



Divinycell brings versatility to mobile satellite communications

When it comes to satellite communications, accuracy and reliability is a must, and that means using an antenna manufactured with the best materials and processes available. AvL Technologies, the world leader in mobile satellite antenna ground terminals, produces innovative and reproducible products for emerging markets. Known for state-of-the-art manufacturing capabilities, cutting-edge designs and technical superiority, AvL Technologies has chosen Diab as its primary supplier of closed cell foam products for SatCom applications.

Satellite superiority for every need

An industry leader in design expertise as well as production volume, AvL Technologies manufactures a wide assortment of satellite antennas for fixed, vehicle-mount and flyaway earth stations, with sizes ranging from 60cm to 5.0 meters. Their products have been put to use in a number of different markets, including military and defense, broadcast and media, as well as civil service and disaster relief. With so many different applications, AvL relies on high quality materials that are able to meet vastly different needs.

Reshaping the manufacturing process

Working closely with Diab's experts, AvL Technologies selected *Divinycell HP80* as the primary material for the structural core of their mobile antenna reflectors. *Divinycell HP80* provides high temperature resistance, enabling the material to be thermoformed. This

capability is important for shaping an earth station reflector and guaranteeing the required high surface accuracy of the final product.

Switching to Divinycell as a core material has also helped expand manufacturing processes for a wider variety of SatCom applications. *Divinycell HP* was developed to meet demands in both high temperature systems and low temperature systems, allowing AvL Technologies to use a variety of processes in the fabrication of antenna construction. AvL Technologies takes pride in offering customized, high-performance solutions for unique customer requirements, and Divinycell ensures AvL Technologies has broader processing capabilities to select the right process for each job.

Ready for any terrain

The versatility of Diab's materials extends far beyond the manufacturing process. Given the variety of applications for AvL Technologies' products, they can experience conditions ranging from sub-zero temperatures to the scorching heat of desert locations. *Divinycell HP80's* thermal properties guarantee reliability and accuracy no matter the climate. The high strength and stiffness-to-weight ratio of Diab's material also enables true portability for the mobile satellite antennas. For military personnel using backpacks to transport an antenna through dense tropical forests or up snow-capped mountains, the reduction in weight makes a serious difference.

Read more about AvL Technologies: www.avltech.com