

Door

The Form

Exterior Door

x

Starting Point
y

z

Width

Height

Door Window Option

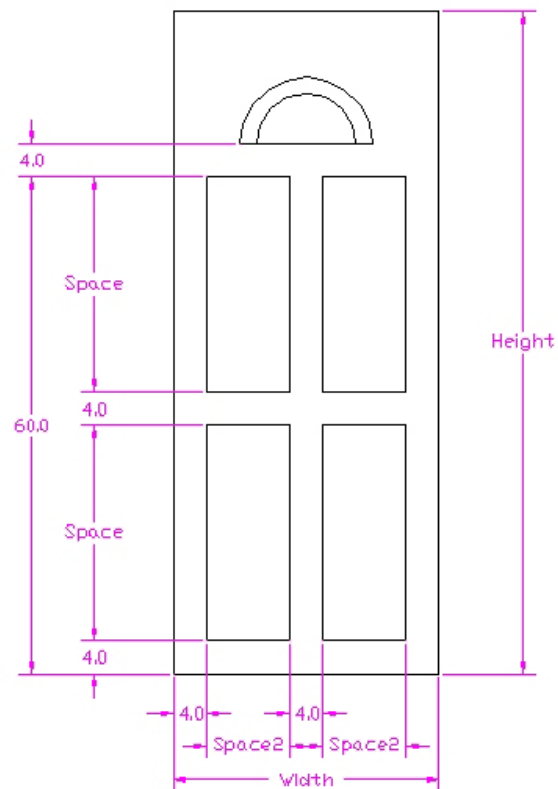
Half Moon

Round

Square

Instructions:
Place the x, y and z coordinates for the startingpoint, and the width and height in inches. Select Half Moon, Round or Square window option.

Draw Clear Form Exit



Sub door()

'define the starting and centerpoint arrays, width, height and radius

Dim objLine As AcadLine
Dim objArc As AcadArc
Dim objCircle As AcadCircle

Dim P1(0 To 2) As Double
Dim P2(0 To 2) As Double
Dim P3(0 To 2) As Double
Dim P4(0 To 2) As Double
Dim P5(0 To 2) As Double
Dim P6(0 To 2) As Double
Dim P7(0 To 2) As Double
Dim P8(0 To 2) As Double
Dim P9(0 To 2) As Double
Dim P10(0 To 2) As Double
Dim P11(0 To 2) As Double
Dim P12(0 To 2) As Double
Dim P13(0 To 2) As Double
Dim P14(0 To 2) As Double
Dim P15(0 To 2) As Double
Dim P16(0 To 2) As Double
Dim P17(0 To 2) As Double
Dim P18(0 To 2) As Double
Dim P19(0 To 2) As Double
Dim P20(0 To 2) As Double
Dim P21(0 To 2) As Double
Dim P22(0 To 2) As Double
Dim P23(0 To 2) As Double
Dim P24(0 To 2) As Double
Dim P25(0 To 2) As Double
Dim P26(0 To 2) As Double

Dim Width As Double
Dim Height As Double

Dim X1 As Double
Dim X2 As Double
Dim X3 As Double
Dim X4 As Double
Dim X5 As Double
Dim X7 As Double
Dim X8 As Double
Dim X9 As Double

Dim Y1 As Double
Dim Y2 As Double
Dim Y3 As Double
Dim Y4 As Double
Dim Y5 As Double
Dim Y6 As Double
Dim Y7 As Double
Dim Y8 As Double
Dim Y9 As Double

Dim Space As Double
Dim Space2 As Double
Dim Round As String
Dim Square As String
Dim HalfMoon As String

'get input

Width = txtWidth
Height = txtHeight
Round = optRound.Value
Square = optSquare.Value
HalfMoon = optHalfMoon.Value

'calculate space

Space = (60 - 4 - 4) / 2

Space2 = (Width - 4 - 4 - 4) / 2

'do math

X1 = txtStartingpointX
X2 = X1 + 4
X4 = X2 + Space2
X5 = Width / 2
X6 = X4 + 4
X3 = X5 - 6
X7 = X5 + 6
X8 = X6 + Space2
X9 = X1 = Width

Y1 = txtStartingpointY
Y2 = Y1 + 4
Y3 = Y2 + Space
Y4 = Y3 + 4
Y5 = Y4 + Space
Y6 = Y5 + 4
Y7 = Y6 + 6
Y8 = Y7 + 12
Y9 = Y1 + Height
Z1 = txtStartingpointZ

