Guide Installation panels PDB Concrete skin metal finish



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Guide Storage and Handling

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PDB Concrete skin - metal finish

Ultralight concrete decorative metal panel



STANDARD FORMATS

6" x 48" 24" x 48" 48" x 96"

COLORS











For illustrative purposes. Order samples for materials natural color variations.



Steel

Silver

Copper

Brass

Bronze

Oxidized Steel

DESCRIPTION

Peau de béton™ (PDB) - PDB Concrete skin, Silex's flagship product, offer a range of natural raw concrete and metal finishes. The mildew and fire resistant panels are made from a high performance concrete microlayer fused to a 1/4" mineral fiber and magnesium oxide blended board. This innovative approach has made it possible to create amazing eco-friendly, ultralight, thin panels, protected by a water-based sealer. The metallic coating, created with a blend of recycled natural metal dusts, presents amazing color nuance variations for each one of a kind panel. Well lit, the metal facing plays with light, absorbing it, or reflecting it.

APPLICATION

PDB Concrete skin is ideal for indoor application for residential and commercial projects. Depending on the desired effect, panels can be installed horizontally or vertically. They should not be exposed directly to water (shower area) or to intense heat.

Thinness: ± %" ±0.7%



Ultralight 2.8 lbs./ft²



Color variations inherent to metallic material, color shade sensitive



Splatter Resistant

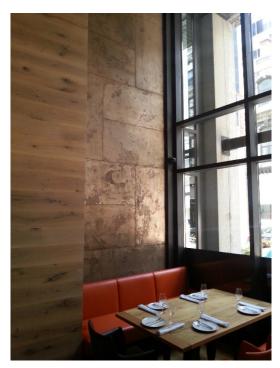


Bending resistance ASTM C348 > 11.4 MPa





PDB Concrete skin - metal finish 48" x 96" - Oxidized Steel



PDB Concrete skin - metal finish 16" x 48" - Bronze



PDB Concrete skin - metal finish 24" x 48" - Silver



PDB Concrete skin - metal finish 24" x 48" - Brass



PDB Concrete skin - metal finish 24" x 48" - Copper



PDB Concrete skin - metal finish 16" x 48" - Steel



PDB Concrete skin - metal finish 48" x 96" - Oxidized Steel

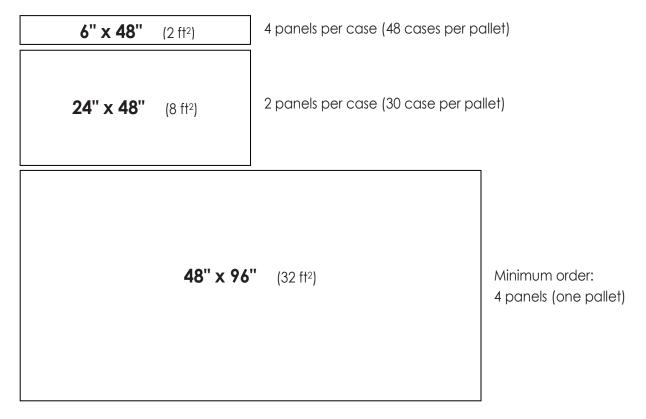


PDB Concrete skin - metal finish 48" x 96" - Silver



PDB Concrete skin - metal finish triangle shape - Steel

PANELS STANDARD FORMATS AND PACKAGING



Panel measurement tolerance: ± 0.5%

CUSTOM-MADE FORMATS

Custom sizes are available for large projects, at the same price per ft² as 48" x 96" panels, with additional applicable cutting charges. Contact Silex element at sales@silexelement.com for additional information.

PROPER USE

PDB Concrete skin panels can be cut and installed on many substrates except glass and metal, ideally on fiber cement or drywall, on walls or ceilings. Once installed, the panels are heat and mold resistant, and suited for fireplace surrounds or moist environments, for use as backsplashes or in bathrooms. **PDB Concrete** skin panels cannot be installed in shower area, on floors, nor on substrates exposed to heat over 200°C (392°F).

Images presented in this document are not contractual. Visuals and pictures are used for illustrative purposes of colors and projects possibilities. For materials natural color variations, order product samples.

SHIPPING COST AND LEAD TIME OF DELIVERY

Shipping costs are invoiced in addition depending on freight weight, size, quantity, and destination.

