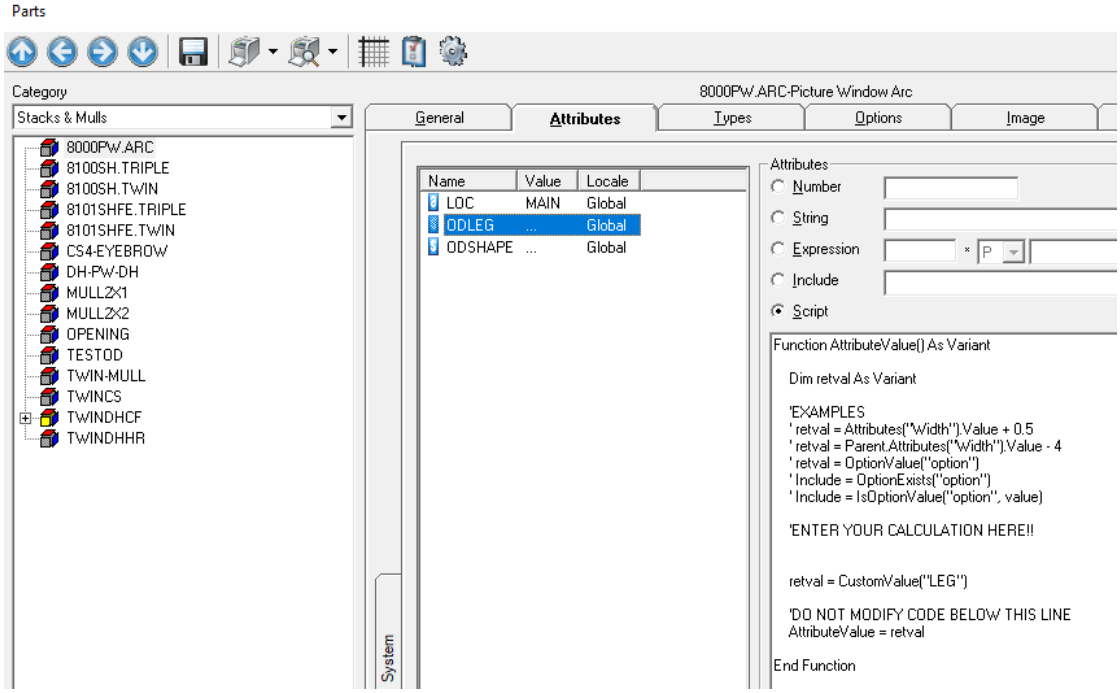


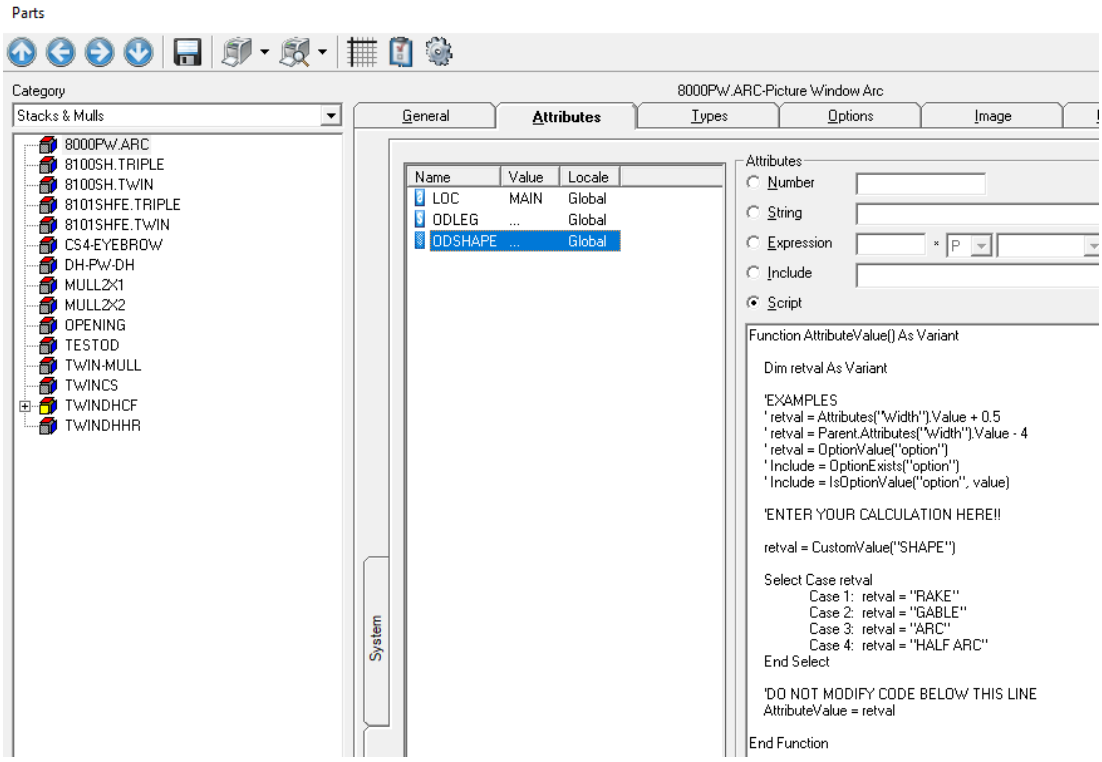
Don't forget to assign the display object tags to your option codes. These are the same option codes that were assigned in Shape Parameters in Opening Designer Setup.



Opening Shape Values

Information about the shape is saved in the database. These values, leg and shape type, are accessed in an attribute on the mainlineitem part using the CustomValue function. The screenshots below show how to retrieve the leg and shape type information for opening (mainlineitem) part 8000PW.ARC.





Testing

Enter test orders for the continuous arc product, making sure things flow smoothly during order entry and no errors occur. Continue moving the product through FeneVision making sure Tracking and Trucking can process the mulled unit properly.