

MDIM.LSP – Create multiple continuous dimensions

Command = MDIM or MD

Multiple DIMensioning can now be done with one single dimensioning command – MDIM.

MDIM will draw all your dimensions along one side of your plan with your only input being the location of the dimension line and the cutting edge to select all the filtered intersecting lines.

The entities to be dimensioned are filtered in two ways. Firstly LINES and POLYLINES are selected by MDIM. This means that no arcs, circles, solids, xrefs, text or blocks etc can be dimensioned with MDIM. The second filter is set by you, the user and is done by telling MDIM which layers you would like to be dimensioned. Thus the layers that MDIM reads as intersecting the cutting edge can be filtered to suit your office layering standards. For example: Your office might draw all your walls on layers prefixed with “WW”. If this is the case you can tell MDIM to dimension all lines which are on any layer matching “WW*” like WW-BLOCK, WW-BRICK and WW-STUD. Additionally if the layers do not match any common grouping MDIM allows you to type in the full name of the layer.eg “JOINERY” Other layers can also be included. For Example the layer “CONCRETE”.

Before running MDIM make sure that firstly your current layer is your preferred dimensioning layer and secondly that your dimensioning variables or dimension style is set up to your standard, because MDIM uses the current settings for layers and dimensioning.

Command: MDIM

Enter the MDIM command or select it from the toolbar or MADCAD pull down menu

Layers/Draw cutting edge <From point>: L

Enter “L” to set up the layer control. This is something like you will see..

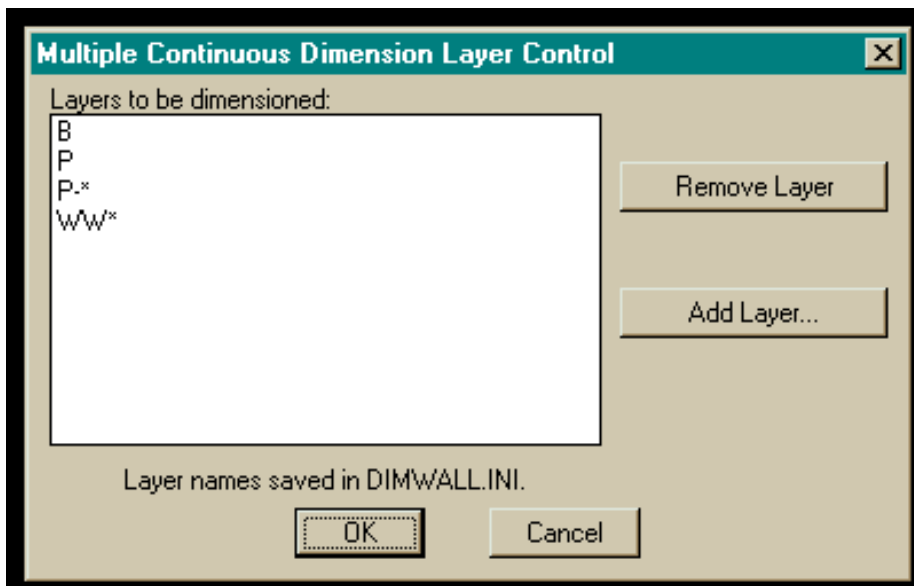


Figure 1

Hit the “Add Layer” button...

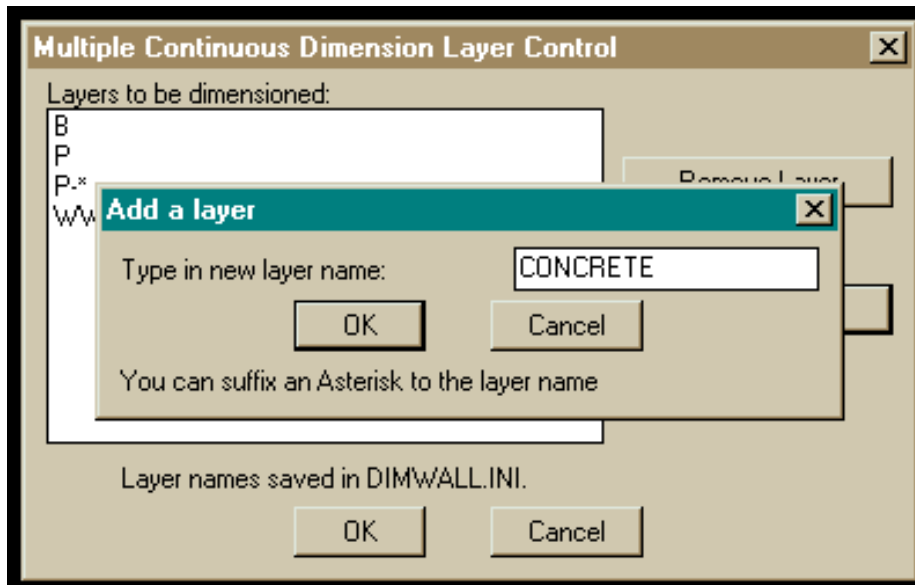


Figure 2

Cutting edge must be ORTHOGANAL.

CUTTING EDGE From point:

To point:

Select location of dimension line:

Now type in the layer that you would like to dimension in the "Type a new layer name:" box (Figure 14) and hit "OK". Hit the "Add Layer" button again if you want to enter more layers.

The lisp reminds you to make sure that ORTHO remains on.

Draw a cutting edge by picking the first point

Pick the end point of our cutting edge

Pick a point to tell MDIM where the dimension line will go