

THE  
RIGHT SURFACE  
SOLUTION

**PRODUCT SELECTION GUIDE**

Choose the right decorative and technical panels  
for your interior and exterior designs

**T**he building industry is an economic heavy hitter in many countries. Yet according to the 2019 Global Status Report for Buildings and Construction by the International Energy Agency, it is also the industry that produces the most CO2 and consumes the most energy, accounting as it does for 40% and 36% of global carbon footprint and energy use ahead of transport, industry and farming. Hence the sector is facing multiple challenges. It has to meet ever more stringent standards, deliver projects faster and give greater consideration to the environment, green products and recycling. And that's not to mention cost issues, which remain as important as ever. The building sector needs to change. Some of the ways it can do this are by protecting the environment and saving energy, bringing in new legislation like the French RE2020 environmental regulation, preventing epidemics, rehabilitating neighbourhoods and developing modular builds.

The sector comprises an array of different stakeholders, from general contractors, architects, engineering consultants, building suppliers and manufacturers to students, government bodies and auditors, and they use a vast array of products and services to meet these objectives. You need only consider all the different aspects of a single building to see that this is true, from structural works, utilities, ceilings and partitions, interior joinery and floors to electricity, heating, ventilation and air conditioning, all with products and solutions which stakeholders must be familiar with.

In an environment bursting with creative solutions and materials of every kind, the possibilities in the building world are vast. As project creation meets project digitisation, stakeholders are faced with a wide yet complex range of choices.

In an environment bursting with creative solutions and materials of every kind, **the possibilities in the building world are vast.**

The materials chosen are key components in the spaces that they are installed in, not only creatively and aesthetically, but through their performance and technical features as well.

Designs are more than just spaces. They empower fashions and lifestyle trends that seek to match real-world needs ever more closely through comfort, hygiene and well-being.

As the modern world changes, so too does the creative process. Digital projects are now a reality, and with them have arisen more stringent requirements in standards and regulations which must fit into the overall project creation process. So while aesthetics are still fundamental, they are not the only factor in the creative process, and construction manufacturers are playing a key role in this new model.

The building sector is changing, and we can all play our part. The industry of tomorrow has a clear grasp of:

- **All its products** and understands how to use them in a sustainable and circular fashion.
- **The urban and rural environment** and protects it.
- **Its human assets** – both workers and users – and nurtures them.
- **Its market** and develops it responsibly.

We embrace these changes and are fully conscious of the many challenges we face. That is why we have decided to aid the building sector through this transformation by developing the Product Selection Guide, which stakeholders can use to make the right choices every day.

As a key stakeholder in the building sector and a leading manufacturer of decorative and technical surfaces, POLYREY has developed a simple, complete solution for building professionals that helps them choose the materials they need every day.

As a trusted partner that is committed to its customers and its environment (in every sense of the word), POLYREY is a proactive brand that is working hand-in-hand with the entire sector through this transformation towards a more sustainable, responsible world.

**Fellow stakeholders, let us share our knowledge to make the buildings of tomorrow ever more dependable, clean, aesthetic and respectful of the inhabitants and ecosystems of this world.**

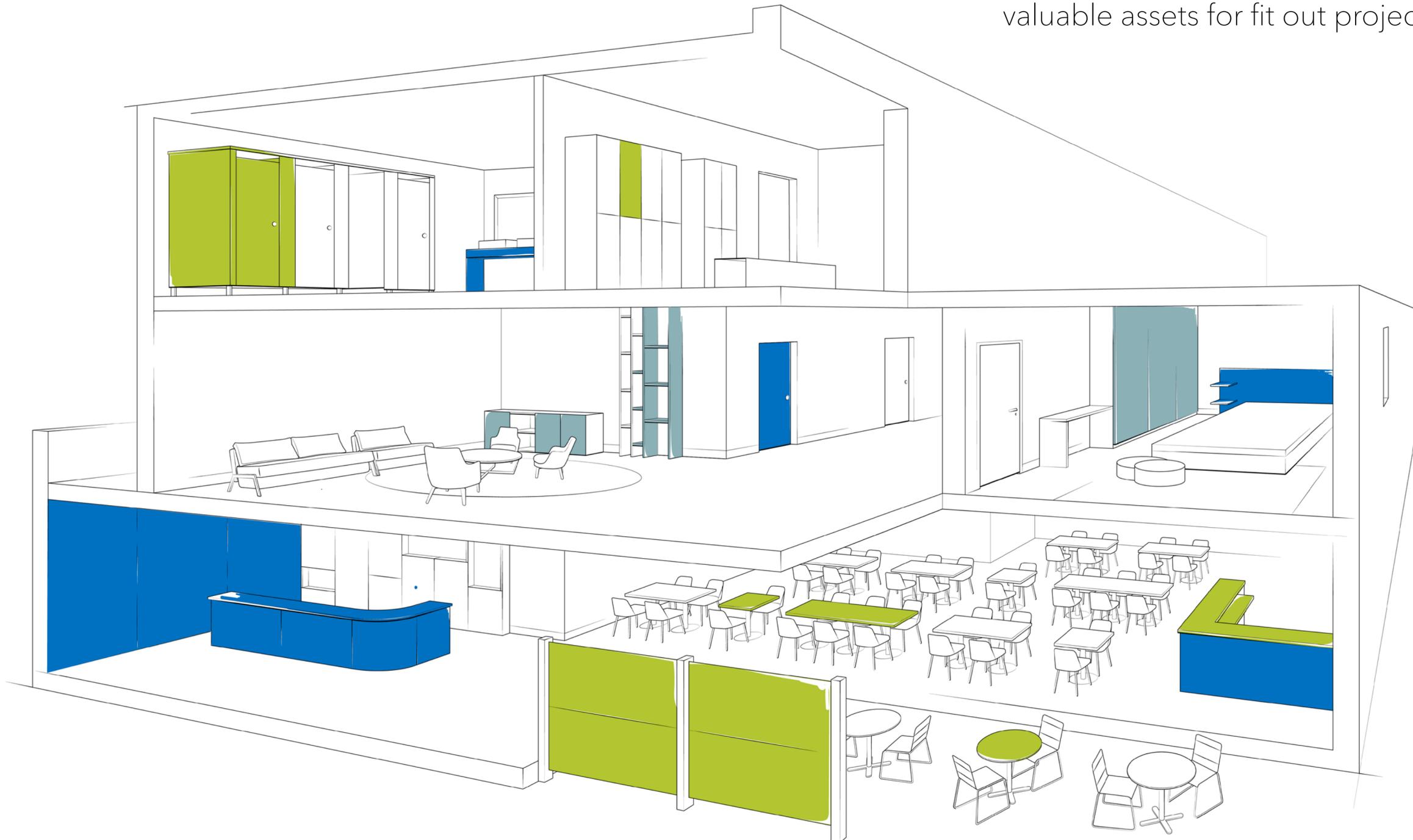
To help building professionals choose the materials they need every day, **POLYREY has developed a simple, complete solution.**

