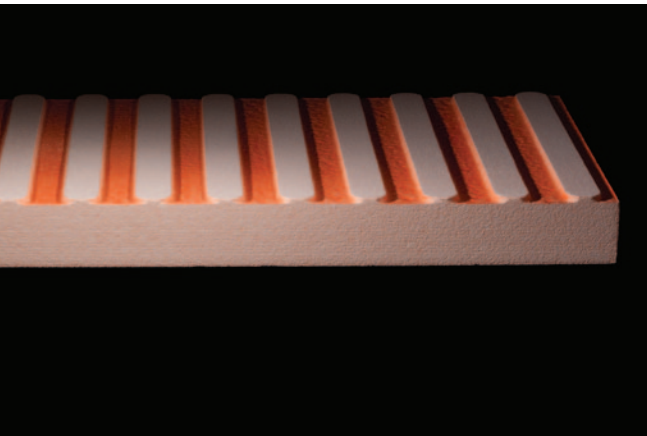
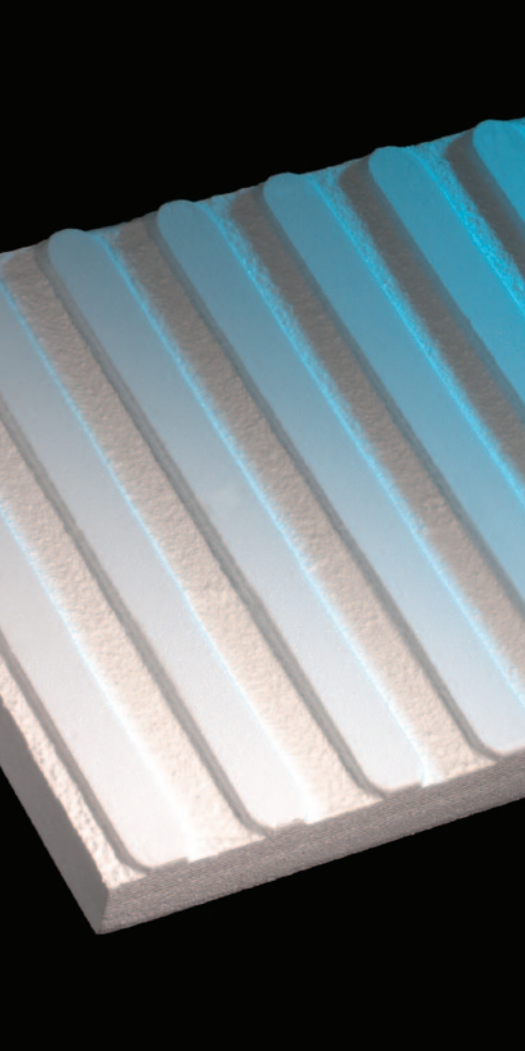


Moisture Managed Insulated Cladding
Designed to Outperform.

