



Installation Guide

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1. Description of Ispro Systems

1.1 Ispro Conventional System Consists of:

1. Adhesive Base (Polybond) or Mechanical fasteners
2. Expanded Polystyrene Insulation board
3. Fiberglass Mesh (XS)
4. Adhesive base (Polybase)
5. Ispro Finish

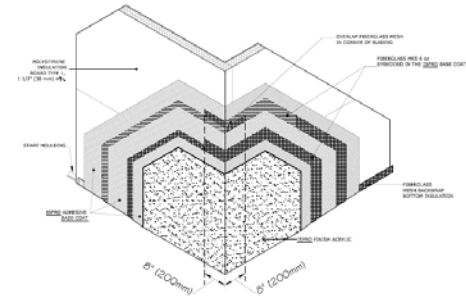


Fig 1. Installation detail

1.2 Ispro Green & Green Plus Systems:

1. Air/ Water Resistant Membrane (Pearl)
2. Adhesive (Polybond)
3. Expanded Insulation board
4. Fiberglass Mesh (XS)
5. Adhesive Base (Polybase)
6. Ispro Finish

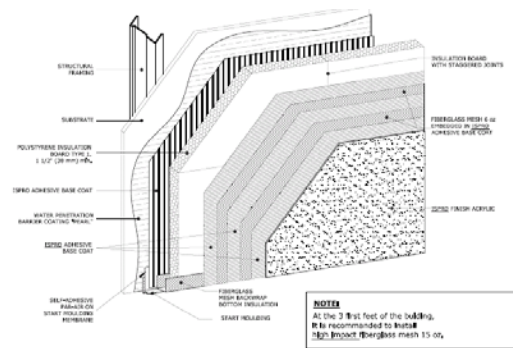


Fig 2. Installation detail

These systems have more features which are not available with other systems:

- Higher energy savings
- Extended resistance to weather
- Wall Finish without joints
- Minimum care required
- Several architectural and esthetic options to be considered

Furthermore, with Ispro Green and Green Plus System you get the same benefits as the conventional system plus:

- Air/weather resistant membrane as a second protection against humidity
- The back of the expanded insulation panel has channels to evacuate all risks of humidity behind the system

4. Pearl MPI Weather Resistant Membrane

Preparation: Pearl MPI is a two-component product to be mixed with Portland cement type 1 in equal part (1:1). The mix must be homogenous.

Application: Apply a 102 mm fiberglass mesh to joining gypsum panels around the openings (doors and windows) and at the corners. Apply a smooth coat of Pearl MPI (approx. 1/8") on top of the mesh and all over the gypsum surface which will form a continuance film of weather resistance membrane protection.

4.1 Ispro-Teck Weather Resistant Membrane

Preparation: Ispro-Teck is a one-component product especially manufactured for wood substrate construction.

Application : Apply a 102 mm fiberglass mesh for joining gypsum panels around the openings (doors and windows) and at the corners. Apply a smooth coat of Ispro-Teck (approx. 1/8") on top of the mesh and all over the wood substrate surface witch will form a continuance film of weather resistance membrane protection. You can apply Ispro-Teck with a roller, a spray gun or trowelled on.

4.2 Rubberized Membrane (Blue Skin)

Ruberized Membrane will be used around openings after the application of the weathering membrane has dried and before the windows, doors, tubing and other fixture are in. This will give you a perfect seal and protection.

5. Ispro Polybond

Ispro Polybond adhesive base is used to bond the insulation to the substrate.

Preparation: Ispro Polybond adhesive base is to be mixed with one part of Portland cement Type I and one part acrylic(1:1) and the mix must be homogenous. Never use any accelerant or antifreeze with the Ispro Polybond products. Always apply on a dry surface free from dirt, oil or dust. Never install material that previously froze or apply on a frozen surface.

6. Universal Starter Strip

Application: Always apply the adhesive on the insulation with a notched trowel (cavity of 9mm X 9mm) which will form vertical channels on the insulation. Those channels will serve as adhesive and will form channels to evacuate humidity from behind the insulation.

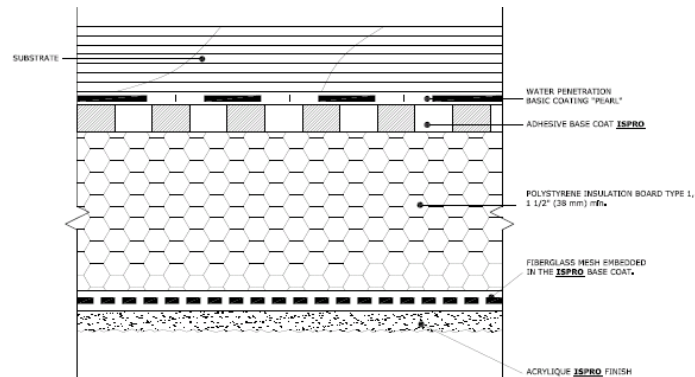


Fig 4. EPS Board & Ispro Polybond

Mechanical fasteners: Will be used when adhesive cannot be installed (ex: painted concrete). All fasteners must exceed the insulation thickness by 25 mm minimum. When using mechanical fasteners, the insulation must be of at least 38 mm of thickness. We strongly don't recommended the use of mechanical fasteners for our systems.

Plastic Starting Molding

The starter molding is installed at the bottom of the wall at a minimum height of 204 mm(8") from the ground. This molding has a "J" shape and is perforated to evacuate any humidity accumulated behind the wall. It is installed with staples and/or glued with Ispro Polybond adhesive base. The molding must be leveled. Make a line at the highest point of the plastic molding on the wall and then install.

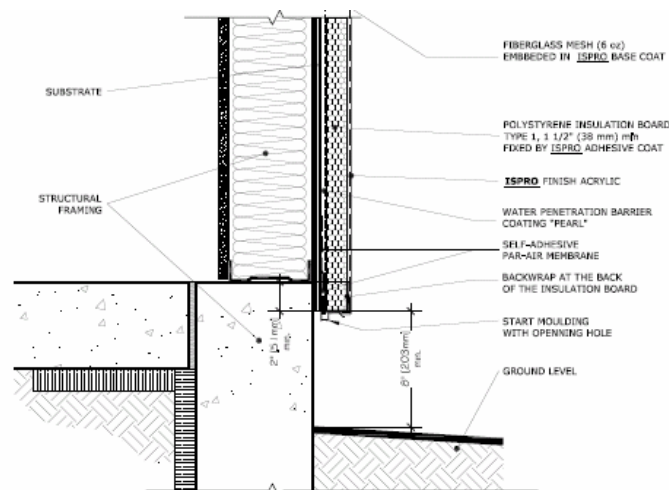


Fig 5. Ground Foundation detail

7. The Back Wrapping

Where to use the "Back wrap".

- At the beginning of the walls
- Around the openings
- At the end of the walls (roof or other walls)
- Expansion or construction joints

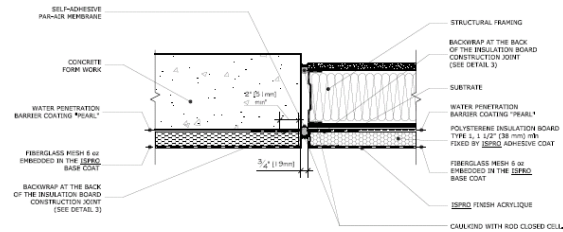


Fig 6 . Roof Standard detail

Application: Apply Ispro Polybond adhesive base to wall surface then embed pre-cut starter mesh of 240mm (9 1/2") wide in adhesive. Approximately 102 mm (4") of the mesh should be embedded in the adhesive on the wall and the rest should be used to encapsulate the insulation board. For the plastic starter strip molding the same should apply but will be applied above the "J" to be able to encapsulate the insulation. A minimum of 64mm (2 1/2') of fiberglass should be left to back wrap the front of the insulation.

8. Expanded Polystyrene Boards (EPS)

The insulation panels used are manufactured with expanded polystyrene of type I or II by an approved manufacturer by Ispro. Thickness may vary to a minimum of 25 mm (1") up to a maximum of 102 mm (4") as per specifications from the building code. The standard size for polystyrene panels is 610 mm X 1200 mm (2' X 4'). The insulation used with our systems always have channels except for the 25mm (1") panels.

All insulation panels are identified with our company's name (ISPRO) and the test number (CAN/ULC- S701-01). Manufacturing lot numbers and insulation type will be on the wrapping along with ISPRO's name.

All insulation panels must be protected from the sun and be stored flat. This will avoid damages to the panels.

9. Cutting Insulation Boards

- Use a square as a guide with an angled knife which will make it easier to cut.
- The other alternative is to cut the insulation with a table saw.
- A heating knife can also be used and purchased from Ispro.

10. Insulation Boards Preparation

Application: All insulation panels must be installed horizontally. All insulation boards will be with channels at the back (except 1" insulation). This will give you a second protection to evacuate humidity from behind insulation and the wall. Panels will intersect to avoid continuity of seams. For all interior or exterior corners you must intersect the panels to ensure that there is no continuity in the seams. Always misalign the panels to make sure no seams are equal with the starting seams.

Any spacing of more than 1.6mm (1/16") between panels will have to be filled with either a sliver of insulation or some short retention urethane. Once injected with the urethane, wait until everything is dry then sand it to level. This will avoid any future problems of thermal bridging and will reduce the usage of Ispro Polybase base adhesive.

The most important step with Ispro Systems is the preparation of the insulation. This is the only way to correct defects on wall. Always sand the complete wall and verify with a plumb bob or a level to find any cavities or defects. Industrial sanders are available at Ispro or you can make one with a piece of plywood 1/2" and a sheet of Floor sandpaper #16.

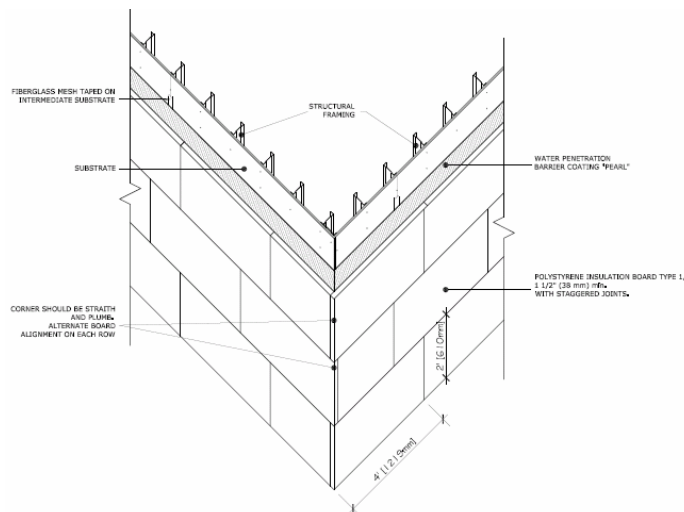


Fig 7. Insulation Board Disposition

On a winter project, you might install only the insulation. Since the insulation will be exposed to the sun for a long period of time, it will form a film or a yellow dust on the surface. It is very important to sand the complete surface without leaving any residue or debris, and to repair any damaged material everything must be repaired before being able to apply the Polybase adhesive base.

11. Expansion Joints Recommendations

All expansion joints for the Ispro Systems are the responsibility of the professionals for the project and it must be indicated clearly on the construction drawings. But a minimum of expansion joints should be respected.

11.1 Areas where the substrate indicates an expansion joint.

11.2 When an addition to an existing building, an expansion joints is necessary between new and old buildings. (Fig.9)

11.3 At floor levels of wood construction (Fig 8)

11.4 Also at floor level of other types of construction substrate when excessive movement may occur (always verify with professionals of the projects) (Fig 8)

11.5 When the Ispro Systems abuts to a different cladding.

11.6 When a change of substrate occurs on a building (Fig 9) wood construction & * ICF Extension)

•**ICF** : Insulated Concrete Forms

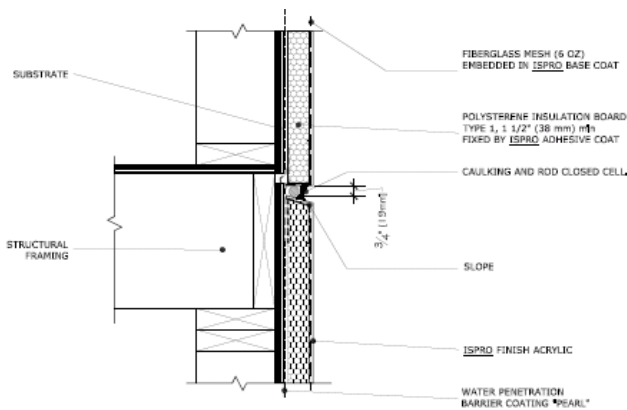


Fig 8. Horizontal Construction Joint detail

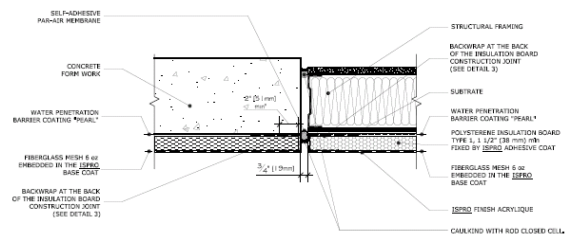


Fig 9. Vertical Construction Joint detail

12. Designed Architectural Groove Samples

When using esthetical joints we have a few recommendations that might be important for you to follow.

12.1 The minimum thickness between the insulation and the substrate after the esthetical joint has been cut must have a minimum of 19mm (3/4").

12.2 Always have a slanted angle towards the exterior to evacuate all forms of liquids that might be on the wall.

12.3 Always use fiberglass mesh encapsulated in the Ispro Polybase in the full length of the esthetical joint.

12.4 Always follow shop drawing and workbook designed by the professional of the project(s). (ex: Type of joint, size and models).

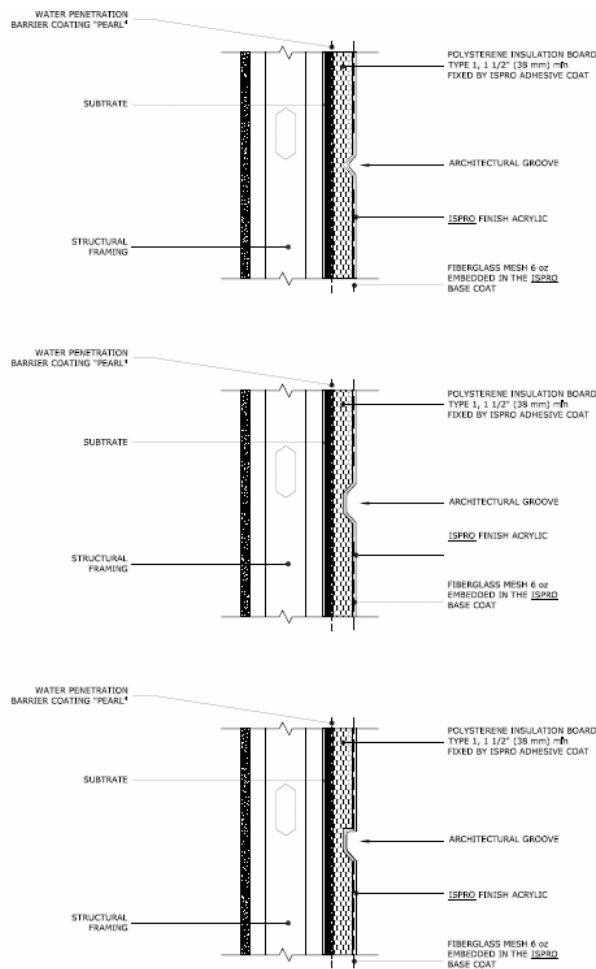


Fig 10, 11 & 12. Design Architectural Grooves

13. Ispro Polybase

The next step of our system is the Ispro Polybase adhesive base. We have two choices of adhesive to install on the insulation:

1. Ispro Polybase: Is a two-component product, a latex base and Portland cement type I. The mixing ratio is 1:1 equal part, it has to be mixed together with a low speed concrete drill so the mix is homogenous.
2. Ispro Polybase DM: One-component dry product, 22.7 kg bag pre-mixed with cement, just add water and mix with a low speed mixing drill so mix is homogenous.