## Decorative and technical panels, valuable assets for fit out projects

Our decorative and technical panels are available in several product categories whose characteristics, features and applications are different yet complementary. They can be used for a wide range of applications like wall coverings and fit-outs, and come in a variety of shapes, including doors, lockers, countertops and worktops.

### Complementarity is the art of mixing and matching products within a single project.

Depending on how and where a product is installed, choosing the right one in the right place lends an overall harmony to the entire project. You can choose the same decor on High Pressure Laminate, Compact HPL and Melamine-Faced Board so that they complement each other and suit the space and its intended use.



HIGH PRESSURE  
LAMINATE



COMPACT  
HPL



MELAMINE-FACED  
BOARD



# Melamine-Faced Board

**Cost-effective panel**  
Ready to use

- 1 Paper decor + melamine resin
- 1 Substrate  
Chipboard, MDF (Medium Density Fibreboard), etc.  
Grade: fire retardant, moisture resistant, and more.

## 2 DECORATIVE SIDES

### LOW PRESSURE PROCESS

Bonded to the substrate under the combined effect of heat and low-pressure – no glue used.



# High Pressure Laminate

**Thin laminate panel**  
Cold-bendable and postformable

- 1 Protective overlay (optional, depends on decor) + melamine resin
- 1 Paper decor + melamine resin
- 3 Kraft sheets + phenolic resin

► Fire-retardant quality available

## 1 DECORATIVE SIDE

### HIGH PRESSURE POLYMERISATION

Lamination occurs under the combined effect of heat and high pressure.



Bonded to the substrate  
Chipboard, MDF (Medium Density Fibreboard), etc.  
Grade: fire retardant, moisture resistant, and more.

Finished product has 2 DECORATIVE SIDES



# Compact HPL

**Thick laminate panel**  
No edge covering required  
Machinable

- 1 Protective overlay (optional, depends on decor)
- 1 Paper decor + melamine resin
- 50\* Kraft sheets + phenolic resin

\* produces a compact panel that is 10 mm thick.

► Fire-retardant quality available

## 2 DECORATIVE SIDES

### HIGH PRESSURE POLYMERISATION

Lamination occurs under the combined effect of heat and high pressure.



### There are many types of kraft paper.

The one used to manufacture laminate panels is an industrial grade paper very different from the type used for making shopping bags, for example. What's more, the quality and thickness of the paper vary from one manufacturer to another. This can affect product performance.



### Melamine and phenolic resins have different properties.

Phenolic resin is what gives a product its mechanical properties. It is fairly flexible and brown coloured. Additives can be incorporated into it, for instance to make a product fire-retardant. Melamine resin is what gives a product its surface properties. It is hard and transparent. Various ingredients can be added to it – silver ions, for example, make the product antibacterial.

NB: These figures are based on the usual manufacturing process employed by Polyrey but are similar across all manufacturers. They apply to the main Polyrey product ranges. Other ranges may be manufactured using acrylic resin.

# High Pressure Laminate

Thin laminate panel  
Cold-bendable and postformable  
Bonded to a substrate

# Melamine-Faced Board

Cost-effective panel  
Ready to use

## Applications | The right product for the right application

### Stylish, hard-wearing and impact resistant

A hotel door with a High Pressure Laminate covering stands up to bumps and knocks from luggage.

### Resists stains, heat, wear, scratches and cleaning products

In the kitchen, grease and food stains wipe off easily thanks to the High Pressure Laminate's non-porous surface.

### Stylish, hard-wearing and impact resistant

High Pressure Laminate can stand up to the knocks in heavy traffic areas such as school corridors better than painted walls and adds a stylish touch through varied decors such as plain colour and wood finishes.

### Cold-bendable and postformable Resists impacts and wear

A High Pressure Laminate desk in a reception area can withstand the rubbing of bags and keys – all while remaining enduringly stylish.

High Pressure Laminate



DOORS

High Pressure Laminate



WORKTOPS  
SPLASHBACKS  
VANITY TOPS  
DESKS  
TABLES

Melamine-Faced Board



MOVABLE PARTITIONS

High Pressure Laminate



WALL COVERINGS

High Pressure Laminate



INTERIOR FITTING

Melamine-Faced Board

### Stylish and cost-effective

With movable partitions made of Melamine-Faced Board, you can create attractive separations between office workspaces at a very affordable price.

### Stylish and cost-effective

If furniture is for light use (shelves and drawers) or is changed regularly (for a new retail design), Melamine-Faced Board is an effective solution. Unlike High Pressure Laminate, Melamine-Faced Board is not postformable.

**?** These two products fall under different standards:

High Pressure Laminate must meet EN 438 and Melamine-Faced Board EN 14322.

For more information, please see the next section on the requirements of these two standards.

**+** For more information, please see the "Product Selection Guide".

## Performance

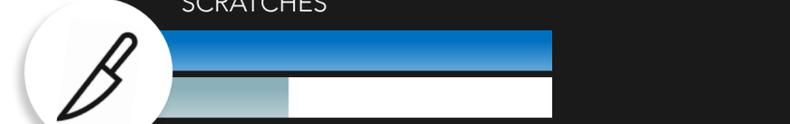
Performance level



### HEAT

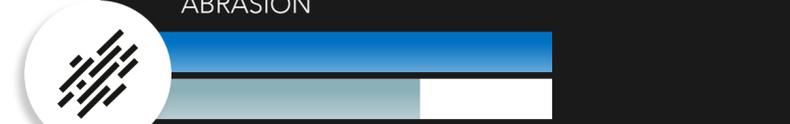


### SCRATCHES



**?** **Difference between scratches and abrasion**  
A scratch is caused by occasional, accidental contact with a sharp object, whereas wear (or abrasion) is caused by frequent rubbing.

