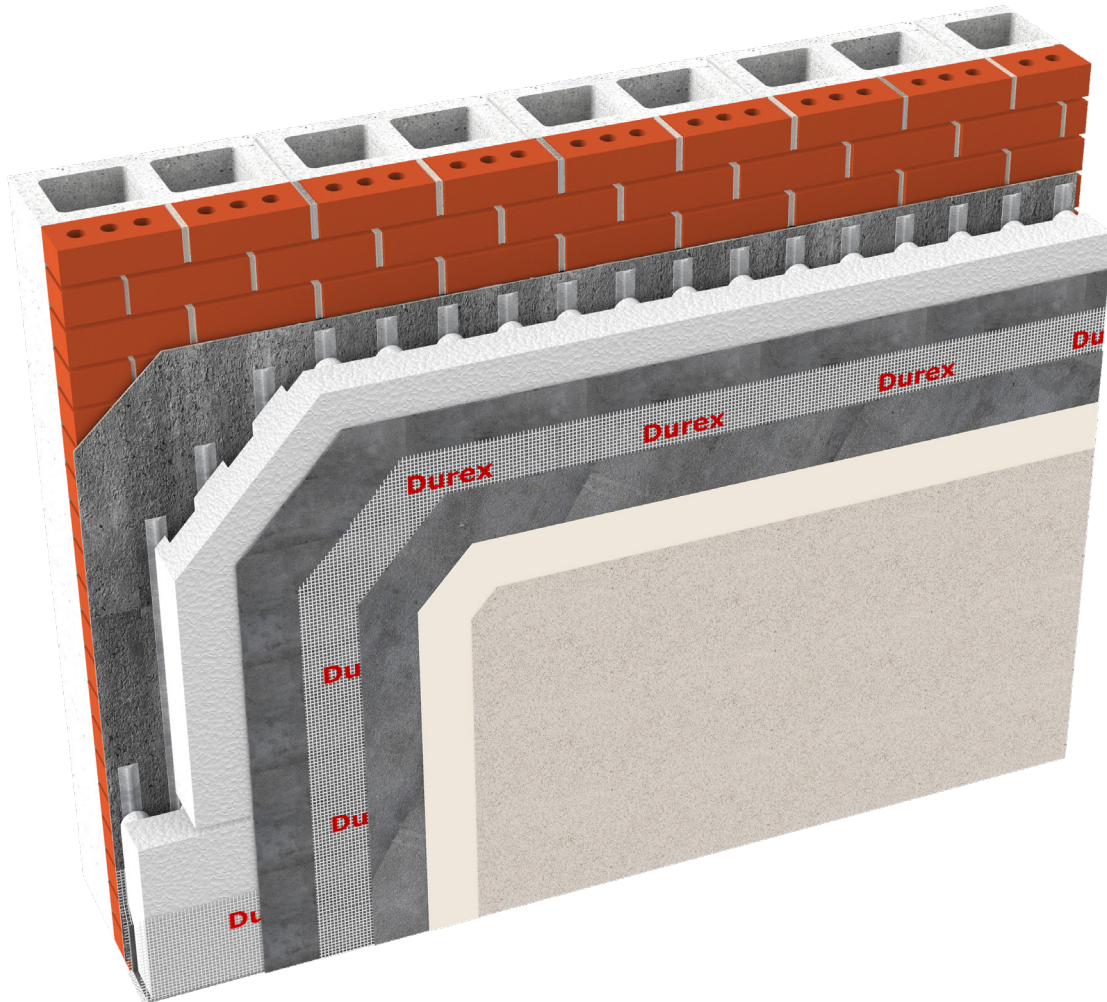


Durex®

Advanced Drained Moisture Managed OverCladding
for Existing Mid-Rise & High-Rise Buildings

Quantum Select OverClad



CCMC 13103-R

CAN/ULC S716.1 Materials

CAN/ULC S716.2 Installations

CAN/ULC S716.3 Design Application

G.D.D.C Factor = 47%

C.I Factor = 0.65 RSI/Inch Type 1 EPS

= 0.70 RSI/Inch Type 2 EPS



Drained



Ultra High Impact
Resistance



LEED
Compliant



Fire Rated

Protect. Enhance. Outperform.

