

Contact us

More to offer

Polyrey does not only offer you a service, it also represents a different approach to project support involving everybody in our company to offer you the best of our technical and design knowledge.

- **Our customer service** ensures you receive daily support via telephone or e-mail.
- **Our website** for the latest Polyrey product information: www.polyrey.com
- **Our unique Express Sample Service** If you need a quick response from us on a project, contact us. Samples requested before 3pm will be dispatched on the same day.

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**samples
express
information**

www.polyrey.com



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Melamine Faced Plasterboard Rey Solutions

Partitions and wall linings
innovative **time-saving** design



B-s1, d0



Decorative



Complementary
products



Acoustic



Quick, easy and durable...

Quicker and easier to work with than Chipboard or MDF:

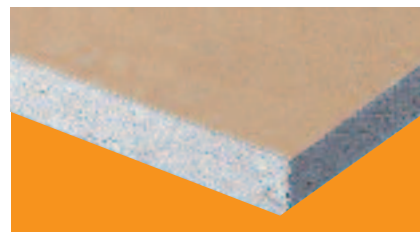
- **Quiet to cut and optimise**
Rey Solutions can be cut without noise or dust using a simple blade.
- **Simplified edge treatment**
The cut edge is easily planed smooth for fitting purposes.
- **Tested to Euroclass Standards**
Rey Solutions benefits from Euroclass B-s1, d0 certification - simplifying conformance, performance and specification requirements.



Clean and easy to cut

Faster and more durable than vinyl or PVC faced plasterboard:

- **No surface tears**
Our melamine surface technology achieves a higher surface resistance than PVC & Vinyl.
- **Reduce time spent on site**
Thanks to its non-porous and smooth surface, melamine does not attract dust and is very easy and quick to clean using a simple cloth.
- **No emission of toxic gases**
Rey Solutions, unlike PVC, will not emit toxic substances in the case of fire.
- **No transfer of toxic substances**
Rey Solutions, unlike PVC contains no phtalates (plasticizers) which can be passed on by touch.
- **High quality gypsum core**
The density of Rey Solutions (average 770kg/m³) ensures superior acoustic performance when compared with other product types.



A safe and environmentally friendly product



A comfortable working space

Fire Classification

The **Euroclass B-s1, d0** classification, together with a low calorific value ensures that Rey Solutions will meet and exceed many regulatory requirements **including public areas**.

Public protection:



In the event of a fire, Rey Solutions will not produce any **flaming droplets**. In addition, due to the inherent nature of the product, it doesn't participate to fire propagation. **No black smoke or toxic gases** are produced whilst burning.



Aesthetic and practical...

Decorative...



- **As visually stunning as melamine faced chipboard or MDF**
Our Rey Solutions surface finish is as impressive as any other melamine faced panel product on the market. The unique plaster board core gives the product a truly smooth modern surface finish.
- **A wide decor range**
12 Fast Track decors from stock with a further 30 additional decors available to order.
- **Polyrey's complementary products offer**
Polyrey's "complementary products" portfolio offers your client total freedom with the ability to match decors from other product groups such as HPL (High Pressure Laminate) for every area within the design (Doors, Furniture, Ceilings).
- **High-end visual appeal**
Rey Solutions creates an attractive, cost effective high-end environment with the use of contemporary decors.

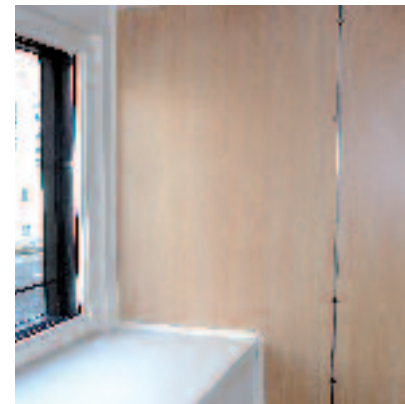


Coordinated partitions, doors and furniture

...practical...