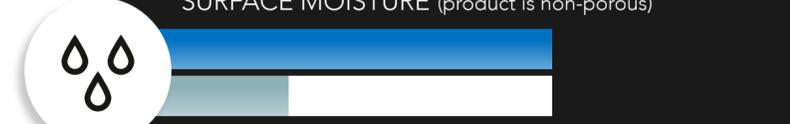
### ABRASION



### IMPACTS



### SURFACE MOISTURE (product is non-porous)



### STAINS



# High Pressure Laminate

Thin laminate panel  
Cold-bendable and postformable  
Bonded to a substrate

# Melamine-Faced Board

Cost-effective panel  
Ready to use

The standard that applies to Melamine-Faced Boards is less stringent than the one for High Pressure Laminate.

To learn more about the technical characteristics of our products, the table opposite allows you to compare at a glance the performance requirements of the two product standards.

**A knock to a Melamine-Faced Board**  
can damage the substrate and make the product more vulnerable to moisture and bacterial proliferation.

<b>HEAT</b>		Temperature and duration of contact necessary to deform or discolour the panel's surface.
<b>SCRATCHES</b>		Minimal force required for the tip of a diamond to scratch the panel (simulates knife scratches).
<b>ABRASION</b>		Minimum number of cycles required for a wheel covered in sandpaper to expose the underlying paper, indicating that the decor has been damaged (Taber Abraser test).
<b>IMPACTS</b>		Minimal height required for a 324 g ball of a diameter of 42.8 mm to make a mark at least 10 mm in diameter in the panel. The greater the height, the greater the impact resistance of the product.
<b>SURFACE MOISTURE</b> (product is non-porous)		Extent to which the panel's surface becomes deformed or discoloured after exposure to water vapour for 1 hour.
<b>STAINS</b>		Rating between 1 and 5 (5 being the best) of the appearance of the panel's surface after exposure to 3 separate groups* of staining agents. 16 hours of exposure to agents from groups 1 and 2 and 10 minutes of exposure to those from group 3.

## High Pressure Laminate STANDARD EN 438

## Melamine-Faced Board STANDARD EN 14322

<b>Above 160 °C - 20 min.</b>	<b>Not specified</b> The standard does not cover this point.
<b>4 newtons</b> (matt and glossy surfaces are less resistant: 2 newtons)	<b>1.5 newtons</b>
All decors: <b>150 cycles</b>	Plain-coloured decors: <b>150 cycles</b> Printed decors: <b>50 cycles</b>
<b>800 mm</b>	<b>500 mm</b>
<b>Class 3</b> Slight or moderate alteration	<b>Not specified</b> The standard does not cover this point.
<b>G1 &amp; G2 &amp; G3 = 5</b> No deterioration	<b>G1 &amp; G2 = 3</b> Slight deterioration acceptable <b>No resistance to G3 stains</b>

\* Groups 1 and 2 (G1 and G2) are stains by common foodstuffs and household products. Group 3 (G3) is stains by chemical and pharmaceutical products.

G1: Staining agents at room temperature, like acetone, toothpaste, hand cream, alcoholic drinks and fruit juice.

G2: Staining agents at around 80 °C or room temperature like coffee, tea, lipstick and nail varnish.

G3: caustic soda (25%), hydrogen peroxide (30%), bleaching agents and bathroom cleaners, Mercurochrome®.

# High Pressure Laminate

Thin laminate panel  
Cold-bendable and postformable  
Bonded to a substrate

# Compact HPL

Thick laminate panel  
without edge covering  
Machinable

## Applications | The right product for the right application

### Stylish, hard-wearing and impact resistant

A hotel door with a High Pressure Laminate covering stands up to bumps and knocks from luggage.

**High Pressure Laminate**



DOORS

### Resists stains, heat, wear, scratches and cleaning products

In the kitchen, grease and food stains wipe off easily thanks to the High Pressure Laminate's non-porous surface.

**High Pressure Laminate**



WORKTOPS  
SPLASHBACKS  
VANITY TOPS  
DESKS  
TABLES

**Compact HPL**

### Cold-bendable and postformable Resists impacts and wear

A High Pressure Laminate desk in a reception area can withstand the rubbing of bags and keys – all while remaining enduringly stylish.

**High Pressure Laminate**



INTERIOR FITTING

**Compact HPL**

### Stylish, hard-wearing and impact resistant

High Pressure Laminate can stand up to the knocks in heavy traffic areas such as school corridors better than painted walls and adds a stylish touch through varied decors such as plain colour and wood finishes.

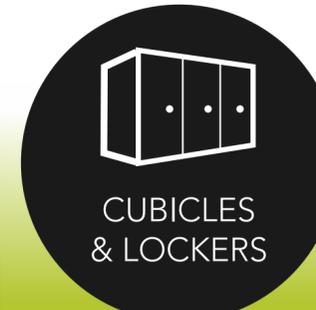
**High Pressure Laminate**



WALL COVERINGS

**Compact HPL**

**Compact HPL**



CUBICLES & LOCKERS

**Compact HPL**



OUTDOOR FURNITURE

### Better performance characteristics and more creative possibilities than High Pressure Laminate

#### Simple design, machinable and no need to cover the edges

For a stylish kitchen choose Compact HPL, which can be used to make thin worktops with undermount sinks and drainage grooves.

You can engrave Compact HPL headboards for an even more original, personalised design. Unlike High Pressure Laminate, Compact HPL is not postformable.

#### Even greater impact resistance

Thanks to Compact HPL, your walls will be more resistant to impact in highly exposed and heavy traffic areas such as an airport hall.

