DuROCK InsulROCK EIFS
Exterior Insulation Finish System
for Commercial and High Rise Construction

MANUFACTURER’S SPECIFICATION 07 24 13

PART 1 – GENERAL

1.1. RELATED SECTIONS
1.1.1. Specification 03 30 00 – Cast-in-Place Concrete
1.1.2. Specification 04 20 00 – Unit Masonry
1.1.3. Specification 05 40 00 – Cold-Formed Metal Framing
1.1.4. Specification 06 10 00 – Rough Carpentry
1.1.5. Specification 07 27 00 – Air Barriers
1.1.6. Specification 07 60 00 – Flashing & Sheet Metal
1.1.7. Specification 07 90 00 – Joint Protection (Sealants)
1.1.8. Specification 08 00 00 – Openings
1.1.9. Specification 09 28 00 – Backing Boards and Underlayments

1.2. SYSTEM DESCRIPTION

1.2.1. InsulROCK EIFS is a cladding system that includes first and second planes of protection from precipitation.
1.2.2. InsulROCK EIFS is in full compliance with CAN/ULC-S716.1 “Standard for Exterior Insulation and Finish Systems (EIFS) – Materials and Systems” and PUCCS EIFS has been evaluated by the Canadian Construction Materials Centre (CCMC). CCMC Evaluation Report No. 12969-R is available at: http://www.durock.ca/evaluation.pdf
1.2.3. InsulROCK EIFS is combustible cladding that satisfies the test requirements of Article 3.1.5.5 and Article 3.2.3.8 of the National Building Code of Canada. Certification listing is available at: http://www.durock.ca/certification.pdf
1.2.4. DuROCK Cement Bear, Polar Bear, Roller Bear, and Vapour Block moisture barriers meet the air leakage requirements for Air Barrier Materials in accordance with Sentence 5.4.1.2.1) in the National Building Code of Canada.
1.2.5. DuROCK Vapour Block moisture barrier meets the vapour permeance requirements for Vapour Barrier Materials in accordance with Sentence 9.25.4.2.1) in the National Building Code of Canada.

SPEC NOTE
1. Code compliance – the suitability of this system and the incorporation of expanded polystyrene are subject to approval according to Municipal requirements. Check with all authorities having jurisdiction.

SPEC NOTE
2. Fire-resistance ratings are specific to the substrate (supporting walls), and not to the EIFS. Fire requirements for wall assemblies incorporating EIFS are addressed in Articles 3.1.4.2, 3.1.5.5, 3.1.5.12, 3.2.3.7, 3.2.3.8, 9.10.14.5, 9.10.15.5, and 9.10.17.10 of the model building code. Ensure the wall assembly complies with the requirements of the applicable article(s). InsulROCK EIFS is not intended for use on walls permitted no more than 10% unprotected openings.

SPEC NOTE
3. InsulROCK EIFS can be adapted and designed to be prefabricated or panelized on unitized steel framing that has been engineered for attachment and the anticipated live and dead loads.

1.3. DESIGN REQUIREMENTS
1.3.1. All Supporting Substrates
1.3.1.1. Substrate shall be structurally sound and continuously supported.
1.3.1.2. Substrate shall be designed to withstand the anticipated wind loads, and deflect no more than L/240.
1.3.1.3. Substrate shall be continuous, flat and plumb, with surface variations less than 6 mm over 2400mm (1/4 inch over 8 ft).
1.3.1.4. Substrate shall be clean, dry, and free of any deleterious material such as wax, oil, paint, dust and dirt which could negatively affect bonding.

1.3.2. Mass Wall Substrates
1.3.2.1. Mass walls shall be cast-in-place concrete, concrete masonry units, prefabricated concrete, or brick.
1.3.2.2. Mass walls shall be free of form release agents, efflorescence, or cracks.
1.3.2.3. Mass walls shall be at least 28 days old.