Lead time of delivery for PDB Concrete skin - metal finish panels, varies based on inventory at hand, from 4 to 8 weeks, including artisanal manufacturing, handling, and transport time, depending on product SKU, color, size, and quantity ordered. Order recipients must check their emails (including junk mails) for the order shipping date confirmation notice.

CAUTIONARY STATEMENT AND NOTICE OF LIABILITY

Before using Silex element products, the user has a duty of inquiry to ensure products are suitable for the purposes for which they are intended, and the user must verify order content upon delivery (color, size, quantity, and goods condition). The user will bear any, and all risks, and liability of whatever nature.

Follow Silex recommendations for handling, storage, and installation of the product.

Refer to Silex Guide Storage and Handling, and Silex Guide Installation panels PDB Concrete skin metal finish.

Silex PDB panels cannot be used as structural support. They should not be installed outdoors, on floors nor be in direct contact with water (i.e., shower area, basin, or pools). They should not be in direct contact with intense heat source nor running water before installation. Do not use water-based adhesive for installation.

*** ANY OPEN CONTAINER, PRODUCT INSTALLED OR APPLIED WILL NOT BE REPLACED NOR REFUNDED ***

WARRANTY

Manufacturing defect warranty period for PDB Concrete skin panels is 10 years with normal product usage, as recommended by Silex element.

As with any item made of concrete or metal, the panel finish may exhibit microcracks, irregularities and uneven surface, which do not compromise the integrity of the product. These singularities are not manufacturing defects but are an integral part of each panel's unique embellishment.

No warranty applies if the panel has been improperly transported, handled, or installed, or if it has undergone damage caused by a third party. See Silex Guide Installation panels PDB Concrete skin metal finish. There is no guarantee on anticipated results.

Read Silex Terms and Conditions of Sale readily available on Silex Website.

MATERIALS AND TOOLS, AS REQUIRED

Recommended Silex Products

- ADBOND EXTRÊME 5692 solvent-free hybrid construction adhesive (1 tube of 295 ml (10 oz) for ± 32 ft² of panels). **Do not use water-based adhesive for installation**.
- **Silex Sealer**, optional, for additional protection of backsplashes and high traffic areas. Sealer is sufficient for any horizontal surface that does not require special protection.
- Silex Varnish, optional, is required for any moist environment, such as in bathrooms (do not install PDB
 Concrete skin panels in a shower area or on the floor), and for horizontal high traffic areas, or for added protection of backsplashes.

Resources

Downloadable on silexelement.com/pages/guides

- Silex Guide Installation panels PDB Concrete skin metal finish
- Silex Guide Storage and Handling

Tools and equipment

Refer to appendix tables under Equipment list for installation, and to Silex Glossary Tools and Equipment.

TRANSPORTATION, STORAGE, HANDLING AND RUBBLE DISPOSAL

Transport panel packaging vertically on the long edge, and not flat, horizontally. Store them laterally lengthwise against a wall in a dry place, away from moisture and cold temperatures.





Remove panels from packaging and **check they comply with initial order** (color, format, quantity, and condition). Store them lengthwise against a wall, to avoid warping panels, or simply stack them flat on leveled ground. **Allow panels to absorb room humidity for about 24h before installation.**



Even if panels have a bending resistance, **large formats must be handled by at least two people** to lift horizontally on a plywood





board for installation phase and transport vertically. For panel overturn, have one hand on each side (width & length) and be careful of panel corners. Refer to **Silex Guide Storage and Handling** in enclosed appendix.

To reduce ecological footprint, please take renovation wastes to your local recycling facility.

*** Wear protective equipment when handling, cutting, and installing panels. ***

PRIOR TO INSTALLATION

Substrate preparation



Panels must be installed on a **flat smooth**, **clean**, **dry**, **and dust-free substrate** for better adhesive bond.



As mortar is not typically used to fill in joint spaces 2 mm (1/16") between installed PDB metal finish panels, it is advised to paint substrate surface area with a color in harmony with panels' shades before proceeding with the installation phase, for a more pleasing final rendering.

