



Training Module

Perma-Deck®
Advantage +

Deck boards made of 100% recycled plastic



Produits
REPLAST
1350, Chemin Quatre-Saisons
Notre-Dame-du-Bon-Conseil (Québec)
Canada J0C 1A0
Tel.: (819) 336-2440 / Fax: (819) 336-2442



Toll - free : 1 888 313-2440
Web site :
www.produitsreplast.com

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Produits

RE♻️PLAST • Elevate – Educate – Influence

- Produits Re-Plast inc., located in Notre-Dame-du-Bon-Conseil, Quebec, Canada, designs, manufactures and markets the Urbain Design™ line of site furnishings. These products are made of 100% recycled plastic: UltraPlast™, an amalgam of post-consumer and post-industrial recycled plastic. Our commitment to protecting the environment and promoting sustainability helps set us apart from the competition.
- Urbain Design™, which is made from UltraPlast™ recycled plastic, offers a complete and varied line of stylized and long-lasting site furnishings.
- Perma-Deck® Advantage+ is an attractive, practical and innovative solution for your patio or balcony. It is an ecological product made from 100% recycled plastic and it is unquestionably the best alternative for your balconies, combining maximum durability with minimal maintenance.
- This line is made up of three distinct families: Urbain Design™ Signature, Urbain Design™ Avenue and Urbain Design™ Leisure. As described in the following pages, each family offers a set of furnishings that will meet the needs of architects, urban designers, public space and recreational park managers as well as consumers.
- Urbain Design™ products are attractive, comfortable and high quality. Given our environmental orientation, deep respect for the environment and sustainable development perspective, Produits Re-Plast uses environmentally friendly manufacturing methods and processes.
- Together, we're doing our best to recycle and use recycled materials. It's all part of our commitment to help preserve natural resources. !

Leading the recycling trend in North America



All-plastic boards for decking

Welcome! Perma-Deck Products Training

1. About Produits Re-Plast inc.

2. Perma-Deck “Advantage +” Boards made of 100% recycled plastic

- Features & benefits
- Product offering
- Installation guide
- Specifications
- Warranty

3. Perma-Deck Product Cleaning

4. FAQ

Produits Re-Plast inc.

Mission

To recycle plastic for the creation of usable, value-added products

To market a line of finished products made from post-industrial, post-consumer recycled plastics

Beginnings

Company founded in 1989

Original focus was the manufacture of furniture for urban areas: park benches, picnic tables, flower containers, etc.

First distributed to the Quebec market

Milestones

Manufacture recycled plastic boards for balconies and decks: The "Perma-Deck" brand was born.

Produits Re-Plast products were introduced to the Ontario market, the Maritimes and the rest of Canada, as well as to the USA and in Europe.

Perma-Deck® *Avantage +*



Boards made of 100% recycled plastic

Perma-Deck Avantage +

The permanent & maintenance-free decking solution

Features	Benefits
<ul style="list-style-type: none"> • 100% recycled plastic* • Composed primarily of low-density polyethylene (LDPE) and polypropylene 	<ul style="list-style-type: none"> • A unique, innovative, Environmentally-sound and attractive solution • Superior quality
<ul style="list-style-type: none"> • Non-porous • Will not crack • Resistant to: shocks, wear and tear, UV rays, decay, water, salt, insects, surface bacteria, oil, chemical products, etc. 	<ul style="list-style-type: none"> • Requires minimal care • Easy to clean • No need to add protective coatings, toxic paints or stains • Safe for daily and long-term use

NOTE: The use of pressure cleaners on these products **is NOT** recommended.

*Post-consumer and post-industrial recycled plastic

Perma-Deck Avantage + (suite)

The permanent & maintenance-free decking solution (cont'd)

Features	Benefits
<ul style="list-style-type: none"> • Square or double groove boards • Can be worked just like wood, using the same tools 	<ul style="list-style-type: none"> • Simple to install, does not require any special equipment • Easy to cut, saw, sand, screw (pre-drilling is required) or install with fasteners
<ul style="list-style-type: none"> • Offered in the following popular choices: <ul style="list-style-type: none"> -Square or double groove board: Light grey, redwood, sand and walnut. 	<ul style="list-style-type: none"> • Blends harmoniously with any setting and design
<ul style="list-style-type: none"> • Boards have a 25-year warranty <p><small>**Please read details of the warranty</small></p>	<ul style="list-style-type: none"> • A good long-term investment

Perma-Deck Advantage +

Product Offering

Boards

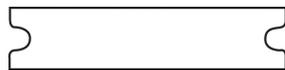
Nominal Dimension

Available Colours

Sand Redwood Light Grey Walnut Harbour Gray



15/16" x 6" (23,8 mm x 152 mm)



15/16x 6" (23,8 mm x 152 mm)
Double grooves



Available Colours

Sand Redwood Light Grey Walnut Harbour Gray



Regular steps



2" x 10" (37 mm x 252 mm)
Bullnose

Length: up to 12 ft.