Application: Apply one even coat of Ispro Polybase adhesive base (approx. 3 mm or 1/8 ") thick on insulation, embed the fiberglass mesh either horizontal or vertical into the base. Smoothen up the fiberglass mesh with a galvanized steel trowel to hide the mesh into the Ispro Polybase adhesive base. You should not be able to see any mesh. When joining the fiberglass mesh you must overlap it a minimum of 64 mm (2 1/2") to make a continuous strip of mesh. If installed side by side, a crack will appear between both mesh.

Warning: Never use any accelerant or antifreeze with Ispro Polybase adhesive base products. Always apply on a dirt, dust and oil free surface. Never apply material that froze or on frozen surface.

14. High Impact Fiberglass Mesh:

Many projects will be done with coatings, but some of them will require more reinforcement. When needed we offer a High Impact Mesh that can be installed at critical point to any height. Certain places are critical when installing coating like: bottom of walls to high circulation places (by people or vehicle), around garage or entrance doors, those are some of the places where we suggest installing high impact mesh.

***** Very important**

High Impact Mesh cannot be overlapped but side by side. Once application is dry, apply another coat of Ispro Polybase adhesive base on top of dry coat then incorporate a X.S Mesh in the Ispro Polybase adhesive base coat and embed mesh. All insulated walls will need to be covered with Ispro Polybase adhesive base and an X.S Mesh. Once Dry, you may apply a coat of finishing primer (Isproll) on top of the Ispro Polybase adhesive base.

15. Isproll (Primer Base)

Ispro offers you a product that can be used as a primer coating and can be colored the same color as your finishing coat. One of the benefit of this product is it reduces the risk of efflorescence of cementitious products and will enrich the color of your top coat.

16. Ispro Finish

Ispro finishes are 100% acrylic and are offered in different textures and colors.

Preparation: Always mix your coating before application and adjust viscosity with water to make it easier to apply on wall. Always use a galvanized steel trowel to apply but you can use a plastic trowel for floating. Always use the same trowel to float the walls so you don't mix plastic and metal if not, you will see a change in the finished look. We recommend that two people work together to apply the coating, one that does the application with the steel Trowel and the other float with either a metal or a plastic trowel to give the wanted texture.

Always apply the finishing coat on an Ispro Polybase adhesive base because the products are compatible. Avoid applying the coating in the sun because there is a risk that the scaffold could show on your finished wall. Make sure that the Polybase adhesive coat is dry and dust free before applying on top of the coat.

Always finish the wall or walls when doing the finish coat because if you don't, the finish will be different and uneven. Always have a humid seam at the end in order to continue the application of the finish coat on the in such a way that there will not be any difference.

Before starting, verify that all the containers are preferably from the same lot to avoid variation in color on the wall section to be applied on.

The application is always dictated by the size of the grain. Always go in the same direction when floating. Either clockwise or counter clockwise because any change could change the wall's texture. To avoid any problems when floating we advise you to roll in a figure "8" so everything is uniform.

17. Description of Different Ispro Finishes :

Quartz Finish: 100% acrylic finish with sand, 30 kg pail. Covers 150 sq.ft. Many colors available.
Application with trowel or spray gun.

Sablee Finish: 100% acrylic finish with sand, 30 kg pail. Covers 160 sq. ft. Many colors available.
Application with trowel or spray gun.

Marble coat Finish: 100% acrylic finish with sand, 30 kg pail. Covers 160 sq.ft. Many colors available.
Application with trowel or spray gun.

Tornado Finish: 100% acrylic finish with sand, 30kg pail. Covers 150 sq.ft. Many colors available.
Application with trowel or spray gun.

Canyon Finish: 100% acrylic finish with sand, 30 kg pail. Covers 120 sq.ft. Many colors available.
Application with trowel or spray gun.

Brume Finish: 100% acrylic finish with very fine sand, 20kg pail. Covers 875 sq.ft. (2 coats). Many colors available.
Application with a 13mm roller or a paintbrush or by spray gun. Used for refreshing existing acrylic finishes or stucco.

Elastomeric Finish: Decorative elastomeric finish without sand, 18.9 lt pail. Covers 620 sq.ft. Many colors available.
May be sprayed and/or applied with either a paintbrush or a roller. Used for refreshing existing acrylic finishes and stucco.

*****Very important:**

Never use any accelerant or antifreeze with Ispro finishing products. Always apply on a dry, dust, oil or dirt free surfaces.

Never apply materials that froze. Never apply on a frozen surface. Temperature may vary the drying time for the Ispro Polybase adhesive base and finishing coats. Always verify that work is protected from weather for the required drying period. Always maintain temperature above 4°C (40° F) for 24 hours.

18. Maintenance and Sealant for the Systems

Ispro finishing systems require minimal maintenance. It is very important that all openings are sealed when work is done and visually inspected once a year and any defects are to be repaired as soon as possible to avoid water infiltration.

Use a soft caulking for exterior finishing systems. For more information, contact us concerning product selection for caulking.

Any damages to the finish will have to be repaired as soon as possible to avoid any risk of infiltration.

The Ispro finishes are factory tinted. But to refresh your project, it is possible to do it with Brume Finish or Isprolastic Paint .

Before painting, there are some steps to follow;

- Clean all the walls to remove any trace of dust, oil and dirt.
- Do all repairs required on the wall (ex. holes)
- Visually inspect all caulking
- To paint the walls, two coats of paint may be necessary.
(if a color change, it may require more than two coats.)

It is recommended to clean the walls with a soft bristles brush and a mix of dishwashing soap.
(20 ml of soap for 20 liters of water)

If using hot water, temperature of water should not exceed 150°F.

A low pressure wash might be efficient in some case.

***** Important**

*Never use solvents such as acetone, ether, gasoline, mineral spirit, naphthalene, turpentine on the acrylic substrate.
Always do a test on a small hidden surface to see reaction.*

19. Critical Prevention Points. Fig 13-16

Problems with moisture intrusion are not caused by default of materials. Often the cause is related to poorly executed details on the job site where all sources of liquid are not evacuated to exterior of the wall surface. To prevent some infiltrations, we recommend some details that can help you prevent some problems. Most details suggested will need a transition flashing between the elements.

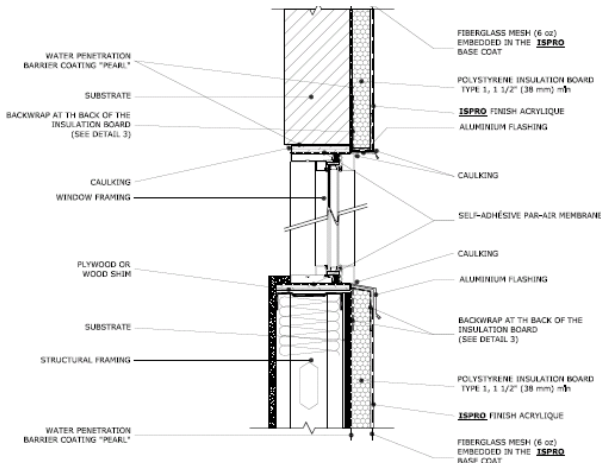


Fig 13. Window Aluminum Flashing detail

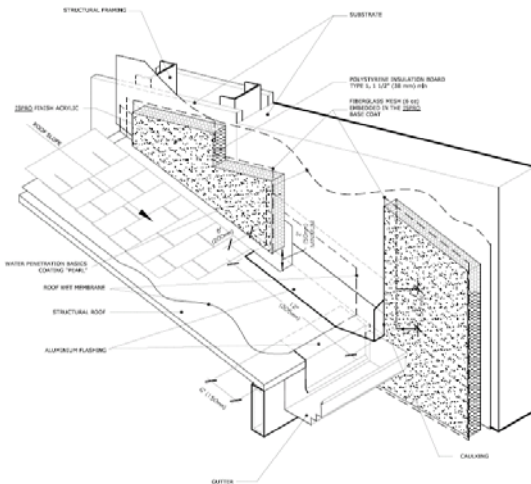


Fig 14. Roof Junction detail

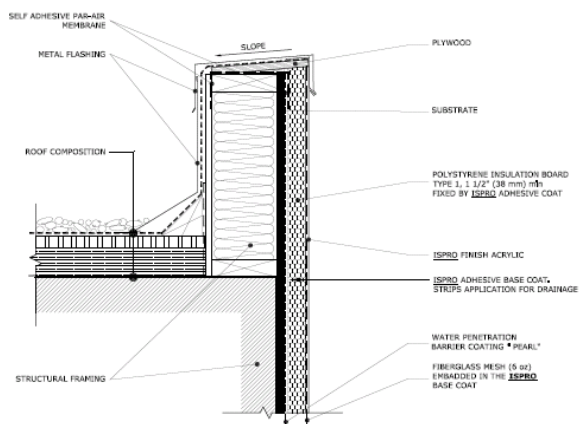


Fig 15. Roof Standard detail

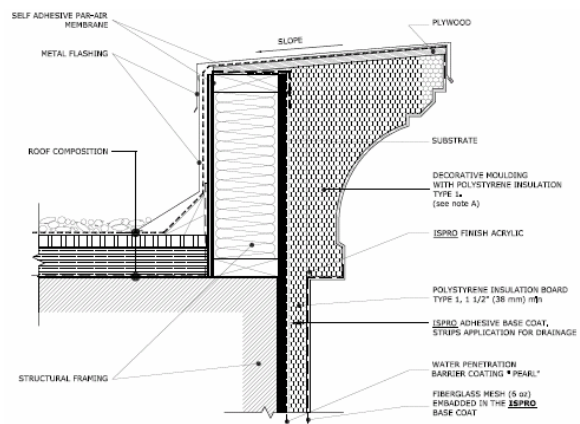


Fig 16. Roof Design details

19. Critical Prevention Points (Fig 17-19).

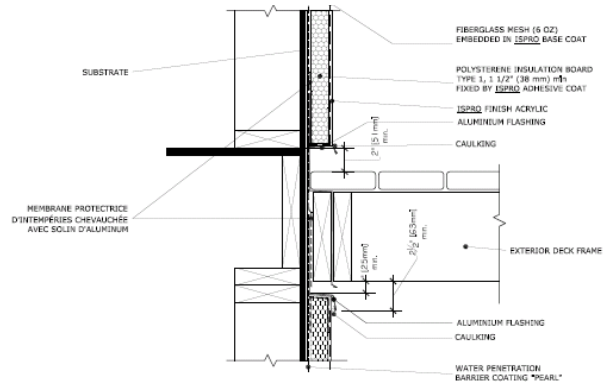


Fig 17. Exterior Deck detail

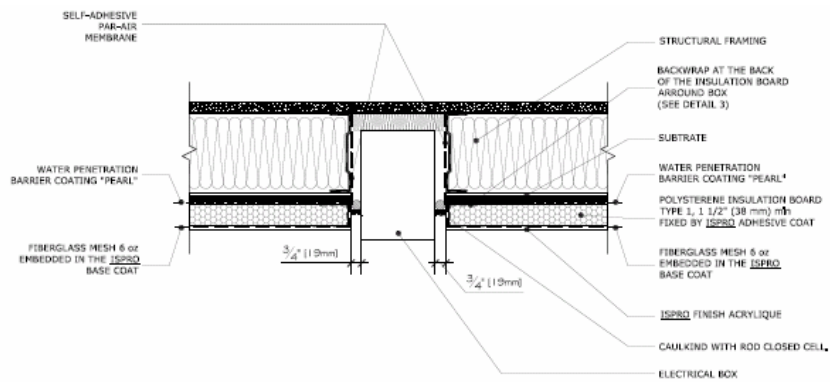


Fig 18. Electrical Box Opening detail

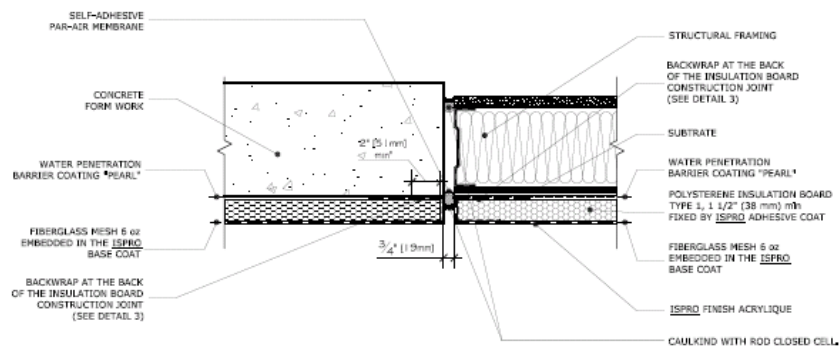


Fig 19. Vertical Joint detail

20. Summary

General Information

1. Always read attentively all drawing and shop books before and never deviate from the documents.
2. Always follow manufacturer's instruction regarding preparation of materials.
3. Always apply products above recommended temperature (4°C/40°F) if below temperature, a shelter must be built and heated to maintain temperature to spec, for 24 hours. Never add any accelerants or other substances that are not recommended by Ispro.
4. Always apply on a dry and clean surface (exempt of dirt, oil and other) and the surface must not have any frost.
5. Never apply a product that already froze.
6. All acrylic must be applied vertically to all wall surfaces. If application must be applied to a horizontal inclination, we suggest that a metal flashing be applied to evacuate all liquid substance towards the exterior.
7. Always apply the Ispro Polybond adhesive base to the insulation board and not directly to the substrate.
8. Always make sure that all liquid substance are deviated towards the exterior of the wall and not into the wall cavities.

Polystyrene Insulation Board (EPS)

1. When applying insulation board all joint with more than 1.6mm (1/16") will need to be filled with a sliver of foam. Never use Ispro Polybond or Polybase to fill in the cavities .
2. Always store insulation board in a shelter away from direct sunlight or on its edges because you will cause damages to the board. Never put other accessories on top of the insulation boards that can damage them. (pails, cement bags).
3. Always use type 1 expanded polystyrene board with standard size of 610mm x 1219mm (2' x 4') with a minimum thickness of 25mm (1") as recommended and sold by Ispro or an approved distributor.
4. Always bridge the insulation boards when installing them to the wall to prevent them from forming a continuous joint. We recommend a bridging of 204 mm (8") minimum apart.
5. Always rasp the entire wall surface to remove all imperfection and debris accumulation (dirt).
6. When cutting architectural joints, always ensure that you respect the minimum thickness of insulation between the insulation and the substrate (19mm or ¾") to avoid all cracking or failure.

Ispro Polybase Adhesive Base & Fiberglass Mesh

1. Always apply an uniform layer of Ispro Polybase all over the insulation boards on the wall and embed the fiberglass mesh in the Ispro Polybase. Make sure that the fiberglass mesh is applied continuously on the insulation board. Always overlap the X.S fiberglass mesh at the joint area. The joint must overlap a minimum of 64mm (2 ½”).
2. ***** Exception: the High Impact mesh must never be overlap.
3. Never apply Ispro Polybase on a humid surface or frozen because of a risk of de-lamination may occur.
4. Always make sure that the fiberglass mesh is always embedded in the Ispro Polybase and non apparent.

Ispro Finishes

1. Always apply an uniform layer of Ispro finish to the wall. The biggest aggregate in the finish will give you the thickness need to apply the finish to the wall. Never apply the Ispro Finishes in direct sunlight.
2. Never apply Ispro Finishes direct to sealants or caulking.
3. Always apply the Ispro finishes on vertical wall surfaces and always make sure walls are exempt of all foreign debris.

Maintenance

1. Sealants and caulking must be applied immediately after the Ispro acrylic systems are completed on the project.
2. A certain maintenance is required for your Ispro coating to be able to keep its maximum performance. An annual inspection is recommended for all caulking and sealants, a spring cleaning of the walls with water and soap and verify if any cracks or dents occurred, so they can be repaired.

