QUANTUM SELECT IC

Durex. Quantum Select ICF

Advanced-Drained Moisture-Managed EIFS for ICF (Adhered Drained Cladding Insulated Concrete Forms)

Description

Durex* Quantum Select ICF is an exterior insulation and finish system consisting of expanded polystyrene insulation with factory-cut channels, insulation adhesive, glass fibre reinforcing mesh, base coats, and a finish texture coat which can be selected from any one of the available Durex Architectural Coatings. Durex* Quantum Select ICF system is ULC rated as non-combustible cladding, meeting building code requirements for non-combustible construction.

Uses

Durex® Quantum Select ICF 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

Artisan Series

Kolor Gard Series

Elastomeric (FX) Series

- . CAN/ULC S716 compliant
- . 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 W456
- Economical
- · Aesthetic design flexibility
- . GDDC Factor 47% (Geometrically Defined Drainage Cavity)
- . CI factor 0.65 RSI (R 3.9) per inch (Continuous Insulation)
- CI factor 0.70 RSI (R 4.0) per inch Type II EPS (Continuous Insulation)

TECHNICAL DATA

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SYSTEM COMPONENT	STANDARD/METHOD	RESULTS		
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 Ectoflex Air Barriers	ASTM E96 – Water Vapour Transmission	Method A 18 ng/Pa.s.m ²	Method B 91 ng/Pa.s.m ²	
Durex Flexcrete	(Refer to product specific Technical Data Sheet for more detailed data)	400 ng/Pa.s.m ²	972 ng/Pa.s.m ²	
INSULATION ADHESIVE:				
Durex Flexcrete Durex Monobase Durex VCA 3.0	ASTM D1623 Adhesion Properties (Refer to product specific Technical Data Sheet for more detailed data)	1.12 MPa (162 psi) 1.38 MPa (200 psi) 1.02 MPa (148 psi)		
LAMINA: Impant Resistance Durex Fiberglass Mesh (Note: Impact resistance level is	ASTM E2486 – Impact Resistance (Refer to Table 1.5.9 of the Quantum Select ICF	Retention Physical Standard 3 N.m Intermediate 8 N.m	Retention Performance 10 N.m PASS 15 N.m PASS	
directly related to the weight and layers of Fiberglass mesh used in the lamina)	Specifications for detailed selection chart for guidance on level of impact resistance required)	High 13 N.m Ultra High 20 N.m Extreme 25 N.m	20 N.m PASS 30 N.m PASS 40 N.m PASS	
Base Coat Durex Uniplast/Acrybond "S" Durex Monobase Durex Flexcrete	CAN/ULC S114 Noncombustibility	Rated Noncombustible Rated Noncombustible		
FINISHES:				
Durex Architectural Coatings Classic Series Premium Series	CAN/ULC S716.1 & CCMC Report # 13103-R	Durex Architectural Coat Meet and exceed all requ	_	

(Refer to product specific Technical Data Sheet

and CCMC Evaluation Report # 13103-R for more

detailed data)

PERFORMANCE:	(Refer CCMC Evaluation Report	(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 EW23		
	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 ICF 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 ICF complies with the following building code requirements (refer to applicable building code)				
Classification	Category 2			
	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		
	Article 3.2.3.7 & Table 3.2.3.7	>10% Unprotected Openings		
	Sub-Section 3.2.3.8 (1) (b)	CAN/ULC S101-15 minutes – Non-Combustible Base Coat		
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		
	Article 9.10.14.5 & Table 9.10.14.5(A)	>10% Unprotected Openings		
	Article 9.10.15.5	>0.6 m Limiting Distance		

Application Apply all Durex System Products and components, (WRB, insulation, adhesive, 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 Storage 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. $\label{eq:control}$

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 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

Technical Services speak with your Durabond Technical Coatings Ltd. sales representative.

