



OmnAvia™
INTERIORS



BEHIND THE SEAMS





*Relax,
Enjoy the ride.*
-omnivia

CONTENTS

Welcome to Behind the Seams

I. Comfort & Cushioning Products

Comfort & Cushioning Introduction.....	I.1
Anatomy Seating & Sew Foams.....	I.2
OmnaFoam™ Products.....	I.3
OmnaFoam™ Platinum Foam.....	I.4
OmnaFoam™ Gold Foam.....	I.4
OmnaFoam™ Platinum Foam Specs.....	I.5
OmnaFoam™ Gold Foam Specs.....	I.5
OmnaFoam™ Carpet Padding & Panel Covering.....	I.6
OmnaFoam™ Heat Release & Compliant Foams.....	I.6
OmnaFoam™ Carpet Padding & Panel Covering Specs.....	I.7
OmnaFoam™ Heat Release & Compliant Foams Specs.....	I.7
OmnaFoam™ Whisper Foams.....	I.8
OmnaFoam™ Whisper Foam Specs.....	I.8
Comfort & Cushioning Samples.....	I.11

II. Insulation Solutions

Insulation Solution Introduction.....	II.1
OmnAvia™ Comfort Panel.....	II.2
OmnAvia™ Comfort Panel Specs.....	II.3
OmnAvia™ Comfort Panel Samples.....	II.5

III. Flame Resistant Fabrics

Fire Resistant Fabrics Introduction.....	III.1
OmnAvia™ Flame-Resistant & Fire-block Fabric.....	III.2
OmnAvia™ Flame-Resistant & Fire-block Fabric Specs.....	III.3
OmnAvia™ Flame-Resistant Samples.....	III.5

IV. Interior Finishing

Interior Finishing Introduction.....	IV.1
Leather & Sheepskin.....	IV.2
Carpeting, Step Tread & Nontextile Flooring.....	IV.2
Headliner & Panel Cover.....	IV.3
Upholstery & Panel Fabrics.....	IV.3
Vinyl Upholstery for Aircraft - Auto - Marine.....	IV.3
Carpet Kit Production.....	IV.4
Cabin Cleaning Supplies.....	IV.4





**INTERIOR ENVY
NOW CLEARED FOR TAKEOFF**



EXPERTISE IN TRANSPORTATION INTERIORS

EST. 2012

The staff of OmnAvia™ Interiors welcomes you to utilize our catalog of cabin comfort and safety materials, *“Behind the Seams.”* We hope you will come to rely on it - and us - as a resource for enabling you to create interior environments that are safe, quiet, and comfortable, as well as aesthetically pleasing for your clients.

OmnAvia™ Interiors, LLC, is a distributor of interior products and services to the business, private, VIP, and general aviation industry, marine interior market, and custom automotive interior industry. Founded in 2012, we offer materials to support refurbishments and completions for all your business and personal needs involving most private and charter transport vehicles.

We specialize in providing leather and woven fabric for upholstery, aircraft carpets, carpet kits and custom carpet design, fabrics for interior panel re-covering, curtain fabrication, and other interior decorative and functional applications. We offer a variety of price points that complement the projects of our wide range of completion and refurbishment customers, from the small aircraft operator to the VIP yacht owner.

This *“Behind the Seams”* catalog demonstrates an expanded product line, including foams for seat cushions and interior panel support, fire block fabrics, carpet padding, and heat and sound attenuation insulation. We are a single-source shop for interior materials both decorative and functional. OmnAvia™ is the supplier that has what you need when you need it.

Welcome to **OmnAvia™ Interiors’ “Behind the Seams.”**



COMFORT & CUSHIONING PRODUCTS

Your customer wants the best interior possible within budget. It needs to have the proper aesthetic, be comfortable, resilient, supportive, easy to maintain and comply with regulations. There are many intricacies to consider when selecting materials to develop any interior. OmnAvia™ makes this easy by offering a comprehensive selection of foams suitable for seat cushions, divan cushions, buddy seats, and mattresses. Every personal transport vehicle demands a professionally finished look. So, employ these foams throughout the cabin on padded panels, arm caps, and headrests and exceed their expectations.

Whether your need is supportive foundation foams, comfort foams or sewable foams with scrim or fireblocker attached, OmnAvia™ Interiors is your solution provider.

