

Durex Panelite

A Prefabricated Structural Cladding Panel System

Description Panelite System is a prefabricated over-clad structural system. It consists of prefabrication of the EIFS portion inclusive of metal reinforcement inserts that are used to fasten the system to the structure.

Uses Panelite System is intended for use for new construction and retrofit - low, medium and high rise buildings. Panelite is a panelized cladding system which is project specific designed. Its structural integrity allows for the system to be installed over a multitude of substrates and able to absorb substrate irregularities that many other claddings can not.

- Features**
- Pre-engineered Lightweight Panel Design
 - Structurally reinforced
 - Able to be installed over a multitude of substrates
 - Simplifies the covering up of substrate irregularities / imperfections
 - Geometrically Defined Drainage Cavity (GDDC)
 - Superior Thermal Performance
 - Non-combustible base coats
 - **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)**
 - **CI factor 0.70 RSI (R 4.0) per inch Mineral Fiber Insulation (Noncombustible)**

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%	
Durex Equalite Select	CAN/ULC S702	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		
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		
PANEL 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			
LAMINA:					
Impact Resistance	ASTM E2486 – Impact Resistance		Retention Physical	Retention Performance	
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 Panelite 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/
EW22CAN/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 ComplianceCCMC Technical Guide for EIFS
CAN/ULC S716.1 EIFS Materials & SystemCCMC Evaluation Report # 13103-R
Durex Panelite 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® Panelite 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 Clause 3.2.3.7(2) & Table 3.2.3.7 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 0-10% Unprotected Openings <i>(with Mineral Fiber)</i> >10% Unprotected Openings <i>(with EPS Type I & II)</i> CAN/ULC S101-15minutes – 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, (structural framing members, sheathing, 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 Technical Coatings Ltd. sales representative.

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