Durex[®] 
Quantum



DURAbond
Products Limited



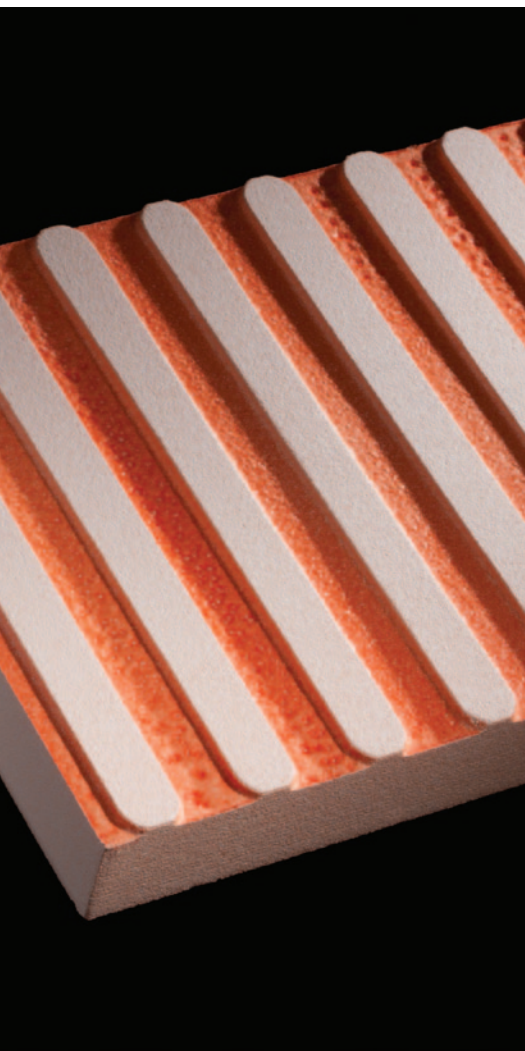
Durex® Quantum Select

Insulated Drained Cladding

Quantum Select is a high-performance non-combustible exterior insulation finishing system featuring a geometrically defined drainage cavity to flash incidental moisture to the exterior. The Quantum Select system is engineered to reduce air leakage of the building envelope, allow for cavity drainage while maintaining maximum insulation R-value and stop water intrusion.

Benefits include:

- Continuous plane of air tightness (ASTM 283)
- Vertical channel design reduces heat loss caused by wind washing effects
- Continuous insulation layer eliminates thermal bridging & improves energy performance
- Tough, durable, breathable coating will not trap moisture vapour & enhances the aesthetic appearance
- Maintenance-free cladding system
- Meets CAN/ULC S101 & CAN/ULC S114



Durex® Quantum 5.0

X-Grade™ Insulated Drained Cladding

Quantum 5.0 is a high-performance non-combustible exterior insulation finishing system featuring an increased R value of 5.0 per inch with premium grade (Modified EPS) expanded foam insulation. This innovative approach utilizes a denser insulating material to increase the thermal performance without increasing wall thickness.

Benefits include:

- Continuous plane of air tightness (ASTM 283)
- Vertical channel design reduces heat loss
- R-Value of 5.0 per inch / 0.88 RSI (Measured at -18° C using test method ASTM STP1320) with a compressive strength of 40 psi
- Continuous insulation layer eliminates thermal bridging & improves energy performance
- Tough, durable, breathable coating will not trap moisture vapour & enhances the aesthetic appearance
- Maintenance-free cladding system
- Meets CAN/ULC S101 & CAN/ULC S114

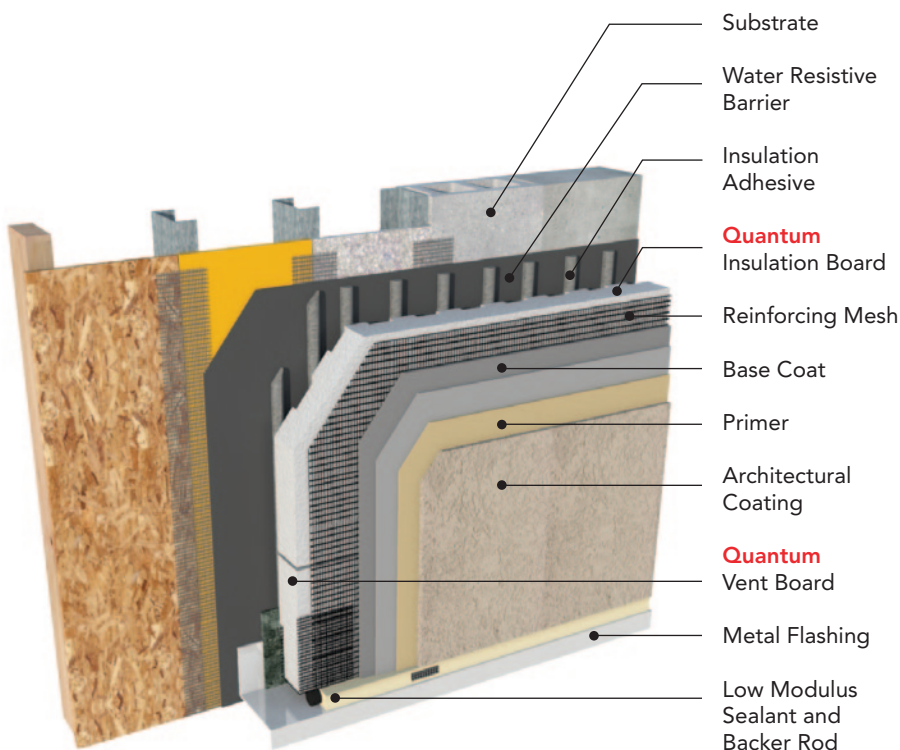
Durex Quantum exterior insulation finishing systems by Durabond are designed to be installed over most common construction substrates with the aid of a mechanical fastening system or placement of a continuous adhesive.

