

The power of the dimensions on CALDsoft7.



CALDsoft7 has basically six types of dimensions and this makes it possible for the user to use them to better dimension the unfolds by creating new dimensions or editing/removing the pre-defined dimensions.

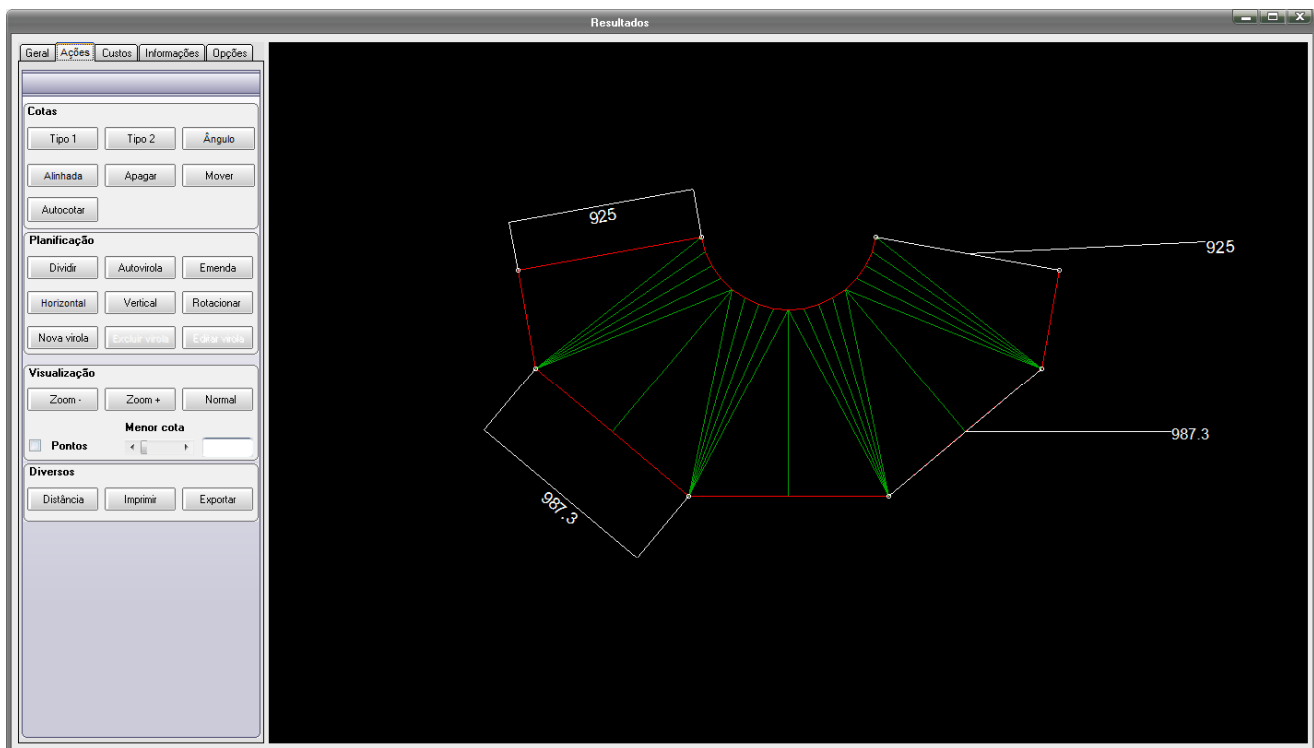
In the creation of new dimensions, the user can select the most convenient type for each case among the following styles of dimensions:

- Type 1 and Type 2;
- Aligned;
- Horizontal and Vertical Auto Dimensions;
- Radial Auto Dimensions;
- Distances and Coordinates between points;
- Angle.

It is unnecessary for the user who has the CNC system to use dimensions because this system can read .dwg and .dxf files.