DURAbond

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info@durabond.com

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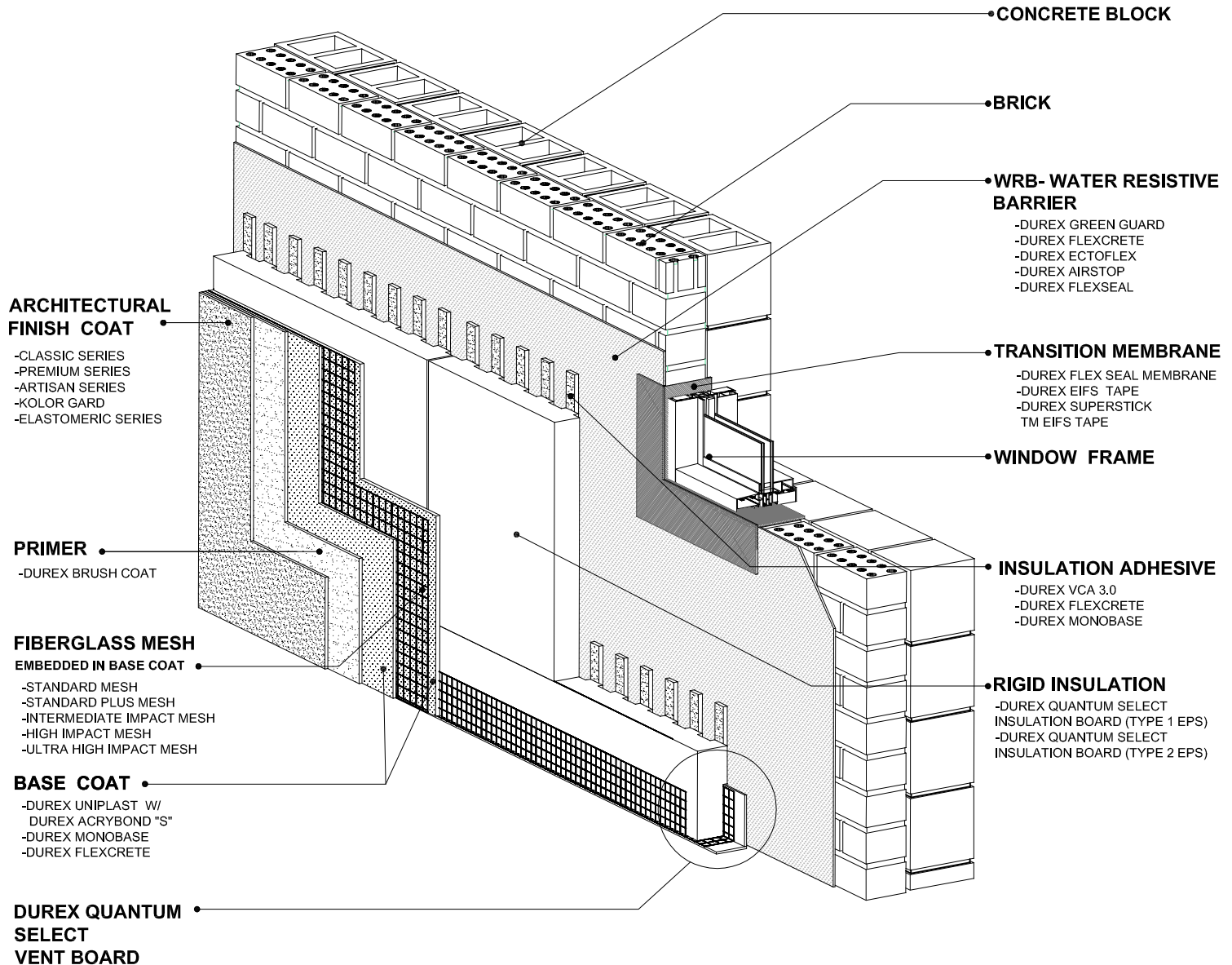


ISOMETRIC & SPECIFICATIONS

Durex®

Quantum Select Overclad

*Overclad Cladding System
for Existing Mid-Rise &
High-Rise Buildings*



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Durabond details are offered to assist in the development of project specific details; principles and variables incorporated in all details are the sole responsibility of the project professional(s).