21. Product Descriptions & Coverage

MEMBRANES , ADHESIVES ET FINISHES	Description	Coverage
Regular Finish (30 kg)	100% Acrylic Finishes	+/- 150 sq/ft
Marble Coat Finish (30 kg)	100% Acrylic Finishes	+/- 175 sq/ft
Canyon Finish (30 kg)	100% Acrylic Finishes	+/- 150 sq/ft
Sablee Finish (30 kg)	100% Acrylic Finishes	+/- 120 sq/ft
Brume Finish (20 kg)	100% Acrylic Finishes	+/- 675 sq/ft / 2 layers
Tornado Finish (30 kg)	100% Acrylic Finishes	+/- 160 sq/ft
Adhesive base (25 kg)	Adhesive 1:1 mix with Portland Cement	+/- 140 sq/ft
Adhesive Reinforce Base (hardcoat) (25 kg)	Modified Polymer Adhesive 1:1 mix with Portland Cement	+/- 60 sq/ft
Nivopro Base (25kg)	Leveling Modified Polymer 1:1 mix with Portland Cement	+/- 60 sq/ft
Pearl MPI (25 kg)	Air-Barrier Membrane 1:1 mix with Portland Cement	+/- 190 sq/ft
Isproteck (28.2 kg)	Air-Barrier Membrane for Wood	+/- 525 sq/ft
Isproteck plus (30.2 kg)	Filler for joints on Substrat	+/- 150-200 li/ft
Isprolastic Paint (18.9 Its)	Decorative Elastomeric Paint	+/- 550 sq/ft
Portland Ciment type 10 (30 kg)	Portland Cement	
Isproll Primer (18.9 liter)	Primer for Cementitious Substrat	+/- 1200 sq/ft
Bakor 230-21 Adhesive Clue (18.9 litre)	Solvent Base Adhesive for Insulation	+/- 70 sq/ft
Multi-Purpose Adhesive Clue S-0225 (23 kg)	Solvent Base Adhesive for Multi-Purpose Usage	+/- 70 sq/ft

INSULATION	Description	Board Foot
Expandable Polystyrene Insulation type 1 (2x4) 1/2"	Insulation EPS Board	4
Expandable Polystyrene Insulation type 1 (2x4) 3/4"	Insulation EPS Board	6
Expandable Polystyrene Insulation type 1 (2x4) 1"	Insulation EPS Board	8
Expandable Polystyrene Insulation type 1 Groove (2x4) 1 1/2"	Insulation EPS Board	12
Expandable Polystyrene Insulation type 1 Groove (2x4) 2"	Insulation EPS Board	16
Expandable Polystyrene Insulation type 1 Groove (2x4) 2 1/2"	Insulation EPS Board	20
Expandable Polystyrene Insulation type 1 Groove (2x4) 3"	Insulation EPS Board	24
Expandable Polystyrene Insulation type 1 Groove (2x4) 4"	Insulation EPS Board	32
Expandable Polystyrene Insulation type 1 Groove (2x4) 5"	Insulation EPS Board	40
Expandable Polystyrene Molding * (sold TB/FT)		
Polyisocyanurate Insulation Celotex Quik-R (4' X 9' X 5/8")	Polyisocyanurate Insulation	32 sq/ft

TB/FT = Thousand Board Feet

FIBERGLASS MESH	Description	Coverage
Detail Fiberglass Mesh self Adhesive 2oz	Fiberglass Mesh used for Decorative Molding	425 sq/ft
Fiberglass Mesh 4.5oz	Fiberglass Mesh used for Cement Board & Insulation Systems	425 sq/ft
Fiberglass Mesh Red Stripe 6oz Soft	Fiberglass Mesh used for Insulation Systems	425 sq/ft
Fiberglass Mesh 6oz Rigid	Fiberglass Mesh used for Insulation Systems	425 sq/ft
Fiberglass High Impact Mesh 15 oz	Fiberglass Mesh used to reinforced the walls	225 sq/ft
Fiberglass PM Mesh (blue)	Fiberglass Mesh used for Extruded Insulation Systems	425 sq/ft
Fiberglass Mesh for Cement Board Application 4.5oz (6")	Fiberglass Mesh used to joint Cement Board s	150 li/ft
Detail Fiberglass Mesh 4.5oz (9 1/2")	Fiberglass Mesh used to Backwrap Openings	150 li/ft

MECHANICAL FASTENERS	Description	Quantities
Concrete plastic nail 2 3/4" Technofix	Plastic nail used to fastened insulation to concrete substrat	250 / box
Concrete plastic nail 3 1/2" Technofix	Plastic nail used to fastened insulation to concrete substrat	200 /box
Concrete plastic nail 4 3/8" Technofix	Plastic nail used to fastened insulation to concrete substrat	200 /box
Concrete plastic nail 5 1/4" Technofix	Plastic nail used to fastened insulation to concrete substrat	100 /box
Spiral Galvanized nail 2 1/2" - 3" - 3 1/2"	Nail used to secure EPS Insulation Moldings	25 lbs
Galvanized Plasticap 2"	Galvanized nail with washer used to secure EPS to wood subst.	2000 / box
Galvanized Plasticap 2 1/2"	Galvanized nail with washer used to secure EPS to wood subst.	2000 /box
Galvanized Plasticap 3"	Galvanized nail with washer used to secure EPS to wood subst.	2000 /box
Galvanized Plasticap 4"	Galvanized nail with washer used to secure EPS to wood subst.	1000 /box
Wood Pick Skewers 4"	Wood Pic used to secure EPS Molding	1000 /box
Wood Pick Skewers 7"	Wood Pic used to secure EPS Molding	1000 /box
Wood screw & washer 2 1/2" Assembled	Mechanical Fastener used to secure EPS to wood substrat	500 /box
Wood screw & washer 3" Assembled	Mechanical Fastener used to secure EPS to wood substrat	500 /box
Wood screw & washer 4" non Assembled	Mechanical Fastener used to secure EPS to wood substrat	500 /box
Wood screw & washer 5" non Assembled	Mechanical Fastener used to secure EPS to wood substrat	500 /box
Metal screw & washer 2 3/8" Assembled	Mechanical Fastener used to secure EPS to gypsum substrat	500 /box
Metal screw & washer 3" Assembled	Mechanical Fastener used to secure EPS to gypsum substrat	500 /box
Metal screw & washer 4" non Assembled	Mechanical Fastener used to secure EPS to gypsum substrat	500 /box
Metal screw & washer 5" non Assembled	Mechanical Fastener used to secure EPS to gypsum substrat	500 /box
Plastic Washer 1 3/4"	Plastic Washer used for mechanical fasteners	1000 /box
Plastic Washer 1 3/4" large hole	Plastic Washer used for mechanical fasteners such as Spex	1000 /box
Plastic Washer 3"	Plastic Washer used for mechanical fasteners such as Gripcon	1000 /box

MECHANICAL FASTENERS	Description	Quantities
<i>Now Sold with Plastic Washers non assembled in boxes of 100</i>		
Plastic Washer & Spex Screw 3 3/4" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 / box
Plastic Washer & Spex Screw 4 3/8" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 5" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 6" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 7" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 8" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 10" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box
Plastic Washer & Spex Screw 12" auto	Mechanical Fastener to hold Insulation Molding to Substrat	100 /box

ACCESSORIES	Description	Length
Plastic Starter Strip perforated 1 1/2"(STDE-15)	Plastic Perforated Starter Strip 1 1/2" for EPS Insulation	8 li/ft
Plastic Starter Strip perforated 2"(STDE-2)	Plastic Perforated Starter Strip 2" for EPS Insulation	8 li/ft
Plastic Starter Strip Universal (W-UST)	Plastic Universal Starter Strip for EPS Insulation 1" to 5"	8 li/ft
Plastic Molding Controle Joint 1/4" (#3322)	1/4" Control Joint for Cement Board	10 li/ft
Plastic Molding Controle Joint 3/4" (#3323)	3/4" Control Joint for Cement Board	10 li/ft
Decorative "U" Plastic Molding 1" (8013)	Decorative "U" Plastic Molding for Cement Board	10 li/ft
Corner Plastic Molding (#8033)	Corner Plastic Molding for Cement Board	10 li/ft
Soffit Plastic Molding (#W5V548-1)	Plastic Soffit Vent for 1" Insulation	10 li/ft
L-Trim Plastic Molding (#8017)	L-Trim Plastic Molding for Cement Board	10 li/ft
Flat Soffit Plastic Molding (8035B)	Flat Plastic Soffit Vent for Cement Board & EPS Insulation	10 li/ft
Plastic Ventilated Starter Strip Molding (#8034)	Plastic Vent. Starter Strip for Cement Board	10 li/ft
Aperture Bead Plastic Molding (#4173)	Plastic Molding for Perimeter of Opening for Cement Board	10 li/ft
Black Paper #065000	Construction Black Paper used for Protection	400 sq/ft
Plastic Film 6mm	Plastic Film used for Protection	1000 sq/ft
Plastic Tyvek Tape # 1585-CWP	Plastic Tape used to seal the Stuccowrap	66m
Masking Tape 1 1/2" #50124 (36mm x 55mm)	Paper Masking Tape 1 1/2"	55 m
Masking Tape 2" #50124 (48mm x 55mm)	Paper Masking Tape 2"	55 m
Plastic Masking Tape Red # 234	Plastic Masking Tape red for longer protection	55 m
Plastic Masking tape Blue	Fabric Masking Tape for longer protection	55 m
Tyvek Stucco Wrap (W-TSW5)	Homewrap specialy design for Stucco Application	5' x 200'
Plastic Tarp	Construction Tarp used to make a shelter for scaffolding	50' x 30'
Blue skin Self-Adhesive Membrane	Self Adhesive Membrane for sheathing Substrat	6" x 75'
Plastic Pail	Plastic Pail	18.9 lts
Plastic Cover	Cover for Plastic Pail 18.9lts	n/d

TOOLS	Description	Items #
Hot Knife Kit	Hot Knife kit with cutting blades	2-QCKIT
Hot Knife Strait Blades 12"	Flat Blade Material for bending in the form desired	Q-SBM128
Straight 6" Blade for Knife	Straight Blade for cutting Insulation	Q-SB6
Ever Rasp 4" x 14"	Metal Rasp for EPS Insulation	I-UGZ4
Ever Rasp 4" x 14" Toothed Edge	Metal Rasp & Shaving for EPS Insulation	I-TUGZ4
Ever Rasp 6" x 14"	Metal Rasp for EPS Insulation	I-UGZ6
Ever Rasp 6" x 14" Toothed Edge	Metal Rasp & Shaving for EPS Insulation	I-TUGZ6
Durasp 6"	Metal Rasp for EPS Insulation	T-DR6
Masonry Drill Bite 5/16" x 6" SDS	Masonry Drill Bits for use with Hammer Drill SDS (1" to 2 1/2")	PNSDS6
Masonry Drill Bites 5/16" x 8" SDS	Masonry Drill Bits for use with Hammer Drill SDS (1" to 5")	PNSDS8
Masonry Drill Bites 5/16" x 4 3/4"	Masonry Drill Bits for use with Hammer Drill reg (1" to 2 1/2")	PNSB43/4
Masonry Drill Bites 5/16" x 7 7/8"	Masonry Drill Bits for use with Hammer Drill reg (1" to 5")	PNSB77/8
Marshalltown Hawks (13"x13")	Platform to receive product	T-H13
Marshalltown Trowel 4"x12"	Stainless Steel Trowel	#03445
Plastic Floats (5"x11")	Plastic Trowel for Finish Coat	T-PFTAN
Plastic Texture Trowel	Plastic Trowel for Texture	T-PFW
Outside Corner Edger Trowel	Corner Trowel 90	T-E15
Galvanized Mixing Blade for Finishes	Mixing Blade mostly used for Finishes	B-M1
Square Mixing Blade	Multi-Purpose Mixing Blade	B-MSQ
Bucket Dredger	For scooping material out of buckets	B-DR
Bucket Opener	Tool for Opening covers on Buckets	B-BO1

TECHNICAL DATA

PEARL MPI

DESCRIPTION:

PEARL MPI from ISPRO is a two component cementitious membrane applicable with a trowel and specially developed as an air barrier membrane with a good water resistance for exterior mineral substrates such as plaster cover with fiberglass sheet, plasters and concrete panels.

PEARL MPI is a flexible component a acrylic polymer reinforced with fibers in order to improve strength and rheology necessary to fill gaps between panels with ISPRO mesh (6").

Once mixed with Type 10 Portland cement, **PEARL MPI** will offer a very low water absorption coefficient combined with excellent flexible strength. This will result in a very good two component air and water barrier.

PEARL MPI could be coated until 1/8" (3.2mm) minimal thickness. Recommended drying time is 24 hours.

PEARL MPI could also be used as an adhesive for the expanded polystyrene sheet (EPS). A thickness of 1/8" (3.2mm) is required when used as an adhesive.

Features	Benefits
➤ Excellent water resistance.	➤ Exterior uses.
➤ Flexible membrane.	➤ No cracking.
➤ Fibers content.	➤ No sagging on vertical application.
➤ Low minimum film forming temperature.	➤ Could be coated as low as 4°C (39°F).

PHYSICAL PROPERTIES:

Solids content (%) :	66
pH :	7.0
Viscosity with model Brookfield RVT, spindle no. D / 10 rpm (cps) :	60 000
Density at 20°C (g/cm3) :	1.32
Vapours permeability with ASTM E-96 (gr /m2h) :	0.84
Glass transition temperature at mid point / Tg (°C) :	-13
Water coefficient absorption (kg / m2 s1/2) :	0.002
Mixing ratio Pearl MPI : Cement Portland Type 10 in weight :	1 : 1
Pot life when mixed with cement (min) :	30
Coverage superficies per 18.9 L pail (5 gal..U.S.)(sq.ft.) :	180

TECHNICAL DATA

PEARL MPI

APPLICATION:

Pour approximately 12 kg of Portland cement in a **PEARL MPI** pail containing half of the original weight. Be sure you are mixing (high speed) when you are pouring the cement. Mix until complete dispersion and homogeneous consistency. Wait 5 minutes, mix again for one (1) minute.

PRECAUTION:

PEARL MPI is not recommended on wood (plywood).

Minimum coating temperature is 4°C (40°F).

Be sure that substrates will be free of dust, grease, oil, rust or any of her impurities that can reduce the adhesion. Maximum gaps between two sheets should not be superior to 1/8" (3.2 mm). Avoid freezing the material.

STORAGE AND PACKAGING:

PEARL MPI is available in 18.9L pails (5gal. U.S.). The product is stable for 12 months if stored at temperature between 4°C (40°F) and 21°C (70°F) in the appropriate containers, away from direct sun.

For more information concerning the handling, the manipulation or the use of this product, please consult our material safety data sheet or consult our technical service department.



TECHNICAL DATA

ISPRO-TECK & ISPRO-TECK PLUS

DESCRIPTION:

ISPRO-TECK & ISPRO-TECK PLUS are ready to use, aqueous, one component and flexible membranes. They are air and water barrier. We can apply them with trowel, roll or by spray. When use directly on wood, concrete or plaster, they will improve weatherability of the building.

Because of his more viscous texture, **ISPRO-TECK PLUS** can be coated in the vertical and horizontal gaps between sheets. **ISPRO-TECK** is coat on the surface of the substrates to a maximum of 0.010" (0.254mm).

ISPRO reinforced fibre glass mesh bands of 4" (101.6mm) need to be used in the gaps with this system in order to reinforced the board.

ISPRO-TECK & ISPRO-TECK PLUS are considered as ecological products and do not release any VOC.

Features	Benefits
➤ Water resistance.	➤ Avoid water infiltration in the wall.
➤ Vapour permeability.	➤ Humidity is not trapped in the walls.
➤ Air resistance.	➤ Reduce risk of condensation caused by air links. Reduce cost of heating or cooling.
➤ No joint.	➤ Uniform membrane.

PHYSICAL PROPERTIES:

	ISPRO-TECK	ISPRO-TECK PLUS
Solids content (%) :	76 82	
pH :	9.0 8.0	
Viscosity with Brookfield RVT model, Spindle no. D / 10 rpm (cps) :	30 000	80 000
Density at 20°C (g/cm3) :	1.49 1.60	
Vapour permeability (1 inch) with ASTM E-96 (perms) :	5 17	
Glass transition temperature at mid point / Tg (°C) :	+1 -11	



TECHNICAL DATA

ISPRO-TECK & ISPRO-TECK PLUS

APPLICATION :

ISPRO-TECK & ISPRO-TECK PLUS can be applied with a trowel, by spray or roll. Surfaces should be clean, dry and exempt of oil, grease or dust. Each individual product needs to be mixed prior to use.

A- ISPRO-TECK PLUS

Use a flat trowel in order to fill the vertical gaps. Apply Ispro fibre glass mesh when **ISPRO TECK-PLUS** still humid in the joints. Protect from rain and freezing. After 4 hours, product is ready to be covered with **ISPRO-TECK**.

B- ISPRO-TECK

Use a roller or pump to coat **ISPRO-TECK** in thin layer of 0.010" (0.254 mm). Drying time is approx. 4 hours. However, it is recommended to wait 24 hours before applying **ISPRO BASE COAT AND ADHESIVE**.

