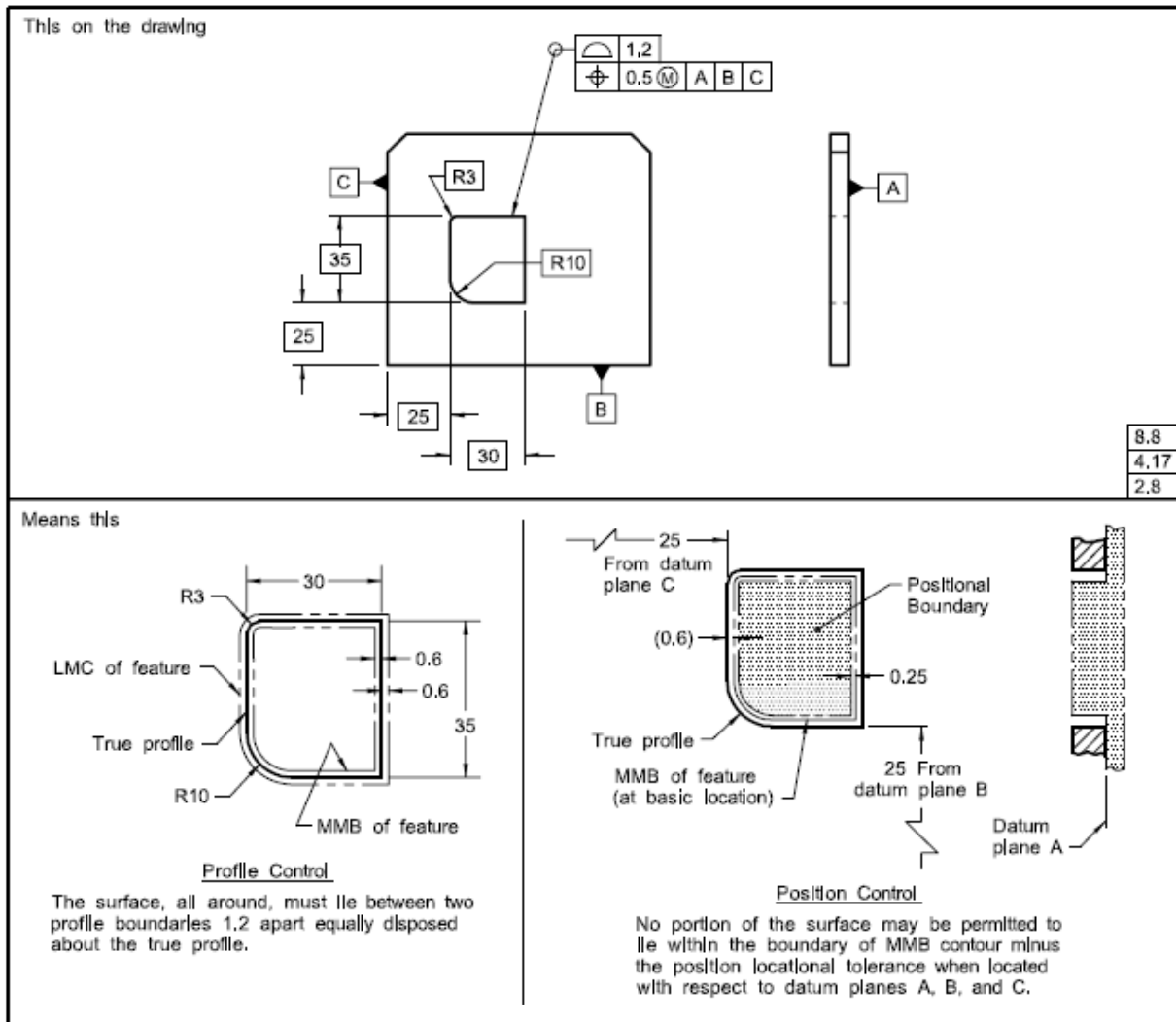


Fig. 8-24 MMC Principle Used With Profile Controls



lie outside the boundary. For an external feature, the boundary equals the MMC size of the profile plus the positional tolerance, and the entire feature surface must lie within the boundary. The term **BOUNDARY** is optional and may be placed beneath the positional feature control frame. Figure 8-25 illustrates a surface that has a profile tolerance refined by a parallelism tolerance. The surface must not only be within the profile tolerance, but each straight line element of the surface must also be parallel to the datum within the tolerance specified. Figure 8-26

illustrates a surface that has a profile tolerance refined by a runout tolerance. The entire surface must be within the profile tolerance, and the circular elements must be within the specified runout tolerance. Figure 8-27 illustrates a part with a profile of a line tolerance where size is controlled by a separate tolerance. Line elements of the surface along the profile must lie within the profile tolerance zone and within a size limiting zone. In this application, the datum references only orient the profile of a line tolerance.