Quantum Exterior Insulating Finishing System

Quantum EIFS is an innovative insulated cladding assembly engineered to limit air leakage, improve thermal performance and manage moisture.

Benefits at a glance:

Quantum EIFS insulation boards are manufactured with geometrical shaped channels on the back face. This innovative design channels incidental moisture to the exterior.



Vertical Channel Design Compartmentalizes Drainage and Airflow



Understanding Quantum Air Barrier Technology

A "Systems Approach" to Code Compliance; limiting air infiltration and exfiltration through the exterior envelope improves indoor air quality, energy efficiency and reduces operating costs. Achieving a water resistive plane of airtightness requires durable and easy to apply breathable air barrier coatings. Water resistive air barriers & insulation functioning as ONE; Quantum EIFS provides 2 layers of protection against air leakage and rain penetration without compromising Energy or R-Value.

Engineered for effective Drainage

The 10 mm geometrically defined drainage channels on the back face of the insulation board:

- allows gravity induced flow to the exterior
- accelerates drying time of the drainage cavity
- eliminates the risk of capillary rise
- ensures positive drainage throughout the assembly

Quantum means Excellent Thermal Resistance

Recent code changes acknowledges increased thermal performance with the use of continuous insulation. Continuous insulation eliminates thermal bridging, reduces the risk of condensation and maintains a more ambient temperature within the cavity. Quantum Select and Quantum 5.0 have been tested to evaluate the effects of cavity air flow and found to have no appreciable reduction in insulation R-Value.

Full Compliance

- Exceeds National Building Energy Code Requirements
- ULC Fire Tested and Approved (ULC S-101)
- CCMC Approved #13103-R

Durex® Quantum Exterior Insulation Finishing Systems feature an innovative approach to meeting code compliance with a functioning drainage cavity without compromising R-Value. **Durex®** air barrier products, insulation boards and exterior finishing coatings were developed and engineered to perform as an assembly providing protection against the elements, improved thermal performance and an effective barrier against air and water intrusion.

10 mm Drainage Cavity; Dual Barrier Design Requirements

Durex® Quantum incorporates a 10mm “Geometrically Defined Drainage Cavity” (GDDC) in the back face of the insulation boards to meet the new requirements for dual barrier exterior wall designs for face sealed wall systems.

- Quantum GDDC compartmentalizes drainage and ventilation.
- Compartmentalization of the cavity reduces heat loss by convection.
- Innovative manufacturing of GDDC seals surfaces of insulation intended to be in contact with migrating moisture.
- Channelized design provides sufficient air flow without robbing the wall of valuable R-Value.

Technical Fortitude.

Moisture Managed

Exterior wall assemblies are under constant threat of deterioration as a result of unwanted water intrusion. Managing moisture through cavity drainage and air circulation is the most effective method to ensure that if water gets in, it can get out!

Technical Verification

Durex® Quantum Exterior Insulation Finishing Systems have been evaluated for compliance with the 2006 OBC requirements Dual Water Resistive Barriers by the Intertek Testing Services and 2005 NBC requirements for Combustible Insulation in Non-Combustible Construction by the Canadian Construction Materials Centre.

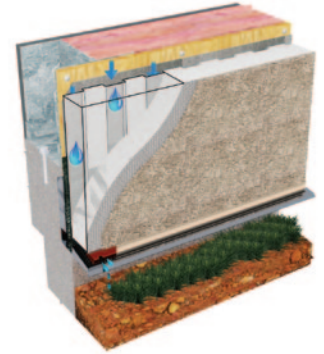
Design / Collaboration / Solutions

Today's construction projects can be diverse and complex requiring unique solutions and customized installations. The design and construction of the building enclosure requires the integration of many materials and cladding options.

