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大型翼面玻璃钢蜂窝夹层结构设计

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DESIGN OF A HONEYCOMB SANDWICH STRUCTURE WITH GLASS FIBER REINFORCED PLASTICS FOR A LARGE SCALE WING PANEL

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摘要

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摘要 全面地介绍了AD系列飞机,特别是AD200飞机的玻璃钢蜂窝夹层结构的设计思想和具体措施。以试验数据为依据,推荐采用胶钉和齿钉的紧固连接方式,解决了金属接头与蜂窝夹层结构的连接问题,并在金属件与蜂窝之间采用层板过渡办法,解决了金属件与蜂窝直接连接的困难。此外,提出一套可靠的抗破损安全设计的措施。

关键词: 蜂窝结构 玻璃纤维 故障-安全系统

Abstract: The structural designs of AD-series aircraft are described in detail, especially for AD-200 aircraft. Based on testing data a connective method with glue nails and toothed nails is recommended, which can solve the problem of connection between a metal joint and a honey-comb sandwich structure. The difficulty of direct connection between a metal structure and a honeycomb sandwich structure is solved by using a plywood transition structure. In addition, a set of reliable measure of fail-safe designs are proposed.

Keywords: honeycomb structures glass fibers fail-safe system

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