1.3.3. Sheathing Substrates
1.3.3.1. Sheathing shall be glass-fibre-faced gypsum sheathing compliant with ASTM C 1177, or cement board compliant with ASTM C 1325 or ANSI A118.9, and at least 12.7 mm (1/2 inch) thick.
1.3.3.2. Sheathing shall be attached to framing in accordance with manufacturer’s instructions, in general conformance to ASTM C 1280, and attached with corrosion resistant screws.
1.3.3.3. Sheathing shall be installed horizontally with vertical joints offset by at least one framing member, installed so that no joints align with corners of openings, such as windows or doors, and installed so that boards are spaced no more than 3.2 mm (1/8 inch) apart.

1.3.4. Substrate Joints, Openings, and Penetrations
1.3.4.1. Expansion and movement joints in the substrate shall be sealed with a self-adhering membrane.
1.3.4.2. Openings and through wall penetrations shall be sealed with a self-adhering membrane or coated with DuROCK Polar Bear moisture barrier.
1.3.4.3. Self-adhering membranes shall be installed in accordance with manufacturer specifications, including appropriate primers as required.
1.3.4.4. Self-adhering membranes shall not extend more than 150 mm (6 inches) behind InsulROCK EIFS.

| SPEC NOTE | 4. DuRock recommends polyester-faced self-adhering EIFS Tape, however polyethylene-faced membranes may be used instead. |
| SPEC NOTE | 5. DuROCK recommends that self-adhering membranes be installed prior to the application of the moisture barrier, however they may be applied after the moisture barrier has dried. |
| SPEC NOTE | 6. DuROCK recommends that self-adhering membranes extend no more than 50 mm (2 inches) behind the EIFS. Insulation shall be mechanically fastened at locations where polyethylene-faced membranes extend more than 75 mm (3 inches) behind the EIFS. |

1.3.5. Termination and Drainage
1.3.5.1. InsulROCK EIFS shall terminate and drain at least 200 mm (8 inches) above finished grade.
1.3.5.2. InsulROCK EIFS shall terminate and drain at least 50 mm (2 inches) above roofing systems, balconies, and other similar conditions.
1.3.5.3. InsulROCK EIFS shall terminate and drain above windows, doors, soffits and other similar conditions.

1.3.6. Expansion and Termination Joints
1.3.6.1. Expansion and termination joints shall accommodate expansion and contraction of building materials due to thermal changes, moisture, wind, gravity, vibration, and seismic activity.
1.3.6.2. Expansion joints are required: where expansion joints in the substrate occur; where significant structural movement occurs; where substrate deflection exceeds L/240; where the substrate structural system changes; at deflection tracks in steel frame construction; at floor lines in wood frame construction; and where InsulROCK EIFS abuts other cladding systems.
1.3.6.3. Termination joints are required where InsulROCK EIFS abuts through wall penetrations such as windows and doors.
1.3.6.4. Expansion joints shall be at least 20 mm (3/4 inch) wide and termination joints shall be at least 13 mm (1/2 inch) wide.
1.3.6.5. Joints shall be sealed to prevent ingress of precipitation, unless otherwise specified.

**SPEC NOTE**

7. Location and joint size are the responsibility of the designer. Joint width should be four times the anticipated range of movement.

8. Wood framed construction that incorporates engineered wood joist systems may not necessarily require expansion joints. It is the Designer’s prerogative to omit expansion joints at these locations.

9. Drained joints employing DuROCK Drainage Accessories do not require sealant. It is the Designer’s prerogative to specify sealant at those locations.

**1.3.7. Joint Sealant**

1.3.7.1. Sealant shall be used to seal expansion and termination joints, unless otherwise specified.
1.3.7.2. Sealant material shall be low modulus, and shall be compatible with InsulROCK EIFS.
1.3.7.3. Sealant shall be installed with closed-cell foam backer rod or bond breaker tape in accordance with manufacturers instructions, and in general conformance with ASTM C 1481.
1.3.7.4. Sealant shall be vented to permit drying and drainage of incidental moisture.

**SPEC NOTE**

10. DuROCK recommends Sikaflex 15LM sealant by Sika, however the following sealants may also be used with DuRock EIFS: Sikasil WS 290 by Sika; 790, 795, and Contractors Concrete by Dow Corning; Spectrem 1, 3, and 4 by Tremco; and Sonolastic 150 by Sonneborn. Designers wishing to specify other sealants should consult DuROCK.