Panels must be straight (not curved) for the installation phase



As any living material, a panel can exhibit a slight curvature due to a change in temperature. To return the panel to its original shape, lightly wet the back of the panel, then place it, finished side down, on a level surface, and evenly distribute weight on top, for 24h. It is possible to stack several panels.

Do not press excessively on the panel to avoid damaging it during installation. Do not put the panel in direct contact with intense heat or water.



Leave at least a 2 mm (1/16") spacing between panels while installing with adhesive, for panel expansion.



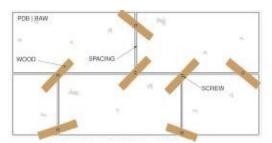
A metal edge profile, i.e., Schluter®, can be used (refer to manufacturer's Website for installation).



Installation technique for large 24" x 48" and 48" x 96" panels, in addition to the adhesive, to strengthen the panel hold while the adhesive fully sets (24h).

Ceiling installation: Place each panel (finished face down) on a smaller plywood board, which will act as a support for horizontal lifting of the panel to the ceiling, handled by at least two people. Apply adhesive and use fixing technique as recommended below.

Wood shims best option: use self-drilling screws suitable to substrate behind panels. Screw in temporary wood shims into joint spaces to hold each panel in place while the adhesive fully sets.



Screwing option: use self-drilling screws suitable to substrate behind panels. Screw only into the existing texture cavities of the metal panel. For temporary screwing, leave screw heads fully exposed so they could be easily removed once the adhesive has fully set.

Nailing option: use finishing nails (18 Ga) with appropriate gun pressure in order not to damage panel.

N.B. Silex Finishing Mortar and Silex Touch-up Mortar are specifically designed for PDB Concrete skin - raw finish panels. It is advised to install PDB - metal finish panels without filling in the 2 mm (1/16") joint spaces with mortar. Whenever possible, use the wood shims installation method to avoid installation holes in the PDB - metal finish panel cavities.

CUTTING

The cutting phase is to be carried out in a ventilated area with protective equipment against dust.



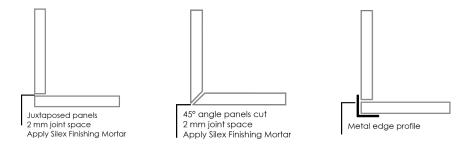
Apply painter's masking tape onto surface to be cut, before proceeding. To cut panel full **length or width**, use a wet saw, an angle grinder, or a circular saw with a diamond blade, leaning against a guide rail, held by clamps. **Do not use a mechanical tile cutter**. Smooth cut edges with sandpaper.



To make an opening (sockets, cables, etc.) apply painter's masking tape onto surface to be cut. To start the cut, drill a hole in the panel with a drill fitted with a concrete bit. Use an electric oscillating saw. Smooth cut edges with sandpaper.

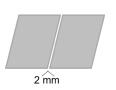


Wall **corner junctions** can be done in several ways. Panels can be juxtaposed, cut at a 45° angle, or covered with a metal edge profile. Use a circular saw with a guide to make a 45° angle cut.



BONDING

Silex recommends the hybrid construction adhesive, isocyanate, phthalate and solvent free **ADBOND EXTREME 5692 (Adfast)** for panels installation onto a variety of substrate (1 tube of 295 ml (10 oz) for \pm 32 ft² of panels). Refer to the manufacturer's recommendations. **Do not apply water-based adhesive to panels**. Leave a 2 mm (1/16") joint space for panel expansion.





For horizontal panel installation: apply ADBOND EXTREME 5692 adhesive, using a caulking gun, around the entire perimeter of the panel, at least 1.5" from the edge, and inside in horizontal lines ± 8" apart.





For **vertical panel installation**: apply ADBOND EXTREME 5692 adhesive, using a caulking gun, around the entire perimeter of the panel, at least 1.5" from the edge, and inside in vertical lines \pm 8" apart.



SILEX FINISHING MORTAR

Silex Finishing Mortar and Silex Touch-up Mortar are specifically designed for PDB Concrete skin - raw finish panels. It is advised to install PDB - metal finish panels without filling in the 2 mm (1/16") joint spaces with mortar. Whenever possible, use the wood shims installation method to avoid installation holes in the PDB metal finish panel cavities.

