



**free**

the natural choice

 **decal**<sup>®</sup>  
Think green



# PVC free



the natural choice

**Decal® PVC Free** range is the natural choice for those who want to reinforce the offer of **applications in visual communication and interior decoration** with more ecological solutions.

**A sustainable and safe option for all spaces**, respecting the environment and regulatory requirements, maintaining the differentiating properties of decal® s brand.

Make your choice and **start applying the future today.**

# apply the future today



We can say that we started to develop **environmentally conscious adhesive products** “yesterday” so that today's applications change tomorrow.

We assumed the “**Think green**” commitment over a decade ago and we continue to answer to the needs of the market, which is increasingly looking for **alternative solutions to PVC**.

The planet belongs to everyone and change begins in each person. In your case, you can do it through each application with **products produced without plasticizers** and that combine **ecology and efficiency**.

In this brochure we share the benefits of our **PP** (polypropylene) **films**, which have characteristics that allow you to **print, laminate and decorate** with a guarantee of sustainability.



## PVC vs PP

### **What are the plasticizers used in PVCs?**

Plasticizers are additives used to make materials more malleable and flexible. Some, like phthalates, are used in the manufacture of soft-PVC (flexible PVC) that is present in adhesive vinyl.

### **Do plasticizers have negative effects?**

Large-scale use of plasticizers can be harmful both for the environment and for human health. In applications, when its migration to the film surface occurs the print quality and lifetime of vinyl decreases. The production of plasticizer-free films eliminates this problem.



## **What are the advantages of PP films?**

PP films only contain carbon and hydrogen and their production does not involve plasticizers, nor the formation of dioxins such as hydrogen chloride and hydrochloric acid. Furthermore, they are resistant to different chemical solvents, acids and bases.

## **Can polypropylene be recycled?**

PP is a thermoplastic material derived from propane and propylene (plastic) and it is possible to recycle, it becomes malleable when subjected to high temperatures. Once separated from other raw materials, it is milled, melted, and transformed into new products, such as textile fibers, food packaging, tableware, and many other materials.



# Decal<sup>®</sup> effectiveness

## What products does decal<sup>®</sup> PVC Free range include?

This range includes products for printing and laminating that can be used in indoor and outdoor visual communication campaigns, of short and medium duration, and textured films for interior decoration.

## What makes this range different?

The adhesives used in PVC Free films are water-based and, therefore, free of volatile organic compounds (VOC). Not only do they reduce the ecological footprint and protect human beings, they also maintain all the properties that generate decal<sup>®</sup> effectiveness.



**REACH**  
**e RoHS**

## **Are the products certified?**

All products comply with the European regulation REACH (Registration, Evaluation, Authorization and restriction of Chemicals), which controls the production and use of chemical substances and minimizes their consequences on human health and the environment.





## What options do I have...

### ... for printing?

Decal® s PVC Free products have **surface treatment with perfect dot fixation**, which allows the application of ecology with increased print quality in the **Sign & Display, Architecture & Decoration and Advertising & Promotion** segments.

Their properties allow you to choose between **short or medium term visual communication applications**, making them ideal for luminous signs, signage, window display and wall decoration, promotional campaigns, decoration of car fleets and muppies among other applications.

## characteristics

- 65mic coated PP films
- UV protection and stabilization
- double side PE liner
- permanent adhesives, permanent bubble free and removable smooth surface bubble free
- white glossy and white matte finishes
- UV LED and latex printing types, with HP Latex certification
- application on smooth, flat and slightly curved surfaces
- up to 4 years of durability\*

*\*unprocessed and when applied under vertical exposure, Central European climate*







## ... for lamination?

Decal® PVC Free films for lamination are a synonym for double protection. Protecting the planet while **protecting prints** in applications for different market segments with **guaranteed brightness and clarity**.

Their characteristics give them high **resistance** to humidity, abrasion and chemical products, and the **ultra-crystalline adhesive** ensures unequalled transparency in applications on glazed surfaces, such as **office screens and shop windows in commercial spaces**.