*System Isometric
& Components*

Durex Quantum Select OVERCLAD

Advanced-Drained Moisture Managed Insulated Cladding System for Recladding of Existing Masonry Buildings

Description	Durex® Quantum Select OVERCLAD 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 OVERCLAD is specially designed for the retrofit and recladding of existing masonry clad buildings and high rises. Durex Quantum OVERCLAD suitable for use over a wide range of other substrates that may require a combination of adhesive and mechanical attachment, 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 • 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

SYSTEM COMPONENT	STANDARD/METHOD	RESULTS			
INSULATION:		Thermal Resistance	GDDC Factor		
Durex Quantum Select Type I	CAN/ULC S701	0.65 RSI (R 3.9) per inch	47%		
Durex Quantum Select Type II		0.70 RSI (R 4.0) per inch	47%		
WATER RESISTIVE BARRIER:					
Air / Vapour Barriers	ASTM E96 – Water Vapour Transmission	Method A	Method B		
Durex Flexseal			2.9 ng/Pa.s.m ²		
Durex Ectoflex		18 ng/Pa.s.m ²	91 ng/Pa.s.m ²		
Air Barriers	(Refer to product specific Technical Data Sheet for more detailed data)				
Durex Flexseal VP		629 ng/Pa.s.m ²	972 ng/Pa.s.m ²		
Durex AirStop		185 ng/Pa.s.m ²	505 ng/Pa.s.m ²		
Durex Flexcrete		400 ng/Pa.s.m ²	972 ng/Pa.s.m ²		
INSULATION ATTACHMENT:	Mechanical Attachment:				
-Durex“M” fasteners (masonry)	ASTM B-117 – salt spray	750 hrs. or better			
-Durex “W” fasteners (wood)	DIN 50012 - SO ₂ exposure	25+ cycles			
-Durex “S” fasteners (steel)	FM4470 & DIN 50018 SFW	30 cycles Pass			
	Adhesive Attachment:				
Durex Flexcrete	ASTM D1623 Adhesion Properties	1.12 MPa (162 psi)			
Durex Monobase	(Refer to product specific Technical Data Sheet for more detailed data)	1.38 MPa (200 psi)			
Durex VCA 3.0		1.02 MPa (148 psi)			
LAMINA:		Retention Physical	Retention Performance		
Impact Resistance	ASTM E2486 – Impact Resistance				
Durex Fiberglass Mesh		Standard 3 N.m	10 N.m	PASS	
(Note: Impact resistance level is directly related to the weight and layers of Fiberglass mesh used in the lamina)	(Refer to Table 1.5.9 of the Quantum Select OVERCLAD Specifications for detailed selection chart for guidance on level of impact resistance required)	Intermediate 8 N.m	15 N.m	PASS	
		High 13 N.m	20 N.m	PASS	
		Ultra High 20 N.m	30 N.m	PASS	
		Extreme 25 N.m	40 N.m	PASS	
Base Coat					
Durex Uniplast/Acrybond “S”	CAN/ULC S114 Noncombustibility	Rated Noncombustible			
Durex Monobase		Rated Noncombustible			
FINISHES:					
Durex Architectural Coatings	CAN/ULC S716.1 & CCMC Report # 13103-R	Durex Architectural Coatings			
Classic Series		Meet and exceed all requirements			
Premium Series					
Artisan Series	(Refer to product specific Technical Data Sheet and CCMC Evaluation Report # 13103-R for more detailed data)				
Kolor Gard Series					
Elastomeric (FX) Series					

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
	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	CCMC Evaluation Report # 13103-R
	CAN/ULC S716.1 EIFS Materials & System	Durex Quantum Select OVERCLAD 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 OVERCLAD complies with the following building code requirements (refer to applicable building code)

Classification	Category 1 CAN/ULC S114 & CAN/ULC S101 CAN/ULC S134	Non-Combustible Lamina Fire Test of Exterior Wall Assemblies
Part 3	Article 3.1.5.5 Article 3.1.5.2 Article 3.2.3.7 & Table 3.2.3.7 Sub-Section 3.2.3.8 (1) (b)	Combustible Cladding on Exterior Walls Allowable Minor Combustible Components >10% Unprotected Openings CAN/ULC S101 – 15 minutes – Non-Combustible Base Coat
Part 5	Section 5.6.1 Sub-Section 5.6.2.1 Section 5.9.4	Protection from Precipitation Sealing and Drainage Exterior Insulation Finish Systems
Part 9	Clause 9.25.2.2(1)(d) Sub-Section 9.25.5.2 Clause 9.27.1.1(5) Section 9.27.2 Article 9.27.3.1 Sub-Section 9.27.13 Article 9.10.14.5 & Table 9.10.14.5 (A) Article 9.10.15.5	Insulation Materials CAN/ULC S701 Position of Low Permeance Membranes General (Cladding, Application) Required Protection from Precipitation Elements of Second Plane of Protection Exterior Insulation Finish Systems >10% Unprotected Openings >0.6 m Limiting Distance

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.

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