Reinforced steps (galvanized steel piping)



2" x 10" (37 mm x 252 mm)
Bullnose

Lengths: 36" 42" 48"



Stringers (available for 2-3-4 steps)



Step height: 7"



Perma-Deck®

Advantage +

Specifications

	Test Method	Value Obtained
Specific weight		56-58 lb /ft ³
Specific gravity	ASTM D792	0.899–0.931
Coefficient of thermal expansion	ASTM D6341	0,0000498 in/in/°F 1/8" for a 10°C variation over a length of 10'
Water absorption	ASTM D1037	<0.01%
Ignition temperature	ASTM 1929	630 to 770°F
Modulus of elasticity (in flexion)	ASTM D6109	139,500 psi
Static friction coefficient 50% r.h., 23° C (rubber footing)	ASTM D2394	0.538 longitudinal (Meets A.D.A. guidelines for outdoor walking surfaces)
Synthetic friction coefficient Water-saturated surface at 23° C (rubber footing)	ASTM D2394	0.622 longitudinal (Meets A.D.A. guidelines for outdoor walking surfaces)

Perma-Deck®

Advantage +



Warranty

1. Subject to compliance with the installation guide prepared by Produits Re-Plast inc. and to the terms of the current Warranty, the Manufacturer guarantees *Perma-Deck Advantage +* materials against decay and cracking for a period of 25 years, beginning on the date indicated on the original copy of the initial sales receipt.
2. By virtue of the current Warranty, the Manufacturer undertakes to replace any defective *Perma-Deck Advantage +* materials with new *Perma-Deck Advantage +* materials, for the period of this Warranty and upon presentation of the original copy of the initial sales receipt. **The Manufacturer is not responsible for any other direct or indirect damages, whatever the cause, including all removal and installation costs.**
3. To obtain better results during use, it is essential that *Perma-Deck Advantage +* materials be installed in accordance with the installation guide prepared by the Manufacturer. Produits Re-Plast inc. claims no liability or responsibility for the improper installation of this product.
4. The Manufacturer guarantees that no additives whatsoever are required to preserve *Perma-Deck Advantage +* materials used for residential, commercial or agricultural purposes.
5. In purchasing *Perma-Deck Advantage +* materials, the buyer accepts the current Warranty and acknowledges that, insofar as permitted by law, the current Warranty supersedes any other legal warranty regarding *Perma-Deck Advantage +* materials.
6. Any soiling of *Perma-Deck Advantage +* materials through usage is considered normal and remains wholly the responsibility of the buyer. The cleaning of *Perma-Deck Advantage +* materials does not damage them, and remains wholly the responsibility of the buyer.
7. **Discoloration of *Perma-Deck Advantage +* materials exposed to sun and adverse weather is considered normal and does not constitute damage to the *Perma-Deck Advantage +* materials.**

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Advantage +

Installation Guide

Before you begin

The structure under construction must be level, and should be completely dry before installation of *Perma-Deck Advantage+*.

Due to the flexibility of plastic products, *Perma-Deck Advantage+* boards should not be used for key structural components (posts, joists, stringers, beams, etc.)

Perma-Deck Advantage+ expands and contracts about 1/8" per 10' in length, for a temperature variation of 10 °C. Deck design should allow for this slight movement.

Do NOT position deck boards end-to-end

If you need to notch a deck board around a post, you must allow a minimum 1/4" gap around the post.

For abnormal loads (e.g. hot tubs), design shorter spans between the joists, or use additional sub-structure supports. Consult a contractor if necessary.

Framing	Minimum joist support
15/16" double grooves boards	Max. 12" from centre to centre
15/16" square or double grooves boards for angled (45° or 60°) installations	Max. 12" from centre to centre

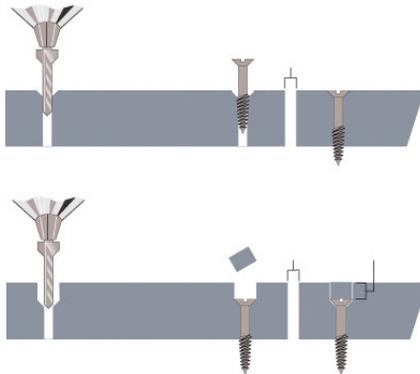
Perma-Deck®

Installation Guide (cont'd)

Advantage +

Square boards

(with screws visible or invisible)



Pre-drill 1/4" holes (#10 screws)

Countersink all holes: 1/2" in diameter and a depth of 3/8"

Use screw caps to hide screws

Perma-Deck®

Advantage +

Installation Guide (cont'd)

Double groove boards

Perma-Deck® Advantage+ double groove boards are not designed for use as components of the primary structure, including posts, joists, beams, etc.