PRECAUTION :

ISPRO-TECK & ISPRO-TECK PLUS should be coated at temperature between 5° and 40° Celsius. No additive should be added to increase the setting time.

STORAGE AND PACKAGING :

ISPRO-TECK is available in 2 8.2 Kg (18.9L) pails and **ISPRO-TECK PLUS** is available in 30.2 Kg (18.9L) pails. The products are stable for 12 months if stored in conditions of minimum 5° Celsius and maximum 40° Celsius in the appropriate container.

For more information concerning the handling, the manipulation or the use of this product, please consult our material safety data sheet or consult our technical service department.



TECHNICAL DATA

ISPRO POLYBOND & POLYBASE

DESCRIPTION:

ISPRO POLYBOND & POLYBASE is 100% acrylic product that request to be prepared on job site. We need to mix it with Portland cement type 10 in a ratio of 1 to 1 (in weight) in order to get an homogeneous paste.

USES :

ISPRO POLYBOND & POLYBASE is use as an adhesive for expanded polystyrene (ISPRO foam) on walls substrates or to cover the ISPRO reinforced fiberglass mesh. Product could also be use directly on concrete or masonry as leveling coating.

Features	Benefits
➤ Free ze-thaw stable.	➤ Could be used in cold climates.
➤ Good resistance to ageing.	➤ 5 years guarantee.
➤ Good resistance to alkali.	➤ Compatible with cement.
➤ Water absorption < 15%.	➤ Reduce water infiltration.

PHYSICALS PROPERTIES:

Solids (%) :	65.0
pH :	8.0
Viscosity with Brookfield RVT model, spindle no. D / 10 rpm (cps) :	55 000
Vapours permeability (1 inch) with ASTM E-96 (perms) :	2.66
Glass transition temperature at mid point / Tg (°C) :	15
Adhesion strength CCMC 6.4.2 (MPa) :	0.3
Covering power for a pail of 25 kg. (55.1 lbs) (sq.ft)	140



TECHNICAL DATA

ISPRO POLYBOND & POLYBASE

BLEND:

Blend carefully using high speed drill, **ISPRO POLYBOND & POLYBASE** with Portland cement type 10 in a ratio of 1 to 1 in weight. Wait 5 minutes and mix again for 1 minute. A maximum of one (1) cup of water could be added in the pail in order to adjust the viscosity. If water needs to be added, you must add the same amount for each pail. When mixed with cement, pot life of the blend is 30 minutes.

In normal condition, we need to wait 24 hours before applying the **ISPRO FINISH** coat.

SUBSTRATES PREPARATION :

The use of **ISPRO POLYBOND & POLYBASE** must be approved by a **ISPRO** representative before coating. Recommended substrates are : exterior gypsum sheathing covered with fiberglass on wood or metal studs, concrete (without paint) , masonry blocks, bricks or stucco.

Unevenness (slope) of the walls should not exceed 1/4" (6.4mm).

APPLICATION

- 1) Application is done with a 3/8" x 3/8" notched trowel on the back of the insulation board (EPS foam).
- 2) For the application on concrete and other similar masonry, apply with the trowel on the perimeter of the insulation board to form 1 1/2" ribbons. Then apply 6 to 8 spots in 3" circles and 1/2" thickness.
- 3) With a trowel, cover the **ISPRO** insulation boards with 1/8" approximately of **ISPRO POLYBASE**. Embed the fiberglass mesh into the base coat with a trowel until it is not apparent.
- 4) One pail of **ISPRO POLYBOND & POLYBASE** can cover 140 sq.ft.

PRECAUTION:

ISPRO POLYBOND & POLYBASE should be coated at a minimum temperature of 40°F(5°C) and should be curing for a period of 24 hours before the Ispro finish coat is applied. No additive should be added to increase the setting time.



Tel : (450) 974-1001
Watts : 1 800 363-2660
Fax : (450) 974-0162

1001 Industrial blvd.
Saint-Eustache (Quebec)
Canada, J7R 6C3

E-MAIL : info@tritex.com

TECHNICAL DATA

ISPRO POLYBOND & POLYBASE

STORAGE AND PACKAGING:

ISPRO BASE COAT & ADHESIVE is available in 25 kg. (55.1 lbs) The product is stable for 12 months if stored in conditions, which vary between 4°C(40°F) and 21°C(70°F), in the appropriate container, away from the sunlight.

For more information concerning the handling, the manipulation or the use of this product, please consult our material safety data sheet or consult our technical service department.



TECHNICAL DATA

ISPROLL

DESCRIPTION:

ISPROLL is an acrylic coating specially developed to refresh the existing coating or to change the colour of the existing coating. We can use it very easily and we can give a new look to your project. **ISPROLL** is available in several colours. **ISPROLL** could also be used as a primer in order to avoid the efflorescence from the base coat adhesive to reach the surface of the finish coat.

Features	Benefits
➤ 100% acrylics.	➤ Good resistance to yellowing.
➤ Could be coated by roll or spray.	➤ Friendly user.
➤ Excellent covering power.	➤ One or two coats maximum.
➤ Good vapour permeability.	➤ Walls will breathe.

PHYSICALS PROPERTIES:

Solids content (%) :	50.0
pH :	9.5
Viscosity with model Brookfield RVT, spindle no. D / 10 rpm (cps) :	1 400
Density at 20°C (g/cm3) :	1.27
Glass transition temperature at mid point / Tg (°C) :	+8
Covering power with 20 liters pails (sq.ft.) :	800

APPLICATION:

Remove dust and clean surfaces before coating. Remove stains, scale or ships in order to provide good adhesion. Shake well before using. **ISPROLL** paint could be coated with a 13 mm roll. **ISPROLL** need to be coated at a temperature above 10° Celsius. Rinse brushes, rolls or tools with water after each application. **ISPROLL** could cover 800 sq. ft per pail (may vary with the surface absorption).



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TECHNICAL DATA

ISPROLL

PRECAUTION:

ISPROLL COATING need to be coated at a temperature of 10° Celsius and maintain at this temperature (or higher) for at least 24 hours. Always use tap water in a minimum quantity. No additives should be added to this coating in order to increase setting time.

STORAGE AND PACKAGING:

ISPROLL should be stored in hermetically closed pails and kept at temperature between 5 and 40° Celsius. Shelf life is 12 months if maintained with the conditions mentioned above. **ISPROLL** is available in 24.0 Kg (18.9L) pails.

For more information concerning the handling, the manipulation or the use of this product, please consult our material safety data sheet or consult our technical service department.





TECHNICAL DATA

ISPRO FINISH

DESCRIPTION:

ISPRO FINISH coat have different types of textured made of 100% acrylics, prepared in plant and available in unlimited number of colors.

ISPRO FINISH coat will give a durable finish and protect your walls for several years.

ISPRO FINISH coat is available in the following textures : QUARTZ, MARBLE COAT, CANYON, SABLÉ, TORNADE and BRUME.

Features	Benefits
➤ Good UV resistance.	➤ No yellowing.
➤ Colors already tinted.	➤ Good uniformity.
➤ Vapors permeability.	➤ Inside humidity will not be trapped.
➤ Low VOC.	➤ Environmental compliance.

PHYSICAL PROPERTIES:

Solids content (%) :	84.0
pH :	9.0
Viscosity with model Brookfield RVT, spindle no. D / 10 rpm (cps) :	60 000 to 90 000
Vapours permeability (1 inch) with test ASTM E-96 (perms) :	15.0
Glass transition temperature at mid point / Tg (°C) :	8
Tunnel test ASTM E-84-81A :	Propagation 5 Fume 0
Wind charge tested with ASTM E-330-7 (PSF)	100
Salt spay with test ASTM B117 5% (hours)	300
Freeze-thaw with ASTM C292-MDF (cycles)	60
Covering with 30 kg pail (66.1 lbs). Depending on type of finish used. (sq.ft.)	120 to 160



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TECHNICAL DATA

ISPRO FINISH

APPLICATION:

ISPRO FINISH COATS must be coated on a clean, dry and non-painted surface. **ISPRO BASE COAT** needs to cure for a minimum of 24 hours before applying **ISPRO FINISH COAT**.

Always use stainless steel trowel. Spread one (1) uniform coat, not thicker as the largest aggregate for the Quartz finish and 1 ½ time the thickness of the aggregate for the marble coat. Textures are obtained with the variation of the movement of the trowel. Texture could affect the colors.

Need to protect **ISPRO FINISH** coat for 24 hours against rain, snow or freezing.

PRECAUTION :

ISPRO FNISH coat need to be applied at minimum 4°C(40°F) and maximum 21°C(70°F). No need to add any additives in order to adjust setting time or viscosity. May add a minimum quantity of fresh water.

STORAGE AND PACKAGING :

ISPRO FINISH coat is available in 30 kg pail (66.1 lbs.). Product is stable for 12 months if maintained in the appropriate containers and out of direct sunlight. Store at temperature between 4°C (40°F) and 21°C (70°F).

For more information concerning the handling, the manipulation or the use of this product, please consult our material safety data sheet or consult our technical service department.

TECHNICAL DATA SHEET

EPS BOARD TYPE 1

GENERAL DESCRIPTION :

EPS BOARD TYPE 1 is composed of expandable polystyrene beads that contain a fire retardant agent. When exposed to steam, the inflating agent produces multicellular particles or pre-expanded beads that are water resistant and can swell to as much as 40 times their original volume. Following an intermediate period during which moisture is removed from the pre-expanded granules, the inflating agent undergoes condensation and escapes, and the cell structure is filled with air. Once the insulating air is stabilized, the pre-expanded granules are merged by heat into blocks that are then treated and cut into boards, sheets or other shapes.

Technical description of finished products: EPS BOARD TYPE 1

Length and width

24" x 48" (610 mm x 1219 mm)
24" x 96" (610 mm x 2438 mm)
48" x 48" (1219 mm x 1219 mm)
48" x 96" (1219 mm x 2438 mm)

Thickness

Ship-lapped edges: 1½" to 12"
(38 mm to 305 mm)
Straight edges: ¼" to 33"
(13 mm to 648 mm)

Top Layer

½" (13 mm), 5/8" (16 mm) or 1" (25 mm)

Thermal transmission

(ASTM C518 C177) 1" (25.40 mm) thickness:

R-3.7 (RSI-0.65)

Water vapour permeability

(ASTM E96) 1" (25 mm) thickness:

2.66 perm (152.2 ng/Pa/s/m²)

Compression strength

(ASTM D 1621), for 1½" (38 mm) thickness:

93 kPa (13.53 psi)

Flexural strength

(ASTM C 203), for 1½" (38 mm) thickness:

209.8 kPa (30.52 psi)

Water absorption

(ASTM D 2842) for 1½" (38 mm) thickness:

4.4%



DIMENSIONAL STABILITY:

ASTM D 2126, 7 days at 70°C (volume)	0.32%
ASTM D 2126, 1 week at -29°C (length)	0.19%
ASTM D 2126, 28 days at 80°C (length)	-0.42%
ASTM D 2126, 28 days at 70°C, 100% relative humidity (length)	-0.3%
ASTM D 2126, 1 week at -29°C (width)	-0.03%
ASTM D 2126, 28 days at 80°C (width)	-0.54%
ASTM D 2126, 28 days at 70°C, 100% relative humidity (width)	-0.43%

Density: 1lb./cu. ft. (16.01 kg/m³)

Flame spread

(ASTM E84): 15

(CAN.4-S102.2M): 115

Warranty

EPS BOARD TYPE 1 is sold with a 100% no cost warranty that covers thermal transmission for a minimum period of 15 years.

INSTALLATION:

Choice of insulation and tightness of the roofing system are key considerations. Insulation is installed using one of three techniques, depending on the pitch of the particular roof: It is applied freely, cold or hot glued using asphalt cooled to 225°F, or mechanically attached to the surface.

TECHNICAL DATA SHEET

EPS BOARD TYPE 1

Buy with confidence:

The industry has implemented a voluntary quality assurance program, carried out by an independent third party, that is intended to help manufacturers ensure that quality control for their products is in compliance with Canadian standards. This national program would be of benefit to consumers, architects, engineers, specification writers, building owners and managers, consultants, homebuilders, roofers and insulation contractors, who can make specific product purchase requirements that are in compliance with this program. Underwriters Laboratories of Canada is responsible for ensuring quality control and product compliance with standards.

Compliance with construction materials evaluations standards:

EPS BOARD TYPE 1 is ULC-Certified. It meets the requirements of Underwriters Laboratories of Canada standard **CAN/ULC-S701** for expanded polystyrene thermal insulation. CCMC evaluation technical guide #13026-L for EPS BOARD TYPE 1. All products EPS BOARD TYPE 1 can contribute to the aiming system LEED like to the new standards of Novoclimat construction.

ULC roofing system:

EPS BOARD TYPE 1 has been evaluated for ULC C7 and C12 roofing systems, using the CAN/ULC S-126M standard.

FACTORY MUTUAL roofing system:

EPS BOARD TYPE 1 has been evaluated by FACTORY MUTUAL and was found to meet the requirements of Class FM 1-90 and ASTM E 108 for products thereby identified.

SUPERIOR FEATURES

Permanent insulation value:

EPS BOARD TYPE 1 was tested at 75°F and maintained its permanent thermal resistance. The R-value of EPS BOARD TYPE 1 remains unchanged because of its cell structure, which is comprised solely of stabilized insulating air. **The performance of EPS BOARD TYPE 1 does not deteriorate over time.**

Moisture strength:

Out of all the polymer-based plastics that are used for making insulation materials, EPS BOARD TYPE 1 is one product that offers the best resistance to the harmful effects of moisture. Despite its relatively low water vapour transmission coefficient, EPS BOARD TYPE 1 remains fairly permeable and is therefore **not a vapour barrier**. Its uniformly consistent **closed cell** structure allows water vapour diffusion.

Permanence:

This product has not nutritional value for plants, animals or micro-organisms. It does not decay and is mould resistant.

Low toxicity:

Rigorous testing programs have been carried out, to determine if expanded polystyrene products could constitute a toxic hazard when exposed to flame. According to a report on the flammability of expanded polystyrene, published by the National Research Council of Canada in Ottawa, "the maximum toxicity index resulting from expanded polystyrene combustion is similar to that of wood combustion. On a weight-for-weight basis, therefore, the risk of toxic combustion is comparable to that of wood".

NOTE TO USER

As is the case for many construction materials that are in use today, EPS BOARD TYPE 1 and all other materials made from expandable polystyrene beads must be considered flammable when directly exposed to a source of intense heat or a strong, steady flame. To ensure an adequate level of protection, the installation must meet the requirements of the National Building Code of Canada.

EPS BOARD TYPE 1 is at risk when exposed to petroleum solvents. Any contact with these solvents or their vapours must therefore be avoided. Although EPS BOARD TYPE 1 is highly resistant to moisture and demonstrates moderate water vapour permeability, the usual design parameters should be observed when selecting a vapour barrier. Prolonged exposure to ultraviolet radiation will cause slight discoloration and crumbling of the EPS BOARD TYPE 1 surface. The product's insulating properties will diminish very slightly, unless the exposure to UV radiation is excessive enough to reduce thickness of the material. In order to avoid deterioration caused by UV radiation, EPS BOARD TYPE 1 must be covered over as quickly as possible.



1001 Industriel Blvd., Saint-Eustache, Quebec (Canada) J7R 6C3
 Tel: (450) 974-1001 Toll free: 1-800-363-2660 Fax: (450) 974-0162

MAINTENANCE OF ISPRO SYSTEMS

Ispro finishing systems require a minimal of maintenance. These polymers are known for their flexibility as well as their resistance to aqueous substances and to humidity which provide a long-term durability.

PERIODICAL INSPECTION

1. We recommend to do a visual inspection once a year (every spring) to detect any irregularities and/or any defects, if so, to be repaired as soon as possible to avoid any risk of infiltration.
 - It is recommended to check all the surrounding parapets and/or soffites, flashings and windows, any penetration in the walls and electrical entrance pole, esthetical and/or construction joints and slopes.
 - The impermeability and embedding between materials will keep the coating in good condition.
 - The sealants have to be inspected with a meticulous care and repaired as soon as possible, when needed.

