

Vacuum Insulated Glass for RVs, Camper Vans and Mobile Units

Website configurator plan and proposed standard size catalog

1. Recommendation

Yes, add a configurator to thermglass.com. For the RV and mobile-unit segment, a configurator turns a technical product into something a builder can specify in two minutes. Because the glass is flat-only and sold as a premium four-season upgrade, the buyer needs to see quickly whether a pane fits, what it does for comfort and energy, and how to request samples. A well-built configurator does three jobs:

- **Lowers friction** for small and mid-size builders who will not call a sales rep to ask about sizes.
- **Captures qualified leads** (vehicle type, volumes, sizes, timeline) that feed straight into the pilot-program pitch.
- **Keeps requests inside what the factory can make** by enforcing flat panes, size limits and standard sizes, so you do not promise custom work you cannot deliver.

Recommended approach

Start simple: a size picker plus a quote-request form, with no public pricing. Add an energy and comfort estimator second. Add stock and lead-time features only after supply is contractually secured. Build it as a new market configuration inside the existing thermglass.com configuration and ROI engines rather than as a separate tool, so every number comes from one source of truth.

2. Configurator Specification

2.1 Inputs

Step	Field	Options / behavior
1	Vehicle type	Camper van, class B/C motorhome, class A, travel trailer, truck camper, mobile unit (office, clinic, command)
2	Window location	Side window, rear, galley, bath, skylight/roof insert, door glass (flag: driver-area glazing needs safety-glass certification)
3	Size	Pick a standard size (Section 3) or enter a custom width and height; the form validates against factory limits
4	Corner style	Square or rounded corners; radius options to be confirmed with factory
5	Thickness	6.3 mm default; 8.3 mm and 10.3 mm for larger panes or special needs
6	Frame type	Thermally broken, standard aluminum, wood/composite, customer-supplied; used to adjust the savings estimate
7	Climate / use	Four-season, cold-climate, off-grid, hot-climate; sets the estimator inputs
8	Quantity and timing	Prototype (1-10), pilot (10-100), production forecast per year
9	Contact	Company, role, email, phone; optional file upload for drawings (.dwg/.dxf/.pdf)

2.2 Outputs shown to the user

- Selected size in inches and millimeters, area, and approximate weight
- A side-by-side comparison against standard glass and a double-pane unit (center-of-glass U-value, clearly labeled with units, using only factory-confirmed numbers)
- An illustrative heat-loss or energy estimate, labeled as an estimate, with the assumptions listed
- A drawing preview and a downloadable one-page spec sheet
- A button to **Request samples / quote**; the lead goes to you by email and into your CRM

2.3 Validation rules (enforce in code)

- Flat panes only. Block any curved-glass request with a clear message.
- Enforce the factory's minimum and maximum size (currently 14 x 20 in to 72 x 108 in) and any aspect-ratio limit it specifies.
- No holes or cutouts. Vacuum glass cannot be drilled or notched after manufacture; offer only edge dimensions and corner radii unless the factory confirms special shapes.
- Show a safety-glazing notice for windshield or driver-area positions until certifications are complete.
- Never display stock status, lead time or price until supply terms are set in writing.

3. Proposed Standard Size Catalog

These sizes are **proposed** for the RV and mobile-unit market and fall within the factory's stated range of 14 x 20 in to 72 x 108 in. They are chosen to match common van, camper and motorhome openings. **The factory must confirm each size, tolerances and corner radii before publication.** Dimensions are width x height; panes can be ordered in either orientation.

Code	Class	Typical use	Size (in)	Size (mm)	Area (sq ft)	Approx. weight, 6.3 mm (lb)
S1	Small	Galley, bath, hatch	14 x 20	356 x 508	1.9	6
S2	Small	Galley, bath, hatch	16 x 24	406 x 610	2.7	8
S3	Small	Galley, bath, hatch	18 x 24	457 x 610	3.0	9
S4	Small	Galley, bath, hatch	20 x 30	508 x 762	4.2	13
S5	Small	Galley, bath, hatch	24 x 24	610 x 610	4.0	12
M1	Medium	Van and camper side	24 x 30	610 x 762	5.0	15
M2	Medium	Van and camper side	24 x 36	610 x 914	6.0	18
M3	Medium	Van and camper side	30 x 30	762 x 762	6.2	19
M4	Medium	Van and camper side	30 x 36	762 x 914	7.5	23
M5	Medium	Van and camper side	36 x 24	914 x 610	6.0	18
L1	Large	Motorhome and trailer	36 x 36	914 x 914	9.0	28
L2	Large	Motorhome and trailer	36 x 48	914 x 1219	12.0	37
L3	Large	Motorhome and trailer	48 x 30	1219 x 762	10.0	31
L4	Large	Motorhome and trailer	48 x 36	1219 x 914	12.0	37
L5	Large	Motorhome and trailer	48 x 48	1219 x 1219	16.0	49
X1	Extra large	Picture window, panoramic	48 x 60	1219 x 1524	20.0	61
X2	Extra large	Picture window, panoramic	60 x 36	1524 x 914	15.0	46
X3	Extra large	Picture window, panoramic	60 x 48	1524 x 1219	20.0	61
X4	Extra large	Picture window, panoramic	72 x 48	1829 x 1219	24.0	74
X5	Extra large	Picture window, panoramic	72 x 72	1829 x 1829	36.0	111

Maximum / special order: up to 72 x 108 in (50.4 sq ft). Large panes may need special handling, crating and installation guidance; quote on request. **Thicknesses:** 6.3 mm, 8.3 mm and 10.3 mm. Weights are rough estimates based on about 15 kg/m² (3.1 lb/sq ft) for a 6.3 mm unit; thicker units weigh more. Replace with the factory's published weights.

Suggested rule of thumb for the website (confirm with factory): 6.3 mm for most panes; consider 8.3 mm or 10.3 mm for the larger X-class panes where stiffness and wind or road loads matter.

4. Phased Rollout

Phase	Scope	Notes
1	Size picker, comparison table, sample/quote request form, downloadable spec sheet	Fast to build; no pricing, stock or lead times shown

Phase	Scope	Notes
2	Energy and comfort estimator by climate and frame type; save and share a configuration link	Reuse the existing ROI/payback engine; audit it for consistency first
3	Account login for builders, repeat orders, drawing upload review	Aligns with the planned integrated ordering platform
4	Live availability, lead times, and pricing tiers	Only after supply terms are signed and logistics are proven

5. Items to Confirm with the Factory Before Launch

- Final list of standard sizes, tolerances, and minimum order quantities
- Available corner radii and any limits on non-rectangular shapes
- Verified center-of-glass U-value ($\text{W/m}^2\text{K}$), plus whole-unit values if available, and the test standard used
- Actual weights and composition for each thickness (tempered or not, coatings, pillar spacing)
- Safety-glazing, vibration and thermal-cycling test status, and the certification timeline
- Edge and frame guidance: recommended glazing tapes, gaskets and adhesives
- Packaging and shipping method, plus realistic lead times from order to delivery

6. Cautions

- Keep all performance claims tied to documented test data; label estimates as estimates.
- Do not use the configurator to commit to price, stock or delivery dates until supply terms are in writing.
- Frame performance matters: an aluminum frame can erase much of the benefit, so recommend thermally broken frames.
- Add a short disclaimer to the site that glazing certification requirements vary by vehicle position and jurisdiction.