#### Rotproof, self-supporting (if thicker than 8 mm). Stands up to impacts and intensive cleaning.

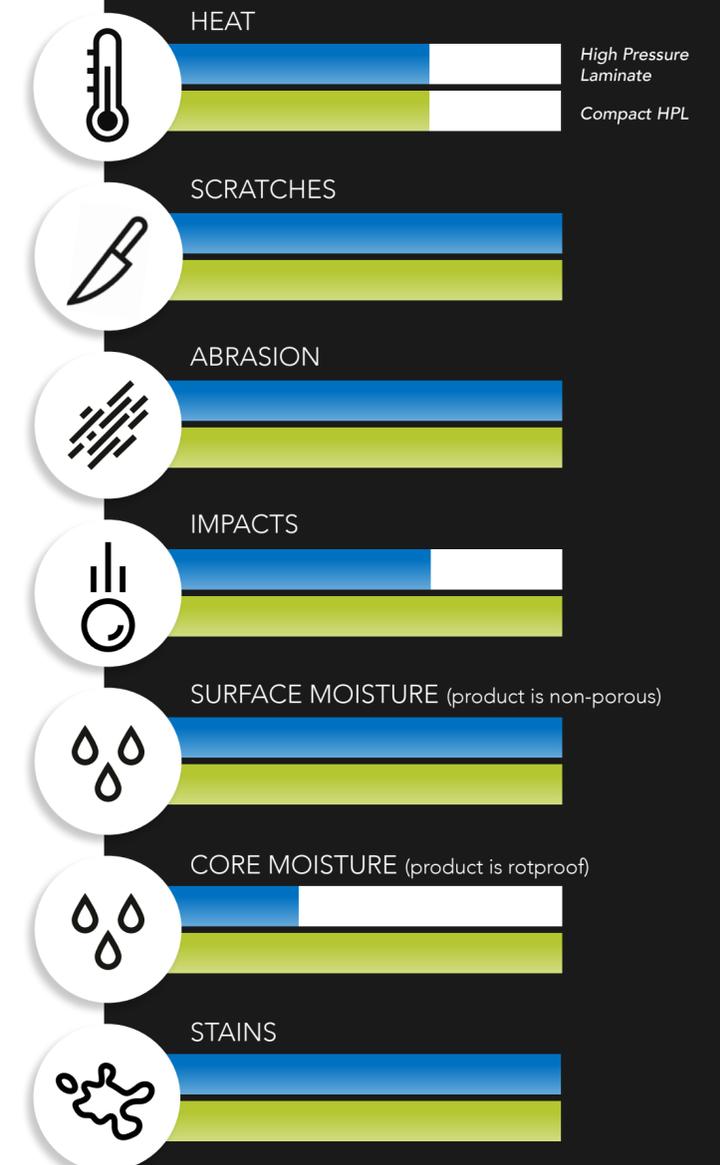
Swimming pool cubicles and lockers made of Compact HPL can withstand heavy use, moisture and pressure washing.

#### Rot, weather, frost and mould proof. Various raw edges available.

Compact HPL tables can be used indoors and outdoors in restaurants (depending on the decor).

## Performance

Performance level



# High Pressure Laminate

Thin laminate panel  
Cold-bendable and postformable  
Bonded to a substrate

# Compact HPL

Thick laminate panel  
without edge covering  
Machinable

The same standard applies to High Pressure Laminate and Compact HPL although additional testing is carried out on Compact HPL

To learn more about the technical characteristics of our products, the table opposite allows you to compare at a glance the performance requirements of each product standard.

<b>HEAT</b>		Temperature and duration of contact necessary to deform or discolour the panel's surface.
<b>SCRATCHES</b>		Minimal force required for the tip of a diamond to scratch the panel (simulates knife scratches).
<b>ABRASION</b>		Minimum number of cycles required for a wheel covered in sandpaper to expose the underlying paper, indicating that the decor has been damaged (Taber Abraser test).
<b>IMPACTS</b>		Minimal height required for a 324 g ball of a diameter of 42.8 mm to make a mark at least 10 mm in diameter in the panel. The greater the height, the greater the impact resistance of the product.
<b>SURFACE MOISTURE</b> <small>(product is non-porous)</small>		Extent to which the panel's surface becomes deformed or discoloured after exposure to water vapour for 1 hour.
<b>CORE MOISTURE</b> <small>(product is rotproof)</small>		Percentage by which the thickness and overall size of the core increase on contact with water (also known as water absorption).
<b>STAINS</b>		Rating between 1 and 5 (5 being the best) of the appearance of the panel's surface after exposure to 3 separate groups* of staining agents. 16 hours of exposure to agents from groups 1 and 2 and 10 minutes of exposure to those from group 3.

## High Pressure Laminate STANDARD EN 438

<b>Above 160 °C - 20 min.</b>
<b>4 newtons</b> <small>(matt and glossy surfaces are less resistant: 2 newtons)</small>
<b>All decors: 150 cycles</b>
<b>800 mm</b>
<b>Class 3</b> <small>Slight or moderate alteration</small>
<b>≤ 15%</b> <small>(High Pressure Laminate bonded to a wooden substrate)</small>
<b>G1 &amp; G2 &amp; G3 = 5</b> <small>No deterioration</small>

## Compact HPL STANDARD EN 438

<b>Above 160 °C - 20 min.</b>
<b>4 newtons</b> <small>(matt and glossy surfaces are less resistant: 2 newtons)</small>
<b>All decors: 150 cycles</b>
<b>≥ 1800 mm</b> <small>From 6 mm.</small>
<b>Class 3</b> <small>Slight or moderate alteration</small>
<b>≤ 2%</b>
<b>G1 &amp; G2 &amp; G3 = 5</b> <small>No deterioration</small>

\* Groups 1 and 2 (G1 and G2) are stains by common foodstuffs and household products. Group 3 (G3) is stains by chemical and pharmaceutical products.  
**G1:** Staining agents at room temperature, like acetone, toothpaste, hand cream, alcoholic drinks and fruit juice.  
**G2:** Staining agents at around 80 °C or room temperature, like coffee, tea, lipstick and nail varnish.  
**G3:** Caustic soda (25%), hydrogen peroxide (30%), bleaching agents and bathroom cleaners, Mercurochrome®.

# So what's so great about High Pressure Laminate?

Want something that's decorative and resistant?  
High Pressure Laminate offers multiple advantages,  
making it indispensable to any interior design project.