» SEAT FOAMS

Finishing the detail of the cabin, creating a smooth surface on structural panels for installing wall and ceiling coverings.

» CARPET PAD

A necessary comfort and safety feature provides underfoot cushioning, thermal insulation, a sound barrier, and a fire barrier between the cabin and the belly of the aircraft.

» PANEL FOAMS

The key to a plush cabin creating a smooth surface on structural panels for installing wall and ceiling coverings.

» SOUND DAMPENING FOAMS

Installed behind the interior panels and at critical points in the aircraft, these foams prevent and absorb vibration making the cabin quiet and comfortable.

ANATOMY PASSENGER SEATING FOAMS

Passenger seating foams are produced in a range of densities to allow the design of the cushion to provide optimum support and comfort.

These foams are the foundation of a visually appealing and technically compliant interior, providing the best possible passenger experience where comfortable seating is the primary focus. OmnAvia™ offers options to meet the full range of aerospace technical specifications at various price points.

HEADREST CUSHIONS

Typically medium to firm support foam, offering comfort and safety to the traveler.

BACK CUSHIONS

Often a soft to medium support foam laminated into the dress cover provides luxury over a firmer foundational foam.

ARMREST CUSHIONS

Thin, firm support foams provide a buffer against the seat structure and offer a contoured surface for the decorative dress cover material

BOTTOM CUSHIONS

Firm support foam provides the foundation and protects the passenger from seat structure; medium and soft support foams provide comfort and eliminate "hot spots."



ANATOMY CUSHION & COVER

A well-designed seat cushion assembly is visually pleasing and comfortable when sitting for several hours at a time. It begins with a cushion design that combines foams of different densities to create a firm foundation and padding for long-term comfort. The selection of seat cover material and stitching pattern add the finishing touch to a well-upholstered seating product.

BACK COVER ASSEMBLY

Decorative material of the dress cover is laminated with a thin layer of soft sewable foam to provide comfort and creative design details.

BACK CUSHION & COVER ASSEMBLY

Comprised of a dress cover assembly that often encapsulates the seat back structure and a cushion that provides occupant support.

BACK CUSHION ASSEMBLY

Cushion assembly is constructed from medium-firm foams to protect the occupant from seat structure and provide comfort. It is wrapped or laminated with a fireblock fabric to provide flammability compliance.

BOTTOM CUSHION & COVER ASSEMBLY

Constructed by the assembly of a dress cover and a cushion that provides occupant support.

BOTTOM CUSHION ASSEMBLY

Base layers of the bottom cushion are firm to rigid foams; firm to medium foam provides occupant support, and soft comfort foam eliminates "hot spots" for long-term comfort. The entire construction is wrapped or laminated with a fireblock fabric to provide flammability compliance.

BOTTOM COVER ASSEMBLY

Decorative fabric or leather is laminated with a sewable foam to create a dress cover that is durable and comfortable

OMNAFOAM™ PLATINUM FOAM

Providing luxurious comfort and remarkable durability, OmnaFoam™ graphite seat foams are engineered to meet the most rigorous regulatory requirements, including vertical burn and seat oil burner testing. OmnaFoam™ Platinum foams are lightweight, durable, and inherently fire retardant.

» FOAM SHEETS

For easy purchasing and fabrication, all grades of Platinum foam sheets are available in 1/2-inch, 1-inch, and 2-inch thicknesses.

» FOAM ROLLS

Platinum foam rolls are available in 1/4" and 1/2" thicknesses, both with and without scrim. They are offered in both soft and medium firmness and can be purchased in 15 and 45 ft lengths for ease of lamination and fabrication.

» VERTICAL BURN COMPLIANT

OmnaFoam™ Platinum foam is compliant with 12-second vertical testing as defined in Chapter 1 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 25.853(a).

» OIL BURNER PERFORMANCE

OmnaFoam™ Platinum foams are the core of a compliant cushion and cover assembly. This assembly will meet the requirements of Oil burner testing defined in Chapter 7 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 25.853(c).

OMNAFOAM™ GOLD FOAM

OmnaFoam™ Gold foams are perfect for small aircraft, marine, or automotive applications. They provide comfort and durability while still meeting the certification requirements of these transportation systems.

» FOAM SHEETS

All grades of OmnaFoam™ Gold are available in 1/2-inch, 1-inch, and 2-inch thicknesses making purchasing and fabrication simple.

