

## Product Focus



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## Performance HD White on Black

**Performance HD White on Black** is a 40% transparency (60/40) perforated window film for one-way vision graphics, manufactured to the high specification of our Contra Vision® Performance™ range.

**The 1mm diameter holes are 60% smaller in area than standard one-way vision window film.** This break-through micro perforated window film delivers the clearest and sharpest window graphics including small type and vivid color textures.

The smaller holes also means that less rainwater accumulates in non-overlaminated applications. Tests show that the evaporation time to unblock the holes is reduced by 50%.

From inside the see-through is noticeably improved. The perforations are so small that they cannot be seen from as little as 1.5 meters from the window compared with 3.5 meters for standard perforated vinyl.

You can use **Performance HD White on Black** anywhere that standard perforated film is used, as well as in thousands of places previously not considered. The refined texture and superior appearance will amaze anyone who ever questioned the image quality of perforated window films.

**“ It results in high definition quality images, with greater detail than ever before and also provides a smoother see-through from inside. ”**



View from outside



View from inside

### Product Specification

Product name	Performance HD White on Black
Product code	WBPAG40HD
Transparency	40% (60/40)
Application	Outside
Roll width	54 inch
Roll length	30 ft / 100 ft
Primary uses	Retail buildings and vehicle windows Advertising / Branding

**contra**vision®

# contrAvision® Technical Data Sheet

Product Name:	Performance™ HD White on Black	Page:	1/2
Product Reference:	WBPAG40HDA	Revision:	2 (CVNA)
		Date:	01 February 2019
		Replaces:	B
		Authors:	RAS

## Description

Performance™ HD WBPAG40HDA is a White/ Black perforated self-adhesive vinyl with 40% transparency; and a removable, pressure-sensitive adhesive, featuring a Universal Liner with Grayliner™ technology. This film allows an image to be seen on the outside of a window while allowing viewing through from the inside.

This promotional film features a part-perforated paper liner and is intended for UV-cure, solvent, 'eco-solvent' and latex inkjet printing, and screenprinting.

Typical Properties	
PROPERTY	VALUE
Face film	Warm White on Black laminated polymeric calendered PVC
Film thickness	6.0 mil $\pm$ 0.4 mil (150 $\mu$ m $\pm$ 10 $\mu$ m)
Hole pattern	40% transparency; 0.04" (1.0mm) diameter holes
Adhesive	Transparent solvent polyacrylate 1.23 oz/yard <sup>2</sup> $\pm$ 0.09 oz/yard <sup>2</sup> (35g/m <sup>2</sup> ( $\pm$ 3g/m <sup>2</sup> ))
Liner	Part-perforated Universal Liner. Perforated silicone coated paper laminated with grey-printed paper backprinted with Contra Vision® Performance™ branding.
Liner weight	5.36 oz/yard <sup>2</sup> $\pm$ 0.18 oz/yard <sup>2</sup> (152g/m <sup>2</sup> $\pm$ 5g/m <sup>2</sup> ) after perforating
Application temperature	Minimum: 39°F (4°C) air and substrate
Peel adhesion 24 hours	14.4 oz/in(4N/25mm) Printed film on glass, typical value
Peel adhesion 1 month	18 oz/in (5N/25mm). Printed film on glass, typical value
Removability	Minimum 12 months clean removability without adhesive residue at 73°F to 77°F (23°C to 25°C) and RH of 50-60%
Durability	3 years Durability stated is for unprinted and untreated material correctly applied to an inert, vertical substrate subject to Mid-European weathering conditions. Some printing inks and drying or curing regimes may reduce the expected lifetime of the printed graphic. Please consult your ink manufacturer for guidance. Incorrect application methods, inadequate window cleaning and preparation and incompatible window treatments may reduce the expected lifetime of the applied material whether printed or unprinted, overlaminated or unlaminated. Mechanically sustained damage, chemical damage and UV-degradation to printed, unprinted, laminated or unlaminated material may also reduce expected durability. Typical application life is eighteen months. All perforated window films are especially vulnerable to damage along the edges and corners, which may lead to premature failure.
Shrinkage	x direction $\leq$ 0.6%, y direction $\leq$ 0.6% FTM14
Service temp	-13°F to 149°F (-25°C to 65°C)
Shelf life	2 years Under ordinary condition at temperature of 72°F (22°C) and relative humidity of 50-55%
Other info	

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## Regulations

Some countries and regions have laws or regulations requiring minimum light passage that may limit or preclude the use of this product on vehicle windows. The user is responsible for determining and complying with all applicable standards.

## Substrate Recommendations

This product is not recommended for use on glass with coatings such as anti-reflective, self-cleaning and scratch-resistance, which may be damaged during film removal.

## Application Recommendations

Apply the film using a dry application method. Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. Final clean with soap and water. Rinse and dry glass after cleaning.

Not to be applied to fresh paint or ink, polycarbonate, rubber, plastic moldings and certain PVCs. In case of doubt, please test prior to final application.

This product is not recommended for use around a sharp angle where there is a limited area either side of the angle.

The film must not touch the rubber window molding. If two graphic panels meet side by side on a window, carefully trim the film so that the panels meet and form a butt seam. Do not overlap the panels.

Observe the minimum application temperature, and the graphics should not be washed within 24 hours of application.

## Printing Recommendations

Universal Liner construction, correctly printed, eliminates the "bridging" over the perforated holes that can occur with UV curing inkjet printers and Replacement Liner construction.

After printing the ink must be thoroughly dry, including in the perforated holes to avoid any contamination, particularly during lamination.

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