Durex® IBS Equalite Select

Prefabricated Curtain Wall Panel System – Non-Combustible

Description Durex® IBS Equalite Select – it is a unitized curtain wall system that integrates the performance of several wall components for providing the essential, environmental separation controls of heat / air / moisture / fire, strength, durability and aesthetics. IBS is the new trend in energy efficient exterior curtain walls. It incorporates advancements to the conventional cladding systems through a water-managed, pressure-moderated and energy efficient wall system.

Uses IBS Equalite Select is recommended for use in buildings that require to be of non-combustible construction. IBS Equalite Select lightweight and flexibility make it an ideal solution for applications in high seismic/wind zones.

Features

- Pre-engineered Lightweight Panel Design
- Totally Non-Combustible Panel System
- Pressure Moderated Rain Screen Design
- Air/Water tight Building Envelope Design
- Geometrically Defined Drainage Cavity (GDDC)
- Superior Thermal Performance
- 1 Hour Fire Rated System ULC W-489
- 2-Hour Fire Rated System ULC W-485
- ***GDDC Factor 25% (Geometrically Defined Drainage Cavity)***
- ***CI factor 0.70 RSI (R 4.0) per inch (Continuous Insulation)***

TECHNICAL DATA

SYSTEM COMPONENT	STANDARD/METHOD	RESULTS	
INSULATION:		***Thermal Resistance***	***GDDC Factor***
Durex Equalite Select Mineral Fiber	CAN/ULC S702	0.70 RSI (R 4.0) per inch	25%
WATER RESISTIVE BARRIER:			
Air / Vapour Barriers	ASTM E96 –Water Vapour Transmission	***Method A***	***Method B***
Durex Flexseal			2.9 ng/Pa.s.m²
Air Barriers	*(Refer to product specific Technical Data Sheet for more detailed data)*		
Durex Flexseal VP		629 ng/Pa.s.m²	972 ng/Pa.s.m²
Durex AirStop		185 ng/Pa.s.m²	505 ng/Pa.s.m²
INSULATION 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	
-Durex Equalite Washer NC		Encapsulated Noncombustible Metal Plate	
LAMINA:			
Impant Resistance	ASTM E2486 – Impact Resistance		
Durex Fiberglass Mesh			
(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 IBS Equalite Select Specifications for detailed selection chart for guidance on level of impact resistance required)*		

	Retention Physical	Retention Performance	
Standard	3 N.m	10 N.m	PASS
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 &	Durex Architectural Coatings
Classic Series	CCMC Report # 13103-R	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))* CAN/ULC S101 *(Fire Resistance rated Assemblies)* CAN/ULC S134 *(Compliance to NBC 3.1.5.5)*	Rated as non-combustible cladding ULC design EW21/ EW22 2 hr. FR rating ULC design W425 (Non-Load Bearing) 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) Intertek listing # DPL-WEIFS 30-01
Wind Load Resistance	ASTM E330 – sustained ASTM E330 – cyclic ASTM E330 – blow-out	-2.5 kPa for 60min. – no visible damage to any of the wall components 600 cycles alt. 0 to -2.5kPa – no visible damage to any of the wall components -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 IBS Equalite Select 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® IBS Equalite Select complies with the following building code requirements (refer to applicable building code)

Classification	Category 1 CAN/ULC S114	NON COMBUSTIBLE SYSTEM Non-Combustible Lamina Non-Combustible Insulation & Structure
Part 3	Article 3.1.5.1 Article 3.1.5.2 Article 3.2.3.7 & Table 3.2.3.7	Non-Combustible System Allowable Minor Combustible Components 0-10% Unprotected Openings
Part 4	Section 4.1 Sub-Section 4.1.3 Sub-Section 4.1.4 Sub-Section 4.17	Structural Load and Procedures Limit State Design Dead Loads Wind Loads
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 0-10% Unprotected Openings < 0.6 m Limiting Distance

Storage

Store all Durex® IBS Equalite Select 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**.

Application

Prepare and mix air barrier, primer, adhesive, base coats, and finish coats in strict accordance with Durabond's printed instructions. Apply all system materials in strict accordance with Durabond's printed instructions. Make all provisions for all expansion/control joints required in the system. Apply the air-barrier or air/vapour-barrier membrane as required in strict accordance with Durabond's printed instructions. Install the insulation and vent boards as required over the substrate with full bed of compatible insulation adhesive. Apply a layer of base coats with an embedded layer of reinforcing mesh over the insulation. Over the cured base coat apply a second layer of base coat. Prime base coat, then apply finish texture coat. Caulk all expansion/control joints in the IBS Equalite Select system. Refer to the Durex Architectural Manual for further information.

Limitations

Durex® IBS Equalite Select is not recommended for use over moisture-sensitive substrates such as gypsum board, nor in areas where temperatures are expected to exceed 80°C.

Clean-up

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

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 warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.

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.

DURABOND

HEAD OFFICE
55 Underwriters Road
Scarborough, ON M1R 3B4
T 416.759.4474 F 416.759.4470

MISSISSAUGA
6178 Netherhart Road
Mississauga, ON L5T 1B7
T 905.565.9283 F 905.565.9365

EDMONTON
14345 120th Avenue
Edmonton, AB T5L 2R8
T 780.451.6364 F 780.453.9056

INFO@DURABOND.COM **WWW.DURABOND.COM** **1.877.DURABOND (387.2266)**