Maximum joist spans:

16" from centre to centre for boards installed at a 90° angle to the joists

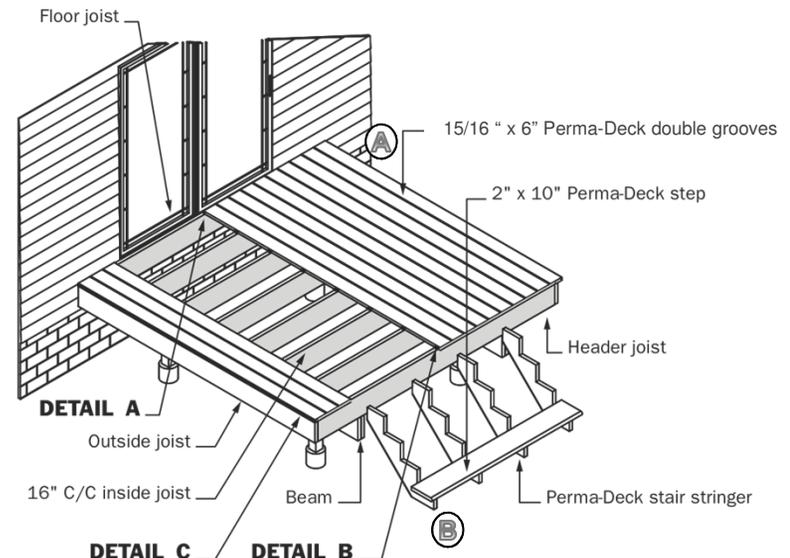
12" from centre to centre for angled installation (45° or 60° angle)

Boards should not extend over the end joist by more than 1 1/2"

The end of each board must sit on a full joist

Deck design should take into consideration the expansion and contraction of the products due to temperature changes.

You must therefore allow a 1/4" gap around all structural components, including ramps, planters, etc.



- Ⓐ Leave a gap of 1/4" between any structure.
- Ⓑ Facilities stair stringers 16" (recommended)

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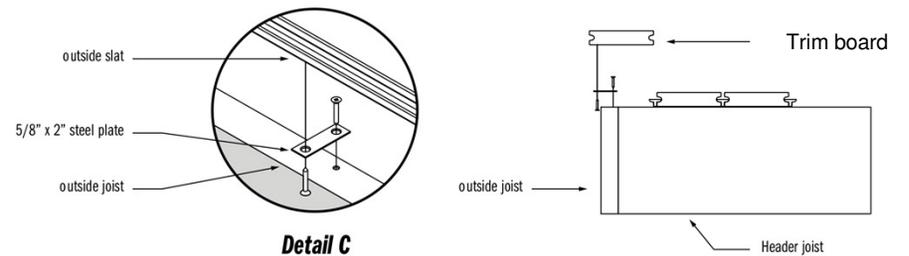
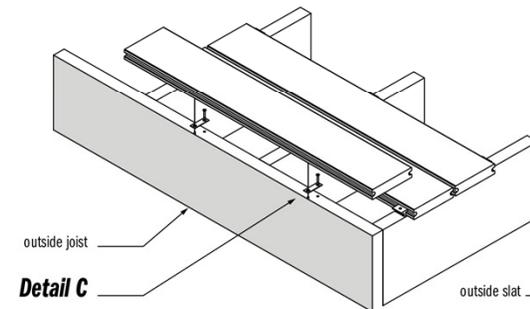
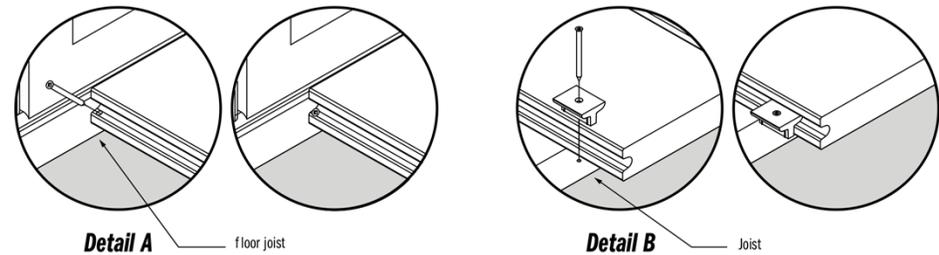
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Installation Guide (cont'd)

Double groove boards

First step:

- Affix the ends of the boards directly to the wall plate using a 2"-long #7 screw. See DETAIL A. Pre-drill the board with a 1/8" hole.
- Install the fasteners: see DETAIL B.
- Install the exterior boards: See DETAIL C.