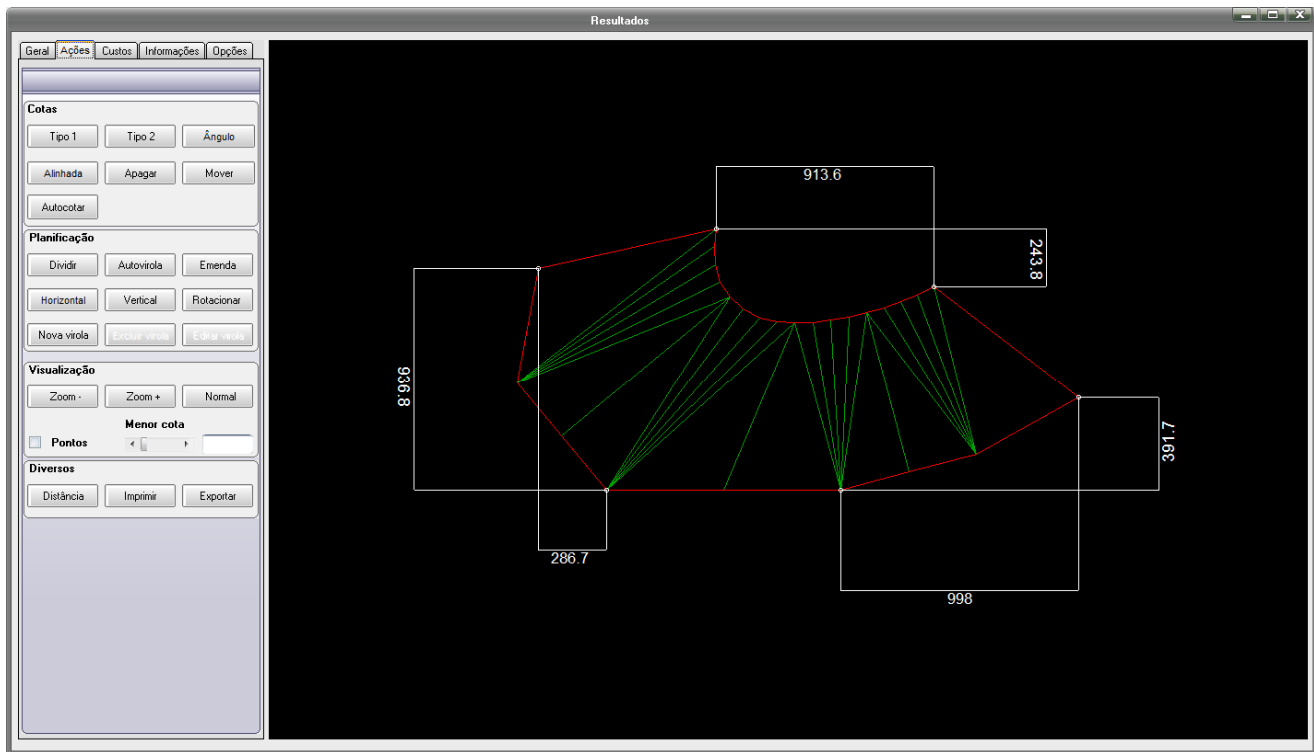
Type 1 and Type 2:

Type 1 and 2 dimensions allow the user to dimension the distance between two points where Type1 dimension is a traditional dimension and Type2 dimension creates a support line of the dimension that will extend up to the place where the user wants to show the value:



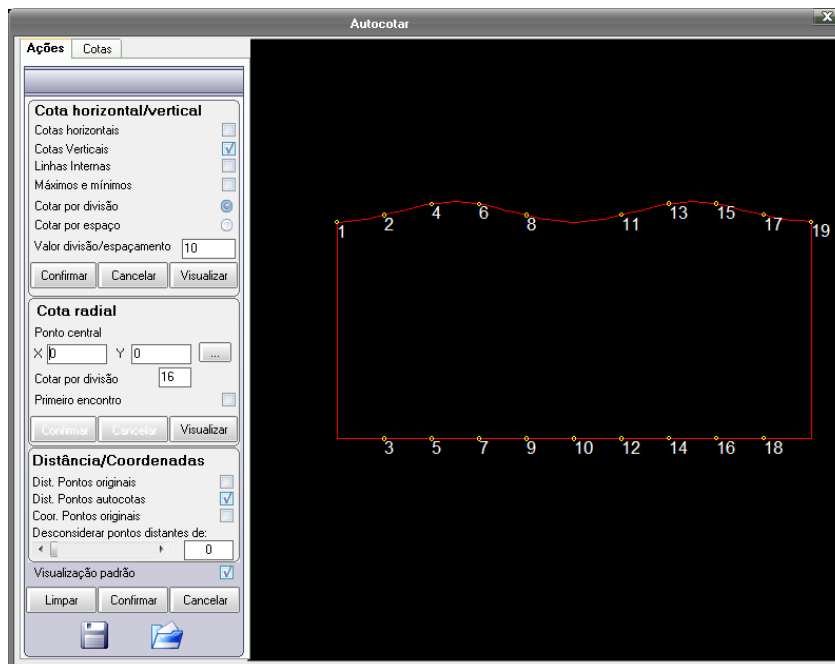
Aligned Dimension:

The aligned dimensions allow to measure the distance between two points in an aligned way with the vertical or horizontal axis. For this it is necessary to put the mouse on the wanted direction to position the dimension. The vertical or horizontal command can be used to better position the unfold before using the aligned dimensions.

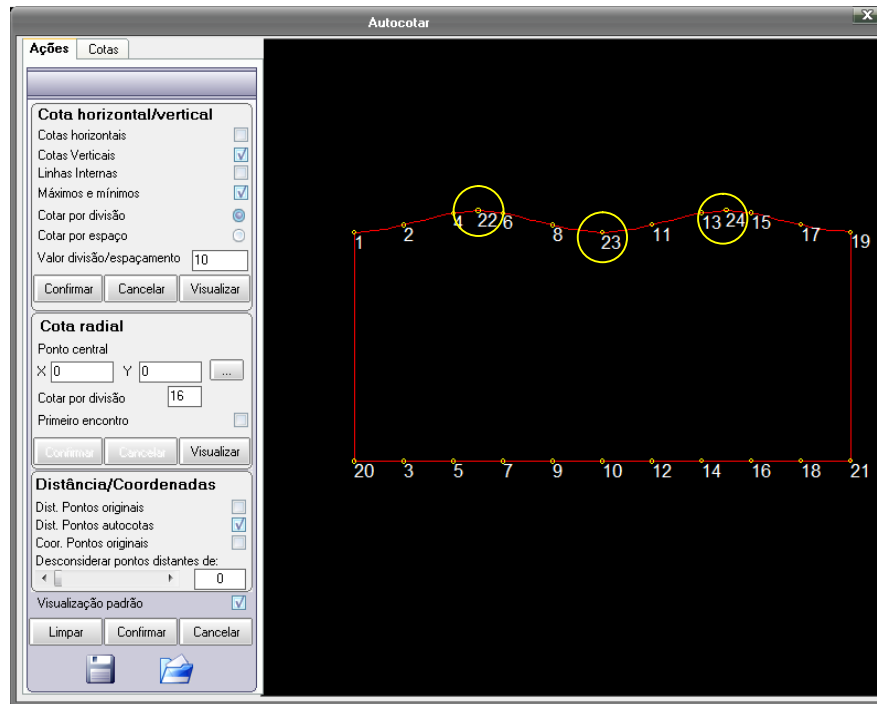


Vertical and Horizontal Auto Dimension :

In the vertical Auto Dimension option it is possible to insert points that cross the imaginary vertical lines on this direction. For this, just determine the wanted division or gap value in mm between the points. In the same way, the quantity of wanted points is determined in the horizontal direction.