11. Sealant vents should be spaced no more than 3 m (10 ft) apart. Vents should provide a nominal venting area of no less than 1 sq. cm. (0.1550 sq in). Venting may incorporate plastic masonry vents, equivalent pest screens, or vent tubes.

**1.3.8. Flashing**

1.3.8.1. Flashing is required at joints where InsulROCK EIFS is expected to drain moisture to the exterior and anywhere the exposed top edge of InsulROCK EIFS does not have a minimum slope of 1:2.
1.3.8.2. Termination of InsulROCK EIFS at roof parapets shall be protected by a waterproof membrane and cap flashing.
1.3.8.3. Flashing material shall be corrosion-resistant.
1.3.8.4. Flashing shall be installed in accordance with the model building code.

**1.3.9. Decorative Elements (mouldings, shapes, trim, window sills, etc.)**

1.3.9.1. Unless protected by metal flashing, the upward facing portion of a projection that is exposed to precipitation shall be sloped not less than 1:2 for projections up to 305 mm (12 inches) wide.
1.3.9.2. Horizontal projections wider than 305 mm (12 inches) shall be protected by structurally supported metal flashing.
1.3.9.3. Horizontal projections shall be designed, consistent with governing codes and standards, such that these will not be configured or construed as roofing or loadbearing (pedestrian or otherwise).
1.3.9.4. Pre-manufactured decorative elements shall be applied after the base coat has dried, and before primer or finish is applied.

**1.3.10. Aesthetic Reveals**

1.3.10.1. Aesthetic reveals may be cut into the insulation layer provided the insulation thickness behind the reveal is not less than 20 mm (3/4 inch).
1.3.10.2. Horizontal reveals shall have a minimum slope of 1:2 to shed water.
**SPEC NOTE**

12. Aesthetic reveals should not align with corners of through wall penetrations such as windows and doors.

### 1.4. Performance Requirements

1.4.1. EIFS shall meet the cladding requirements of the model building code.
1.4.2. EIFS shall meet the applicable fire requirements of the model building code.
1.4.3. Where required to meet the fire requirements of Article 3.1.5.5., EIFS shall be tested in conformance with CAN/ULC-S134, “Fire Test of Exterior Wall Assemblies”.
1.4.4. Where required to meet the fire requirements of Article 3.2.3.8, EIFS shall be tested in conformance with CAN/ULC-S101, “Fire Endurance Tests of Building Construction and Materials”, and base coats shall be tested in conformance with CAN/ULC-S114, “Noncombustible Material”.
1.4.5. Where the moisture barrier is intended to serve as an air barrier, the moisture barrier shall meet the air leakage characteristic identified in Article 5.4.1.2. of the model building code.
1.4.6. Where the moisture barrier is intended to serve as a vapour barrier, the moisture barrier shall have sufficiently low permeance to provide the level of resistance required in Article 5.5.1.2. of the model building code.

### 1.5. Submittals

1.5.1. Upon request, DuROCK will supply finish coat samples, approximately 200 x 200 mm (8 x 8 inches), providing representation of the texture and colour.

### 1.6. Quality Assurance

1.6.1. InsulROCK EIFS shall be installed by a competent, knowledgeable, experienced contractor.
1.6.2. InsulROCK EIFS shall be installed in accordance with these specifications and the corresponding details.

### 1.7. Delivery, Storage & Handling

1.7.1. All materials and components shall be delivered to the jobsite in the original, unopened packaging with labels clearly identifying each component.
1.7.2. All materials and components shall be inspected upon delivery. Any defective or frozen, materials or components shall not be used.
1.7.3. All materials and components shall be stored off the ground, and protected from precipitation and direct sunlight.
1.7.4. All water-based materials supplied in plastic pails shall be delivered and stored at temperatures above 4°C (40°F) and below 40°C (104°F).
1.7.5. All dry-bagged materials shall be protected from high humidity.