' Point assignment

P1(0) = X1
P1(1) = Y1
P1(2) = Z1
P2(0) = X9
P2(1) = Y1
P2(2) = Z1
P3(0) = X2
P3(1) = Y2
P3(2) = Z1
P4(0) = X4
P4(1) = Y2
P4(2) = Z1
P5(0) = X6
P5(1) = Y2
P5(2) = Z1
P6(0) = X8
P6(1) = Y2
P6(2) = Z1
P7(0) = X2
P7(1) = Y3
P7(2) = Z1
P8(0) = X4
P8(1) = Y3
P8(2) = Z1
P9(0) = X6
P9(1) = Y3
P9(2) = Z1
P10(0) = X8
P10(1) = Y3
P10(2) = Z1
P11(0) = X2
P11(1) = Y4
P11(2) = Z1
P12(0) = X4
P12(1) = Y4
P12(2) = Z1
P13(0) = X6
P13(1) = Y4
P13(2) = Z1
P14(0) = X8
P14(1) = Y4
P14(2) = Z1
P15(0) = X2
P15(1) = Y5

```

P15(2) = Z1
P16(0) = X4
P16(1) = Y5
P16(2) = Z1
P17(0) = X6
P17(1) = Y5
P17(2) = Z1
P18(0) = X8
P18(1) = Y5
P18(2) = Z1
P19(0) = X1
P19(1) = Y9
P19(2) = Z1
P20(0) = X9
P20(1) = Y9
P20(2) = Z1
P21(0) = X5
P21(1) = Y6
P21(2) = Z1
P22(0) = X3
P22(1) = Y6
P22(2) = Z1
P23(0) = X7
P23(1) = Y6
P23(2) = Z1
P24(0) = X3
P24(1) = Y8
P24(2) = Z1
P25(0) = X7
P25(1) = Y8
P25(2) = Z1
P26(0) = X7
P26(1) = Y5
P26(2) = Z1

```

```

Set objArc = ThisDrawing.ModelSpace.AddArc(P21, 6, 0,
3.14159265358979)
End If

```

```
End Sub
```

```

Private Sub cmdClearform_Click()
'clear the form
txtStartingpointX = "0.00"
txtStartingpointY = "0.00"
txtStartingpointZ = "0.00"
txtWidth = "0.00"
txtHeight = "0.00"

```

```
End Sub
```

```

Private Sub cmdDraw_Click()
'draw the part
door
End Sub

```

```

Private Sub cmdExit_Click()
'unload and end program
Unload Me
End
End Sub

```

'Draw the window

```

Set objLine = ThisDrawing.ModelSpace.AddLine(P1, P2)
Set objLine = ThisDrawing.ModelSpace.AddLine(P2, P20)
Set objLine = ThisDrawing.ModelSpace.AddLine(P20, P19)
Set objLine = ThisDrawing.ModelSpace.AddLine(P19, P1)
Set objLine = ThisDrawing.ModelSpace.AddLine(P3, P4)
Set objLine = ThisDrawing.ModelSpace.AddLine(P4, P8)
Set objLine = ThisDrawing.ModelSpace.AddLine(P8, P7)
Set objLine = ThisDrawing.ModelSpace.AddLine(P7, P3)
Set objLine = ThisDrawing.ModelSpace.AddLine(P5, P6)
Set objLine = ThisDrawing.ModelSpace.AddLine(P6, P10)
Set objLine = ThisDrawing.ModelSpace.AddLine(P10, P9)
Set objLine = ThisDrawing.ModelSpace.AddLine(P9, P5)
Set objLine = ThisDrawing.ModelSpace.AddLine(P11, P12)
Set objLine = ThisDrawing.ModelSpace.AddLine(P12, P16)
Set objLine = ThisDrawing.ModelSpace.AddLine(P16, P15)
Set objLine = ThisDrawing.ModelSpace.AddLine(P15, P11)
Set objLine = ThisDrawing.ModelSpace.AddLine(P13, P14)
Set objLine = ThisDrawing.ModelSpace.AddLine(P14, P18)
Set objLine = ThisDrawing.ModelSpace.AddLine(P18, P17)
Set objLine = ThisDrawing.ModelSpace.AddLine(P17, P13)

```

'Draw the grid

```

If Square = "True" Then
Set objLine = ThisDrawing.ModelSpace.AddLine(P22, P23)
Set objLine = ThisDrawing.ModelSpace.AddLine(P23, P25)
Set objLine = ThisDrawing.ModelSpace.AddLine(P25, P24)
Set objLine = ThisDrawing.ModelSpace.AddLine(P24, P22)
End If

```

```

If Round = "True" Then
Set objCircle = ThisDrawing.ModelSpace.AddCircle(P26, 6)
End If

```

```

If HalfMoon = "True" Then

```