SILEX SEALER

One coat of colorless **Silex Sealer** has been applied in the finishing phase of the manufacturing process. After installation, an additional coat of Silex Sealer should be applied on site, for increased protection of backsplashes, high traffic areas and solicited surfaces. Surface should be thoroughly dusted, wiped clean, and fully dry before application.



Temperature of application of Silex Sealer should be between 5° C and 25° C (41° F and 77° F), ideally between 15°C and 20°C (59°F and 68°F). Put painter's masking tape on outer edges of surface area to protect from overflows. Pour sealer into a paint tray. Begin application on corners and edges with a stain and paint brush, then apply sealer over the entire surface in a thin layer with no extra thickness. Remove excess liquids and drips with a clean microfiber cloth. While drying, protect the unfinished surface from stains and damage. Remove painter's masking tape while sealer is still damp.

SILEX VARNISH

Silex Sealer provides sufficient protection for unsolicited horizontal surfaces. The Silex Varnish is required for installation in moist environments, such as bathrooms (do not install PDB Concrete skin panels in the shower area or on the floor), and for highly solicited horizontal surfaces, or for adequate protection of kitchen backsplashes. Up to two coats of colorless Silex Varnish, satin, or matte finish, can be applied. Allow for at least 24h for the last coat to dry.



Temperature of application of Silex Varnish should be between 5° C and 25° C (41° F and 77° F), ideally between 15°C and 20°C (59°F and 68°F). Apply painter's masking tape on outer edges of the surface area to protect from overflows. Apply using a slit foam lacquer roller (water washable). Wait 24h between each coat. During drying time, protect surface from stains and impairment. Remove painter's masking tape while varnish is still damp.

LIGHTING

Design the best lighting that will highlight the variations of visual and texture effects, as the finished surface will absorb or reflect light, depending on the exposure and the light colors used.

MAINTENANCE

PDB Concrete skin panels can be easily cleaned with mild organic products, and sponge soaked in lukewarm water and wrung out. Wipe with a clean cloth and let air dry.

INSTALLATION STEPS

Refer to Silex Guide Installation panels PDB Concrete skin - metal finish (downloadable on silexelement.com/pages/guides), and to shared tips for each step.

- Make sure appropriate products' quantities have been ordered with an installation diagram
- Open packaging, verify content, and prepare required tools, accessories, and protective equipment 2.
- As required, prepare and prime substrate surface 3.
- Verify levels and measurements, including the 2 mm (1/16") joint spaces between panels
- 5. If panels exhibit a slight curvature, refer to Silex technique and tips to revert to original shape
- Cover floor and furniture with protective sheets, and proceed with surface preparation
- Follow Silex recommendations for panel cutting, and sand edges if necessary 7.
- Handle large panels by two people, and use a plywood board for horizontal lifting as instructed
- 9. Apply bonding adhesive to panel back side
- 10. Do not forget to account for a 2 mm (1/16") joint space during panel installation
- 11. For swifter bonding, and for larger panels, favor the wood shims temporary fixing technique
- 12. After the adhesive fully sets (24h), remove temporary wood shims
- 13. Protect panels edges with painter's masking tape for the following applicable steps
- 14. (Step not recommended for metal finish: fill in joint spaces with Silex Finishing Mortar)
- 15. (Step not recommended for metal finish: fill in installation holes with mortar)
- 16. Apply Silex Sealer and/or Silex Varnish to high-traffic area, solicited surface, bathroom, or backsplash
- 17. Bring renovation wastes to the local recycling facility
- 18. Design the best lighting to highlight panels visual and texture effects and variations

Installation Equipment List

Table listing Silex element products for PDB Concrete skin - metal finish.

PDB Concrete skin Panel installation

Recommended by Silex:

ADBOND EXTRÊME 5692 hybrid construction adhesive

1 tube of 295 ml (10 oz) for \pm 32 ft² of panels

Silex Finishing Mortar

Pigmented powder in similar shade variation as panel color Designed for PDB Concrete skin - raw finish panels