### 1.8. Site Conditions

1.8.1. Surface and ambient conditions for application of wet-state-materials shall be above 4°C (40°F) and shall remain so for a minimum of 24 hours and until all work has dried. Drying may require more than 24 hours under humid conditions or at low temperatures.
1.8.2. At temperatures below 10°C (50°F), adhesives shall be allowed to dry for a minimum of 48 hours. Drying may require more than 48 hours under humid conditions.
1.8.3. Wet-state-materials shall not be applied in direct sunlight at temperatures exceeding 30°C (86°F), or when the substrate temperature exceeds 40°C (104°F).
1.8.4. All work shall be protected from rain, snow, hail, and wind exceeding 25 km/hr (15 mph) until it has dried.

### 1.9. Warranty

1.9.1. InsulROCK EIFS is eligible for a limited manufacturer’s warranty starting from the date of substantial completion. A formal warranty request shall be submitted to DuROCK upon completion of the work.
1.9.2. DuROCK’s warranty is effective only when materials are paid for in full, and the workmanship complies with this specification.
1.9.3. Substitution of materials or components shall void the manufacturer’s warranty.
PART 2 – MATERIALS

2.1. GENERAL
2.1.1. All materials and components of InsulROCK EIFS shall be supplied by DuROCK Alfacing International Limited, or its appointed distributors.

2.2. MATERIALS

2.2.1. Moisture Barriers
2.2.1.1. DuROCK Cement Bear is a vapour permeable moisture barrier, air barrier, and adhesive. It is a wet mix, water-based acrylic dispersion that is field mixed with Type 10, 20, or 30 Portland cement 1:1 by weight, and applied by stainless steel trowel or spray equipment.
2.2.1.2. DuROCK Polar Bear is a vapour permeable moisture barrier, air barrier, and adhesive. It is a non-cementitious, water-based, acrylic dispersion that is factory mixed, and applied with stainless steel trowel or spray equipment.
2.2.1.3. DuROCK Vapour Block is a moisture barrier, air barrier, and vapour barrier. It is a wet mix, water-based styrene-butadiene dispersion that is factory mixed, and applied by stainless steel trowel or spray equipment.
2.2.1.4. DuROCK Roller Bear is a vapour permeable moisture barrier and air barrier. It is a factory-blended, ready-to-use, non-cementitious, polymeric, wet mix coating that is applied by spray, brush, or roller.

SPEC NOTE 13. DuROCK moisture barriers can be specified as forming part of an air barrier system, however, the Designer must indicate this. Continuity of the air seal is the responsibility of the Designer.

SPEC NOTE 14. The moisture barrier can be specified as the vapour barrier if the Designer selects DuROCK Vapour Block. This is only recommended when InsulROCK EIFS is the sole source of thermal insulation in the wall assembly. Vapour Block should not be used if its temperature will fall below the dew point of the heated interior air.

2.2.2. Drainage Accessories
2.2.2.1. DuROCK Uni-Track – polyvinyl chloride (PVC) extrusion used to facilitate drying and drainage at the base of the wall.
2.2.2.2. DuROCK Uni-Flash – polyvinyl chloride (PVC) extrusion used to facilitate drying and drainage above windows and other similar protrusions.

SPEC NOTE 15. DuROCK recommends drainage accessories be employed at all locations where the system is expected to drain, however it is the Designer’s responsibility to specify where they shall be used.

2.2.3. Insulation
2.2.3.1. InsulROCK insulation is typically Type I Expanded Polystyrene (EPS) [minimum thermal resistance RSI 0.65/25mm (R 3.75/inch) and average density 16 kg/m³ (1 lb/ft³)], however it is also available in Type II EPS [minimum thermal resistance RSI 0.70/25mm (R 4.0/inch) and average density 24 kg/m³ (1.5 lb/ft³)]. Both Types I & II are compliant with CAN/ULC-S701 and are made from 100% virgin materials.

SPEC NOTE 16. It is the Designer’s responsibility to specify the insulation thickness, which must be designed to minimize the potential for condensation within the supporting wall.
2.2.3.5. Spray-in-Place Polyurethane Foam, compliant with CAN/ULC-S710.1 - single component, moisture cure, low expansion rate foam, used for insulation board joints as a gap filling material.

