

**Sandwich structure fasteners**, also known as potted-in inserts, are panel fastener that are engineered to be mechanically installed in honeycomb and sandwich panel structures. They are designed for aircraft interior main structures and are also ideal for use in the fabrication of aircraft interior secondary structures, such as: floor boards, wall panels, galleys, lavatories, stow bins, and over-head compartments.

Fastener Dimensions carries all of the available designs and configurations. **Insert types** include threaded or non-threaded, through or blind, locking or non-locking styles.

Our easily-installed **floating inserts** feature a unique, self-contained, floating nut located in the insert that compensates for screw misalignment.

**Spacers** are designed to be installed in structural applications and are often used in aircraft floors. Two different systems of spacers can be had and are available as either a one-piece sleeve or a two piece system with a plug and a sleeve. As a way to increase shear load capacity, spacers are frequently installed with epoxy under the flange.

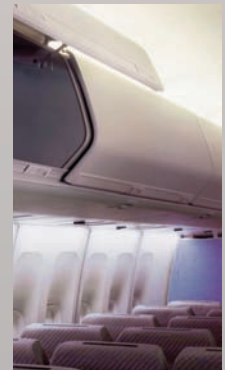


Sandwich structure panel fasteners



Panel fasteners are used across the entire interior of both cargo and passenger aircrafts. They can be found in all interior panels, overhead storage bins, floor boards, and lavatories.

<b>Sandwich Inserts</b>	<b>Through Clearance</b>			<b>Floating Nut Element</b>
	<b>Non-Threaded</b>	<b>Non-Threaded</b>	<b>Threaded</b>	
<b>Features and Benefits</b>				
<b>Installation: Mechanical or Potted</b>	<b>Mechanical</b>	<b>Potted</b>	<b>Potted</b>	<b>Potted</b>
<b>Inserts for Metallic Face Skins</b>				
<b>Adjustable Spacers for all Panels</b>				
<b>Inserts for all Panels</b>				
<b>Inserts for Space and Satellite Panels</b>				



## Advanced Composite Panel Fasteners

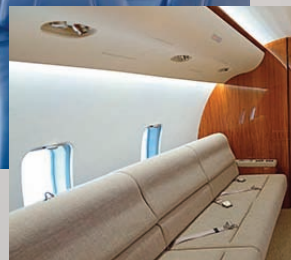
For fiber-reinforced panels, Fastener Dimensions Inc. stocks panel fasteners engineered to mount to advanced composite structures. Designed to withstand localized concentrated loading, they offer galvanic compatibility, resist hold-edge crushing, vibrations, and water absorption, and are known to exhibit fewer issues with interference fit.



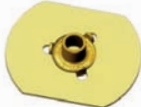
*Types we offer:* bonded-on, bonded mechanical and nonmetallic potted-in.

**Bonded-on types** include studs and insert plates supplied with pre-attached thermoplastic adhesive. The adhesive is melted by applying heat to the fastener.

**Bonded mechanical types** utilize a combination of adhesive, as well as, mechanical means for retention in the structure.

**Nonmetallic inserts and spacers** (sleeves and plugs) are primarily designed to be mounted to sandwich structures. They are made mostly of polyetherimide, a very lightweight material, which is non-reactive with current composites.



<b>Fasteners for Advanced Composites</b>		Adhesive Bonded/ Mechanical	Adhesive Bonded/ Mechanical	Thermal Bonded
<b>Features and Benefits</b>				
Insert	Through Threaded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Countersunk Clearance Hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Floating Nut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Non-Floating Nut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stud	Lightweight, Self-Locking, for Thin Panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Plug/Sleeve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacer	Floor Panel Plug and Sleeve Bonded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Flared	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grommet	Flush Mount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Flared, Thermal Bond	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>