CLEANING PROCEDURES:

2. It is recommended to clean the walls with a soft bristle brush and a mix of dishwashing soap and water (20 ml of soap for 20 liters of water).
3. If using hot water, temperature of water should not exceed 150°F.
4. A low pressure wash might be efficient in some case. Avoid high pressure wash.
 - Never use solvents such as acetone, ether, gasoline, mineral spirit, naphthalene, turpentine on the acrylic substrate.
 - Always do a test on a small hidden surface to see reaction.

Alphalt and/or tar stain

It is recommended to scrape the stain and apply a new acrylic coat on the damaged surface. The cleaners that are usually used to remove this type of stain must be avoided since they could damage or melt the finish coating.

Graffitis

To remove graffitis, repainting will not be sufficient. A specific cleaning has to be done in order to remove them completely. Please do not hesitate to contact us for further details.

Refreshing ISPRO finishes

To refresh your project, it is possible to do it with Brume Finish paint which is especially manufactured to be used on acrylic finishes. Brume Finish paint can be easily applied with a roll and will perfectly adhere to the existing Brume finish paint.

Repair

ISPRO finish is complex to install and it is strongly recommended to have the repairs made by recommended professional applicators.

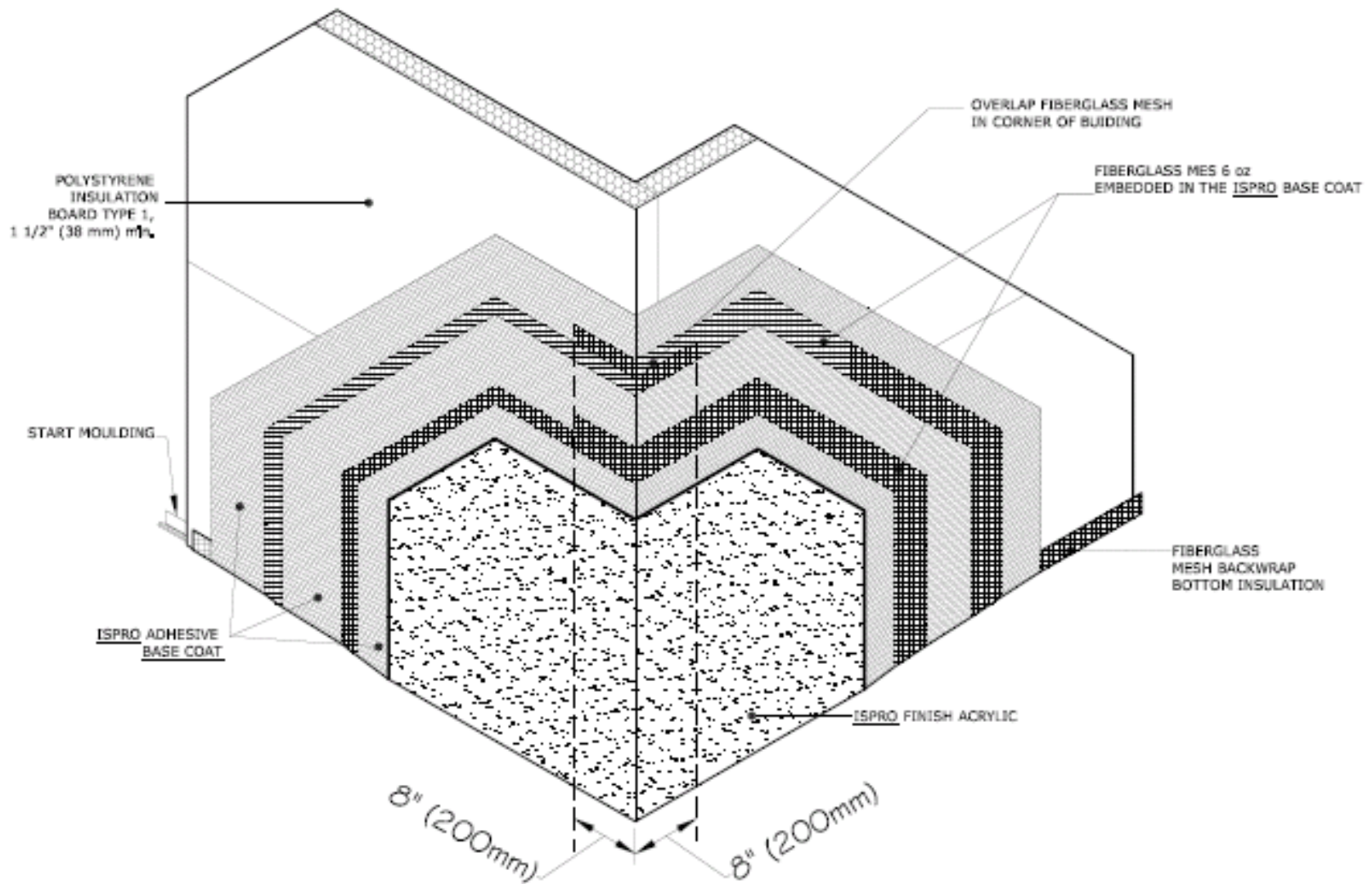


Fig 1. Installation detail

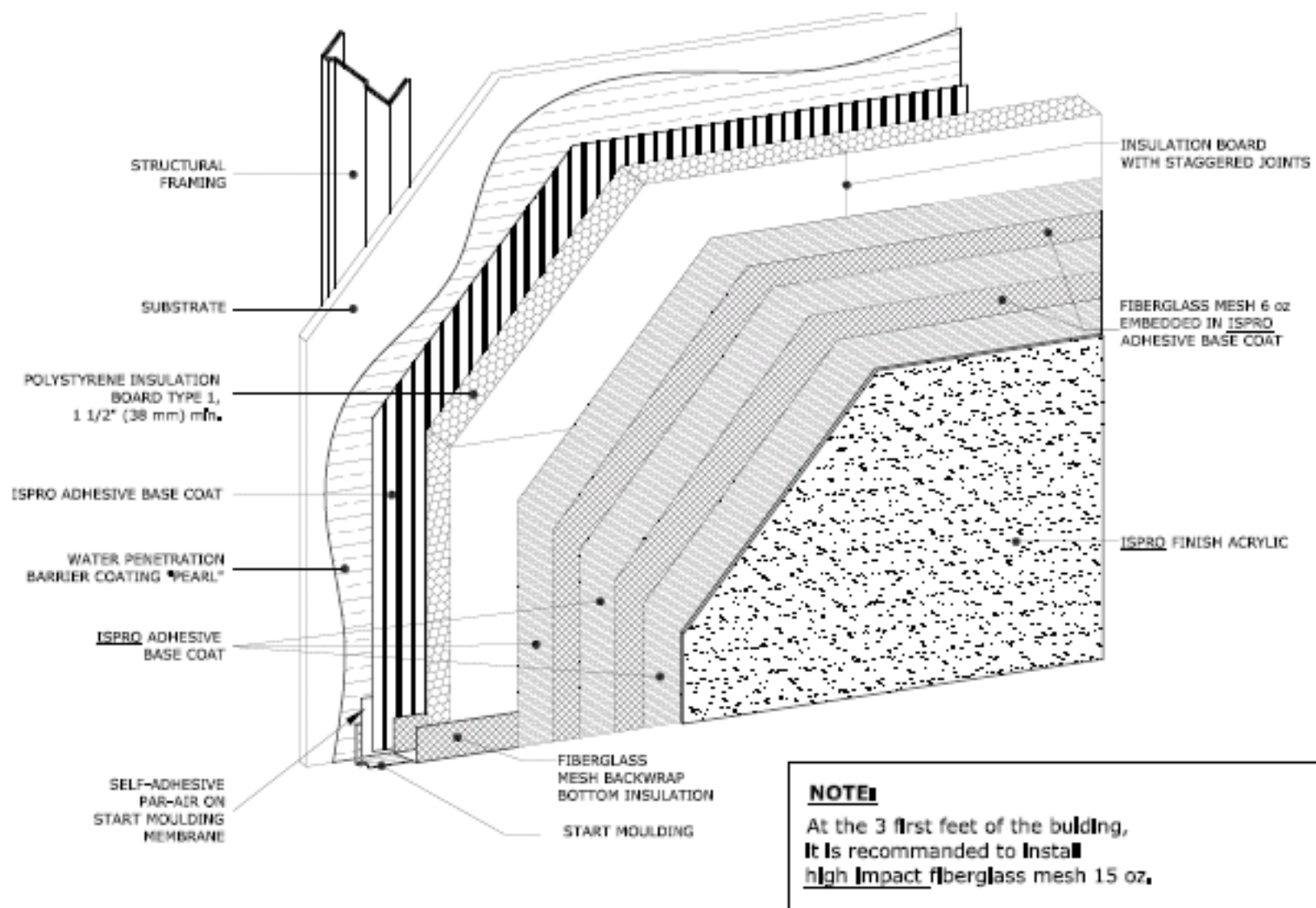


Fig 2. Installation detail

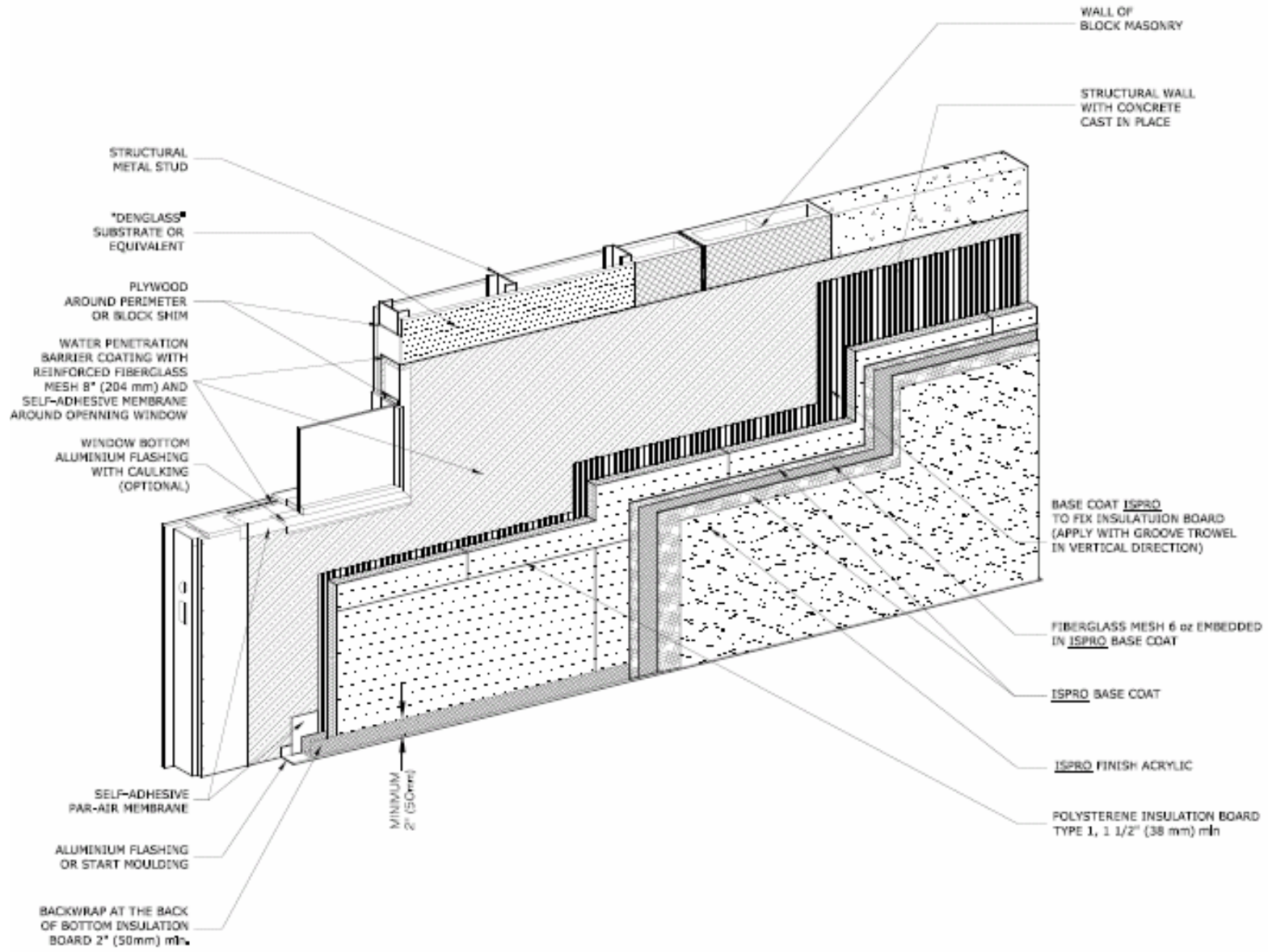


Fig 3. Typical Installation Example

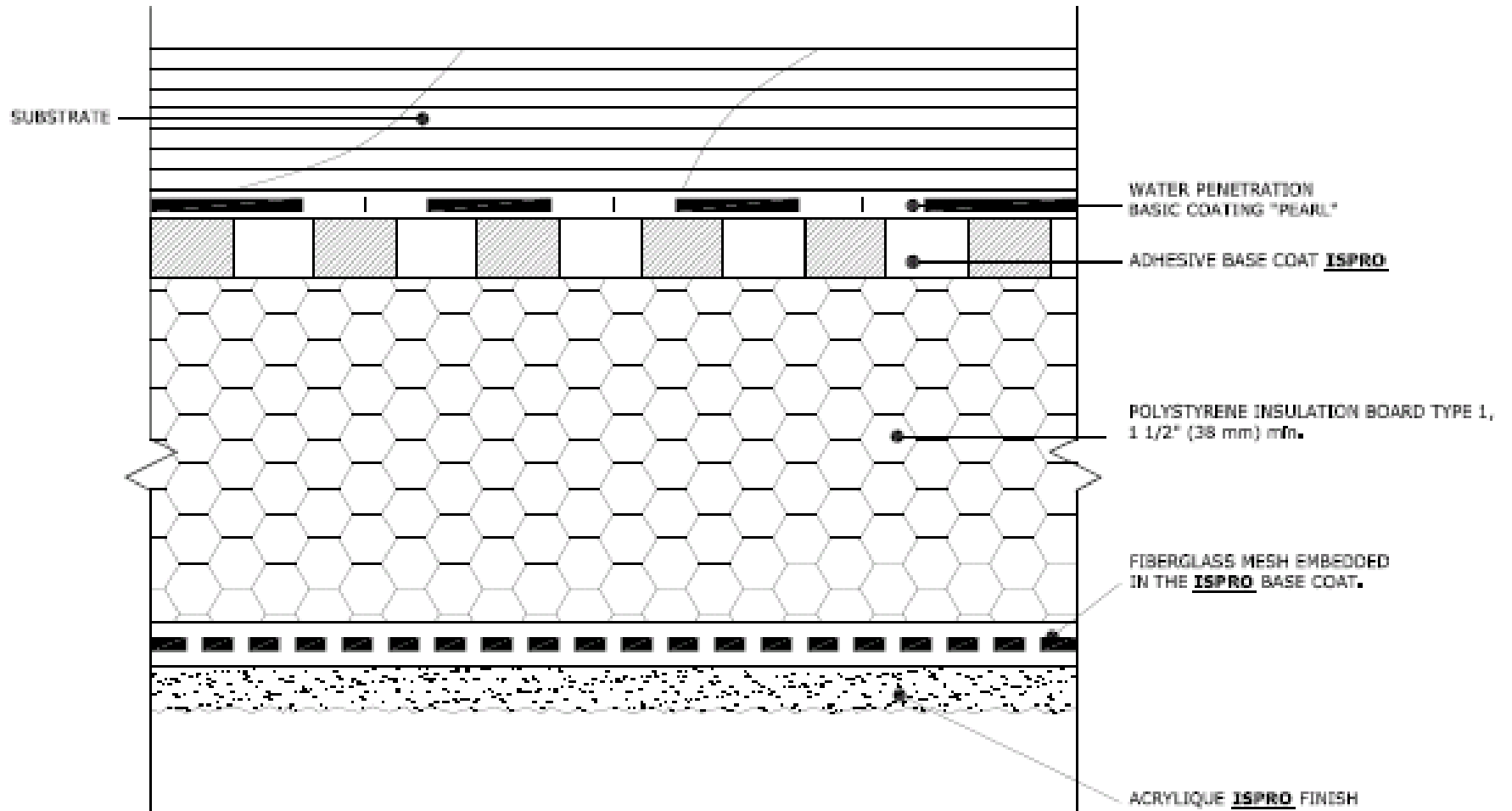


Fig 4. EPS Board & Ispro Polybond

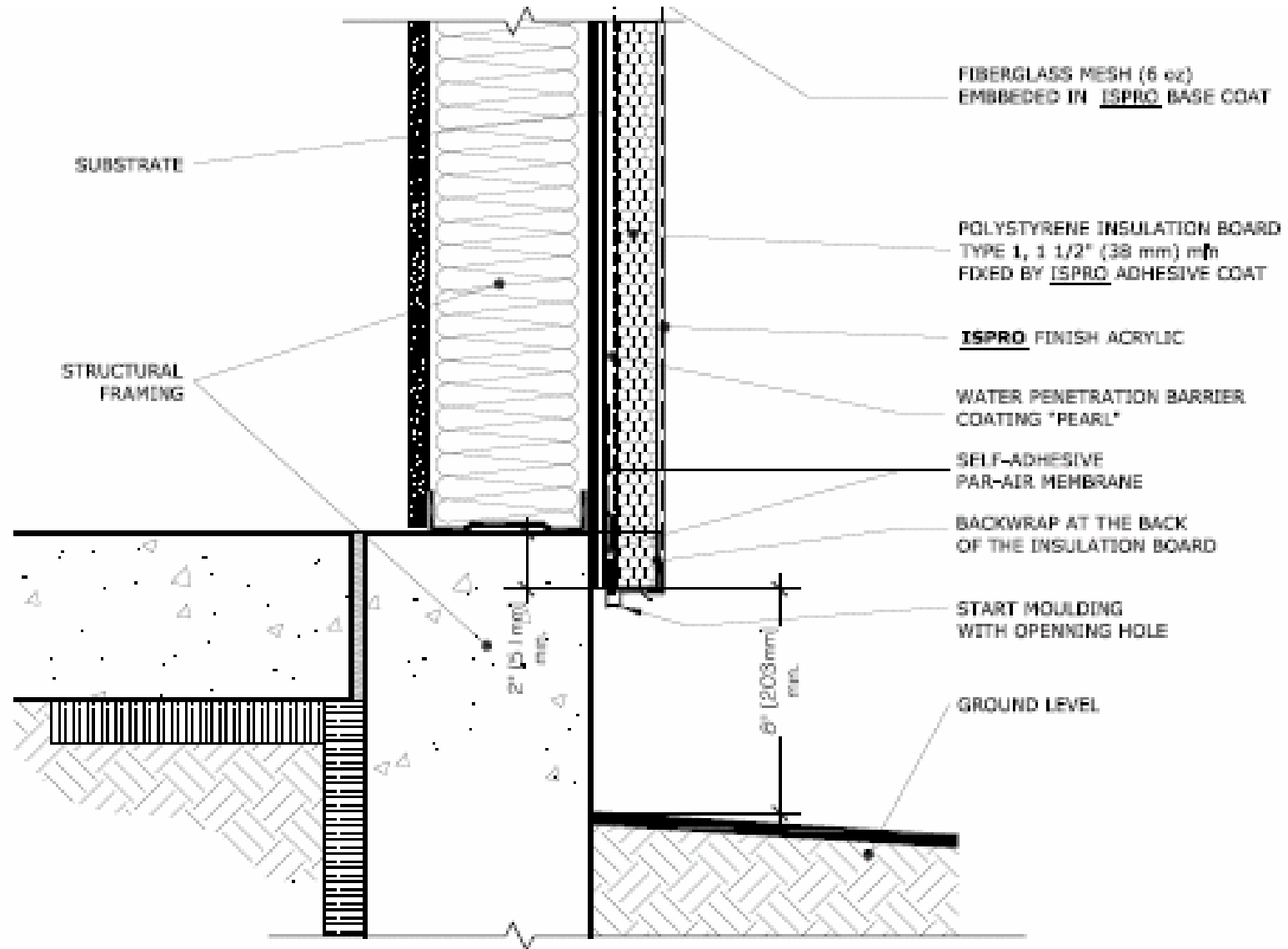


Fig 5. Ground Foundation detail

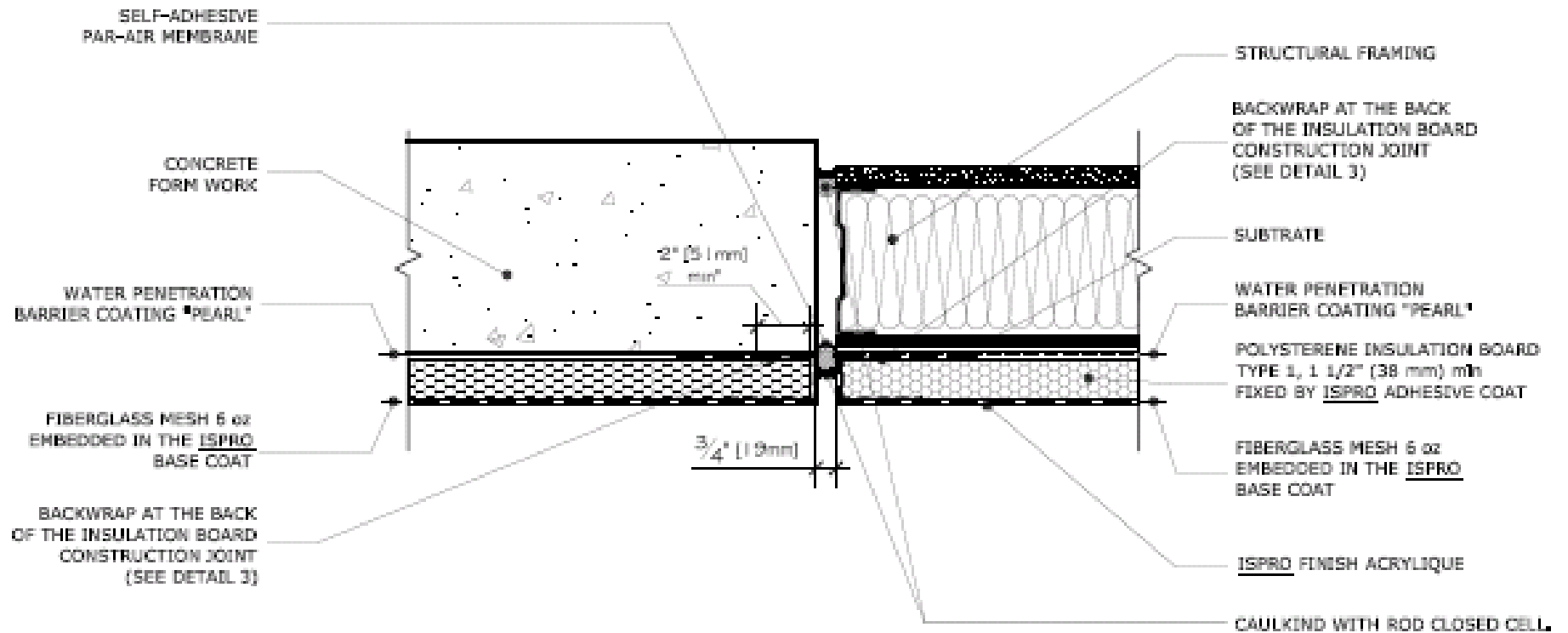


Fig 6 . Roof Standard detail

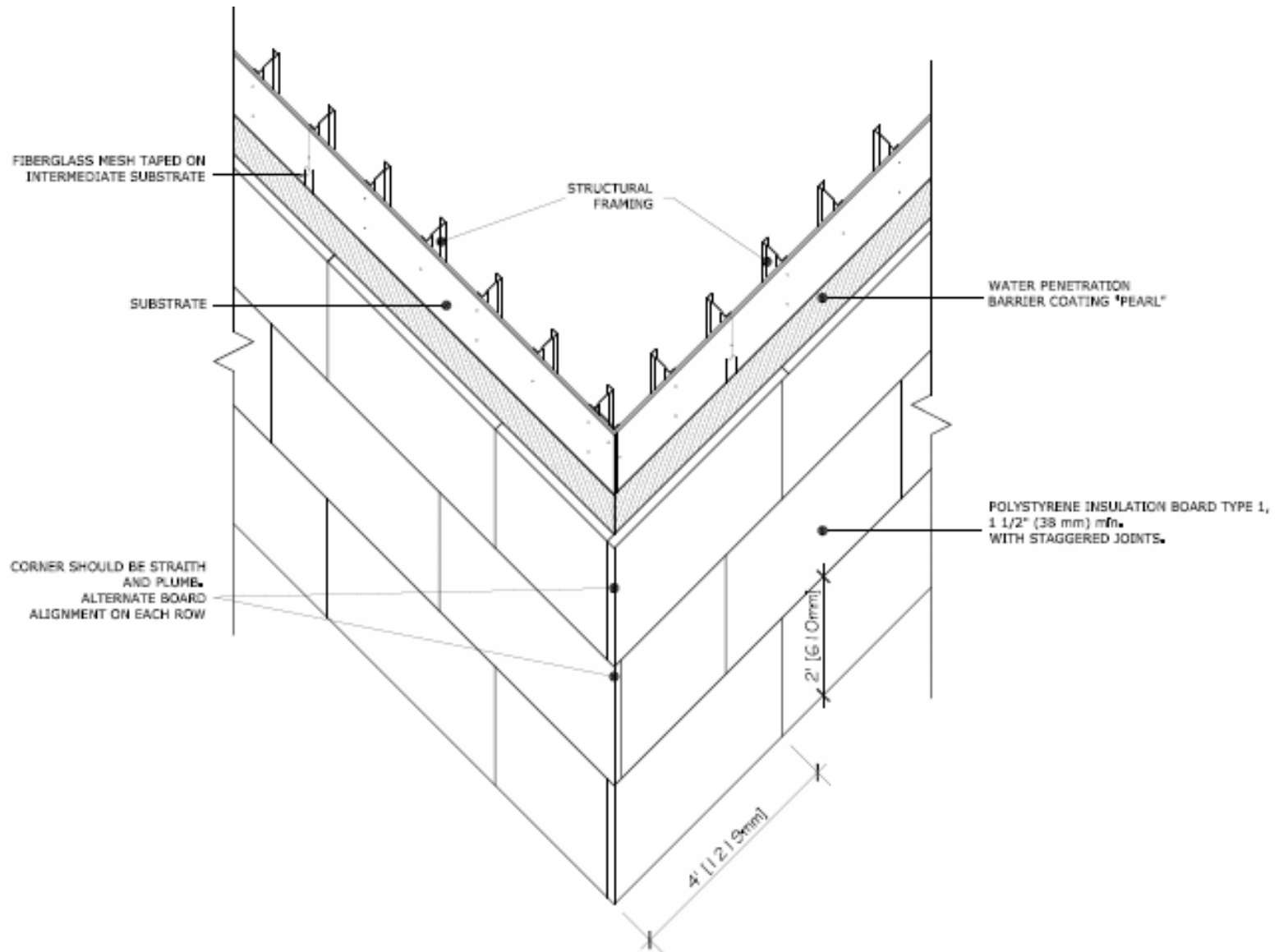


Fig 7. Insulation Board Disposition

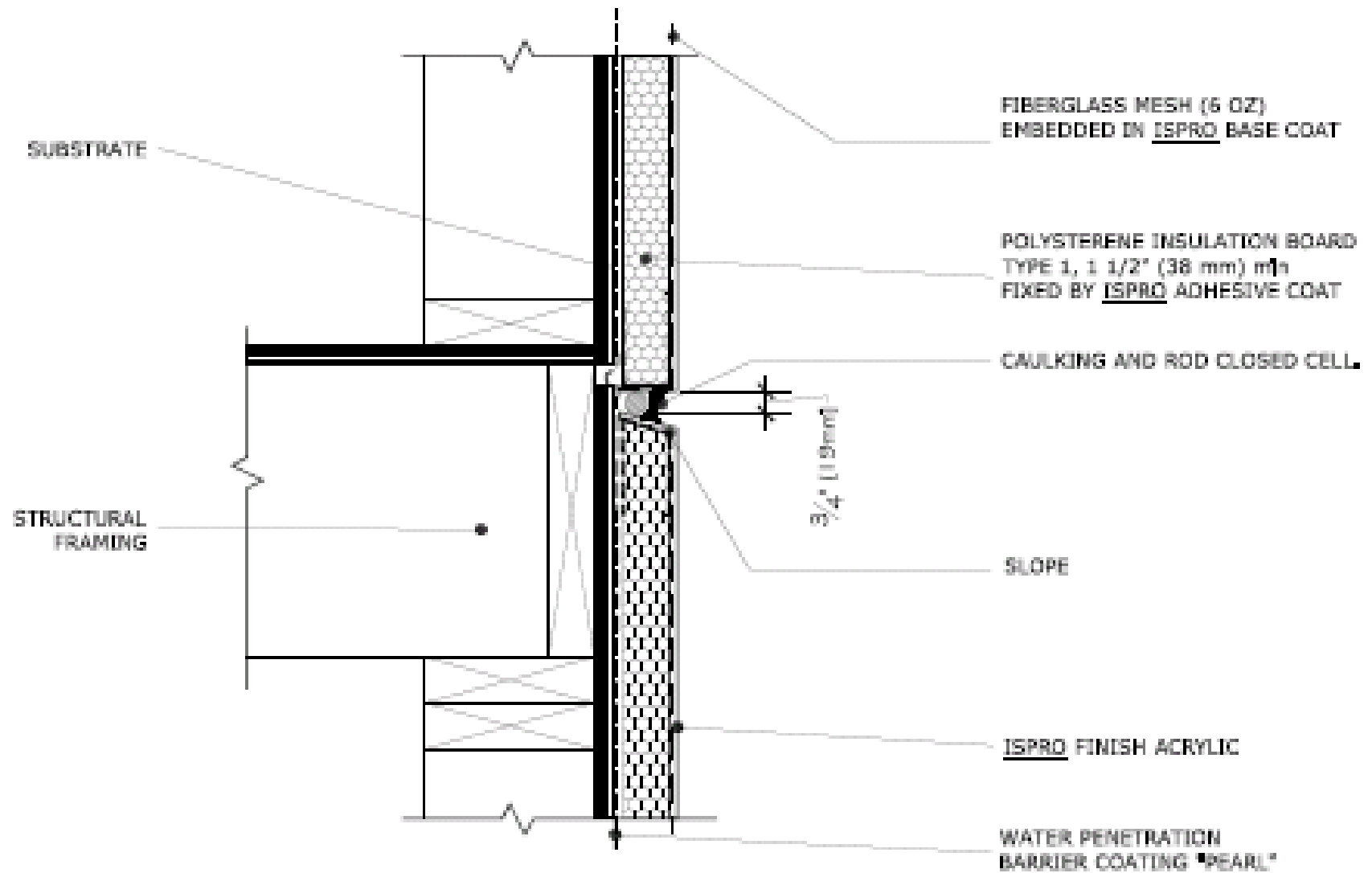


Fig 8. Horizontal Construction Joint detail

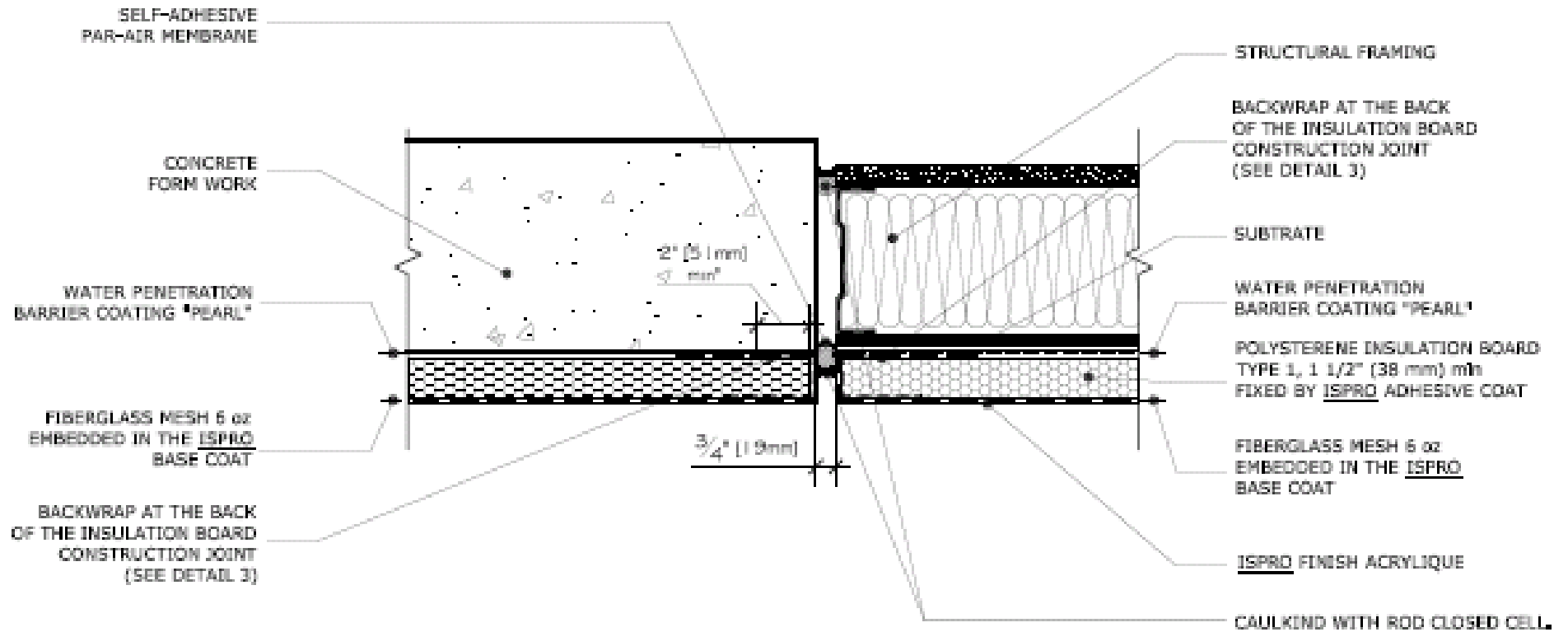


Fig 9. Vertical Construction Joint detail

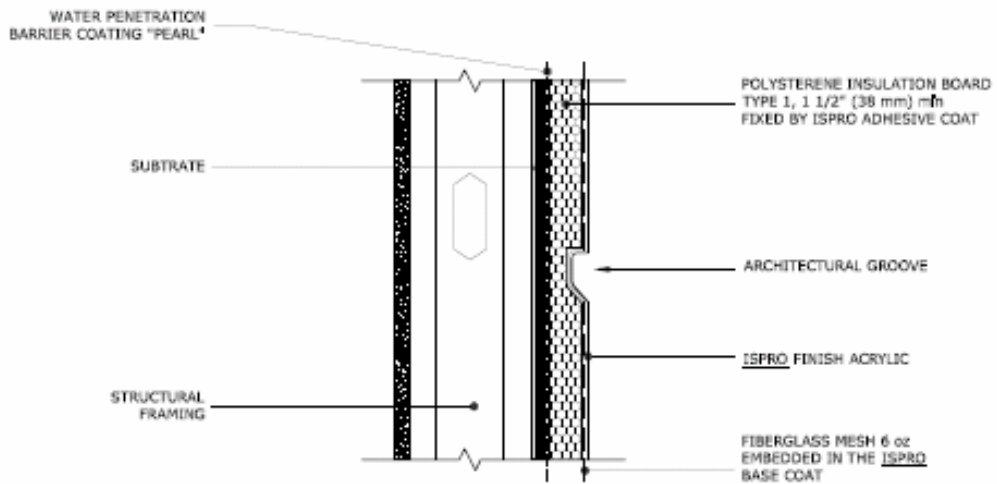
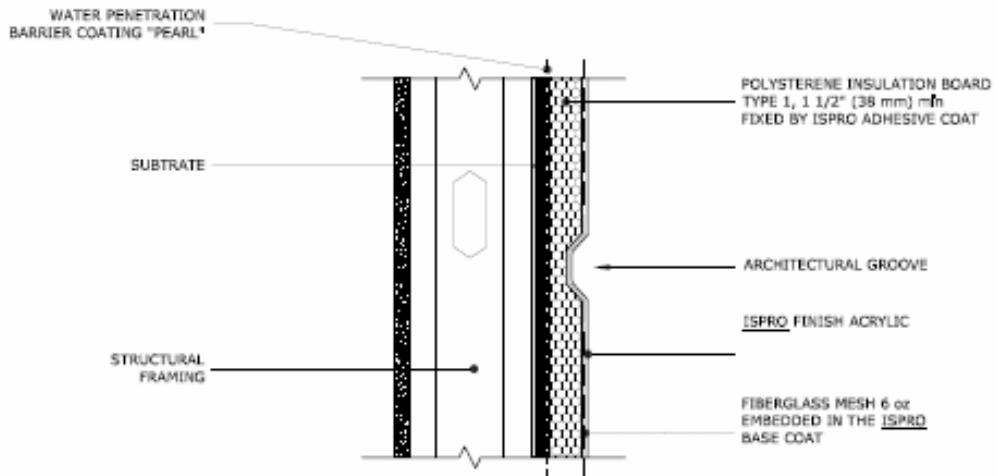
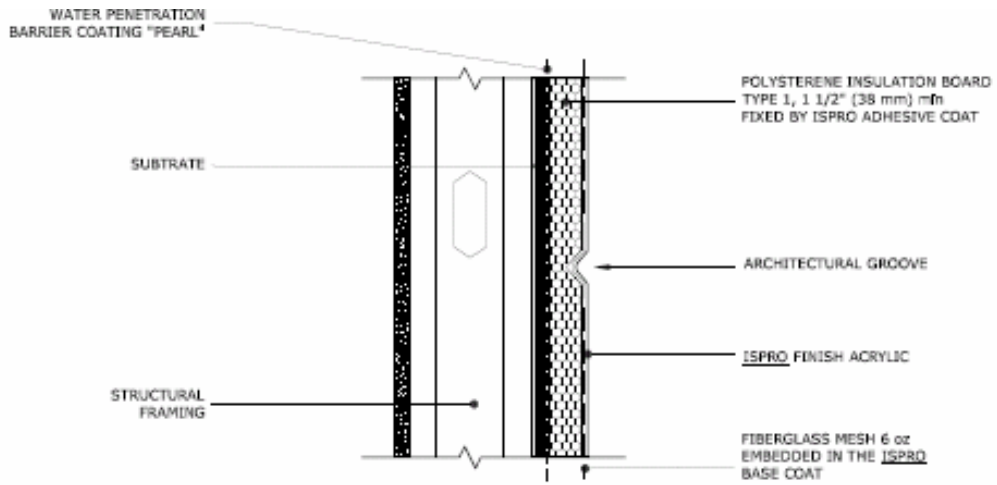


