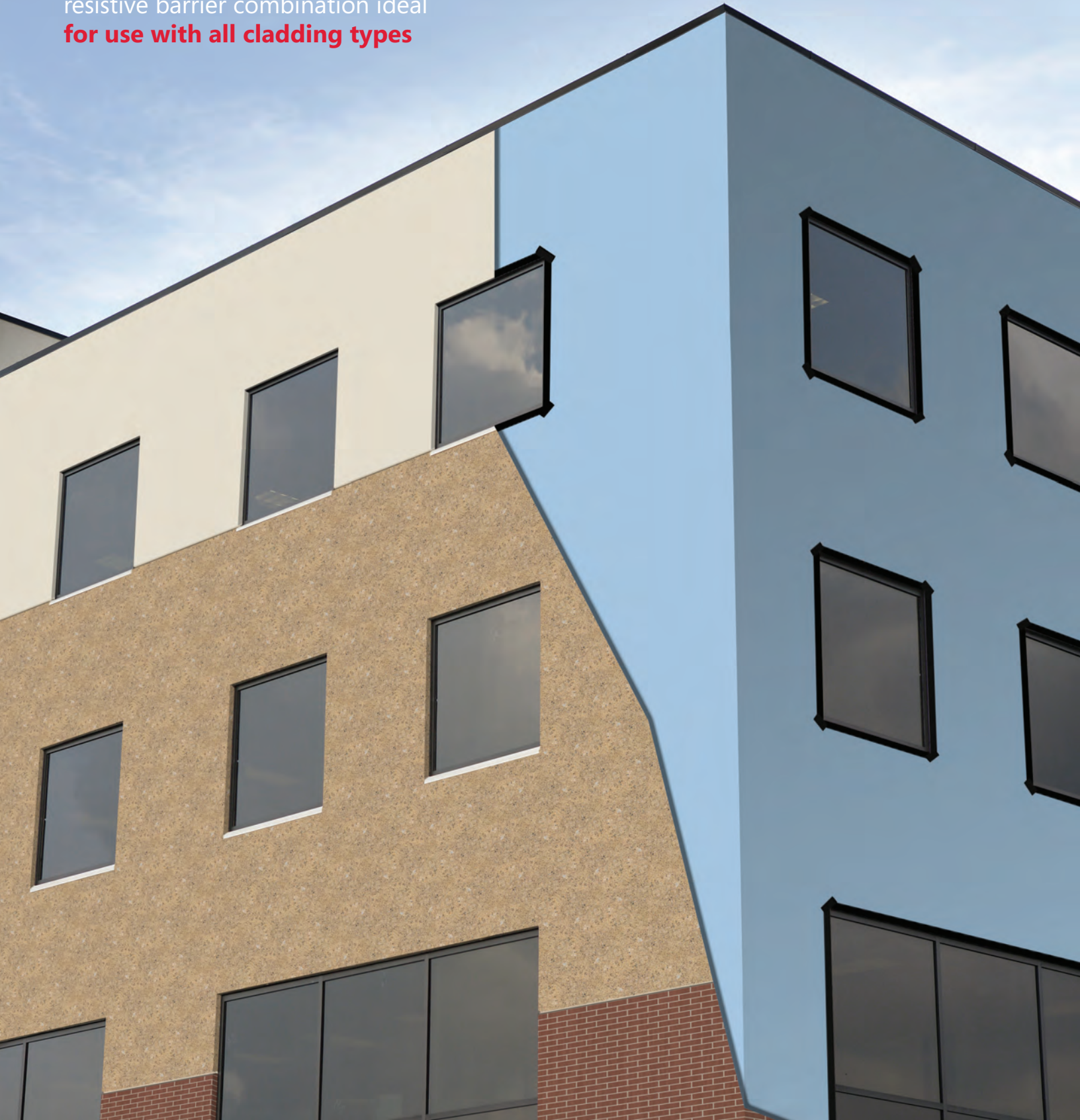


Backstop™ NT & AquaFlash®

A seamless, liquid-applied air- and water-
resistive barrier combination ideal
for use with all cladding types

