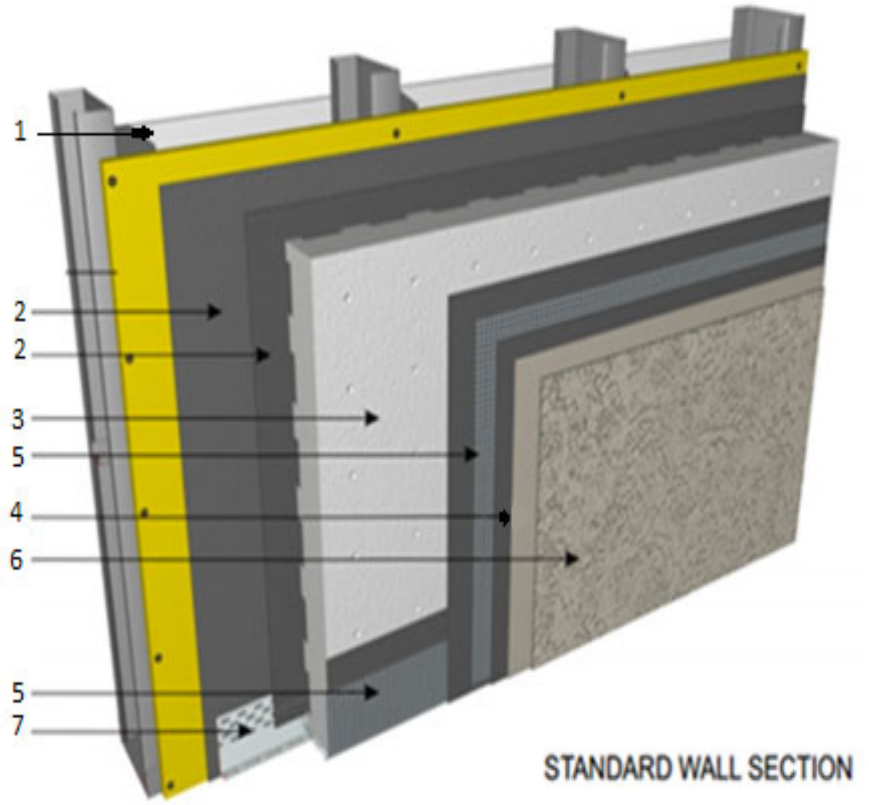
DuROCK Alfacing International
Design No. DAI/WDEIFS 30-01
EIFS System
DuROCK PUCCS & InsulROCK
CAN/ULC S134
Rating: Meets Conditions of Acceptance



CERTIFIED MANUFACTURER: DuROCK Alfacing International

CERTIFIED PRODUCT DuROCK PUCCS and InsulROCK EIFS Systems

1. **WALL ASSEMBLY:** Construct a wall assembly that complies with local building codes and regulatory requirements.

2. **WATER RESISTIVE BARRIER / ADHESIVE:** Apply one of the following water resistive barrier systems in accordance with the membrane manufacturer's installation specifications:

   A. DuROCK CEMENT BEAR – Trowel applied acrylic emulsion that is field-mixed with Portland cement. Also serves as an adhesive.
   B. DuROCK POLAR BEAR – Trowel applied acrylic emulsion. Also serves as an adhesive.

C. DuROCK VAPOUR BLOCK – Trowel applied co-polymer styrene-butadiene emulsion.

As an alternate to the trowel-applied emulsion barrier (Items A, B, or C), a modified bituminous self-adhering membrane is permitted for use in accordance with the membrane manufacturer's installation specification. Refer also to Item 8.

D. DuROCK ROLLER BEAR – Rolled or sprayed, non-cementitious, polymeric coating, at a min. dry thickness of 0.28 mm.

Items A and B may also be used to adhere the insulation board to the base wall.

3. INSULATION BOARD: Expanded polystyrene (EPS) insulation boards are attached using the Cement Bear or Polar Bear options in Item 2 or any of the base coat/adhesive options in Item 4.

The PUCCS insulation boards are grooved on the backside to create geometrically-defined drainage cavities that are 10 mm deep and have 37% open area.

The InsulROCK insulation boards are flat and are applied using vertical adhesive ribbons. The boards are butted tightly, and vertical joints are staggered a min. of 75 mm between successive rows. Insulation board joints are offset not less than 150 mm from sheathing board joints. If a gap between insulation boards exceeds 1.6 mm it must be filled with EPS insulation.

The EPS insulation boards shall conform to one of the following:

A. Max. 152 mm (6 in.) thick expanded polystyrene (EPS) insulation board is manufactured under a quality assurance program and conforming to CAN/ULC S701, Type 1, with nominal density of 16kg/m^3 (1 pcf), and complying with CAN/ULC S102.2 for a flame spread of less than 500 on the max. thickness used in the assembly.

