ProPanel®
Lightweight Waterproof Backer Board

The STRENGTH
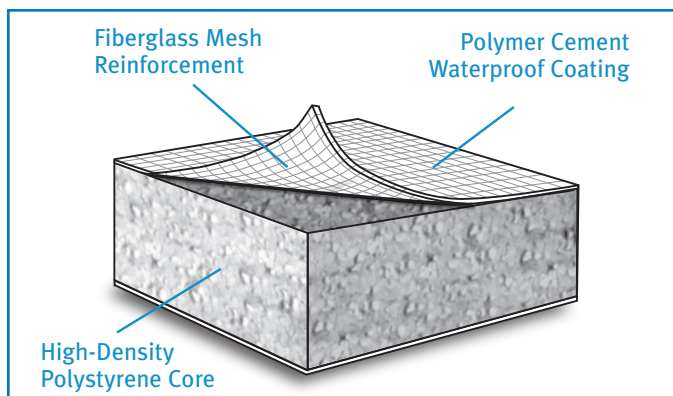
Behind the BEAUTY

Walls & Ceilings • Countertops • Residential & Light Commercial Flooring

FinPan

Fiberglass Mesh Reinforcement

Polymer Cement Waterproof Coating

High-Density Polystyrene Core

SIZE & PACKAGING

Thickness	Width	Length	Pieces Per Pallet
¼"	3'	5'	50
½"	3'	5'	40

ACCESSORIES

1 ¼" Tab Washer ....250 / box
1 ½" Assembled Cap Nail.........................250 / box
1 ⅝" Screw ....250 / box
Polyurethane...24 / case
WaterArmor™.............1 quart, 1 & 5 gallon buckets

ProPanel® Lightweight Waterproof Backer Board is specifically designed for wall and floor tile applications. ProPanel is made of high-density expanded polystyrene insulation reinforced, on both sides, with fiberglass mesh and a polymer cement coating. ProPanel provides a waterproof substrate for tile used on walls, floors, tub surrounds, steam rooms, ceilings and countertops.

ProPanel Backer Board® offers distinct features over competitive products on the market. ProPanel Backer Board® is lightweight, completely waterproof, and easy to install.

ProPanel Backer Board® is available in ¼" and ½" x 3' x 5' boards. Due to its lightweight nature, around 6 pounds per board, it is easier to lift and carry. Although light, the 2-pound density foam core is stable and meets industry standards for compressive, flexural and tensile strengths.

ProPanel Backer Board® is engineered using a polymer cement coating that offers 100% waterproof protection. ProPanel Backer Board® does not require additional waterproofing over its surface as other boards on the market do. It also offers resistance to fungi and bacteria.

ProPanel Backer Board® is quick to install. It cuts easily and cleanly with a sharp utility knife. Water stubs and fixtures are easily cut out of the foam core. Because of its low vapor permeance, ProPanel Backer Board® eliminates the need for vapor barriers in shower applications. A vapor barrier is still required for steam shower installations.

ProPanel Backer Board® is designed for walls, floors, tub surrounds, steam showers and ceilings.

ProPanel ¼" and ½" is approved for residential and light commercial applications. ¼" ProPanel Backer Board® reduces level variations when abutting carpet and other materials.

Limitations

ProPanel Backer Board® is waterproof, but to ensure a waterproof installation all joints and fasteners must be sealed with a Fin Pan approved polyurethane sealant or fiberglass mesh and WaterArmor™ liquid applied waterproofing membrane or equivalent.

ProPanel Backer Board® is not to be used as a structural load-bearing member.

ProPanel Backer Board® may be used on countertops, but should not be used in areas where extremely hot items will be placed directly on the tile.

ProPanel Backer Board® may be used for steam rooms and steam showers, however a vapor barrier is specified. Visquene may be used behind ProPanel Backer Board® or a liquid applied waterproof membrane may be applied over surface of ProPanel Backer Board®.

ProPanel®

FEATURES	BENEFITS
• Lightweight, around 6 lbs. per board	• Faster Installations
• Waterproof	• Waterproof Installations
• 2 lb. Density EPS Core	• Adds Insulation Value
• Easy to Lift and Carry	• Less Mess
• Easy to Cut and Install	

Effortless Installation

A modified thinset mortar is specified for setting tile. Mastic adhesives should never be used.

