

Elastomeric Panel Isolators

ITT Enidine is your partner for standard and custom elastomeric isolation systems for aircraft interior noise control. Successful isolation systems account for the properties for the aircraft systems to which they attach. We have a proven engineering approach for high frequency noise attenuation, and the engineers, materials, and test capabilities that allow us to develop and qualify your system.

As experts in the field of structure borne noise for aircraft interiors, ITT Enidine provides the following services:

Prediction of In-situ Attenuation of Isolator –
Classical mass-spring-damper approach cannot be used to predict high frequency noise attenuation. ITT Enidine uses the four pole method to capture the dynamic performance of the isolator, and the attaching structure.

Elastomeric material development –
Proprietary compounds are formulated based on the requirement for the isolator. Desired noise attenuation, temperature extremes, loads, and fatigue life are important criteria when selecting and developing compounds for aircraft interiors.

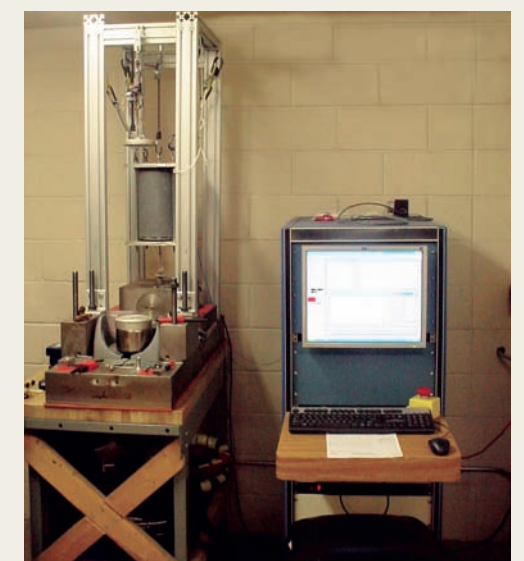
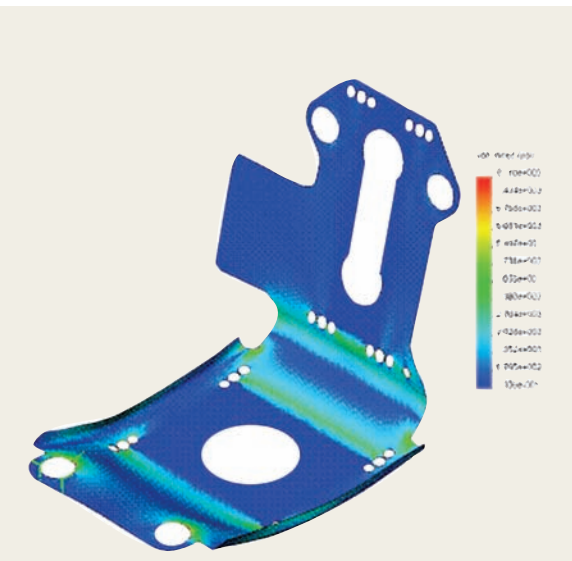
Installation Requirements –
Installation requirements are extremely important. These isolators provide mechanical torque resistance to ensure that the elastomer does not tear during installation. ITT Enidine has also developed a number of isolators mated with plastic brackets to provide low weight cost effective customer solutions

Fatigue life –
ITT Enidine understands the requirements to provide an isolation system with long life. Fatigue life for elastomeric isolators is directly related to frequency and amplitude. ITT Enidine has the expertise to design and test your isolation systems to ensure longevity.

Temperature Extremes –
The dynamic performance of the isolator is very dependent on the temperature at which it performs. ITT Enidine designs and tests the isolator for these specific temperatures.

Static and Ultimate Loads –
ITT Enidine’s isolators are designed to provide optimal performance at the specified static loads. The isolators also incorporate a fail safe mechanism to ensure the ability of the isolator to resist ultimate loads.

Custom solutions –
ITT Enidine has a dedicated group of engineers, supported by the required analytical, design, manufacturing, and testing resources focused on the design of aircraft interior isolators. We offer traditional metallic isolators, and isolators using plastic materials. As a leader in this field, ITT Enidine can also partner with you on the specification development for these isolators.