» FOAM ROLLS

OmnaFoam™ 1570 works in concert with the OmnaFoam™ Gold foams. This foam includes a laminated scrim and provides a sewable variation in a medium-firmness solution.

» HORIZONTAL BURN COMPLIANT

OmnaFoam™ Gold foams are compliant with 15-second Horizontal testing as defined in Chapter 3 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 23.853(a) and 14 CFR 23.2325(b).

OMNAFOAM™ CARPET PADDING & PANEL COVERINGS

OmnaLite™ padding products are perfect additions to your interior project. Suitable for general aviation and private aircraft as well as marine and automotive. These products provide carpet padding, soft touch panel padding, and localized vibration absorption to quiet the aircraft interior.

OmnaPad™ Carpet Padding is an ideal underlayment for any cabin carpet. OmnaPad provides underfoot cushioning, sound-dampening performance, and flame barrier protection. It complies with 12-second vertical burn requirements for cabin interiors. Its 54-inch width and competitive price point make it the intelligent choice for cabin carpet padding installations.

OmnaFoam™ padding foams are compliant with a 12-second vertical burn at ½-inch thickness or when tested as an assembly with a compliant panel. Thicknesses less than ½-inch are compliant with a 15-second horizontal burn as an independent article. These foams are used under a decorative material to provide a soft touch for passenger comfort. If additional padding is needed for a safe interior, foams to meet delethalization requirements are available.

OMNAFOAM™ HEAT RELEASE & SMOKE DENSITY COMPLIANT FOAMS

Large panels within the cabin of some aircraft have to meet the additional flammability requirements of heat release and smoke density testing defined within Chapters 5 and 6 of the Aircraft Materials Fire Test Handbook. Foams attached to the panel to improve the aesthetic of the decorative material or reduce noise caused by the panel's vibration must comply with these requirements. OmnAvia™ offers OmnaFoam™ HRSD foams in a variety of rigidities and thicknesses to meet these requirements.



OMNAFOAM™ WHISPER FOAM™

Reduction of the ambient noise in the cabin is key to passenger comfort. In an aircraft, the primary noise sources are the engines and the air on the wings and fuselage as the plane moves through it. Similarly, in a marine environment, the propulsion of the yacht and the water impacting the hull increase the ambient noise. Secondary noise sources are driven by equipment function, HVAC systems, and hollow areas acting as resonance chambers.

The aircraft noise reduction system includes vibration absorbers that reduce the transfer of sound from equipment and, in localized areas, prevent independent panels from vibrating. Additionally, sound barrier foams installed between the cabin wall and the aircraft's exterior skin absorb vibration from the engines and the air movement around the plane.

OmnAvia's Whisper Foams™ are elastomeric foams for use in sound attenuation. They are multi-use foams available in rolls in various thicknesses. These foams are utilized for vibration isolation and sound attenuation insulation.

➤ HORIZONTAL BURN COMPLIANT

All OmnaFoam™ products listed here comply with the 15-Second Horizontal burn testing required by 14 CFR 23.853(a) and 14 CFR 23.2325(b)



OMNAFOAM™

WHISPER FOAM™

SPECIFICATION

Comfort Series	Density LBS/CU. FT.	Tensile Strength PSI	Compression PSI 25%	Compression Set %	14CFR 23.853(a)	Color
WF-AHC	6.50-8.50	90 min.	7.00-9.00	30.00 max	Pass	Grey
OmnaLite™ OIV3	7.00-9.50	100 min.	9.00-13.00	35.00 max	Pass	Black
WF-ALC	6.00-8.50	90 min.	4.00-6.00	25.00 max	Pass	Natural/Beige

All OmnaFoam™ Whisper Foams are compliant with 15-second Horizontal testing as defined in Chapter 3 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 23.853(a) and 14 CFR 23.2325(b).



COMFORT THAT FEELS LIKE HOME...

There's no need to sacrifice comfort for safety.
You can have both, and OmnAvia™ has the solutions.





INSULATION SOLUTIONS

Strip insulation in the aircraft is used to insulate the cabin from environmental conditions during regular operation. This insulation supports noise attenuation as well. The assemblies are manufactured from batting materials with sewn or bonded skin on each side. The insulation is often applied to the inside of the aircraft skin between the skin and the outer wall of the cabin interior.

STRIP INSULATION

Fiberglass batting enveloped in a flame-resistant sleeve, placed against the outer wall of the aircraft.