B. Max. 101 mm (4 in.) thick expanded polystyrene (EPS) insulation board is manufactured under a quality assurance program and conforming to CAN/ULC S701, Type 2, with nominal density of 24kg/m^3 (1.5 pcf), and complying with CAN/ULC S102.2 for a flame spread of less than 500 on the max. thickness used in the assembly.

C. Max. 152 mm (6 in.) thick graphite polystyrene (GPS) insulation board is manufactured under a quality assurance program and conforming to CAN/ULC S701, Type 1, with nominal density of 16kg/m^3 (1 pcf), and complying with CAN/ULC S102.2 for a flame spread of less than 500 on the max. thickness used in the assembly.

D. Max. 101 mm (4 in.) thick graphite polystyrene (GPS) insulation board is manufactured under a quality assurance program and conforming to CAN/ULC S701, Type 2, with nominal density of 24kg/m^3 (1.5 pcf), and complying with CAN/ULC S102.2 for a flame spread of less than 500 on the max. thickness used in the assembly.

4. BASE COAT/ADHESIVE: The base coat options below are applied continuously over the insulation, including areas that have been treated by impact mesh (Item 5). After the initial coat, apply reinforcing mesh and then additional coats until the mesh is fully embedded. A min. base coat thickness of 2 mm is required. The base coat must be allowed to dry before the application of the primer or finish coat. See Item 3 for use of the base coats as adhesive for application of the EPS.

A. DUROCK PREP COAT – Trowel applied acrylic emulsion that is field-mixed with Portland cement.

B. DUROCK PREP COAT A – Trowel applied dry mix material that is field-mixed with DuROCK Prep Coat.

C. DUROCK PREP COAT D – Trowel applied polymer based dry mix material that is field-mixed with water used for both.

5. **REINFORCING MESH:** DuROCK Reinforcing Mesh with a weight of 150 g/m^2 or greater, and with edges overlapped 100 mm min. (125 mm for EPS thicknesses of 101.6 mm to 127 mm), is embedded in the base coat. The reinforcing mesh is back-wrapped or pre-wrapped at terminations to encapsulate the insulation board. A self-adhering reinforcing mesh can be used for pre-wrapping the insulation. An additional layer of mesh is installed at a 45° angle to corners of through-wall penetrations. For additional impact resistance, a layer of impact mesh with nominal weight of 522 g/m^2 or 680 g/m^2 shall be embedded in the base coat and allowed to dry prior to application of the reinforcing mesh. The impact mesh joints shall be butted together and not overlapped. The base coat must fully cover the mesh.

6. **FINISH COAT:** DuROCK Finishes, including the application of primer where specified by the designer, shall be applied to the reinforced base coat and allowed to dry for a min. of 4 hr.

   The finish coat shall be applied in accordance with the manufacturer's installation specification. Approved finishes include:

   A. STANDARD FINISHES – Coarse Coat, Desert Sand, Grain, Marble Coat, Max Coat, Pebble Rock, Sand Coat, Spacco, Venetian Fine Coat, Pebble Coat, Spray, Pebble Spray, Fine Spray, Airless, Roll On, Roll On Coarse, and Roll On Fine;
   B. SPECIALTY FINISHES – DuROCK Gemstone Coloured Quartz, DuROCK Hudson Brick.

   For DuROCK Hudson Brick finish, apply Grout Coat adhesive with a notched trowel, and press Hudson Brick sheets firmly into the wet adhesive in a horizontal running bond, and align sheets for a continuous surface. When the adhesive has set but not dried, tool the adhesive between the bricks to form mortar-like joints, and protect until fully dry. Each Hudson Brick sheet covers approximately 3.2 ft² (0.30 m²); each 25 kg (55 lb) bag of Grout Coat covers approximately 40 ft² (4 m²).

7. **OPTIONAL DRAINAGE TRACK:** DuROCK Uni-Track and DuROCK Uni-Flash.

8. **MECHANICAL FASTENING:** (Not Shown) Mechanical fastening of the insulation board to the substrate is permitted in accordance with DuROCK's installation specification. Mechanical fastening must be used to secure the insulation where a modified bituminous self-adhering membrane is used.

9. **OPTIONAL INSTALLATION OVER ICF:** Installation of DuROCK PUCCS and InsulROCK EIFS over an ICF substrate is permitted provided that for ICF substrates having an exterior EPS foam face of 67 mm (2-5/8 in.) nominal thickness and 24 kg/m³ (1.5 pcf) density, additional Type 1 EPS/GPS insulation having a maximum thickness of 52 mm (2.06 in.) may be applied over the ICF.

10. **OPTIONAL SUBSTRATES:** Brick, masonry, monolithic concrete, concrete/cementitious boards, fiber cement sheet, glass-mat gypsum sheathing, plywood and OSB, as recognized in applicable Canadian Standards and Building Codes.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.