(Mechanically Fastened)

Durex Quantum Select MF

Advanced-Drained Moisture Managed

Exterior Insulation and Finish System (Mechanically Fastened)

Description

Durex® Quantum Select MF is an exterior insulation and finish system consisting of expanded polystyrene insulation with factory-cut channels, insulation adhesive, mechanical fasteners, glass fibre reinforcing mesh, base coats, and a finish texture coat which can be selected from any one of the available Durex Architectural Coatings.

Uses

Durex* Quantum Select MF is suitable for use over a wide range of structurally sound substrates and is recommended for use in buildings which require moisture-managed cladding.

Features

- . CCMC listed (13103-R)
- · Continuous venting at floor lines and horizontal terminations, using pre-manufactured vented boards
- Positive drainage (through a network of vertical and horizontal channels)
- . Continuous air/vapour barrier
- . Simple interfacing with other pressure equalized claddings
- . 2-hour fire rating in accordance with ULC W-456
- . Economical

SYSTEM COMPONENT

Classic Series

Artisan Series

Premium Series

Kolor Gard Series

Elastomeric (FX) Series

- · Aesthetic design flexibility
- . GDDC Factor 47% (Geometrically Defined Drainage Cavity)
- . CI factor 0.65 RSI (R 3.9) per inch (Continuous Insulation)

STANDARD/METHOD

CCMC Report # 13103-R

detailed data)

(Refer to product specific Technical Data Sheet

and CCMC Evaluation Report # 13103-R for more

- CI factor 0.70 RSI (R 4.0) per inch Type II EPS (Continuous Insulation)

TECHNICAL DATA

RESULTS

Meet and exceed all requirements

| SYSTEM COMPONENT | STANDARD/METHOD | KESULIS | |
|---|---|---|---|
| INSULATION: Durex Quantum Select Type I Durex Quantum Select Type II | CAN/ULC S701 | Thermal Resistance 0.65 RSI (R 3.9) per inch 0.70 RSI (R 4.0) per inch | GDDC Factor 47% 47% |
| WATER RESISTIVE BARRIER: | | | |
| Air / Vapour Barriers Durex Flexseal | ASTM E96 – Water Vapour Transmission | Method A | Method B 2.9 ng/Pa.s.m ² |
| Air Barriers Durex Flexseal VP Durex AirStop | (Refer to product specific Technical Data Sheet for more detailed data) | 629 ng/Pa.s.m² 185 ng/Pa.s.m² | 972 ng/Pa.s.m ² 505 ng/Pa.s.m ² |
| INSULATION ATTACHMENT: | | | |
| -Durex"M" fasteners (masonry) | ASTM B-117 – salt spray | 750 hrs. or better | |
| -Durex "W" fasteners (wood) | DIN 50012 - SO₂ exposure | 25+ cycles | |
| -Durex "S" fasteners (steel) | FM4470 & DIN 50018 SFW | 30 cycles Pass | |
| LAMINA: Impant Resistance Durex Fiberglass Mesh (Note: Impact resistance level is directly related to the weight and layers of Fiberglass mesh used in the lamina) Base Coat | ASTM E2486 – Impact Resistance (Refer to Table 1.5.9 of the Quantum Select MF Specifications for detailed selection chart for guidance on level of impact resistance required) | Retention Physical Standard 3 N.m Intermediate 8 N.m High 13 N.m Ultra High 20 N.m Extreme 25 N.m | Retention Performance 10 N.m PASS 15 N.m PASS 20 N.m PASS 30 N.m PASS 40 N.m PASS |
| Durex Uniplast/Acrybond "S" Durex Monobase | CAN/ULC S114 Noncombustibility | Rated Noncombustible Rated Noncombustible | |
| FINISHES: | | | |
| Durex Architectural Coatings | CAN/ULC S716.1 & | Durex Architectural Coat | ings |