2.2.4. Base Coat/Adhesives
2.2.4.1. DuROCK Prep Coat base coat/adhesive - a wet mix, water-based acrylic dispersion that is field mixed with Type 10, 20, or 30 Portland cement 1:1 by weight, applied by stainless steel trowel or spray equipment.
2.2.4.2. DuROCK Prep Coat D base coat/adhesive – a dry mix, polymer-modified cementitious material that is field mixed with potable water, applied by stainless steel trowel or spray equipment.

2.2.5. Mechanical Fasteners
2.2.5.1. Wind-Devil 2 by Wind-Lock Corp. high density plastic washers, 51 mm (2 inches) in diameter, used in combination with corrosion resistant screws that are suitable for the substrate.
2.2.5.2. High density one-piece plastic fasteners used for concrete and masonry substrates.

2.2.6. Alkali-Resistant Glass-Fibre Mesh
2.2.6.1. DuROCK Starter Mesh for Backwrapping – nominal 145 g/m² (4.3 oz/yd²) weight, supplied in 241 mm (9½ in) wide by 45.7 m (150 ft) long, and 965 mm (38 in) wide by 45.7 m (150 ft) long rolls.
2.2.6.2. DuROCK 5 oz Reinforcing Mesh – nominal weight 174 g/m² (5.2 oz/yd²), supplied in 965 mm (38 in) wide by 45.7 m (150 ft) long rolls. The DuROCK logo appears on the mesh.
2.2.6.3. DuROCK 15 oz Impact Mesh – nominal weight 522 g/m² (15.4 oz/yd²), supplied in 965 mm (38 in) wide by 22.8 m (75 ft) long rolls.
2.2.6.4. DuROCK 20 oz Impact Mesh – nominal weight 680 g/m² (20.1 oz/yd²), supplied in 1 m (39 in) wide by 22.8 m (75 ft) long rolls.

2.2.7. Primer and Finish Coats
2.2.7.1. DuROCK Base Primer – water-based, colour-pigmented acrylic dispersion used as a primer for DuROCK Finishes, applied by roller, brush, or spray equipment.
2.2.7.2. DuROCK Roll-On – water-based, colour-pigmented acrylic coating with a fine sand texture, used as a finish on decorative trim and mouldings, applied by roller, brush, or spray equipment.
2.2.7.3. DuROCK Finishes – water-based acrylic finish available in several textures and numerous colours, used as a finish on trim and walls, applied by stainless steel trowel or spray equipment.
2.2.7.4. DuROCK Specialty Finishes – water-based, exposed coloured aggregate finishes with integral texture, applied by stainless steel trowel or spray equipment.

2.2.8. SPEC NOTE
17. Maximum insulation thickness in accordance with National Building Code of Canada Article 3.1.5.5 is 127 mm (5 inch) for Type I EPS and 76 mm (3 inch) for Type II EPS.
18. Maximum insulation thickness in accordance with National Building Code of Canada Article 3.2.3.8 is 152 mm (6 inch) for Type I EPS and 102 mm (4 inch) for Type II EPS.
19. Reinforcing mesh weight governs the impact resistance of EIFS and 5 oz. mesh is not designed to withstand all impact caused by human force. DuRock recommends 15 or 20 oz. impact mesh plus 5 oz. reinforcing mesh for areas requiring greater impact resistance. It is the Designer’s responsibility to specify where 15 oz. and 20 oz. mesh are to be used.
20. PUCCS EIFS is not designed to withstand vehicular impact. Wherever possible, curbs, bollards, or sidewalks should be employed to create a buffer between PUCCS EIFS and vehicular traffic.
21. DuROCK recommends the application of primer to enhance the color consistency and durability of the finish, especially for dark coloured finishes, and applications in hot weather conditions. The Designer must specify if primer is required.
2.3. **Mixing**

2.3.1. DuROCK Cement Bear shall be mixed by a medium duty power-drill (400 – 500 RPM) with stainless steel or corrosion-resistant paddle-mixing-blades. It shall be mixed to a uniform consistency prior to mixing with Portland cement. 13.5 kg (30 lbs) of Type 10, 20, or 30 Portland cement shall be gradually added to one-half pail of Cement Bear, mixing continuously until a workable consistency is attained. The mixture shall be allowed to stand for approximately 5 minutes, and then remixed again to temper and increase pot life.