## characteristics

- 65mic coated PP films
- UV protection and stabilization
- clear acrylic based permanent high tack adhesive
- 62gr glassine liner
- clear glossy finish
- materials printed with water-based inks, solvents, eco-solvents, UV LED and latex
- no air bubbles (silvering effect), no spots (milky effect)
- up to 4 years of durability\*

*\*unprocessed and when applied under vertical exposure, Central European climate*



**PVC**

**free**

by decal



## ... for decoration?

Alldecor 2d textures protect the environment when decorating **ceilings, walls, doors, furniture, caravans, boats and other design elements**. Safety reinforced by a formulation free of plasticizer, halogen and formaldehyde and the use of harmless pigments.

They stand out for their **lightness and ease of application** in the first moments. Once applied, **they preserve the identity of each space** due to their impermeability, ease of cleaning, durability of colors and resistance to scratches, stains, water, humidity, mould and light.

## characteristics

- 160mic and 190mic embossed PP films
- texture with thickness between 0.10 and 0.20mm
- clear acrylic permanent high tack adhesive
- 143gr liner double side PE coated fine paper
- UV LED and latex printing methods
- application on flat surfaces
- possibility of customization with printing
- possibility of disposal by incineration (low emissions)
- up to 10 years of durability





PVC

free

by decal

Now that you are familiar with **decal®** ecological **PVC Free** range, choose how you want to contribute to everyone's future by making your **applications more sustainable, efficient and safe.**

# printing

*the future in your hands*

| <i>product</i>                       | <i>film</i>   | <i>adhesive</i>                            | <i>liner</i>                        | <i>printing method</i>  |
|--------------------------------------|---|--|-------------------------------------|-------------------------|
| <i>decal PVC Free P PE 65 UVP</i>    | <i>PP coated with stabilization and UV protection</i> | <i>Clear acrylic permanent</i>             | <i>PE double side coated 130 gr</i> | <i>UV LED and latex</i> |
| <i>decal PVC Free R PE 65 UVP</i>    |   | <i>Clear acrylic removable</i>             |                                     |                         |
| <i>decal PVC Free R PE 65 BO UVP</i> |   | <i>Clear acrylic permanent bubble free</i> | <i>PE double side coated 145 gr</i> |                         |
| <i>decal PVC Free R BF PE 65 UVP</i> |   | <i>Clear acrylic removable bubble free</i> |                                     |                         |
| <i>decal PVC Free R BF PE 65 UVP</i> |   |  |                                     |                         |

# lamination

*global protection*

| <i>product</i>                         | <i>film</i>  | <i>adhesive</i>                          | <i>liner</i>          | <i>printing method</i>   |
|--|--|--|-----------------------|--|
| <i>decal pp overlamine P HT 65 UVP</i> | <i>PP clear glossy coated with stabilization and UV protection</i> | <i>Clear acrylic permanent high tack</i> | <i>Glassine 62 gr</i> | <i>Materials printed with water-based inks, solvents, eco-solvents, UV LED and latex</i> |