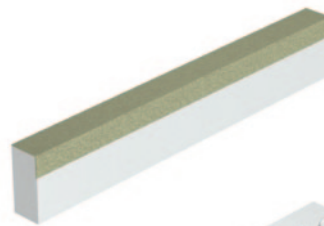
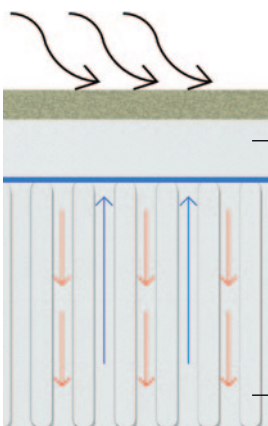
Be it the Design Studio, or out on the project site, the Durabond technical support team has the knowledge and experience to assist in product selection, specifications and/or development of project details. Our on-site technical representatives are there to train applicators and assist with measures to ensure quality control.

Collaboration between the design professional, Construction Managers and qualified product representatives becomes a key factor in the success of today's building and development projects.

Let the technical experts at Durabond Products Limited be your business partner.



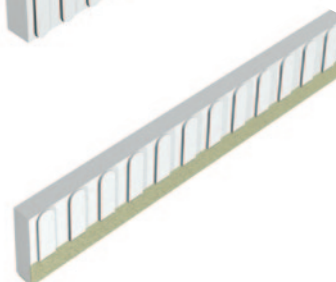
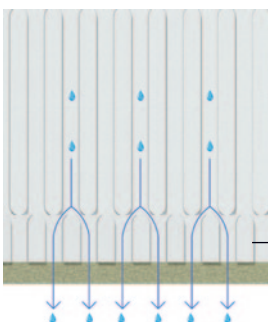
Durex® 
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Durex® Boundary Board
Prefinished to stop air exfiltration



Durex® Quantum Insulation
Geometrical drainage channels



Durex® Vent Board
Prefinished to stop air infiltration

Durex® Quantum Exterior Insulation Finishing Systems are available with a range of water resistive air barriers, insulation attachment methods and adaptable interfacing solutions on virtually any type of building regardless of age or wall construction. **Durex® Quantum Exterior Insulation Finishing Systems** give you the flexibility of design.

New Construction

Durex® Quantum Exterior Insulation Finishing Systems is the ideal cladding solution for New Construction applications.

Moisture Managed, Insulated Cladding solutions are the smart choice.

- Integrated systems engineered to limit air leakage, improve thermal performance and manage moisture
- Exceeds National Energy Building Code Design Requirements
- Increased Thermal Resistance over traditional insulation methods
- Suitable for all types of construction
- Compatible fenestration flashing membranes



A solution for your every challenge.

Restore / Reclad / Retrofit

Durex® Quantum Exterior Insulation Finishing System is the most effective and economical method of stopping water intrusion, reducing energy consumption and beautifying your building. Nothing is more sustainable than restoring existing buildings.

It's like putting on a winter coat!

Durex® Quantum Exterior Insulation Finishing System improves the energy efficiency of existing buildings with the placement of additional insulation applied directly to the outside face of building envelope, sealing the structure against heat loss, water intrusion and uncontrolled air movement.

- Improves overall energy efficiency, reduces energy consumption
- Extends the life of the building, protects against future deterioration
- Improves the aesthetic appearance with limitless option of colours and finishes
- Offers flexibility with site-specific insulation attachment methods

Industry Recognized Technical Support

Durabond provides expert building envelope knowledge with innovative solutions.

- Superior products and systems required to make any project a success.
- On-site Technical Support
- In-house Design Capabilities
- Knowledgeable and Experienced Technical Representatives

Water Penetration Barriers

Durabond has a variety of ASTM Tested Air and Water Penetration Barriers for your type of substrate. These products effectively seal the building envelope against uncontrolled air movement and incidental moisture which may lead to condensation and deterioration of substrates.

Durex® 
Quantum



Durabond Products Limited

Durabond Products Limited is a market leader in the development and manufacturing of high performance protective coating systems and products for the building enclosure. For over 40 years design professionals, engineers and contractors have chosen **Durex®** Architectural Coatings, **Durex®** Technical Coatings and a wide range of related construction products by Durabond to protect, enhance and restore their buildings.

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