## RESISTANCE

## Resistant Durable Dependable

- **With its long-lasting resistance**, it can stand up to many a challenge, including impacts, abrasion, scratches, heat, and stains by everyday and chemical products.
- Available in standard and fire-retardant grade.
- High Pressure Laminate is also available with added features, like anti-fingerprint technology, enhanced resistance to heat and wear, or reinforced resistance to laboratory chemicals.
- Laminate is suitable for the regulatory requirements (fire, food contact...) of the miscellaneous sectors : Marine, Railway, Healthcare, Public buildings...



## DESIGN

## A host of design possibilities

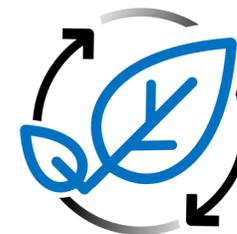
- A **wide range of decors**, such as plain colours, wood, stone, motifs, metal and personalised designs.
- Finishes that lend **texture and authenticity** to the material without a "plastic feel".
- A cutting-edge paper printing process that produces highly realistic decors.
- A range of finishes from glossy to extra matt for varying levels of light and reflection.
- **Enhanced complementarity** with Melamine-Faced Board and Compact HPL mean that you can showcase the same decor across different applications.
- **Easy to adapt**, with curved lines, rounded corners and more.
- **Great scope for innovation**, with technological advances making it possible to create new decors and stay on-trend.

## WELL-BEING

# 0%

Heavy metals,  
carcinogens,  
solvent-based inks,  
nickel, pentachlorophenol,  
urea-formaldehyde

- Low to very low volatile organic compound (VOC) emissions.
- Large-size panels with no joints, which is where bacteria and mould like to hide.
- **Food safe.**

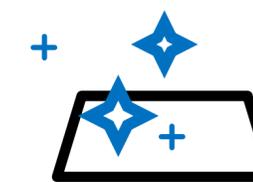


## ENVIRONMENT

- Used for **energy recovery**.
- Does not require any toxic treatments against insect or fungal attack.

## Paper is the raw material

- Raw material mostly obtained from **sustainably managed forests**.
- Contributes to preserving natural resources like exotic timber and rare metals by providing highly realistic alternatives.



## CARE AND MAINTENANCE

## Non-porous, easy to clean

- Does not require any **treatment or restoration products**, as may be the case with natural materials like wood.
- Unaltered by disinfection protocols.
- Some high pressure laminates possess **antibacterial surface properties** which eliminate bacteria throughout the product's lifespan.

# So what's so great about High Pressure Laminate?

High Pressure Laminate is one of the most innovative surfaces on the market. It provides an almost lifelike alternative to natural materials like stone and wood but is more affordable, easier to maintain and more resistant. It is also adapted for green building certifications. It is one of the most widely used surfacing materials out there. Its properties make it fit an array of applications and types of buildings, including doors, worktops and interior design in hotels, retail, healthcare and many more. Its uses are endless!

What the experts say



**Mathilde LANGLOIS**  
Hospitality Studio/Best Western

### So what's so great about High Pressure Laminate?

The material is long-lasting and easy to care for. It's durable and easy to use day-to-day.

### What are the advantages of High Pressure Laminate compared with other materials?

For us, the quality of the design is a must. It's High Pressure Laminate that differentiates our 3\* hotels from what we call our Premier, more high-end, establishments. All our Best Western Premier hotels are fitted out with High Pressure Laminate – that really is essential for us.

### Why would you recommend High Pressure Laminate?

Because with High Pressure Laminate, our interiors and exteriors are guaranteed to be solid and to stand the test of time.

### What are the advantages of POLYREY HPL® compared with other laminates?

POLYREY has a wider range of products and their quality never lets us down.

### Why would you recommend POLYREY HPL® to one of your clients?

Mostly for the availability of their products, for the company's high-end reputation, and for the quality of service.

Easy to maintain **Stylish**  
Eco-aware **High-quality**  
**Resistant** High-end  
**Practical** **Durable**

**Employee**  
Lagardère Travel Retail

### So what's so great about High Pressure Laminate?

With High Pressure Laminate, you get an attractive, diverse range of decorative solutions. The product is resistant, easy to maintain and easy to install.

### What are the advantages of High Pressure Laminate compared with other materials?

Its resistance, I'd say, more than anything. That's a real plus when you want to choose something that lasts, that's eco-aware and affordable.

### What are the advantages of POLYREY HPL® compared with other laminates?

Polyrey carries a wide and diverse range of decorative solutions. I like working with a French company whose products are readily available.



### Difference between HPL and CPL

Laminate panels can be either high pressure laminate (HPL) or continuous pressure laminate (CPL). The two products are different. CPL is pressed for a few seconds at 55 kg/cm<sup>2</sup> whereas HPL is pressed for 40 minutes at 75 kg/cm<sup>2</sup>. It is this polymerisation under the effect of heat and pressure that gives the panel its surface finish, be it glossy, matt, wood grain or granite. These differences in the manufacturing process are what lend HPL a deeper finish and the very best in stylish results.

**Albert VITALLER**  
Arquitectura SLP

### So what's so great about High Pressure Laminate?

High Pressure Laminate has three major plus points: there are a host of design possibilities, it is easy to clean and maintain, and it lasts longer than other materials.

### Why would you recommend High Pressure Laminate?

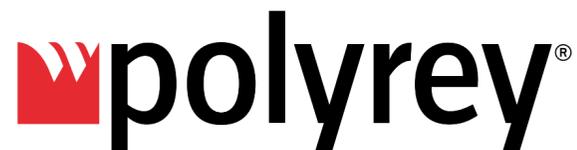
Because it's hard-wearing, and because of the design quality that it lends to modern, high-end interior design projects.

### What are the advantages of POLYREY HPL® compared with other laminates?

The range of products that Polyrey carry is what sets them apart.

### Why would you recommend POLYREY HPL® to one of your clients?

For the reasons just mentioned as well as for the quality of service. There really is no doubt that the support, advice and availability of the personnel make for a fruitful collaboration.