- **Easier maintenance**
The melamine surface of Rey Solutions is less granular than a PVC panel for example. This ensures you have an easy to maintain product on a day-to-day basis, even when using solvent-based cleaners. The surface will not deteriorate and cannot be torn like vinyl or PVC (for example by removing cello tape).
- **Excellent acoustic noise reduction**
The density of Rey Solutions will obtain a reduction in sound dampening between rooms (RW+C*) of 2Db compared to an equivalent chipboard panel. A modular partition built with Rey Solutions will give an acoustic attenuation of 40Db+ depending on the system composition.
A normal conversation which is in the region of 60-70 Db is reduced to the level of whispering.



Easy maintenance

...and durable of course



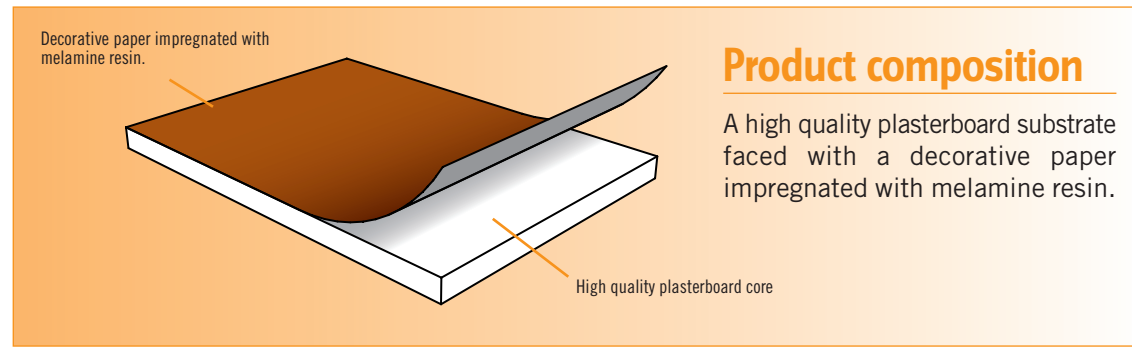
- **Stain resistant**
Our melamine surface will resist stains from coffee, felt-tip pen, etc... which maintains an easy to clean surface.
- **Impact resistant**
The quality and density of the gypsum core together with the abrasion resistance of the melamine surface gave excellent results when tested with a 500g ball under impact tests.
- **Performance designed**
Excellent artificial light resistance, scratching and abrasion (20 times better performance than PVC for example) ensures the visual aspect will change very little over time, ideal for offices and classrooms.

RW+C*: Coefficient in decibels of acoustic reduction. It represents the level of noise reduction achieved by a material.

An innovative product

Discover our unique melamine faced plasterboard

Rey Solutions is a patented product which incorporates all the **advantages** of a **plasterboard** core and our **melamine** surface technology. Rey Solutions presents you with an economical, environmentally friendly, acoustic, fire resistant, recyclable, and decorative solution from just one panel without the need for further fabrication. Rey Solutions - **a breakthrough for partitions, walls and ceiling tiles.**



Rey Solutions - Partition & wall linings product offer:	
Sheet Size	3000 x 1200mm (in stock) 2600 x 1200mm (short lead-time)
Thickness	12.5mm
Finish	FA - slightly textured
Fixing	Suitable for all types of frames & profiles
Fire classification	Euroclass B-s1, d0
Decors	12 decors in stock from the express range 30 additional decors available on request



The ideal cost effective specification

<p>Safe</p> <p>Fire retardant</p> <p>No toxic emissions</p> <p>No flaming droplets</p>	<p>Eye catching Designs</p> <p>Highly decorative finishes</p>	<p>Product harmony</p> <p>Complementarity with other Polyrey products</p>	<p>Noise reducing</p> <p>High Acoustic properties</p>
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Technical characteristics



Surface characteristics

The surface characteristics are Rey Solutions strength.

The melamine surface gives the product excellent stain and chemical resistance far superior than that of PVC or foil for example. The surface will show less dirt and is easy to clean even with solvent based products (felt-tip pen marks for example can be removed with acetone).

Abrasion and scratch resistance is also much higher than that of PVC or foil - in fact identical to our melamine faced chipboard.