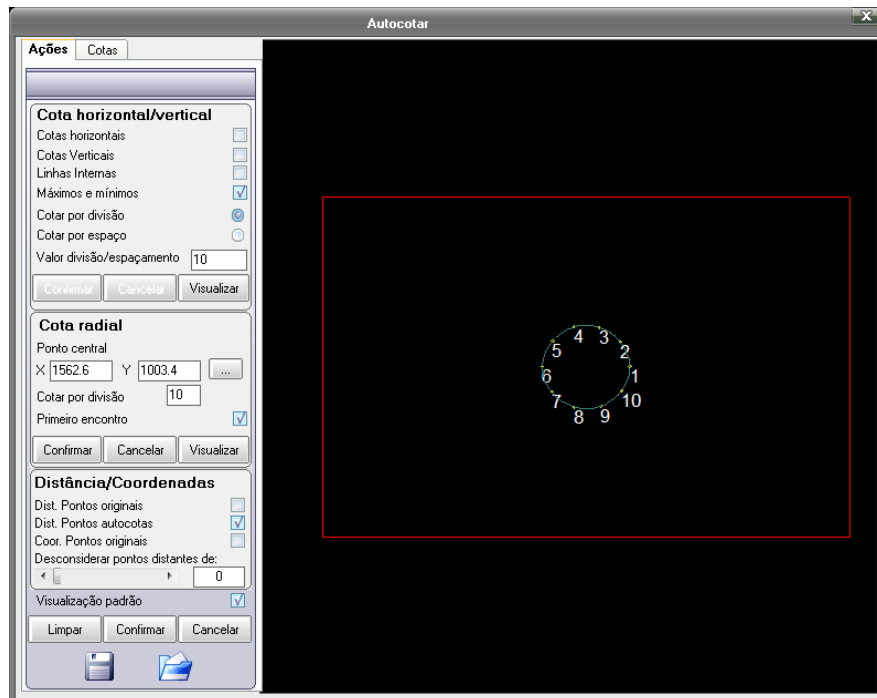


It's also possible to enable the option "maximum and minimum". This way, additional points will be included on the edges of the part. In the example below, points 22 and 24 were added because they are maximum points and point 23 was added because it is a minimum point.

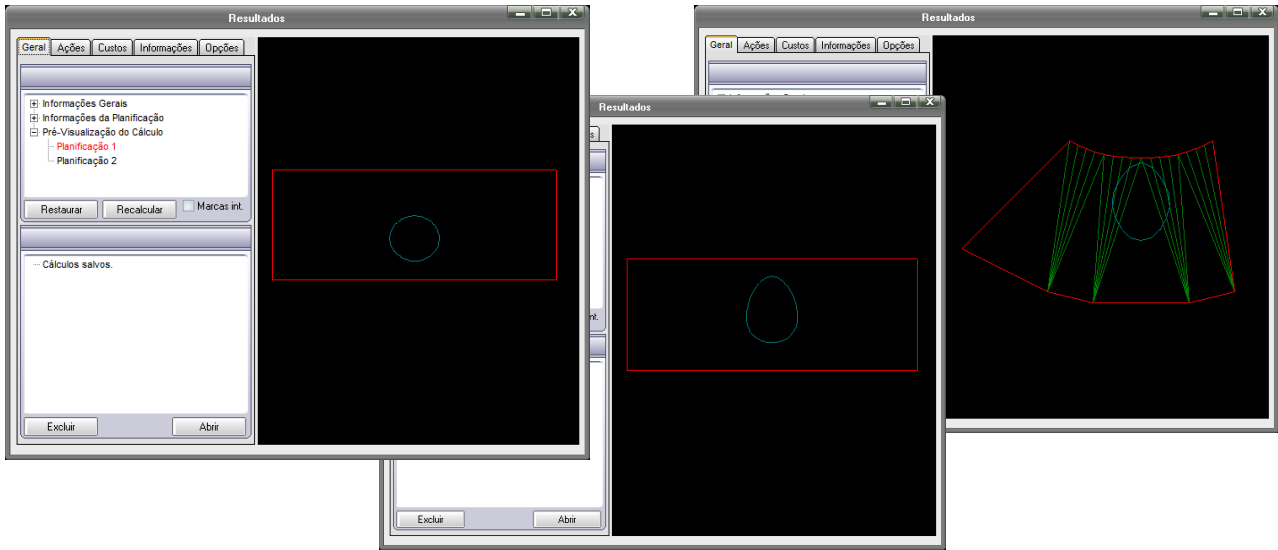


Radial Auto Dimension:

The Radial Auto Dimension is indicated to dimension closed borders of intersections such as in the example below. For this, just select a point approximately in the middle of this closed border. From this point on new points will be created in radial way allowing the reference of this closed border.