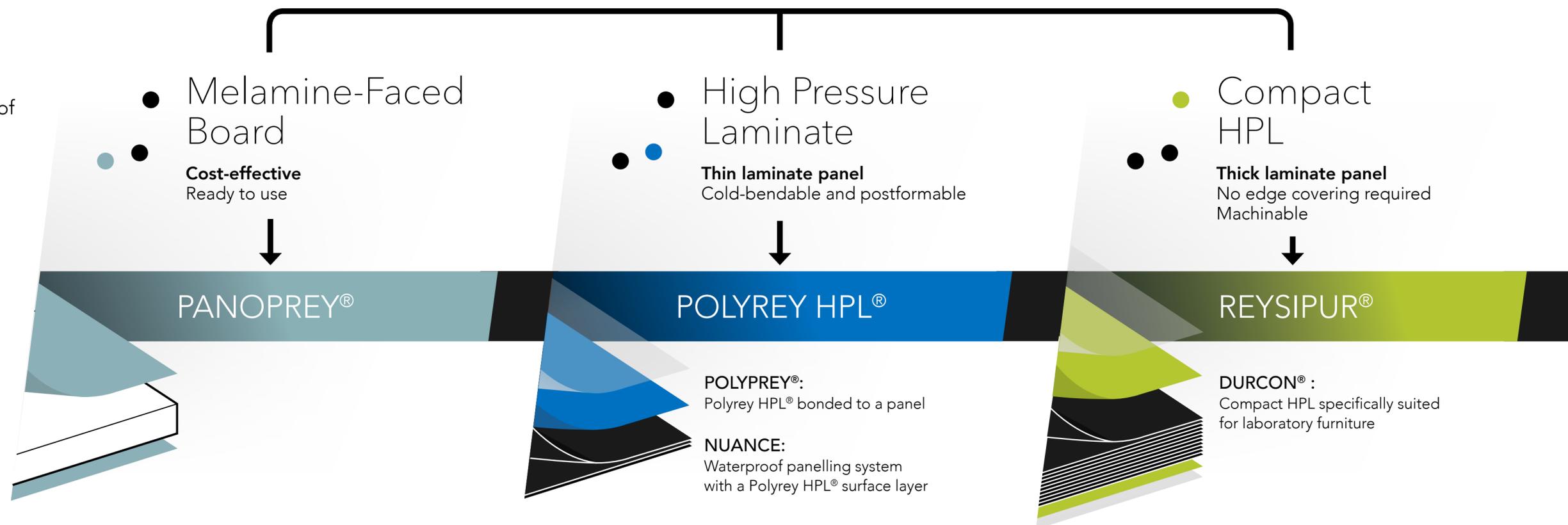


A WILSONART COMPANY

A manufacturer of decorative and technical surfaces

## THE POLYREY SOLUTION

As a specialist in the sector for more than 60 years, Polyrey carries an extensive range of products in each of the three products presented in this document.



### SANITIZED® ANTIBACTERIAL TREATMENT

All Polyrey products feature a **Sanitized® antibacterial treatment** that **slows the proliferation of 99.9% of bacteria.** The Sanitized® treatment contains a biocide with an active substance called phosphate glass. This substance does not fall under REACH restrictions. Polyrey ensures that its suppliers use no dangerous substances.

Use the **SELECTION GUIDE** presented in the following pages to select at a glance the most suitable product for a given application, find out about the decors it is available in, and check its resistance properties, any labels it carries, and details on installing it.



# Product Selection Guide

Think you always specify the right material for your clients? Check the table to find out!

This table is a guide that will make your projects easier by giving you a quick and easy way of selecting the right product for the right application based on the features and characteristics required. Certain details may vary depending on the product finish and substrate used.

		APPLICATIONS						
		DOORS	CUBICLES & LOCKERS	WALL COVERINGS		Moderate use	INTERIOR FITTING	
							Moderate use	Heavy use
<b>RECOMMENDED PRODUCT</b>		<b>High Pressure Laminate</b> bonded to a substrate	<b>Compact HPL</b>	<b>High Pressure Laminate</b> bonded to a substrate	<b>Compact HPL</b>	<b>Melamine-Faced Board</b>	<b>High Pressure Laminate</b> bonded to a substrate	<b>Compact HPL</b>
POLYREY RANGES		POLYREY HPL®	REYSIPUR®	POLYREY HPL® POLYPREY®	REYSIPUR®	PANOPREY®	POLYREY HPL® POLYPREY®	REYSIPUR®
DESIGN	Decors	100	70 / 52 (UK)	292	272	188	292	272
	Finishes (surface appearance)	5	4 / 5 (UK)	17	6	8	17	6
	Decor library on website	yes	yes	yes	yes	no	yes	yes
	Fully customisable - your creations	yes	yes	yes	yes	no	yes	yes
RESISTANCE	Impact							
	Scratches							
	Abrasion							
	Heat							
	Surface moisture (product is non-porous)							
	Core moisture (product is rotproof)							
	Common stains							
Chemicals								
Fire (fire-retardant grade)	B-s2,d0	B-s1,d0	B-s2,d0	B-s1,d0	B-s2,d0 / M2 (standard grade)	B-s2,d0	B-s1,d0	
HYGIENE & WELL-BEING	Food safe					yes	yes	yes
	Easy to maintain							
	Antibacterial at no extra charge	yes	yes	yes	yes	yes	yes	yes
	Sound insulation			54 dB (1)	54 dB (1)			
ENVIRONMENT & HEALTH	VOC emissions (France)	A+	A	A	A	A+	A	A
	VOC emissions (international)	Greenguard Gold	Greenguard Gold	Greenguard Gold	Greenguard Gold		Greenguard Gold	Greenguard Gold
	Formaldehyde emissions	E1	E1	E1	E1	E1 (4)	E1	E1
	Dismountable							
	Circular (2)							
Lifespan (3)								
INSTALLATION	Postformable		no	yes	no	no	yes	no
	Cold-bendable		yes if ≤ 8 mm	yes	yes if ≤ 8 mm	no	yes	yes if ≤ 8 mm
	Machinable		yes	no, except on specific substrates	yes	no, except on black MDF	no, except on specific substrates	yes
	Easy to process							
	Fastener pull-through resistance							
	Edge covering		Requires no edging	Matching edging	Requires no edging	Matching edging	Matching edging	Requires no edging
	Accessories			Edging available from our partners. Please contact us.		Edging available from our partners. Please contact us.	Edging available from our partners. Please contact us.	
	Self-supporting		≥ 8 mm	If substrate ≥ 16 mm	≥ 8 mm	≥ 16 mm	If substrate ≥ 16 mm	≥ 8 mm

**Performance levels:**



- (1) Polyrey recommends an installation method for wall coverings that achieves acoustic insulation of up to 54 dB. Contact us.
- (2) Reuse, recycling and energy recovery, either under French national schemes or through specific POLYREY initiatives.
- (3) Depends on whether it is installed and used as recommended.
- (4) Equivalent to E0.5 industry rating.