OMNAVIA™ COMFORT PANEL™

OmnAvia™ offers our Comfort Panel™ brand to keep your interior temperature perfect, resulting in improved passenger comfort. Various widths and thicknesses are available. However, for a perfect fit, the insulation batts will often have to be cut to fit the aircraft. Cut sections are closed with seaming tape, available for purchase from OmnAvia.

» VERTICAL BURN COMPLIANT

OmnAvia™ Comfort Panel™ is compliant with 60-second vertical testing as defined in Chapter 1 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 23.853(d)(3)(i) and 14 CFR 25.853(a).





OMNAVIA™ COMFORT PANEL™ STRIP INSULATION SPECIFICATION

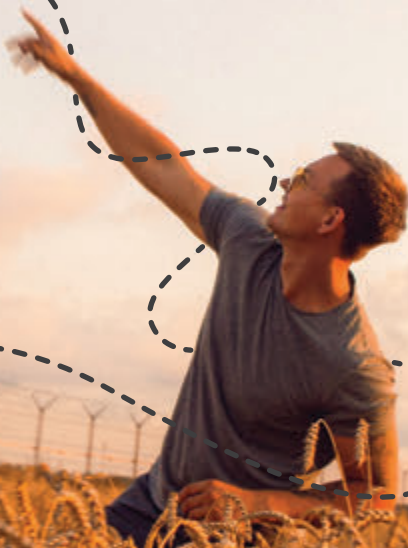
Comfort Series	Width	Length	Thickness	Thermal Conductivity	14CFR 25.853(a)	Tab
MX1000-050-11	12.00	600.00	1.00	1.57	Pass	N/A
MX1000-050-29	18.00	600.00	1.00	1.42	Pass	N/A

All OmnAvia™ Comfort Panel™ products are compliant with 60-second vertical testing as defined in Chapter 1 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 23.853(d)(3)(i) and 14 CFR 25.853(a).



SOAR!

With OmnAvia™ "Behind the Seams" products you'll be soaring above the competition.





FLAME-RESISTANT FABRICS

All fabrics in a cabin must be at least flame-resistant. "Under the Seams™" these fabrics are used as wear and sewing surfaces for foams and paddings. The regulatory requirement they are subjected to depends upon the aircraft assembly they are utilized in. OmnAvia™ offers several varieties to provide the building blocks of an attractive and compliant cabin.

TEST SPECIMEN

3 samples in each direction, each 3" X 12" tested for 12 or 60 second duration.

MOUNTING BRACKET

Metal apparatus to hold the test specimen during testing.

BURNER APPARATUS

Bunsen or Tirill Burner. 1550° F Flame; 1.5" flame height.

OMNAVIA™ FLAME-RESISTANT & FIREBLOCK FABRICS

Flame-resistant fabrics provide sewing surfaces and wear support for batting and foams used in cushions and covers. Fireblock fabrics delay the ignition of foams and other materials if a fire initiates within the aircraft.

Flame-resistant fabrics offered by OmnAvia™ are compliant with 12-second vertical testing as defined in Chapter 1 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 25.853(a)

In addition to the vertical burn requirements above, the fireblock materials are a necessary component in cushion and cover assemblies that meet the requirements of Oil burner testing defined in Chapter 7 of the Aircraft Materials Fire Test Handbook and required by 14 CFR 25.853(c).

OMNAVIA™ HOOK & LOOP TAPE

No textile assembly is complete without its attachment method. OmnAvia's flame-resistant hook & loop fastening tape is a premium fastener suitable for aerospace, automotive, and industrial applications. This product is 100% nylon and exhibits a high peel & shear strength along with an excellent life cycle. This fastener tape has a flame retardant (FR) coating that meets FAA & FMV specifications. It is available in 1-in and 2-in widths in standard roll lengths. Available stock colors are black, white, and beige. They are offered in a plain-backed sew-on construction or with a pressure-sensitive adhesive (PSA) with a peel-and-stick removable backing.



NO REGRETS!

Don't regret your purchase. Get the right materials
for when it matters.





INTERIOR FINISHING

Our roots are in aviation and textiles, and senior management has specialized in aerospace textiles since 1984.

In 2012 OmnAvia Interiors was founded to bring a portfolio of a full range of decorative interior materials to the private aircraft and air charter industries.