| PERFORMANCE: | (Refer CCMC Evaluation Report # 13103-R for complete detailed performance data) | | |
|----------------------|---|---|--|
| Fire Protection | CAN/ULC S101 & CAN/ULC S114 (Compliance to NBC 3.2.3.8(1) (b)) | Rated as non-combustible cladding ULC design EW21/ EW22/EW23 | |
| | CAN/ULC S101 (Fire Resistance rated Assemblies) | 1 hr. FR rating ULC design W489 (Load Bearing) 2 hrs. FR rating ULC design W485 (Load Bearing) 2 hrs. FR rating ULC design W456 (Non-Load Bearing) | |
| | CAN/ULC S134 (Compliance to NBC 3.1.5.5) | Intertek listing # DPL-WEIFS 30-01 | |
| Wind Load Resistance | ASTM E330 — sustained | -2.5 kPa for 60min. – no visible damage to any of the wall components | |
| | ASTM E330 — cyclic | 600 cycles alt. 0 to -2.5kPa – no visible damage to any of the wall components | |
| | ASTM E330 — blow-out | -3.75kPa applied for 10 sec. – no visible damage to any of the wall components - max. pressure 7.12 kPa | |
| Water Tightness | ASTM E331 | 400 Pa pressure difference for 15 min. – no water penetration through the exterior surface finish | |
| System Compliance | CCMC Technical Guide for EIFS CAN/ULC S716.1 EIFS Materials & System | CCMC Evaluation Report # 13103-R Durex Quantum Select MF is fully compliant with: CAN/ULC S716.1 Materials & System CAN/ULC S716.2 Installation of Components & WRB CAN/ULC S716.3 Design Application | |

Building Code Conformance:

| Durex® Quantum Select MF complies with the following building code requirements (refer to applicable building code) | | | | | |
|---|-----------------------------------|--|--|--|--|
| Classification | Category 1 | | | | |
| | CAN/ULC S114 & CAN/ULC S101 | Non-Combustible Lamina | | | |
| | CAN/ULC S134 | Fire Test of Exterior Wall Assemblies | | | |
| Part 3 | Article 3.1.5.5 | Combustible Cladding on Exterior Walls | | | |
| | Article 3.1.5.2 | Allowable Minor Combustible Components | | | |
| | Clause 3.2.3.7(2) & Table 3.2.3.7 | >10% Unprotected Openings | | | |
| Part 5 | Section 5.6.1 | Protection from Precipitation | | | |
| | Sub-Section 5.6.2.1 | Sealing and Drainage | | | |
| | Section 5.9.4 | Exterior Insulation Finish Systems | | | |
| Part 9 | Clause 9.25.2.2(1)(d) | Insulation Materials CAN/ULC S701 | | | |
| | Sub-Section 9.25.5.2 | Position of Low Permeance Membranes | | | |
| | Clause 9.27.1.1(5) | General (Cladding, Application) | | | |
| | Section 9.27.2 | Required Protection from Precipitation | | | |
| | Article 9.27.3.1 | Elements of Second Plane of Protection | | | |
| | Sub-Section 9.27.13 | Exterior Insulation Finish Systems | | | |

Application Apply all Durex System Products and components, (WRB, insulation, fasteners, base coat, reinforcing mesh, finish coat, sealants) in strict accordance with Durabond's printed instructions. See Durabond's

Standard Specifications/Details and Durex Product Data Sheets.

Clean-up Clean all tools promptly after use with clean water. Do not allow mixes to dry on tools.

Storage Store all Durex® Products and components in a dry vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F). Keep materials dry, protected from dampness and

moisture and away from direct sunlight. KEEP FROM FREEZING.

Health and Safety For information and advice on the safe handling, storage and disposal of chemical products, refer to the

most recent SDS sheet containing physical, environmental, toxic and other safety/materials handling

data. For industrial use only. Keep out of reach of children.

Warranty Durabond Products Limited fully warrants their products when used and applied in strict accordance

with the printed instructions on product mixing and product application. In any case Durabond's responsibility shall not exceed either the refund of the purchase price or the replacement of the

purchased product.

Technical Services Technical support is available upon request at info@durabond.com. For the latest version of this data

sheet, please visit our website at www.durabond.com, call toll free at 1-877-DURABOND (387-2266) or

speak with your Durabond Products Ltd. sales representative.