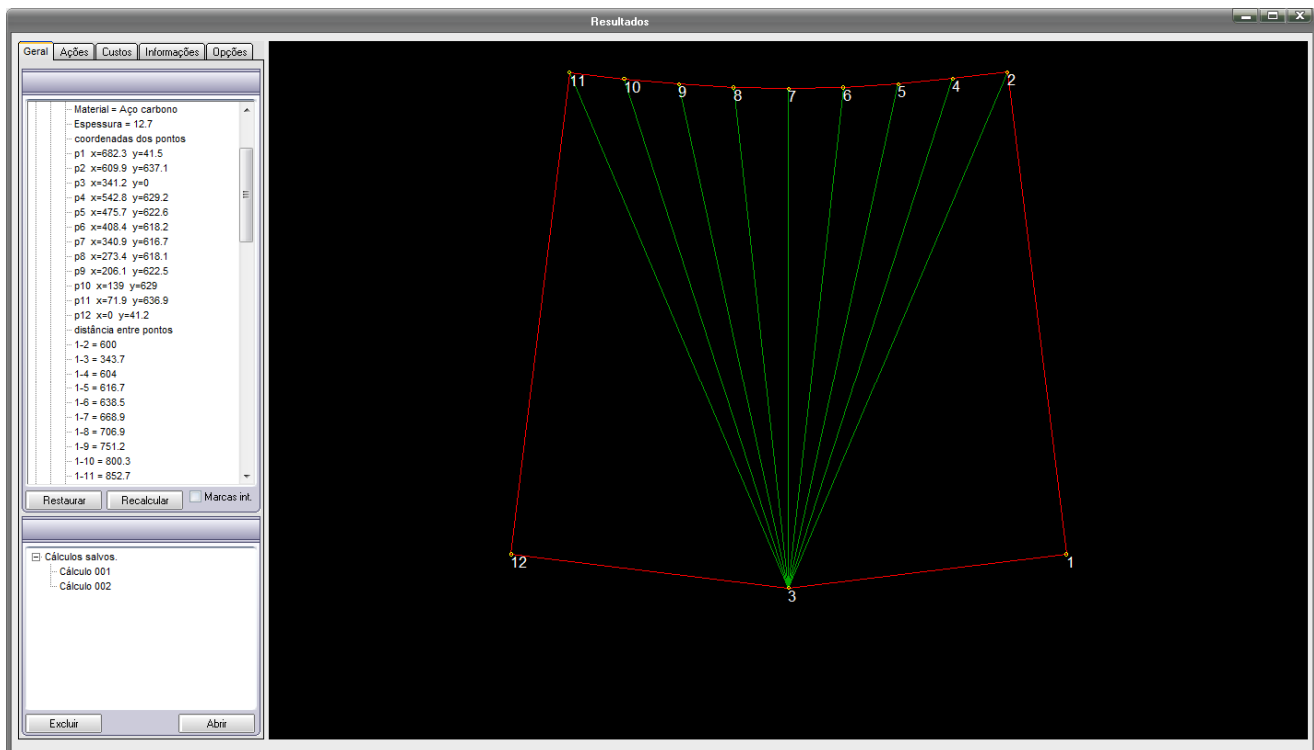


Other typical examples of the use of Radial Auto Dimension are the unfolds below:

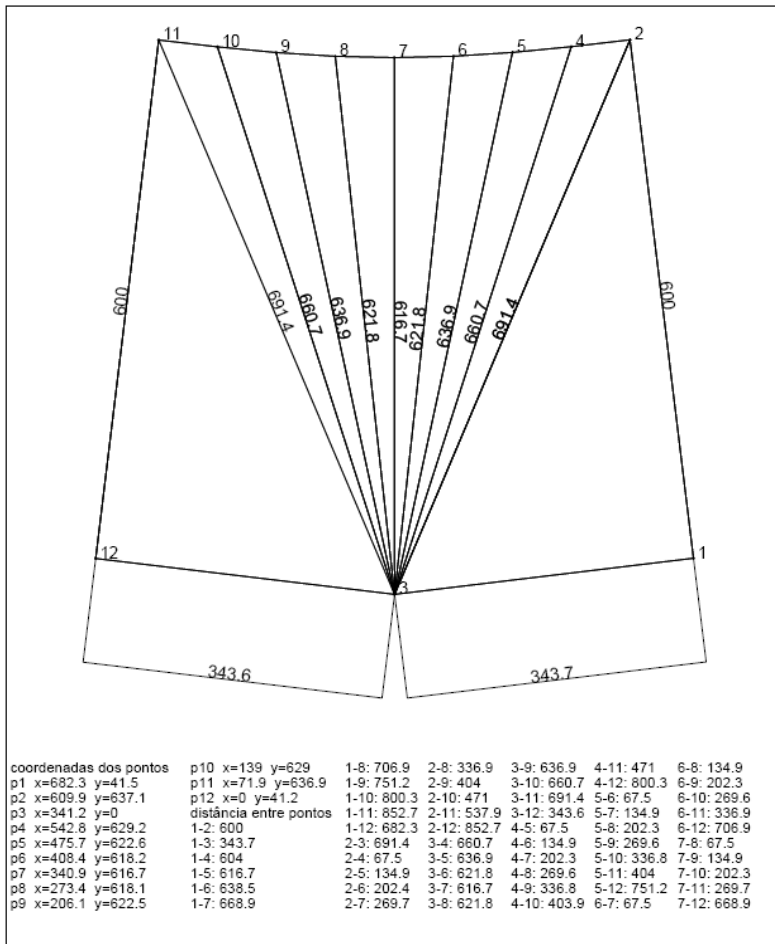


Distances and Coordinates among points:

The X and Y coordinates and the distance between the points that are being visualized on the Auto dimension screen are obtained when this option is abled. It's possible to select the original Points or points generated by the Auto dimension. The distances and coordinates of the points will be determined by clicking on confirm on the tab General of the unfold.

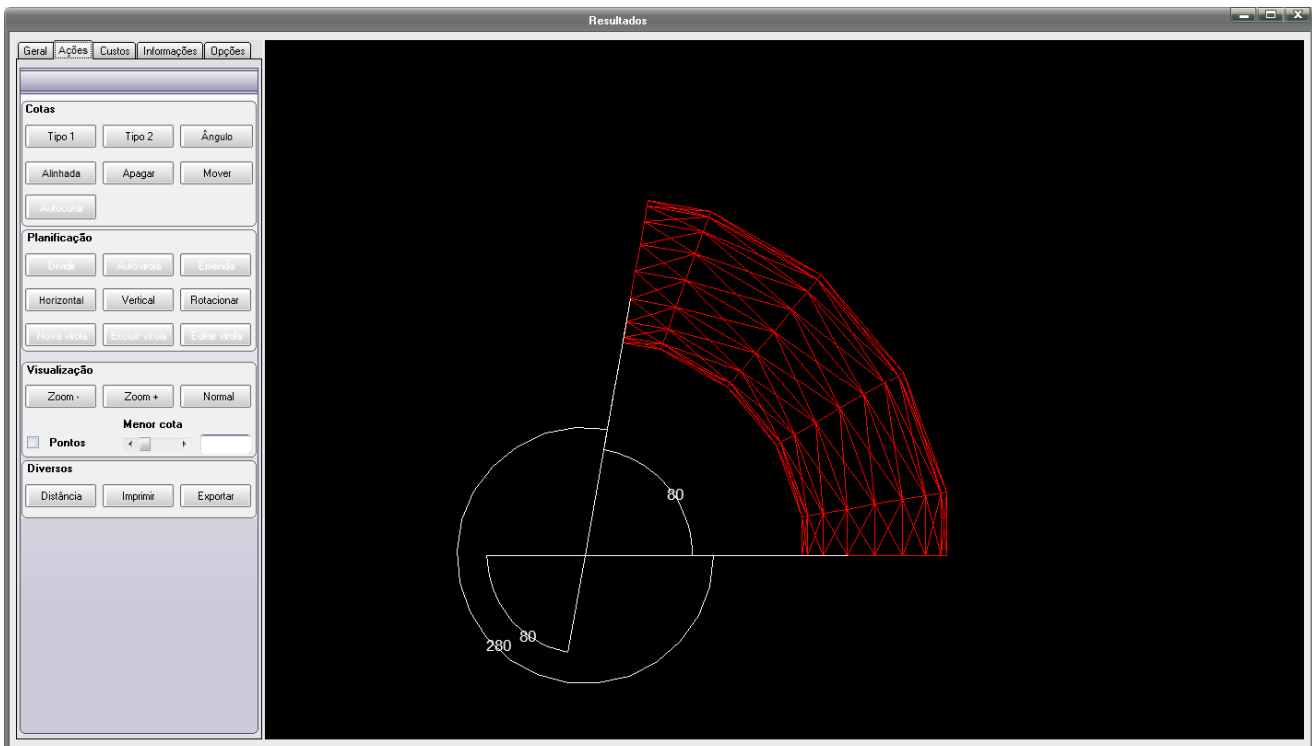


The distances between points and their X,Y coordinates are visualized on the printing format:



Angle:

The angle can also be determined by CALDsoft7 in three different ways of visualization such as in the example below:



3D Dimensions:

All the dimensions can be used on the 3D views (xy, xz). Type1, Type2, Aligned and Angled dimensions can also be used on the 3D views as seen in the example above. The resource selection tool can be used on the 3D view details.