**NB :** This data relates to the main ranges of Polyrey. Please contact us to get more details and specific information for your project.

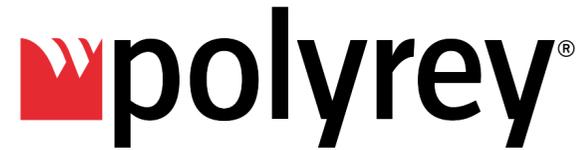


		APPLICATIONS					
		MOVABLE PARTITIONS	WORKTOPS, SPLASHBACKS, VANITY TOPS, TABLES & DESKS	OUTDOOR FURNITURE	LABORATORY FURNITURE	WETROOM WALL PANEL	
<b>RECOMMENDED PRODUCT</b>		Melamine-Faced Board	High Pressure Laminate bonded to a substrate	Compact HPL	Compact HPL	Compact HPL	Waterproof panelling system with a HPL surface layer
POLYREY RANGES		PANOPREY®	POLYREY HPL® POLYPREY®	REYSIPUR®	REYSIPUR®	DURCON®	NUANCE®
DESIGN	Decors	188	292	272	33	3	33
	Finishes (surface appearance)	8	17	6	3	1	6
	Decor library on website	no	yes	yes	no	no	no
	Fully customisable - your creations	no	yes	yes	no	no	no
RESISTANCE	Impacts						
	Scratches						
	Abrasion			(1)			
	Heat			(1)			
	Surface moisture (product is non-porous)						
	Core moisture (product is rotproof)						
	Common stains						
	Chemicals						
Fire (fire-retardant grade)	B-s2,d0 / M2 (standard grade)	B-s2,d0	B-s1,d0	B-s1,d0	B-s1,d0	E / M3	
Exposure to the elements							
HYGIENE & WELL-BEING	Food safe		yes	yes	yes		
	Easy to maintain						
	Antibacterial at no extra charge	yes	yes	yes	yes	yes	yes
	Sound insulation						
ENVIRONMENT & HEALTH	VOC emissions (France)	A+	A	A	A	A	A
	VOC emissions (international)		Greenguard Gold	Greenguard Gold	Greenguard Gold	A	A
	Formaldehyde emissions	E1 (4)	E1	E1	E1	E1	
	Dismountable						
	Circular (2)						
Lifespan (3)							
INSTALLATION	Postformable	no	yes	no	no	no	no
	Cold-bendable	no	yes	yes if ≤ 8 mm	yes if ≤ 8 mm	yes if ≤ 6 mm	no
	Machinable	no, except on black MDF	no, except on specific substrates	yes	yes	yes	no
	Easy to process						
	Fastener pull-through resistance						
	Tongue and groove assembly						yes
	Edge covering	Matching edging	Matching edging	Requires no edging	Requires no edging	Requires no edging	Rounded edges
	Accessories	Edging available from our partners. Please contact us.	Edging available from our partners. Please contact us.				Adhesive - Sealant
Self-supporting	≥ 16 mm	If substrate ≥ 16 mm	≥ 8 mm	≥ 8 mm	≥ 8 mm		

Performance levels:



- (1) Some Compact HPLs are more resistant to wear and heat, reaching 400 cycles/min. on the Taber Abraser test and 210 °C as against 160 °C in the product standard. Contact us for more information about our REYSITOP® range.
- (2) Reuse, recycling and energy recovery, either under French national schemes or through specific POLYREY initiatives.
- (3) Depends on whether it is installed and used as recommended.
- (4) Equivalent to E0.5 industry rating.



A WILSONART COMPANY

## +655

personnel in Europe and around the world, including 60 sales representatives. Get a prompt quotation whenever you need one.

We appoint a dedicated contact person for you who speaks your language and who understands any needs specific to your country.

### The power of the Wilsonart Group

Technologies and production facilities dedicated to ensuring the best decorative and technical solutions, including high pressure laminate, melamine-faced board, worktops, quartz and waterproof panel system.

New products developed by an integrated European R&D unit.

A manufacturer of decorative and technical surfaces

**Only European manufacturer that makes its own resin.**

For 10 years now, all our products feature the **Sanitized® antibacterial treatment at no extra charge.**

Products are highly complementary with each other, meaning that you can create ever more elaborate designs.



## INSPIRING

We partner with experts to develop innovative, technical solutions and decorative ranges that are in keeping with current and upcoming trends.

**+300** decors  
**+17** finishes

## RELIABLE

A know-how that stretches back over 60 years ensures that our products and services are of the highest quality. Our customers recommend our products because of their quality and technical dependability.

**96%** customer satisfaction  
Survey conducted in 2019

## SUSTAINABLE

Day in, day out, we are committed to reducing waste and energy use. Our experts can advise you on achieving credits under building certifications like HQE, BREEAM and LEEDS.

# Our services

As part of our Customer Service Charter, we constantly strive to improve our service to you.

Polyrey is by your side at every stage of your project to ensure it succeeds and to save you time. Polyrey may be renowned for its product expertise, but we are also committed to the quality of our services.

## Customer Service Charter

Because your business requires a prompt professional response, Polyrey undertakes to:

**24 hrs**

Dispatch your sample the very same day.

**2 hrs**

Answer your technical questions within 2 hours\*.

**45 min.**

Satisfy your customer service requests within 45 minutes\*.

*If the question is unusual, or if your request presents a certain complexity, we will set a deadline for getting back to you.*



### Polyrey is by your side every step of the way

## MY EXPERT





# Polyrey's environmental commitments

Day by day, every facet of our commitment grows stronger through the dedication of our staff.