2.3.2. DuROCK Prep Coat shall be mixed by a medium duty power-drill (400 – 500 RPM) with stainless steel or corrosion-resistant paddle-mixing-blades. It shall be mixed to a uniform consistency prior to mixing with Portland cement. 15 kg (33 lbs) of Type 10, 20, or 30 Portland cement shall be gradually added to one-half pail of Prep Coat, mixing continuously until a workable consistency is attained. The mixture shall be allowed to stand for approximately 5 minutes, then remixed again to temper and increase pot life, adding up to 250 mL (8 oz) of potable water if required to adjust viscosity.

2.3.3. DuROCK Prep Coat D shall be mixed by a medium duty power-drill (400 – 500 RPM) with stainless steel or corrosion-resistant paddle-mixing-blades. One bag of Prep Coat D shall be gradually added to 6 L (1.3 imp gal) of potable water, mixing continuously until a workable consistency is attained. The mixture shall be allowed to stand for approximately 5 minutes, then remixed again to temper and increase pot life, adding up to 250 mL (8 oz) of potable water if required to adjust viscosity.

2.3.4. DuROCK Polar Bear, Vapour Block, Base Primer, Roll-On, Finishes, and Specialty Finishes shall be mixed to a uniform consistency by a medium duty power-drill (400 – 500 RPM) with stainless steel or corrosion-resistant paddle-mixing-blades prior to application.

2.3.5. Discard any material that has become stiff or hard.

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## Part 3 – Execution

3.1. **General**

3.1.1. Deficiencies in the substrate shall be rectified prior to commencing the work of this section.

3.1.2. The work of this section shall be co-coordinated with the work of other related sections.

3.1.3. InsulROCK EIFS shall be installed in accordance with these specifications and the corresponding details.

3.1.4. The work of other sections shall be protected to ensure the work of this section does not stain or otherwise damage them.

3.2. **Moisture Barrier**

3.2.1. Sheathing board joints shall not exceed 3.2 mm (1/8 inch). Gaps between sheathing boards shall be coated with Polar Bear prior to the application of Roller Bear.

3.2.2. A continuous, uniform coat of moisture barrier shall be applied to the substrate and allowed to dry. Minimum dry thickness shall be: 1.0 mm (39 mils) if the moisture barrier is Cement Bear; 1.2 mm (47 mils) if it is Polar Bear; 0.8 mm (32 mils) if it is Vapour Block; and 0.28 mm (11 mils) if it is Roller Bear.

3.2.3. A second continuous, uniform coat of the same moisture barrier material shall be applied and allowed to dry. Minimum dry thickness shall be: 1.0 mm (39 mils) if the moisture barrier is Cement Bear; 1.2 mm (47 mils) if it is Polar Bear; 0.8 mm (32 mils) if it is Vapour Block; and 0.28 mm (11 mils) if it is Roller Bear.

3.3. **Drainage Accessories**

3.3.1. Accessories shall be either adhesively or mechanically fastened to the substrate at locations indicated on the architectural drawings. Ends shall be butted tightly together, and sealed at termination points and corners.

3.3.2. Moisture barrier shall be applied to the interface of the accessory and the substrate to effectively prevent water from breaching it, and to direct water into its trough.

3.4. **Wrapping**

3.4.1. Insulation shall be wrapped at all terminations and at all expansion joints.

3.4.2. Wrapping shall encapsulate exposed insulation board edges with mesh-reinforced base coat.

3.4.3. Wrapping shall extend a minimum of 100 mm (4 inches) behind the insulation and should extend at least 50 mm (2 inches) beyond any self-adhering membrane that is present.

