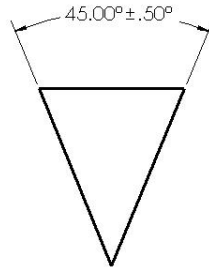


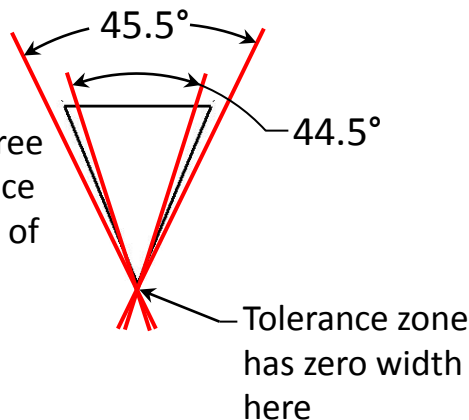


# Toleranced Angles are Not Well Defined

If this is specified:



Then since there is no designation of what is controlled and what is reference, the only tolerance zone depiction should look like this (though no standard fully defines a tolerance zone for toleranced angles, so this could be debatable):



This 2D tolerance zone is free to translate and rotate, since no constraint to any frame of reference exists.

The only way the tolerance zone is could be applied in 3D is if this edge were perfectly straight.

Note: When draft angles are directly toleranced there's a bigger problem... The draft angle should generally be controlled relative to the pull direction of the mold component & that pull direction is not measurable on the part... Profile of a Surface is our friend if anything is to be measured!

A tolerance zone that tapers to a width of zero cannot create a useful 3D tolerance zone (true for toleranced radius or angle specs) .