Ref.: 1 kg (2.20 lbs.) for ± 40 ft²

Silex Touch-up Mortar

Pigmented powder in similar shade variation as panel color

Designed for PDB Concrete skin - raw finish panels

Ref.: 0.45 kg (1 lb.) for ± 20 ft²

Silex Sealer

Colorless, satin, or matte finish

Ref.: 946 ml (32 oz) for 2-coat coverage of \pm 120 ft²

Silex Varnish

Colorless, satin, or matte finish

Ref.: 946 ml (32 oz) for 2-coat coverage of \pm 100 ft²

Find accessories available on Silex Website

Quantity conversion in US units

To add to initial order based on total panel ft2

Not advised for metal finish Optional for joint spaces

Not advisable for this product To fill in installation holes

Optional

For additional protection of backsplashes and high-traffic areas

Optional

For extra protection of backsplashes and high-traffic areas

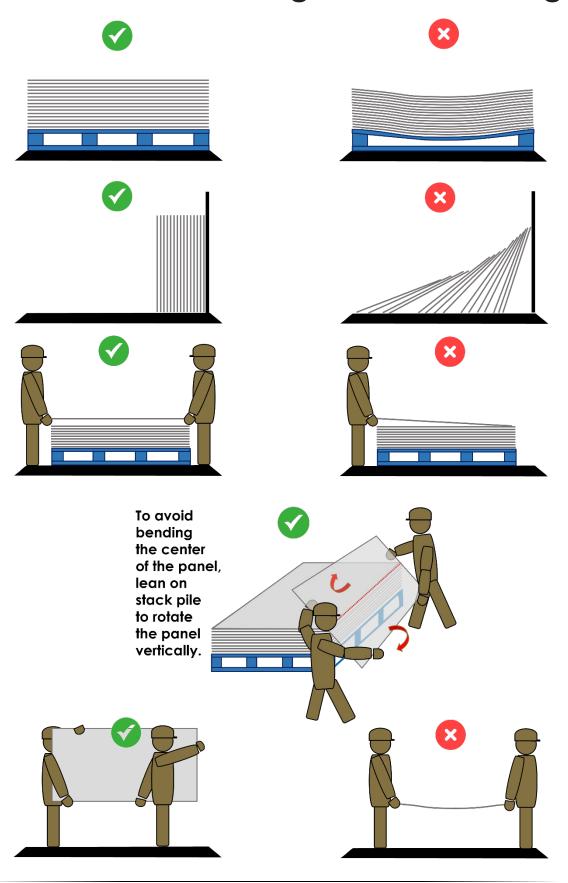
Visit www.silexelement.com

Table of required tools and equipment for Silex PDB Concrete skin - metal finish panel installation.

	Tools and equipment	PDB Concrete skin Panel installation
Safety eyewear		V
Dust mask		\checkmark
Gloves		\checkmark
ADBOND EXTRÊME 5692 Hybrid construction adhesive 1 tube of 295 ml (10 oz) for ± 32 ft ² of panels	CHURCH CONTROL OF THE	V
Angle square		\checkmark
Beam level	O Sensor O D	√
Caulking gun		√
Circular saw with a diamond blade		\checkmark
Container for rubbles		√
Dust extractor		\checkmark
Electrical oscillating saw		\checkmark
Installation diagram		\checkmark
Microfiber cloths		\checkmark
Protective sheets	4	\checkmark
Wet saw		V

	Tools and equipment	PDB Concrete skin Panel installation
Angle grinder		√ Cutting angles
Clamps	D=	Cutting length
Guide rail for saw		√ Cutting length
Sandpaper sheets 120 & 220 grit		Optional Sanding
Plywood board slightly smaller than larger size panels		√ Large panels Handling
Drill with masonry drill bit		Optional Large panels
Finishing nails (18 Ga)		Optional Large panels
Nail gun		Optional Large panels
Self-drilling screws	ţ	Optional Large panels
Wood shims		Optional Large panels
Grout sponge		Optional Mortar
Joint knife 4" or 5"	1	Optional Mortar
Measuring cup	The state of the s	Optional Mortar
Painter's masking tape		Optional Mortar/Sealer/Varnish
Paint tray		Optional Sealer/Varnish
Slit foam lacquer roller		Optional Sealer/Varnish
Stain and paint brush		Optional Sealer/Varnish
Metal edge profile (i.e., Schluter®)		Optional
Laser level		Optional

Silex Guide Storage and Handling





Silex element

1 (438) 382-9796 Office: 7328 Cordner Street LaSalle (QC) H8N 2W8, Canada <u>silexelement.com</u> <u>sales@silexelement.com</u>