Fig 10, 11 & 12. Design Architectural Grooves

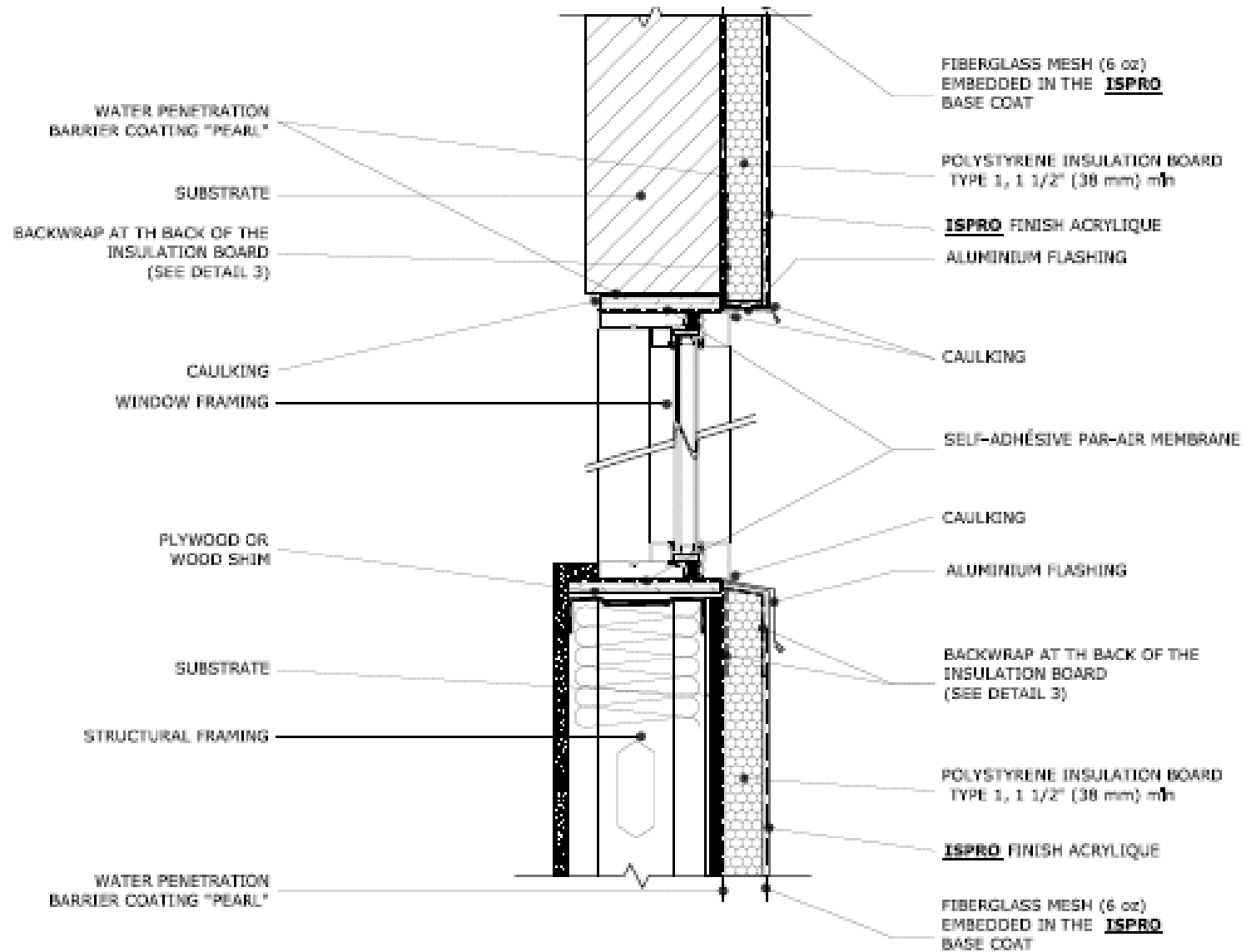


Fig 13. Window Aluminum Flashing detail

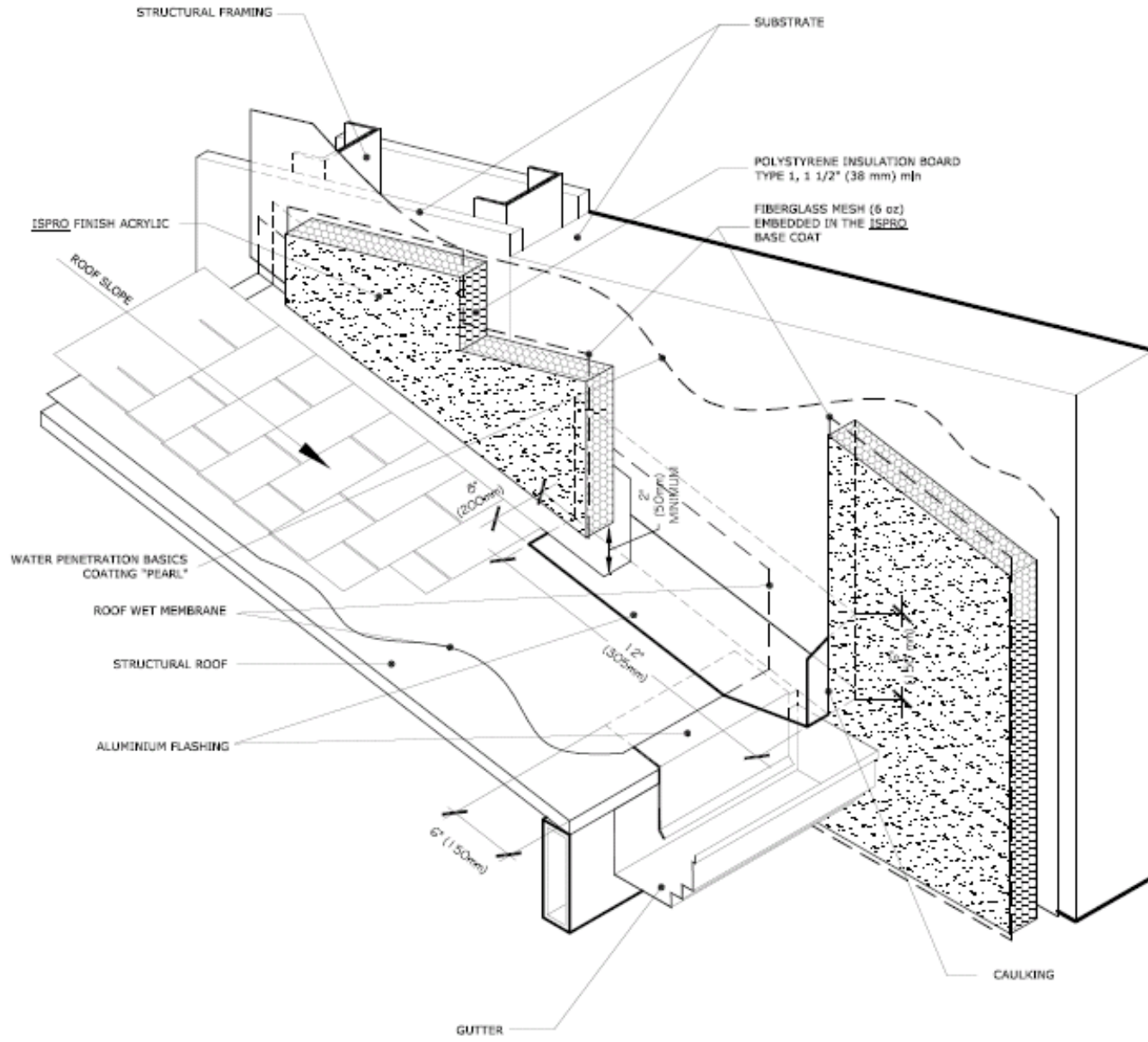


Fig 14. Roof Junction detail

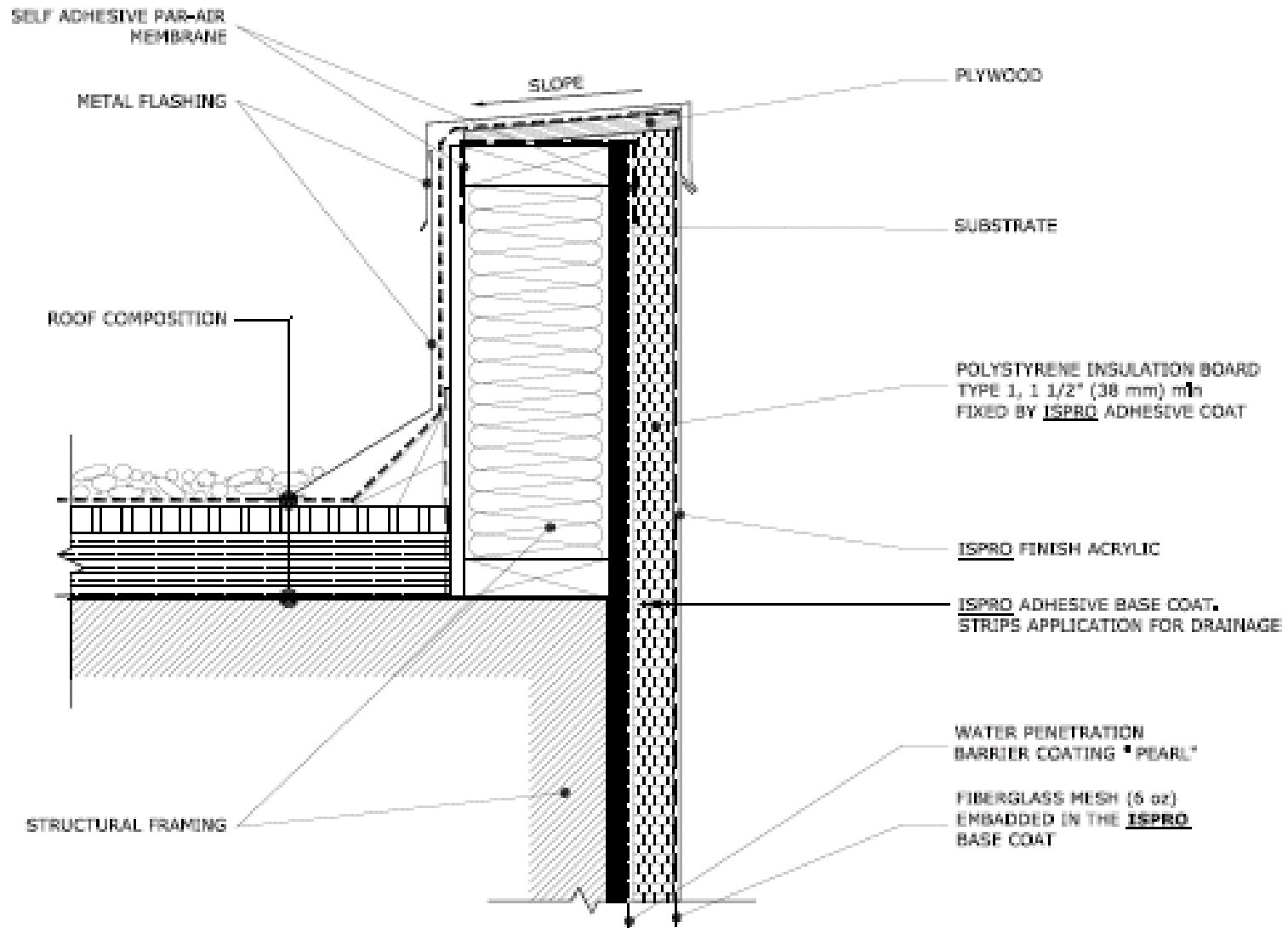


Fig 15. Roof Standard detail

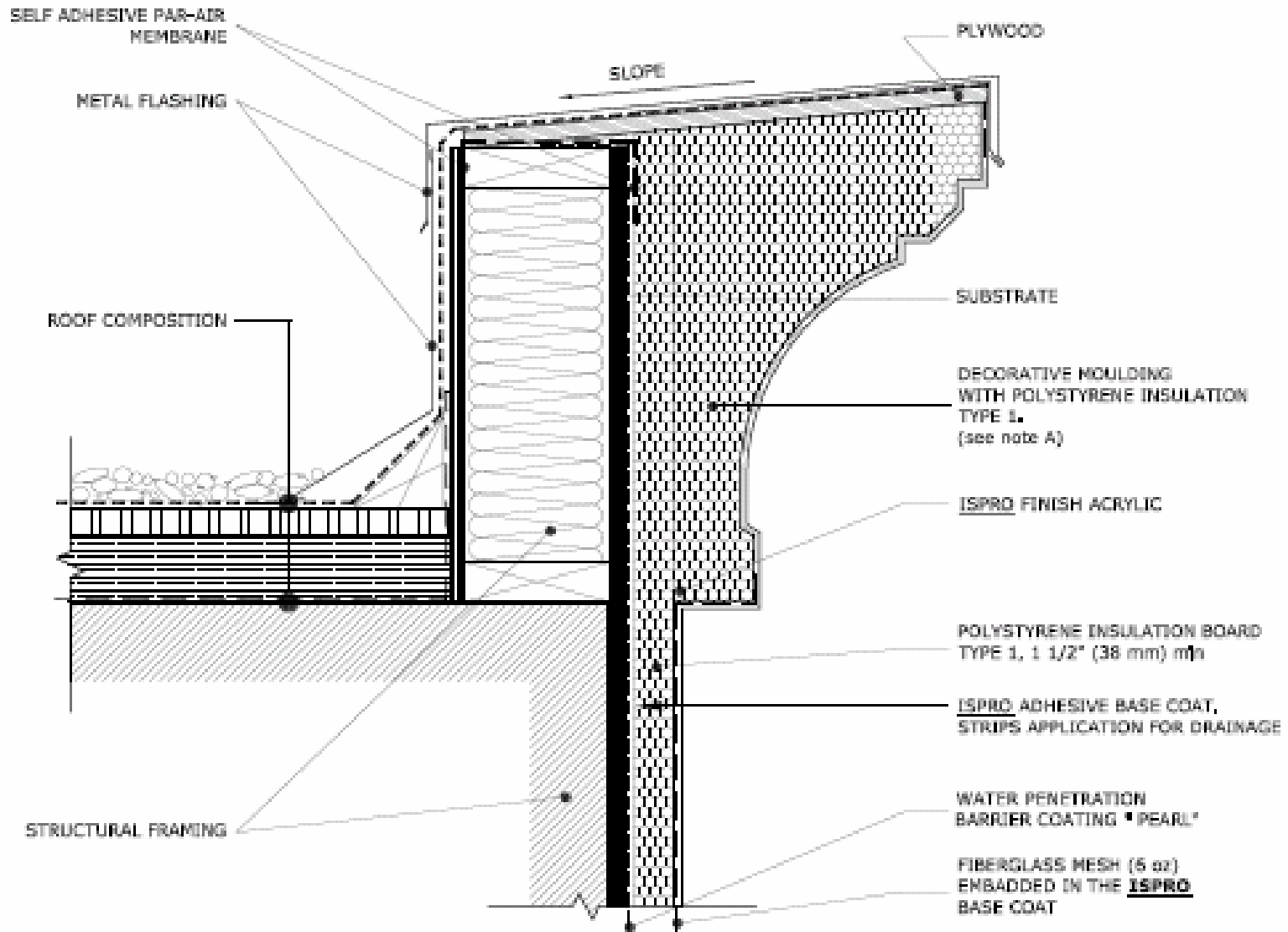