WALLS

FASTENING:

Wood Studs: Nominal Dimensions – 2" x 4" with maximum span of 16" o.c.

Fasten boards directly to studs using either the ProPanel 1 ½" Assembled Cap Nail or the ProPanel 1 ¼" Tab Washer and 1 ⅝" Corrosion Resistant Screw. Fasteners should be spaced 8" o.c. All fastener heads should be countersunk flush with surface of the board.

Steel Studs: Minimum Thickness – 25 gauge with maximum span of 16" o.c.

Fasten boards directly to studs using the ProPanel 1 ¼" Tab Washer and 1 ⅝" Corrosion Resistant Screw. Fasteners should be spaced 8" o.c. All washers should be countersunk flush with surface of the board.

INSTALLATION:

The following steps must be followed to maintain the waterproof integrity of ProPanel.

OPTION 1:

1. Beginning at the bottom of the wall, install ProPanel to the wall studs by using the appropriate fastener and spacing outlined in the FASTENING section above. For tub walls, first apply a bead of polyurethane sealant and then install board.

2. Before installing the next board, apply a ¼" bead of polyurethane sealant to the entire top edge of the first board.

3. Install next board and apply fasteners as outlined above in FASTENING section.

4. Whenever two boards come together to make a joint apply a ¼" bead of polyurethane.

5. All boards must be fitted tightly together allowing sealant to ooze from joint.

APPROVED FASTENERS

ProPanel®
1 ½" Assembled Cap Nail

ProPanel®
1 ¼" Tab Washer

1 ⅝" Tab Washer
Corrosion-Resistant Screw

6. All excess sealant should be spread thin ensuring a continuous seal at the joint.

7. All fasteners must be completely covered with a bead of polyurethane and spread to form a seal.

OPTION 2:

1. Fasten boards in same manner as outlined in OPTION 1 without the use of polyurethane sealant.

2. Install boards leaving a $^1/_{16}$" gap between boards.

3. Embed 2" fiberglass mesh with WaterArmor™ liquid waterproofing membrane or equivalent in all panel joints.

4. All fasteners must be completely covered with waterproofing to form a seal.

5. Allow 1st coat to dry and apply 2nd coat over all joints, corners and fasteners.

STEAM SHOWER APPLICATION

1. Apply a moisture barrier directly to stud framing before installing ProPanel or apply WaterArmor™ liquid waterproof membrane or equivalent, per manufacturer's instructions, over the ProPanel after it has been installed.

2. Treat all seams, joints and penetrations as outline above.

CEILINGS

GENERAL:

Design specifications should provide support with a maximum allowable deflection due to dead load not to exceed L/360 of the span.

FASTENING:

Framing members should not exceed 16 o.c. Ensure that edges of ProPanel are continuously supported.
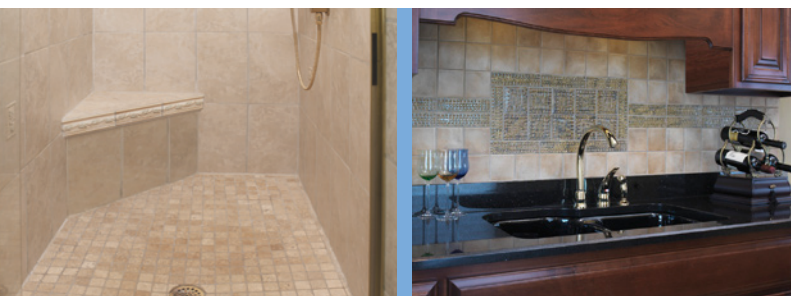
Fasten boards as outlined in FASTENING section for WALL applications.

INSTALLATION:

Install ProPanel as outlined in OPTION 1 or OPTION 2 in WALL application section.

POLYURETHANE APPROXIMATE COVERAGE:

3 boards per 10 oz. tube.

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A modified thinset mortar is specified for setting tile. Mastic adhesives should never be used.

