

## CASE STUDY

# Advanced Panel Solutions for the Recreational Vehicle Industry





In today's competitive recreational vehicle (RV) market, manufacturers are under more pressure than ever to deliver luxurious, space-efficient interiors that stand up to the demands of life on the road.

Consumers want comfort, style, and durability—all in a mobile environment that pushes the limits of conventional design. That's where innovation comes in. This case study explores how Kerfkore's advanced panel technologies are transforming the way RV interiors are designed and built. By replacing traditional materials with engineered solutions tailored for performance and precision, RV manufacturers have discovered a smarter, more efficient way to deliver modern, curved cabinetry and sleek interior finishes without compromising structural integrity or aesthetic appeal.

## THE RV INDUSTRY CHALLENGE

Recreational vehicle (RV) manufacturers face a unique set of design and engineering challenges: creating comfortable, attractive, and durable living spaces that can safely endure the rigors of long-distance travel. Whether building motorhomes, travel trailers, or camper vans, RV makers are under constant pressure to optimize space, improve quality, and maintain a lightweight yet rugged structure.

Traditional materials like preformed plywood often fall short when it comes to delivering consistent results in highly curved and confined environments.



### These materials can present issues such as:

- Unpredictable durability
- Susceptibility to moisture
- Difficult in-house fabrication
- Inflexibility in achieving tight radii
- Pre-set or fixed radii that contribute to increased inventory

Manufacturers seeking to create sleek, curved cabinetry and storage solutions—particularly in high-touch areas like overhead cabinets—need a better way to deliver both form and function without compromising on safety, aesthetics, or efficiency.

## THE OPPORTUNITY

To meet modern customer expectations for premium fit and finish in mobile living spaces, RV manufacturers began seeking an alternative to traditional plywood and other rigid substrates.

## They needed a panel solution that would:

- Achieve tight bend radii with a consistent, high-quality finish
- Address a variety of bend radii without excessive inventory levels
- Withstand varied travel conditions and climates
- Be safe, formaldehyde-free, and lightweight
- Integrate into streamlined production processes
- Be ready for CNC machining and final assembly

## THE SOLUTION

Kerfkore's line of bendable and engineered panels provided a perfect fit for the RV industry's evolving needs. Known for its craftsmanship, flexibility, and attention to detail, Kerfkore developed a custom solution to support the creation of curved cabinetry and streamlined living quarters in RV interiors.

### Key elements of the solution included:

- A specific kerf pattern engineered to meet the required bend radii
- Lightweight construction to reduce vehicle weight and improve fuel efficiency
- Moisture resistance and formaldehyde-free composition to enhance safety
- CNC machine compatibility to reduce manual labor and increase precision

In collaboration with leading RV suppliers and distributors, Kerfkore's panels were laminated and prepped according to manufacturer specifications before being shaped to fit vehicle frameworks. The result: a repeatable, scalable panel solution that reduced in-house complexity while improving product reliability.



## PROJECT REQUIREMENTS

- Bendable wood capable of forming tight curves
- Simple, scalable production integration
- High-end visual appearance
- CNC compatibility
- Strong but lightweight performance
- Moisture resistance and low-VOC compliance
- Streamlined delivery and lamination support

See How Our Architectural Panels Can Fit Your Next RV Project. **Request a Sample Today.**



## THE RESULTS

By shifting to Kerfkore's engineered panels, RV manufacturers achieved:

- Reduced in-house fabrication — eliminating the need to kerf plywood manually
- Improved labor efficiency — enabling skilled workers to focus on final assembly
- Lower inventory demands — through just-in-time delivery of pre-laminated panels
- Faster production timelines — with ready-to-install, CNC-compatible materials

These enhancements translated to cost savings, greater design flexibility, and a higher-quality product for end users.

“At Kerfkore, we take pride in delivering creative panel solutions that meet the highest standards of safety, durability, and beauty. Whether for luxury RVs or compact campers, our bendable wood products help manufacturers create spaces that feel like home—wherever the road leads.”

## WHY IT WORKS

Kerfkore's expertise in engineered panels—combined with a deep understanding of the mobile interiors market—has made it a trusted partner for RV brands looking to enhance their product lines.

### Key benefits include:

- Time and labor savings
- Lower cost per panel
- Increased production throughput
- Dependable performance in mobile environments
- Lower inventory levels



For more than 30 years, Kerfkore has helped solve complex design challenges with lightweight, flexible panel solutions. If your RV interiors need to bend the rules—literally—we're here to help. **Let's build something that moves people.**