Fig 16. Roof Design details

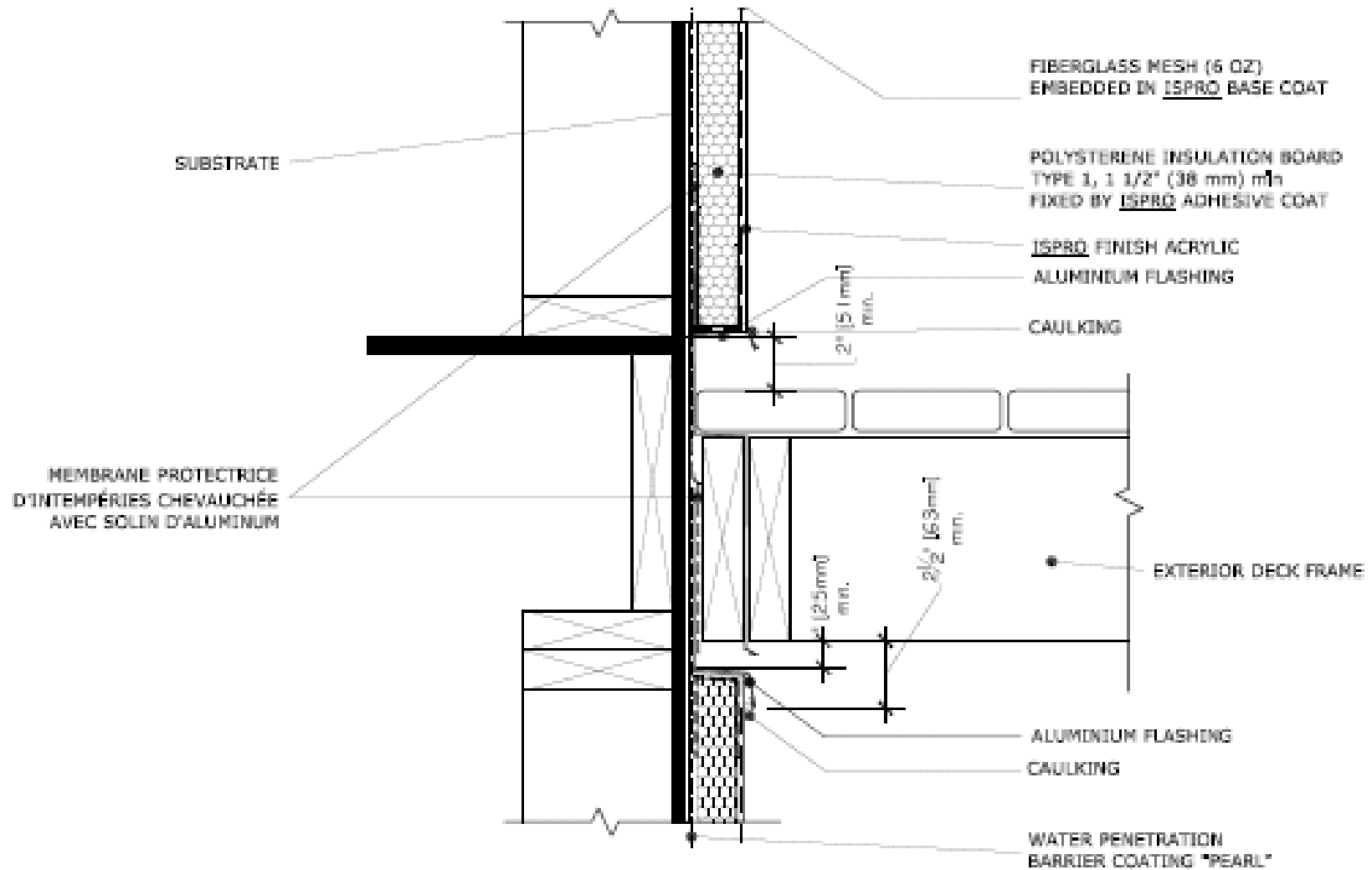


Fig 17. Exterior Deck detail

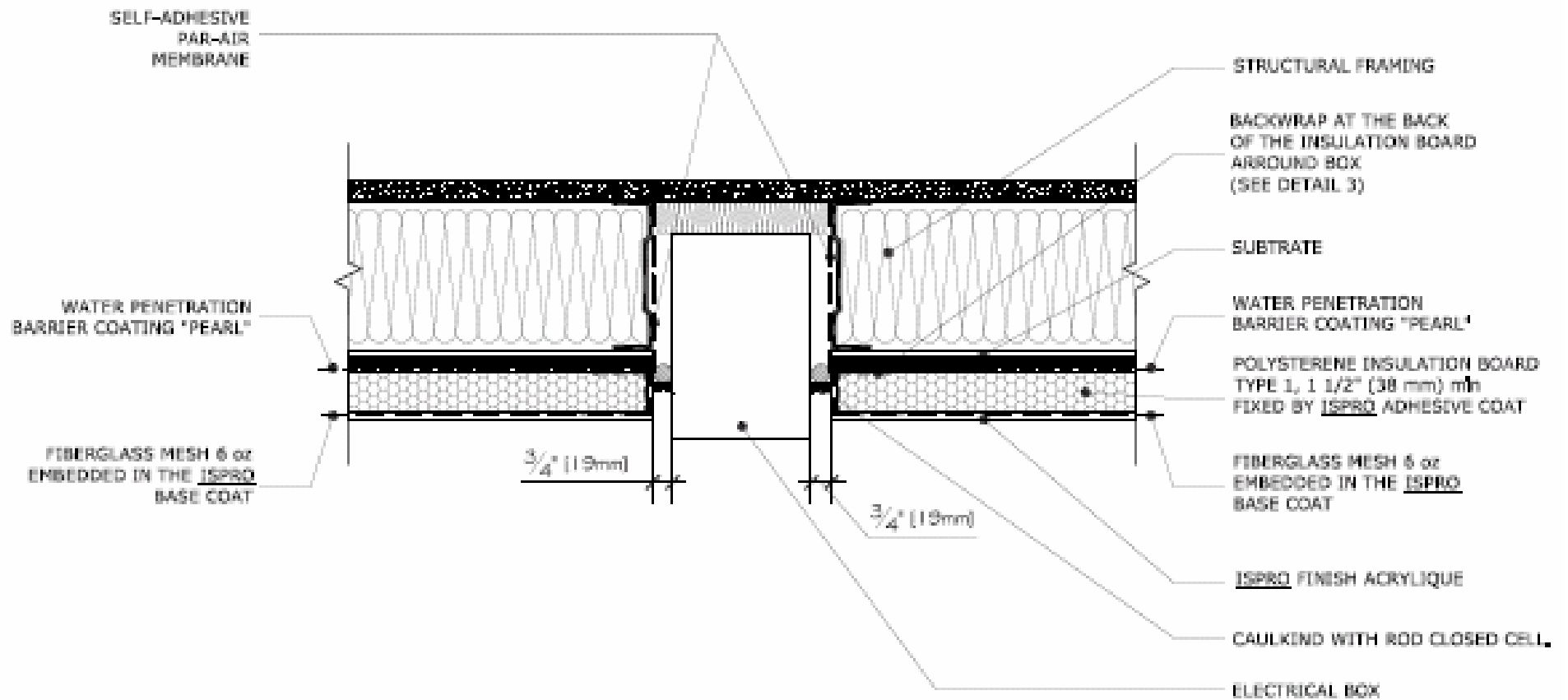


Fig 18. Electrical Box Opening detail

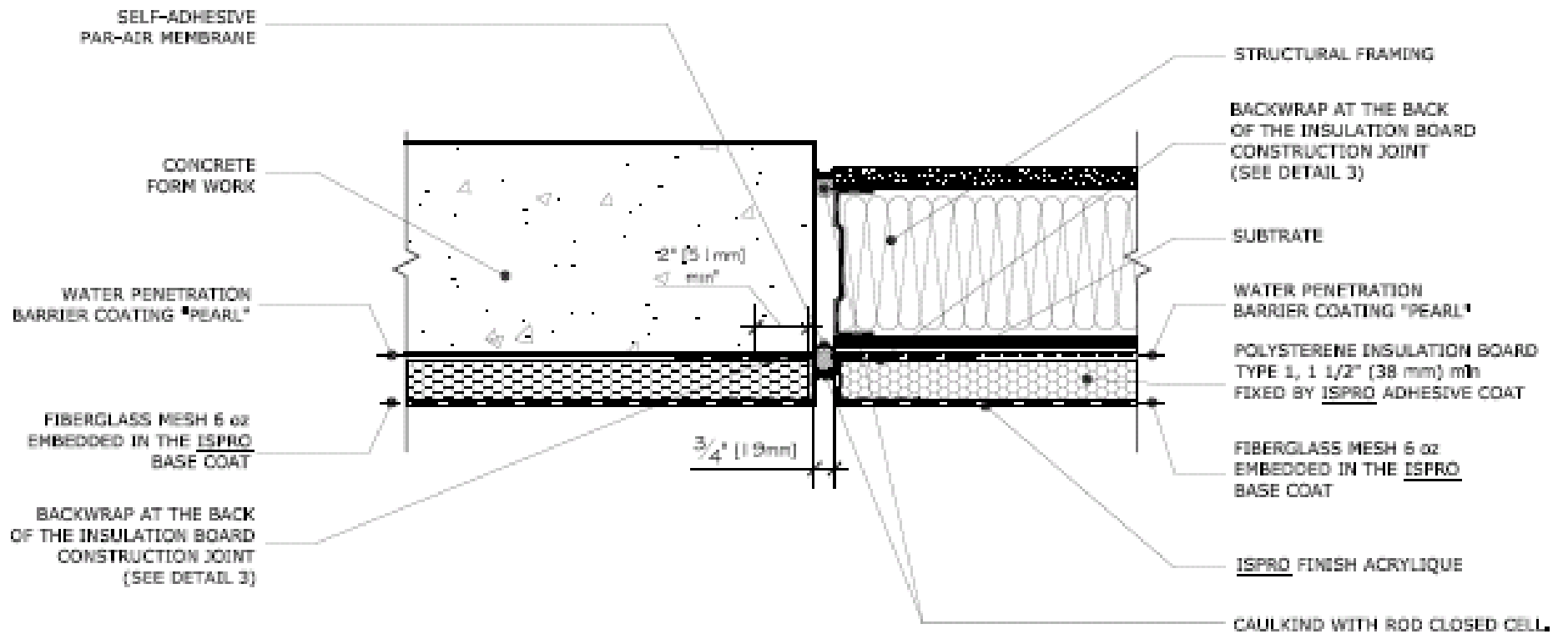


Fig 19. Vertical Joint detail



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