

Abstract of the Description

The technique of making base boards on high-speed rail equipment cabinet by composite material

This invention relates to a kind of technique in producing base boards on equipment cabinet of high-speed rail by composite material, and the composite material includes: aramid honeycomb, PET foam, 3K carbon fiber flame retardant prepreg, unidirectional carbon fiber flame retardant prepreg, glass fiber flame retardant prepreg, aramid flame retardant prepreg, 300gsm of single medium temperature curing blue epoxy adhesive; the above technique includes the following steps : Produce the main board, handle and 2 slide blocks of base board; In installation, handle of base board is stuck in one side of main board, and another two slide blocks of base board are stuck into the two sides which face with each other among the rest three sides. By lamination design, the invention makes the base board obtains very high strength at all angles, with aramid design gaining high impact resistance; hot pressing process in this invention requires just low contents of resin which dramatically reduces the weight of the base board. In this invention, product is designed to be elegant and nice apperance with strong performance.

Compared with product in aluminum alloy, base board in composites material has a weight loss of 35% $\sim$ 40%.

[Figure 2]