FLOORS:

GENERAL:

All framing should comply with local building code requirements. Design specifications should provide support with a maximum allowable deflection of L/360 of the span under all intended loads. The tile size should be at least 6" x 6". Architect, builder or design professional must specify location of control joints. Also see TCNA Handbook, Installation Method EJ171-Movement Joint Design Essentials, for industry guidelines.

FASTENING:

Wood Floors:

Minimum Thickness - $^5/_8$" exterior grade plywood or OSB fastened and glued firmly to joists as per TCNA Handbook, Installation Method F175-07-Cementitious Foam Backer Board Dry-Set or Latex-Portland Cement Mortar.

Fasten boards directly to subfloor using either the ProPanel 1 ½" Assembled Cap Nail or the ProPanel 1 ¼" Tab Washer and 1 $^5/_8$" Corrosion Resistant Screw or 0.113" x 1 ½" round top ring shank nail. Fasteners should be spaced a maximum of 8" o.c. All fastener heads should be countersunk flush with surface of the board.

INSTALLATION:

1. Apply a setting bed of polymer modified mortar over subfloor with a ¼" square notched trowel combing mortar into a ribbed bed.
2. Install ProPanel to subfloor leaving a $^1/_8$" gap between all boards.
3. All boards should be laid with staggered joints.
4. Fasten boards as outlined in the FASTENING section above.
5. Fill all joints with a polymer modified mortar and embed 2" fiberglass mesh cement board tape.

NOTE: ProPanel is completely waterproof. If the area below the backerboard must be kept dry, all fastener penetrations and joints must be sealed with WaterArmor™ liquid waterproof membrane or equivalent.

Concrete Floor:

Concrete must be fully cured and clean.

INSTALLATION:

1. Apply a setting bed of polymer modified mortar over concrete floor with a ¼" square notched trowel combing mortar into a ribbed bed.
2. Any depressions should be filled with mortar.
3. Install ProPanel leaving a $^1/_8$" gap between boards.
4. Make certain there are no voids beneath panel and that it is supported solidly.
5. All boards should be laid with staggered joints.
6. Allow mortar to harden before taping joints.

COUNTERTOPS:

Wood Counter:

Install ¾" exterior grade plywood across unit supports spaced 16" o.c. Maximum variation in plywood surface to be no more than $^1/_8$" in 10' from required plane.

FASTENING:

Fasten ProPanel to plywood using either ProPanel 1 ½" Assembled Cap Nail or ProPanel 1 ¼" Tab Washer and 1 $^5/_8$" Corrosion Resistant Screw. Fasteners should be spaced 8" o.c. All fastener heads should be countersunk flush with surface of the board.

INSTALLATION:

The following steps must be followed to maintain the waterproof integrity of ProPanel.

1. Fasten ProPanel to plywood as outlined in FASTENING section.
2. Before installing the next board, apply a ¼" bead of polyurethane sealant to the edges of the first board.
3. Install next board and apply fasteners as outlined above.
4. All boards must be fitted tightly together allowing sealant to ooze from joint.
5. All excess sealant should be spread thin ensuring a continuous seal at the joint.
6. All fasteners must be completely covered with a bead of polyurethane and spread to form a seal.

35 Year Limited Warranty

FinPan, Inc. warrants that this product meets or exceeds applicable manufacturing standards inforce at the time of manufacture. Fin Pan will, at its option, repair or replace any product which proves defective due to manufacturing. This warranty shall apply only if the product is used strictly according to applicable specifications, and/or instructions provided by Fin Pan for its use. Contact FinPan, Inc. for complete warranty details.

Performance Property	Test Method	Value
Hydrostatic Water Pressure Test	ASTM D-4068*	Pass
Resistance to Fungi	ASTM G-21	‹ 10%
Resistance to Bacteria	ASTM G-22	No Growth
Robinson-Type Floor Tester	ASTM C-627	Residential & Light Commercial

* Test was conducted in accordance with ANSI A-118.10 Section 4.5-Waterproofness

The Strength Behind the Beauty

FinPan

3255 Symmes Road • Hamilton, OH 45015
800.833.6444 • Fax 513.870.9606 • www.finpan.com