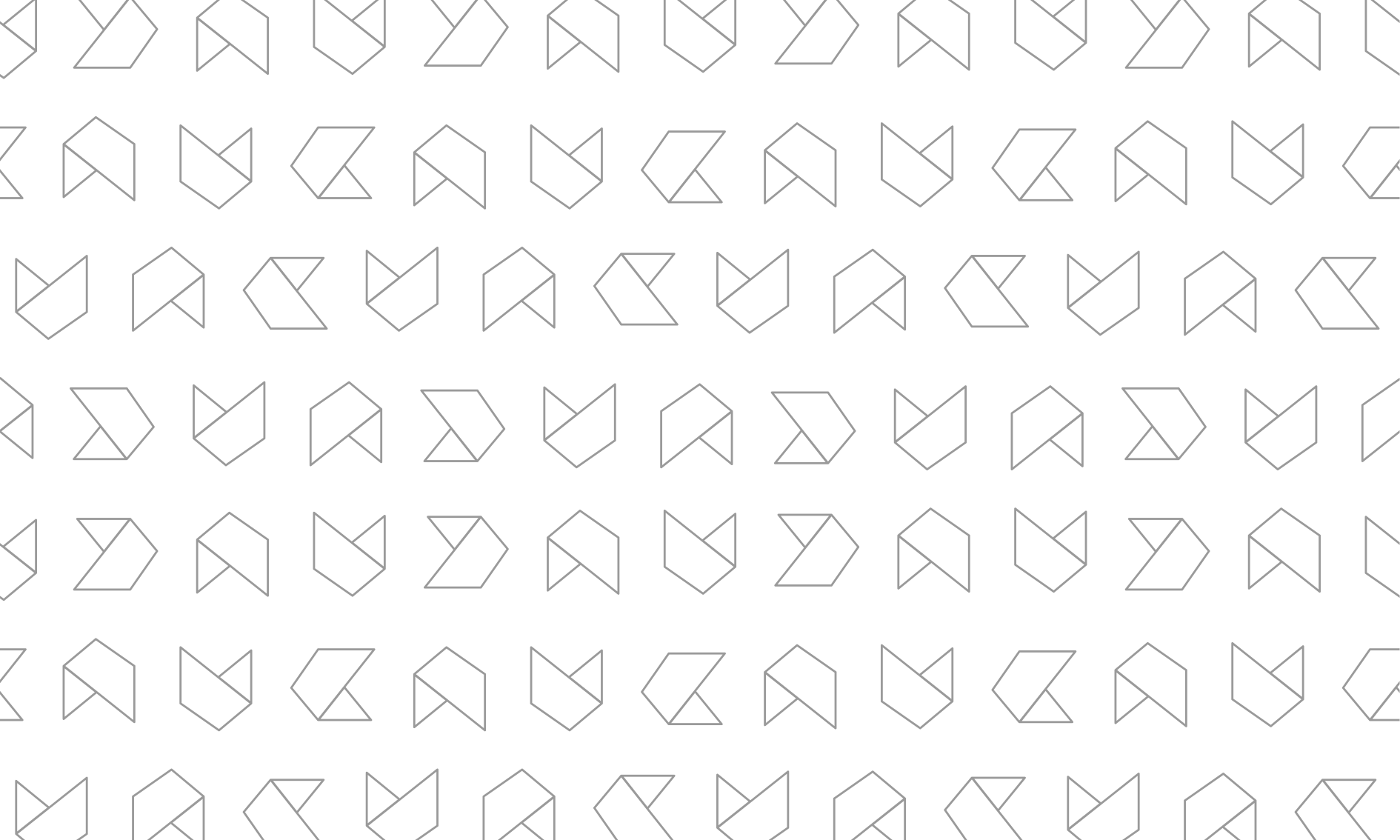
# interior decoration

*responsible aesthetics*

| <i>decal® alldecor 2D</i>               | <i>film</i>        | <i>adhesive</i>                               | <i>liner</i>   | <i>printing method</i>  |
|---|--------------------|---|--|-------------------------|
| <i>P HT 190 monte carlo lighth grey</i> | <i>PP embossed</i> | <i>Clear acrylic,<br/>permanent high tack</i> | <i>PE double side coated<br/>143 gr fine paper<br/>matte/gloss</i> | <i>UV LED and latex</i> |
| <i>P HT 190 oxide glimmer</i>           |                    |   |  |                         |
| <i>P HT 190 makalu concrete</i>         |                    |   |  |                         |
| <i>P HT 190 makalu pearl grey</i>       |                    |   |  |                         |
| <i>P HT 190 plaza stone concrete</i>    |                    |   |  |                         |
| <i>P HT 190 bolegno alaska white</i>    |                    |   |  |                         |
| <i>P HT 190 lagoda marrone</i>          |                    |   |  |                         |



| <i>decal® alldecor 2D</i>              | <i>film</i>        | <i>adhesive</i>                               | <i>liner</i>   | <i>printing method</i>  |
|--|--------------------|---|--|-------------------------|
| <i>P HT 190 ribera ash cream</i>       | <i>PP embossed</i> | <i>Clear acrylic,<br/>permanent high tack</i> | <i>PE double side coated<br/>143 gr fine paper<br/>matte/gloss</i> | <i>UV LED and latex</i> |
| <i>P HT 190 monte carlo darkbrown</i>  |                    |   |  |                         |
| <i>P HT 190 mountain cappucino</i>     |                    |   |  |                         |
| <i>P HT 190 sweet chestnut bleache</i> |                    |   |  |                         |
| <i>P HT 190 makalu concrete copper</i> |                    |   |  |                         |
| <i>P HT 190 tin sand p</i>             |                    |   |  |                         |
| <i>P HT 190 vintage leather white</i>  |                    |   |  |                         |
| <i>P HT 190 phono welsh darkbrown</i>  |                    |   |  |                         |





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