Aircraft Interior Noise Isolation



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www.enidine-aviation.com/Global_Locations.html



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Product Overview

The desire to control aircraft interior noise for enhanced passenger/crew comfort has presented significant challenges for aircraft designers. Industry standard mounts often fail to take advantage of improved features and materials to optimize noise attenuation. Noise testing based on the 4-Pole Test method demonstrates that significant gains in noise isolation are available without sacrificing size, weight or load capacity.

Product Selection

ITT Enidine Incorporated now offers a line of isolators to provide optimized noise/vibration attenuation for a variety of aircraft interior applications. These isolators provide significantly better noise attenuation compared to industry "standard" mounts.

Designed to accommodate a range of mounting configurations and load conditions, ITT Enidine Panel Isolators can be used for sidewall and ceiling panels, as well as for mounting IFE and other equipment.

Typical Applications

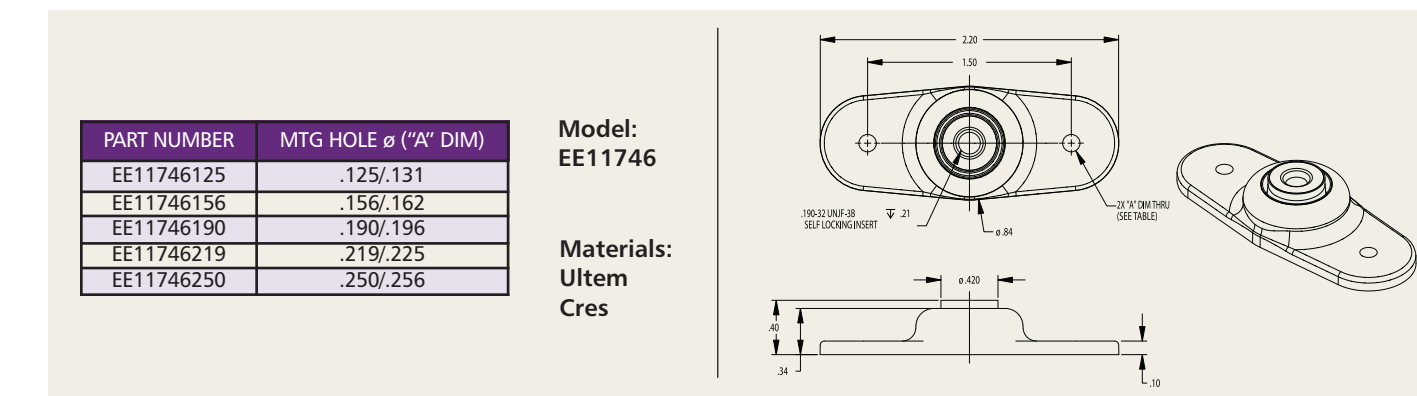
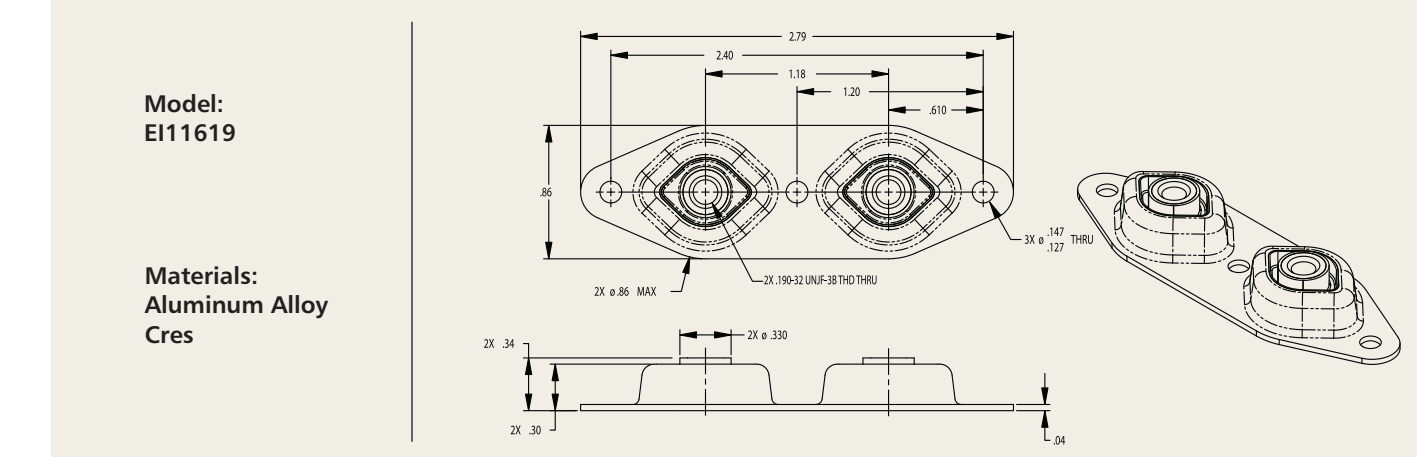
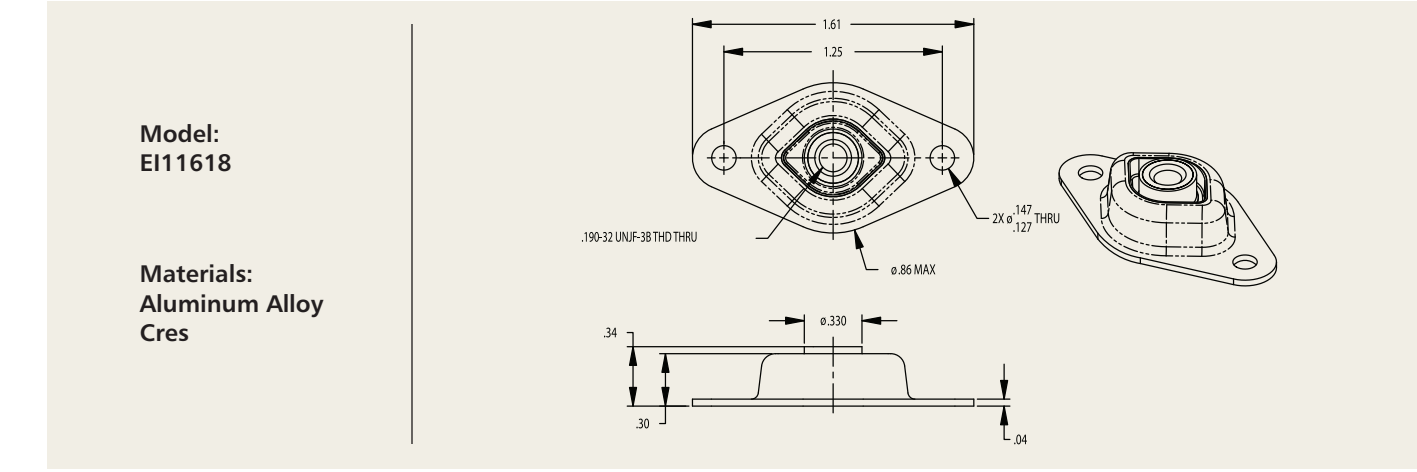
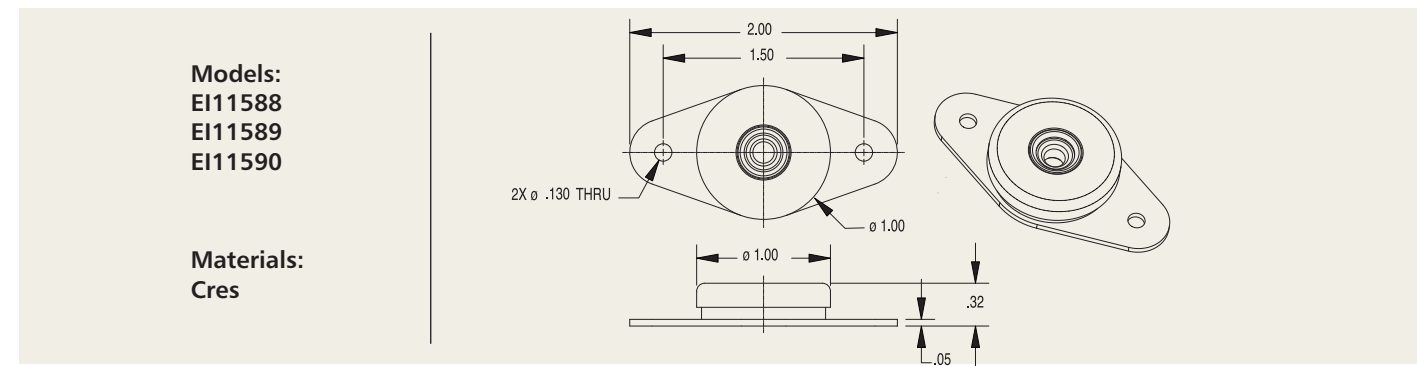
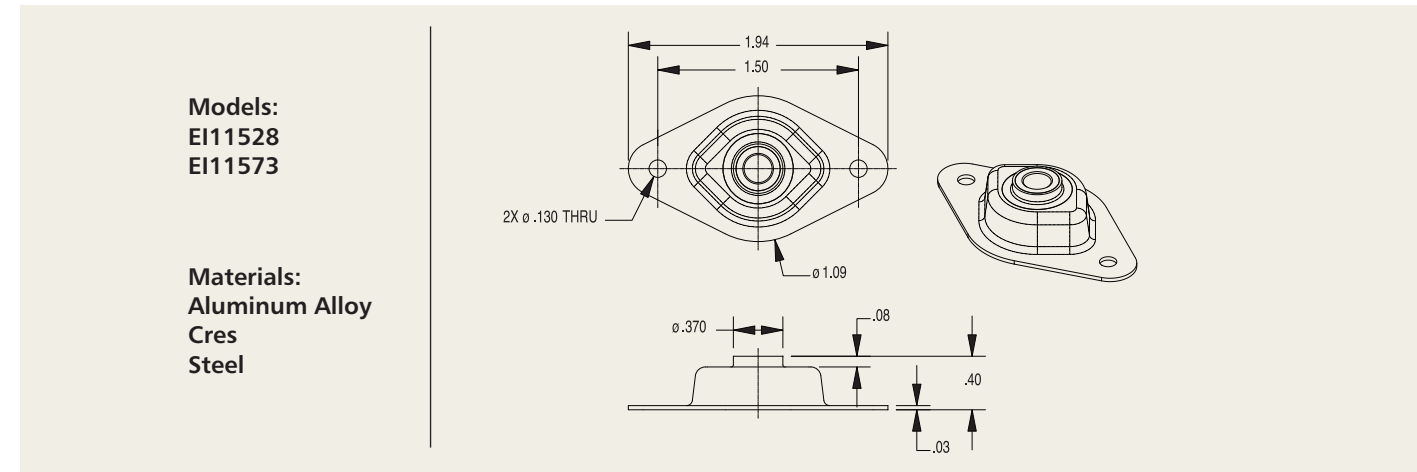
- Sidewall Panels
- Dado Panels
- Ceiling Panels
- Interior Trim / Door Panels

Features and Benefits

- Exceptional Noise Attenuation Performance
- Fail Safe Low-Profile Design
- Improved Composite Frame Noise Attenuation Performance
- Interchangeable with Existing Isolators
- Multiple Elastomer Stiffnesses Available in the Same Envelope Size



Technical Data



Custom Solutions

ITT Enidine offers a full range of custom solutions, including both traditional metal and plastic housings. Please contact ITT Enidine to discuss these solutions.



Product	Part Number	Thru Hole	Rated Load (lbs.)	Ultimate Load (lbs.)	Product	Part Number	Thru Hole	Rated Load (lbs.)	Ultimate Load (lbs.)
	EI11618	#10-32 UNJF-3B	4	100		EI11573	#10-32 UNJF-3B Self Locking	9	200
	EI11619	#10-32 UNJF-3B	8	200		EI11588	#10-32 UNJF-3B Self Locking	25	800
	EE11746	#10-32 UNJF-3B Self Locking	8	100		EI11589	#10-32 UNJF-3B Self Locking	75	800
	EI11528	.290 Thru	9	200		EI11590	#10-32 UNJF-3B Self Locking	150	800