At every step of our production processes, we remain aware of our environmental responsibility and we are committed to a cleaner world that is more respectful of people and the environment. By fully managing product flows, using clean, sustainable products that meet the most stringent building certifications and implementing a rational, proactive approach, we control our impact on the planet. Our ambition is to achieve ever greater transparency vis-a-vis our customers and users.



SMARTER PRODUCTION



SMARTER CONSUMPTION



SMARTER WASTE MANAGEMENT





## Polyrey's environmental commitments

### WASTE MINIMISATION

#### Minimise offcuts

Panel sizes adapted to applications.

### DISMOUNTABLE

## 0 additional waste

generated when dismantled.

### ENERGY RECOVERY

#### Energy can be recovered

by incinerating the panels.

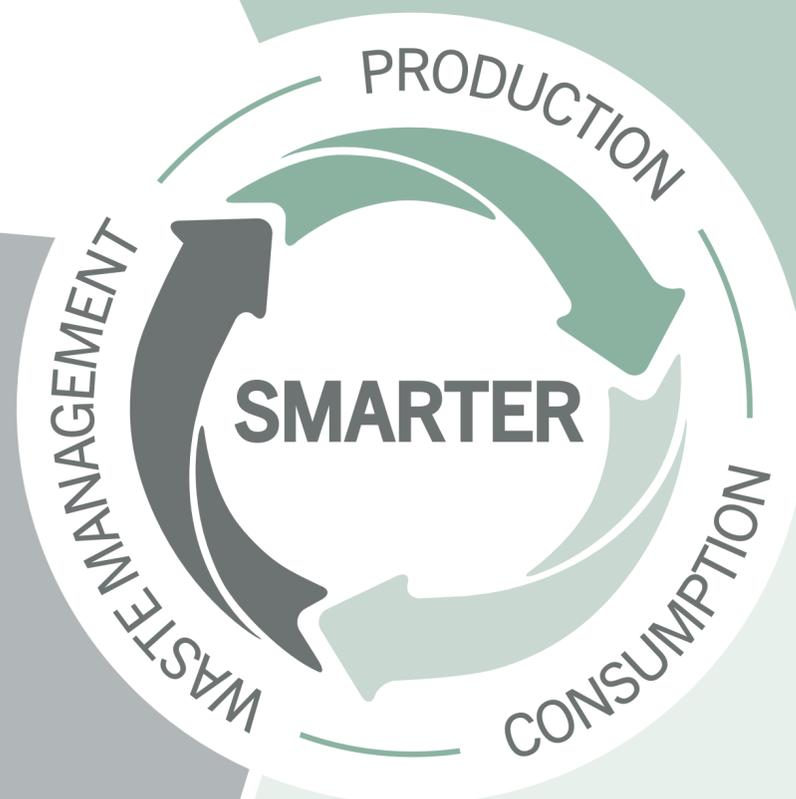
Calorific value:

High Pressure Laminate/Compact HPL: 4300 to 4800 kcal/kg

Melamine-Faced Board: 4000 kcal/kg

#### Panels can be recycled

under the French national chipboard recycling scheme.



### RENEWABLE RESOURCES

**65%** of High Pressure Laminate made with paper.

**100%**

All our products can be either **PEFC™** (PEFC/10-34-97) or **FSC®** (C068151) certified on request.\*

\* Depending on the certification of our suppliers, while stocks last.

**68%** of our customers receive electronic invoices instead of paper ones.

Deletion of the plastic cover that used to pack most of our Compact HPL panels to replace it with cellular panels.

These panels contain up to **60%** of recycled materials.

### RECYCLED MATERIALS

**20%** of kraft paper is recycled post-consumer into High Pressure Laminate.

### ENERGY CONSUMPTION

**17%** of our energy is produced from a waste incinerator.

We have saved **37%** in lighting consumption by switching to LEDs.

### CO<sub>2</sub> EMISSIONS

**-30%** in CO<sub>2</sub> emissions in 4 years

### LOCAL SUPPLIERS

**50%** of our unfinished panels are manufactured in France.\*\*

80% of our transport pallets are sourced from a local supplier situated only **12 km** from the factory.

\*\* subject to availability through our partner suppliers

### WASTE RECOVERY

**7%** of waste utilised in other industries such as paper, cardboard and plastic.

### THE NATURAL ENVIRONMENT

**€1m** investment in VOC oxidiser.

**-98%** reduction in water withdrawn from the natural environment. (Thanks to closed-circuit cooling of machines).

**Reduction of 4 decibels** thanks to noise barriers and soundproofing boxes.

### MANAGEMENT SYSTEMS

**ISO 9001** (quality)  
**ISO 14001** (environment)  
**ISO 50001** (energy)

### IMPACT ON LOCAL EMPLOYMENT

## 2 factories

in France.  
Other sites internationally, including in the UK and Germany.

### ADAPTED TO LEED, HQE and BREEAM BUILDING CERTIFICATIONS

Documentation on credits achieved available on request.

## Inert materials :

Chemical substance\*\* content below regulatory thresholds and compliant with REACH, BPR and Cradle to Cradle banned substances lists.

### AIR QUALITY

**E1**

formaldehyde emissions based on EN 16516 and EN 717-1 (equates to E0.5 under EN 717-1).

Our products have the Greenguard or Greenguard Gold label and rated A or A+.

### LIFESPAN

**Lasts up to 50 years.**

**Can be reused** through local schemes.

**EPD**

LIFE-CYCLE ANALYSIS

**100%**

verified by an independent body and available on the French INIES database.

### SURFACE HYGIENE

**All products feature the Sanitized®\* surface treatment. 99.9%** of bacteria destroyed throughout the material's lifespan.

\* Except Pur Metal, Touch and Durcon ranges.

\*\* Free from heavy metals, halogenated products (containing chlorine, fluorine, bromine), nickel, added urea formaldehyde, solvent-based ink, PAK/PAH (polycyclic aromatic hydrocarbon due to wood preservative).

THE  
RIGHT SURFACE  
SOLUTION

 polyrey®

A WILSONART COMPANY