Formaldehyde level:
Emission measured applies to the NF EN 717-2 : 1995 standard.
Value of material gas analysis: 0.76 mg/m2/h
Test report FCBA no FR-68/07/055

* Plasterboard is developed to be used in an environment less than 45°C. Tests conducted apply to the EN 14323 standard at a temperature of 40°C.

(1) Capillary scratches spread over the whole surface.

(2) Moderate change in aspect and/or colour.

(3) ≥ 350 revolutions.

(4) < 150 revolutions.

Melamine faced plasterboard

Characteristics	Grade		
	Standard	Standard	
	Thickness	12,5 mm	
Thickness tolerance	P72-302	mm	+ 0,5 / - 1
Tolerance On length and width Squareness	P72-302	mm mm/m	+ 0/ - 5 ≤ 3
Surface defects Spots Linear	EN 14323*	mm ² /m ² mm/m	≤ 2 ≤ 20
Resistance to surface wear	EN 14323*	Class	Plain colours : 3A ⁽³⁾ Patterns : 1 ⁽⁴⁾
Resistance to cracking	EN 14323*	Class	3 ⁽¹⁾
Scratch resistance	EN 14323*	N	Average 1,5
Impact resistance (500g ball) Height of fall Diameter of imprint	P72-302	cm mm	50 ≤ 20
Stain resistance	EN 14323*	Class	3 ⁽²⁾
Edge defects	EN 14323*	mm	≤ 10
Colour fastness under artificial light	EN 14323*	Blue wool sample Grey Scale	> 6 4 à 5
Euroclass fire classification	EN 18323	Class	B-s1, d0
Calorific value	ISO 1716	MJ/m ²	10.72**
Density	P72-302	Kg/m ³	770 (-20 +20)
Bending resistance	EN 520	daN	on Length : 90 on width : 22

Technical information

Thermal conductivity
Plasterboard: $\lambda = 0,25 \text{ W/m.K}$

Fire properties
Euroclass B-s1, d0



Express range

Ex-stock for immediate delivery



12 express decors cover common everyday requirements and design driven applications:

- Sheet Size 3000x1200mm in stock.
- Sheet Size 2600x1200mm within a short lead-time.

30 additional decors available on request.

Please contact us for lead-times and minimum order quantity.



Decorative harmony

All Rey Solutions Partitions are available in **HPL door sheet size** (2150x970mm).

6 decors from the partitions express range exist within our **Rey Solutions Ceilings** offer for more creative freedom.

Rey Solutions decors are available in HPL, Panoprey, and Compact grade products to easily create a matching or contrasting environment with partitions, walls, doors and furniture.



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Installation guide

Tools required

- Blade
- Hand plane
- Straight edge
- Protective gloves
- Suction pads
- Dry soft cloth

Panel Storage

- Boards are delivered decor face up with the bottom panel protected by a base board.
- The pallet is protected by a dust sheet which must be kept in place during stock holding or whilst on site.
- Panels should always be stored in a dry and stable environment.

On site

Transport and handling of the panels

- Lift boards individually (to avoid scratching the melamine surface, do not slide one panel against another) **(1)**.
- Carry the panel by its edge (lift and turn the panel) **(2)**.

Cutting and fixing

The rigidity of the plasterboard is enhanced by the melamine surface. As a result, the following fixing methods are recommended

→ Fixed profile

- 1) Do not flex the plasterboard panel.
- 2) Panel should be trimmed to suit frame width and height.
- 3) Score the decor face using a blade and a straight edge then apply pressure to the off-cut and finally cut through backing paper **(3)**.
- 4) The cut edge can then be finished with a hand plane.
- 5) Insert a half-height wedge into the bottom profile **(4)**.
- 6) Slide the top of the panel into the top profile and allow it to fall into place in the bottom profile **(5)**.

→ Installing services

To insert plumbing or electrics, normal hand tools are suitable.

Application advice

- Avoid fixing panels behind a direct heat source of more than 40°C, such as a radiator.



1. Boards need to be handled by 2 people.



2. Boards need to be carried on their side.



3. Board has to be cut from the decor side.



5. Use suction pads.



5. Offer the board at an angle.