3.4.4. Wrapping shall be adhered to the substrate.

3.4.5. Wrapping shall not block the air space on the backside of the insulation at the base of the wall, and above windows and doors.
3.5. **INSULATION**

3.5.1. Adhesive shall be applied to the insulation board in parallel ribbons that are no less than 9 mm (17/48 inch) deep, 9 mm (17/48 inch) wide and spaced no less than 38 mm (1 ½ inches) apart. Ribbon spacing shall be proportional to ribbon size. The insulation shall be immediately adhered to the substrate with the ribbons aligned vertically and in such a manner as to form a clear, unobstructed drainage cavity between the insulation and the substrate.

3.5.2. The insulation shall be installed such that boards are butted tightly together, vertical joints are staggered a minimum of 75 mm (3 inches), boards are oriented lengthwise horizontally, and inside and outside corners are interlocked. Insulation board joints shall be offset not less than 150 mm (6 inches) from sheathing board joints. Insulation board joints shall not align with corners of through-wall penetrations such as windows and doors. Adequate space shall be left at termination and expansion joints to allow for wrapping and sealant. Gaps between boards that exceed 1.6 mm (1/16 inch) in width shall be filled with insulation material.

3.5.3. Once the adhesive has dried, mechanical fasteners shall be installed where polyethylene-faced transition membranes extend more than 75 mm (3 inches) behind the insulation and wherever wrapping does not extend at least 50 mm (2 inches) beyond any self-adhering membrane that is present. Fasteners shall be spaced no more than 305 mm (12 inches) apart. Fasteners shall be seated flush with the insulation board face (not countersunk), and shall be installed such that the fasteners penetrate a minimum of 8 mm (5/16 inch) into steel framing, 25 mm (1 inch) into concrete or masonry, and 25 mm (1 inch) into wood framing.

3.5.4. Once the adhesive has dried, the insulation shall be rasped to ensure the surface is plane, smooth, and free of ultraviolet radiation degradation. Minimum insulation thickness after rasping shall be 20 mm (3/4 inch).

3.5.5. Aesthetic reveals shall be cut as indicated on the architectural drawings. The minimum insulation thickness behind reveals shall be 20 mm (3/4 inch). Horizontal reveals shall be sloped to shed water. Reveals shall not align with insulation board joints. Reveals should not align with corners of through wall penetrations such as windows and doors.

3.6. **BASE COAT & FIBRE MESH**

3.6.1. Mechanical fastener heads should be covered with base coat and allowed to dry prior to coating the wall.

3.6.2. Where specified, impact mesh shall be embedded in base coat and allowed to dry prior to application of the reinforcing mesh. All areas that are treated with impact mesh shall also receive reinforcing mesh. Impact mesh joints shall be butted together and not overlapped.

3.6.3. Base coat shall be applied continuously over the insulation and areas that have been treated with impact mesh, reinforcing mesh shall be immediately embedded into it, and the surface shall be rendered uniform and smooth.

3.6.4. Reinforcing mesh joints shall be overlapped a minimum of 100 mm (4 inches) in the field of the wall, and at least 200 mm (8 inches) on both sides of outside corners. [Note: minimum overlaps increase to 125 mm (5 inch) for insulation thicknesses 114 & 127 mm (4½ & 5 inch) where DuROCK PUCCS is required to comply with CAN/ULC-S134]

3.6.5. An additional layer of reinforcing mesh shall be installed at a 45° angle to corners of through wall penetrations.

3.6.6. Minimum base coat thickness shall be 2.0 mm (79 mils). Base coat shall be allowed to dry prior to application of primer and finish.

3.7. **PRIMER & FINISH COAT**

3.7.1. Where specified, primer shall be applied to the reinforced base coat and allowed to dry for a minimum of 4 hours prior to finish coat application.

3.7.2. Finish coat shall be applied, and trowel-applied finishes shall be floated, to match the approved texture.

3.7.3. Finish coat shall not be applied onto surfaces that are to receive sealant.

3.7.4. Temporary protection shall remain in place until sealant and flashing are installed.

3.7.5. Leftover materials and debris shall be removed from the jobsite.

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