

2-18 Dado

The riveted aluminum sheet metal assembly (Dado) in figure 10 was made up of at least four separate components, a wide web (0.032 inch thick), a narrow flat strip (0.022 inch thick), a 180 degree flange (0.028 inch thick) and a 90 degree flange (0.022 inch thick). Overall, the assembly was 16-3/4 inch long by 6-1/2 inch wide. All four edges of the web appeared to be manufacturer's cuts with 3/32 inch diameter rivet holes and remnants of rivets nearby. The 90 degree flange, arrowed "90" in figure 10A, was attached to one long edge of the web by rivets spaced 1-3/4 inch apart. The 180 degree flange and the flat strip were riveted to opposite sides of the other long edge of the web.

Corrosion of the assembly components was heavy with the areas of the 180 degree flange and flat strip showing perforations. The space between the flange, web and strip was filled with corrosion products.

A long rivet tail, arrow "F" in figure 10A, was located in the area of severe corrosion. During optical examination, small remnants of a bluish woven fabric were found around the rivet tail as shown in the figure 10A insert.

Metallurgical sections were removed from the web, (section M1, with a rivet piece), the 90 degree flange (section M2), the 180 degree flange (section M3), and the flat strip flange (section M4).