



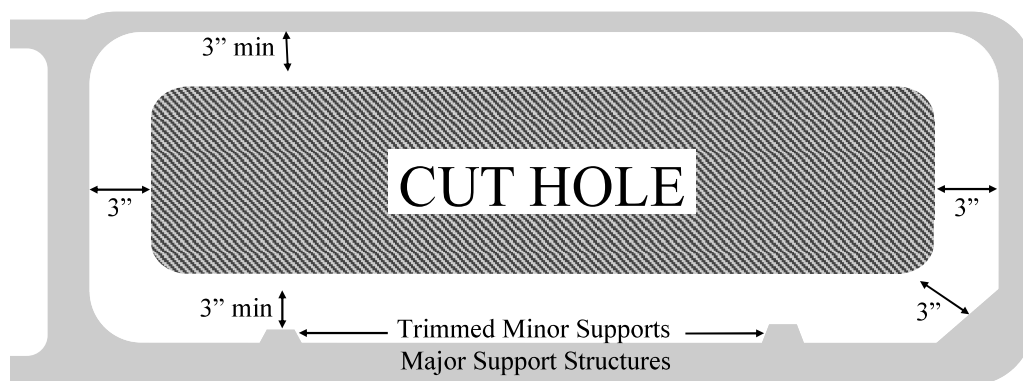
Arctic Tern Product Collection Considerations for Fitment: Windows

Thank you for considering our windows for your build! One of the most common questions we receive is, "How do I determine which window size will fit in my vehicle?", most commonly asked by van owners. Please note that we cannot make specific recommendations regarding the appropriate product size for your application. With so many different vehicle makes, models, trim packages, model years and custom interiors, it will be necessary for you to take your own measurements to determine proper fitment. What we can do is provide all the information you need to make that determination for yourself.

Here are some considerations:

Clearance Specs. Most utility vans, such as Mercedes Sprinters, Ford Transits, RAM Promasters and others, have wall panels where windows may be installed. These panels are surrounded by major support structural supports, as well as thinner minor supports keeping the sheet metal rigid. We do not recommend ever cutting into or modifying major support structures. Minor support structures may be cut to allow for these installations. For the installation of windows into vans, or any curved wall surface, we recommend a minimum of 3" of free sheet metal on all sides of window cut hole openings. This allows the unsupported sheet metal to be flattened to match the flat frame of the window. In some cases, the van panel will have a major structural support with an angled corner. Please ensure the recommended 3" clearance is adhered to in relation to that type of wall feature.

Please refer to the drawing below for appropriate minimum window clearances.



Spacer Frame Fabrication for Curved Sheet Metal Applications. Walls thinner than 24mm, or 15/16” will require the fabrication of a 1x1" spacer frame. All sheet metal (van) installations require this spacer frame. This accomplishes 3 things. It flattens the curved sheet metal, it brings the wall to the minimum thickness required, and it provides a mounting point for the blind & screen assembly mounting screws. We recommend the use of hardwood or square metal tubing. Plywood or soft wood, such as pine, should not be used. The spacer frame should be mounted to the interior wall surface, surrounding the cut hole opening, prior to window installation. High strength polyurethane adhesive or Very High Bond (VHB) tape is recommended to adhere your spacer frame to the wall surface. Your spacer frame can be as simple as four pieces of aluminum or hardwood formed into the shape of a rectangle. It is not necessary for the four pieces to be connected, as your adhesive will keep them in place.

Interior Clearance. In the vehicle interior, ensure there is sufficient clearance for the included window blind & screen assembly near internal fixtures, such as cabinets and counter tops. The blind and screen assembly is designed to be hung on the window inner frame ring and then secured to the wall using provided mounting screws. Note that sufficient framing must be present beyond the corners of the windows to accommodate the mounting screws. The frame should extend beyond the cut hole at least 1”. Your fabricated spacer frame can act as this screw mounting point. Complete dimensions for our products can be found on our website.

Wall Thickness. Our windows can accommodate a variety of wall thicknesses, and it’s important to specify your wall thickness when selecting your windows. Wall thickness is defined as the thickness of your vehicle wall from the external wall surface to inner mounting surface. That inner surface can be your finished wall, or if you’re not finishing out the interior, your fabricated spacer frame. We have four window inner frame rings to choose from: 24-34mm, 35-44mm, 45-54mm, and 64-74mm. Our windows require a minimum wall thickness of 24mm, or 15/16”.

Wall Panel Vibration. Many vans are known to have wall vibration issues. These panels can literally vibrate like a drum head if unconstrained. Some customers have reported rattling from our windows when mounted to unfinished walls. A properly finished wall should include solid material, such as rigid foam board insulation, adhered to the sheet metal wall to prevent the wall from vibrating. More information regarding wall panel vibration can be found on our website.

Still have questions? We're here to help! Reach out to us on our website at the link below:

<https://ternoverland.com/contact-us>