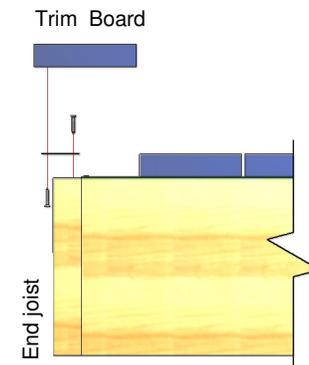
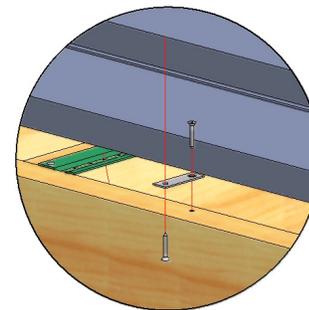
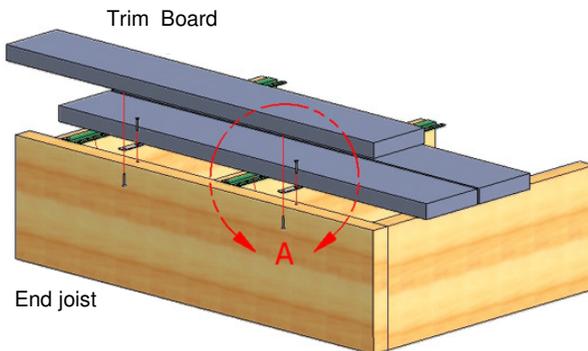


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Advantage +

Installation Guide (cont'd)

Installing the Trim board



Assembly

The use of stainless steel screws is recommended. Install two screws at each end, and then one screw at each alternating joist.



Pre-drill all holes using a 1/4" drill bit for #10 screws, at a distance of 3/4" from the edge or end of boards.

The use of adhesives is not recommended.

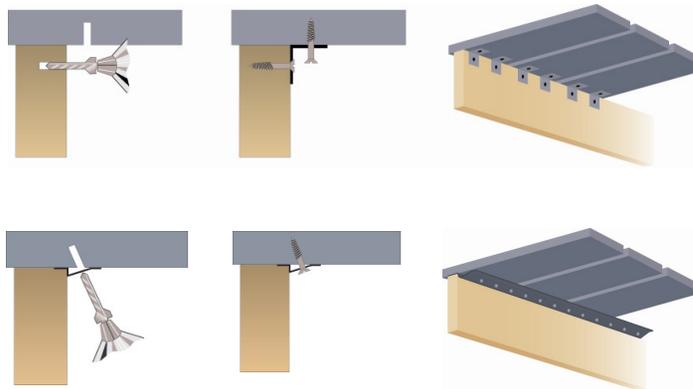
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Advantage +

Installation Guide (cont'd)

Alternate method: Using metal supports

Pre-drill each board at a diameter of 1/8" and a depth of 3/4". Each board must be secured using the metal supports, and screwed (with #10 screw) to each joist.



Pattern suggestion



Checkerboard with adjoining boards

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Proper Cleaning

- All exterior products require regular cleaning.
- Use mild soap, diluted bleach (1 cup bleach per bucket of water), and a stiff-bristled brush.
- To rinse, flush with running water.

NEVER use abrasive or greater than 1200psi pressure jet cleaner.

Note: Advantage+ is not affected by most chemical products. Very easy to maintain.

Perma-Deck Advantage+

Grease stains	Household grease remover
Mould	Solution: mild soap/bleach
Leaves, rust	Solution: mild soap/bleach
Scratches, burns	Light sanding/brushing, stainless steel brush

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FAQ (Frequently Asked Questions)

Advantage +

Can Perma-Deck components be used to make butt joints?

No.

Is this a structural or finishing product?

Not at the moment.

Can boards be glued to frame or apply a sealing material once the installation is done ?

No, not recommended.

How does one go about making angle cuts?

Use a circular saw with fewer teeth, and joists at a 12" span.

Is the product static-proof?

No, there is no static-proofing in recycled plastic.

What is a quick way to calculate the area to be covered (in ft²), to determine the right quantity of boards to be ordered?

2 linear ft. = 1 sq. ft.

Ex.: One 12 ft. board = 6 ft²

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FAQ (cont'd)

Is this a non-skid product?

Yes when board is embossed.

Can this product heat up with prolonged exposure to sunlight?

Yes, but no more than other products, such as wood.

Are there any components for making a ramp (railing, top part, bottom part)?

Not at the moment.

Can a step be used to make a stringer for stairs with more than 4 steps?

Not at the moment; if there are more than 4 steps, we suggest you use wooden stringers.

What span is required to support a non-reinforced step?

We recommend an 18" (45.72 cm) span.



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