As we have grown, our scope and range of materials have expanded into additional styles of carpets, contemporary fabrics, new leather finishes, and other decorative materials.

We offer a full spectrum of European leathers, exquisite woven textiles, an array of wool and nylon carpets, vegan leathers, sheepskins, and technical textile materials. We provide perfect materials for every aircraft type, from VVIP head-of-state jets to business charters and from private showpieces to unique homebuilt and experimental aircraft. Our service is personal, and our quality is exceptional.

CABIN RENDERING SERVICES

OmnAvia offers cabin rendering services to assist you with gaining confirmation from your client that the proposed interior decor they have selected will meet their expectations. Simply provide a high-resolution photo of their existing aircraft interior, submit a list of the interior finish spec materials they have selected from our portfolio of materials, and we'll return to you a high-resolution depiction of the interior with their new surface soft goods selections. See examples on our website by capturing this QR Code.



LEATHER & SHEEPSKIN

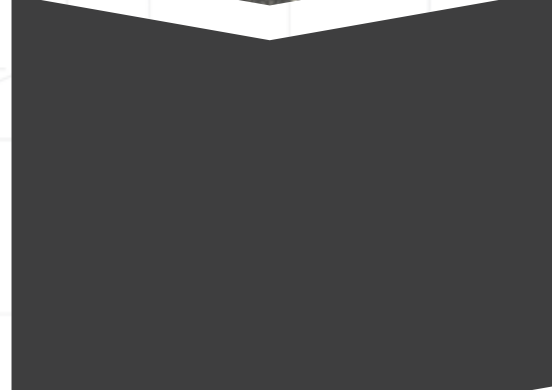
With a range of colors and textures to suit every need, OmnAvia's collection of leathers can satisfy nearly all requirements. Our European hides are large and produced by a tannery specializing in transportation seating leathers. Durability and compliance are our specialties, and our leather hides exceed the recommended durability standards and are compliant with FAA flammability requirements.

Our sheepskin hides, most often used for crew seat covers, are of Australian and New Zealand origin. With a range of 21 colors, our hides are matched to the most popular commercial and business jet color standards. Each sheepskin hide is sheared to a 1-inch hair length.

CARPETING, STEP TREAD & NON-TEXTILE FLOORING

OmnAvia™ offers a variety of patterns, colors, textures, and pile fibers to satisfy the needs of every aircraft owner. From plush hand-tufted wool and silk custom designs for VVIP and large cabin jets to durable solid cut-pile nylon options for smaller private aircraft, we have your decks covered.

We stock a range of NTF (non-textile flooring) products to cover galleys, lavatories, main cabins, and entry stairs. OmnAvia's selection includes solid color coin-dot patterns to new wood grain and stone patterns.





HEADLINER & PANEL COVER

Since our inception in 2012, we have been proud to offer IZIT Leather for side panels, headliners, and seating applications. Now produced in a modern facility in North Carolina, IZIT Leather Platinum FR is the leading product for business jet and private aircraft interior panels. With a superb feel, excellent durability, and a true four-way stretch, ensuring ease of installation, IZIT is your choice to exceed your customer's expectations.

UPHOLSTERY & PANEL FABRICS

The genetic code of OmnAvia's founders is in textiles, and we offer a broad portfolio of fabrics to cover every surface of the aircraft. From complex jacquard patterns to simple herringbone twills, we have nearly every type of woven structure that is popular in the aviation and marine interior world.

VINYL UPHOLSTERY AIRCRAFT - AUTO - MARINE

With a wide variety of textures and colors, you can find the perfect product to upholstery seating, create side panels, or cover accent features in your interior. Please have a look on our website at the available selection.



CARPET KIT PRODUCTION

Once you have selected your carpet from our collection, we can fabricate it into a new carpet kit for your cabin. Our process is to receive your old kit (removed when the aircraft is being serviced) and to create a pattern for the new kit from the old one. We make dimensional adjustments as instructed and return a new complete carpet kit that is dropped into place for a perfect fit.

CABIN CLEANING SUPPLIES

To maintain the suppleness of your leather seat covers, they should be properly cleaned and conditioned with products that are engineered especially for pigmented leather. The cleaner and conditioner in our Keralux Leather Care set are formulated to first gently and safely clean the leather, and then condition our natural leather to help maintain the natural feel of leather. The conditioner is infused with a UV protectant to prevent early fading.

