

## **User Guide Windows Perforated or One-Way-Vision self-adhesive vinyl**

applying window perforated vinyl also referred to as see-through vinyl, or one-way vision film (OWV) is different than applying regular self-adhesive vinyl films.

As with any installation, preparation is critical and crucial, and OWV has its own process. Whilst cleaning the glass prior to the graphic application, it is recommended to do an isopropyl alcohol wipe using a soaked towel to clean the surface and a dry towel wipe to remove crease or dirt that has left behind on the surface.

Sometimes a window will have a coating on it from an 'anti-rain' or 'rapid clear' type of product (wax or lotus effect), if this is the case, an abrasive scrub will be absolutely required to remove the wax-like finish, as this film will try to avoid that the adhesive will stick properly to the window. Windows that are treated with Nano technology need to be tested first after thoroughly cleaning, as there is no guarantee the adhesive will overcome the possible rejection due to this Nano technology. Please note, that also window cleaners sometimes use soap with nano technology to clean windows!

An optically clear overlamine is not only recommended but usually necessary. Without laminate the holes in the vinyl will fill with water and dirt which will drastically reduce visibility and defeat the purpose of the media. A laminate will also allow for ease of application, reducing stretching, and wrinkling.

Tip: window perf film is thin and because of the holes there is a lack of material; when laminating your window perf film make sure to use the correct tension setting on your laminator. It is very easy to use too much tension which will induce curl in you finished graphic. We recommend our Ultra Clear PVC laminate, matching the PVC OWV Vinyl and giving protection and stability and at the same time having a great see through effect! Another option is our Anti-Graffiti PET lamination film, available in 23 and 36MIC.

When installing OWV on vehicles there are few things you need to consider. First, the design of the graphic. Since you cannot stretch perforated vinyl (it is monomeric – one dimensional) the design of the graphic must follow the contours of the vehicle. It will be important that the design lines up well from side to back for the OWV to meet up with the body wrap at the right point. Take your time lining the graphics up prior to beginning the install to prevent a mistake. Second, it is important to trim the edge back ca. 0,5cm on all sides to prevent lifting. The rubber seals surrounding car windows, expand and contract with the weather and they contain oils which will affect the adhesive on the film and can cause failure. It is also a good idea to put a clear edge tape over all exposed edges, especially if the window will be rolling up and down. Another idea is to have a slight overlap of the laminate, closing the edges of the vinyl. You can apply our OWV with water and use a rubber squeezy to remove the water and position the vinyl properly. Please make sure you remove ALL water, as trapped in water will cause the vinyl to release.

Building wrap OWV can be very challenging for any installer. Not only are you on scaffolding maybe hundreds of meters in the air you can't see the big picture of the graphic unless you climb down and walk away. The key to a successful building window perf installation is organization and pre-alignment. Also, here it is essential to clean the windows first – see above!

Lay all the panels out in the correct order prior to beginning the job to make sure they align up correctly and are stacked in the right order then remove them from the stack one at a time.

In general:

- The best temperature to apply is between 15-35 degrees Celcius.
- Avoid direct sunlight whilst applying the film, as the UV rays could destroy the properties of the adhesive and lead to an increase of residue.
- In case you are (eco) solvent printing with dark colors and heavy saturation, please make sure that the vinyl has enough time to evaporate the solvents (recommended 48 hours), before you apply our Ultra Clear Laminate and before you apply to any surface!

The information published here is based on research findings which our company believes to be reliable, but not a guarantee. Due to the wide range of possible applications of our products and the ongoing development of new applications, it is up to the purchaser to check the suitability and performance of the product for the respective intended purpose. The buyer bears all risks arising from the use of these products. All specifications are subject to change.

Enjoy using our OWV film!

Barcelona, 22.02.2018

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