

ACHIEVEMENTS & QUALIFICATIONS



ZIP-EDGE

Zip-Edge is an innovative concept developed by APCO Technologies. As its name implies, it allows simple and fast assembly of two panels together through cold-bonded edge inserts. It also can be used to create hinges, providing internal structure access and flexibility.



SOLAR PANELS SUBSTRATES

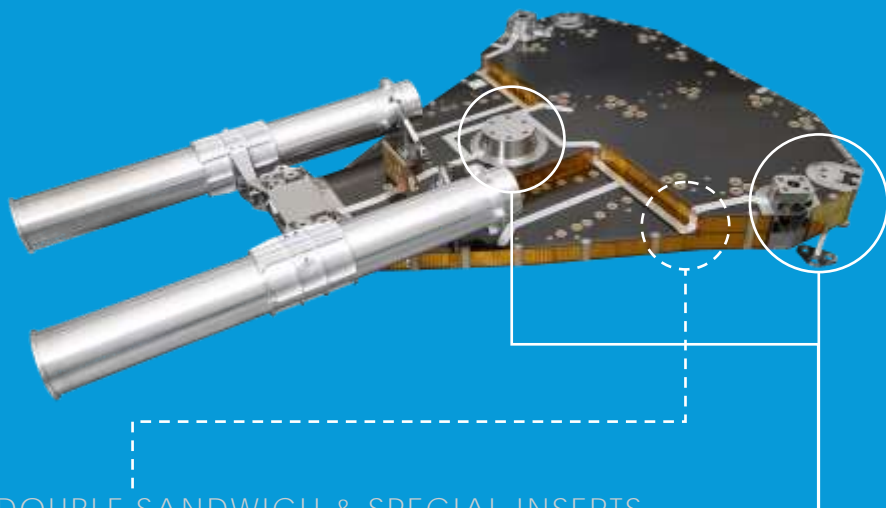
Solar panels are made of CFRP (M55J/RS3) / aluminum sandwich panels equipped with Solar Cell Assemblies.

To ensure electrical insulation between the cells and the conductive carbon substrate a top layer of polyamide is accommodated.

SAT AIS is the project that gave us the opportunity to develop solar panels substrates technology.



Juno solar panels, source: NASA/JPL - Caltech//KSC



DOUBLE SANDWICH & SPECIAL INSERTS

On EartCARE ATLID Stable Structure Assembly (SSA), APCO Technologies has been in charge of the full design, analysis, manufacturing supervision, integration and testing of the structure and thermal sub-system, used to support the optical, electronic and thermal hardware, and to ensure its stability and its uncoupling of the distortions of the ATLID I/F panel.

There are two major technical achievements on this project, the "double-deck" panel and the design and bonding of special titanium inserts (see p20).