dryvit® 
DRYVIT SYSTEMS CANADA



HIGH PERFORMING AND CODE COMPLIANT
PEACE OF MIND FOR ARCHITECTS

ASHRAE 189.1 - 2012

ASHRAE 90.1 - 2010

NBC
CC 2012

ASHRAE 90.1 - 2010

IBC
CB2011

ASHRAE 189.1 - 2010

ASHRAE 90.1 - 2010 IBC NFPA 285

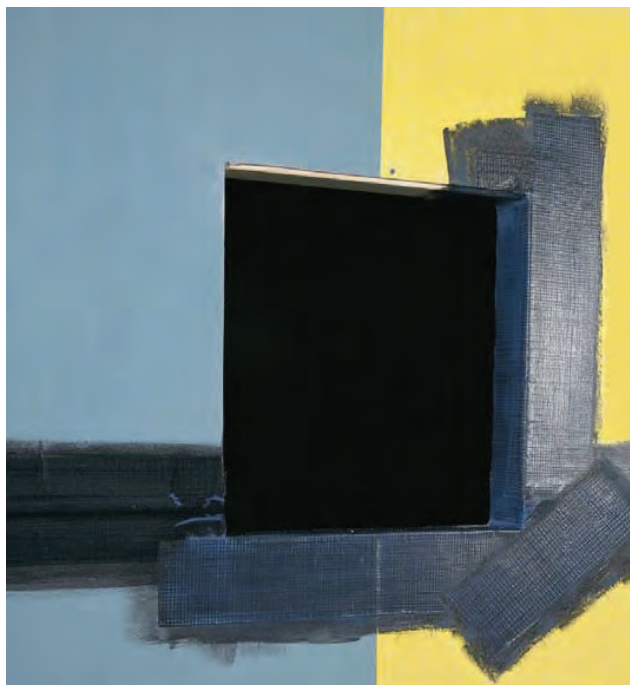
2010
NBC2012

ASHRAE 189.1 - 2012

NECB2011

THE ARCHITECT'S CHALLENGE

Whatever the aesthetic design, the exterior walls of most new buildings – commercial or residential – must include protection against both incidental moisture and air leakage. In many cases, there is also a requirement for continuous insulation (CI), and all materials in the final wall assembly must be properly integrated and meet required testing in order to be code compliant. The architect must consider all these factors when writing a specification that incorporates products having vastly different material properties and performance characteristics.



A demonstration with AquaFlash wrapping the opening and Backstop NT protecting the substrate. AquaFlash liquid is blue in colour and turns black when fully cured.

THE DRYVIT SOLUTION

Dryvit's Backstop NT and AquaFlash are the ideal air- and water-resistant barrier solution to this complex puzzle. Polymer based and liquid applied, Backstop NT protects the substrate and AquaFlash the rough wall openings, bonding chemically to act as an effective air and moisture barrier.

Proven for over 10 years on thousands of projects worldwide, Backstop NT and AquaFlash are ideal for almost all substrates and building types, and are a superior performance choice to building papers, sheet goods and 'peel and stick' type rubber membranes.



BACKSTOP NT & AQUAFLASH

ENGINEERED FOR SUPERIOR PERFORMANCE

SAVE TIME & MONEY

Backstop NT and AquaFlash have been engineered by Dryvit's R&D team to be versatile and easy to apply. This greatly assists the general contractor or builder in scheduling this work and sequencing with other trades – all of which saves time, money and hassle on the jobsite. Best of all, once fully cured, these materials can be left exposed to the elements for 30 days or more.*

* Contact Dryvit's Technical Services Department for specific details as project conditions vary and can affect exposure time.



FEATURE

BENEFIT

Backstop NT Complies with CAN/ULC-S716.1¹ requirements for water-resistive barriers (WRB)

Can be specified on virtually any project with complete confidence

Backstop NT is available in both 'vapour permeable' and 'vapour barrier' options

Ideal for all climate zones, wall types and continuous insulation (CI) configurations

Compatible with a variety of materials (see DSC455 and DSC494 for a list of acceptable substrates)

Integrates easily with transition details and diverse cladding types, helping builders to manage the construction sequence seamlessly

Single source supply for both WRB and flashing

Products bond chemically and are engineered and warranted to perform by Dryvit

Install Backstop NT and AquaFlash in either order

Saves time, aids builder with sequencing and coordinating other trades



Premixed and ready to use.

¹ CAN/ULC-S716.1 as referenced by the National Building Code as of 2015.

BACKSTOP NT TESTING¹ (FOR NT-VB TESTING REFER TO DSC829)

TEST	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25; Smoke Developed <450	Passed
Flexibility	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	No cracking at 2 mm diameter
Water Vapour Transmission	ASTM E 96 Procedure B ICC ES (AC212)*	ICC: Vapor Permeable No ANSI/EIMA Criteria	Backstop NT: 7 Perms Backstop NT-VB: 0.088 Perms
Freeze-Thaw Resistance	ASTM E 2485/ICC-ES Procedure (AC212)*	ICC: 10 cycles No deleterious effects ¹	Passed - 10 cycles: No deleterious effects ¹
Water Resistance	ASTM D 2247; ICC ES (AC212)*	ICC: 14 days exposure; No deleterious effects ²	No deleterious effects ² after 14 days exposure
Tensile Strength and Elongation	ASTM D 2370	No ICC or ANSI/EIMA Criteria	Tensile strength: 160 psi Elongation: 16.8%
Wind Driven Rain	Fed TT-C-555	No ICC or ANSI/EIMA Criteria	No water penetration
Nail Sealability	ASTM D1970	No ICC or ANSI/EIMA Criteria	Passed ABAA Criteria
Air Leakage	ASTM E 283	Satisfies NECB 2011 - 3.2.4 Air Leakage	0.01 l/sec/m ² (0.002 cfm/ft ²)
Air Permeance	ASTM E 2178	No ICC or ANSI/EIMA Criteria	0.0006 l/s/m ² @ 75Pa (1.2x10 ⁻⁴ cfm/ft ² @ 1.6psf)
Air Barrier Assembly	ASTM E 2357	No ICC or ANSI/EIMA Criteria	0.05 l/sec m ² @300 Pa (<0.001 cfm/ft ² @ 6.24 psf)
Structural Performance	ASTM E 1233 Procedure A ICC ES (AC212)*	ICC: Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing	Passed
Racking	ASTM E 72 ICC ES (AC212)*	ICC: No cracking in field, at joints or interface with flashing at net deflection of 3.2 mm (1/8 in)	Passed
Restrained Environmental	ICC-ES Procedure ICC ES (AC212)*	ICC: 5 cycles; No cracking in field; at joints or interface with flashing	Passed
Water Penetration	ASTM E 331 ICC ES (AC212)*	ICC: No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 kPa (2.86 psf)	Passed 75 minutes at 299 Pa (6.24 psf)
Tensile Bond	ASTM C 297/E 2134 (EIMA 101.03) ICC ES (AC212)*	ICC and ANSI/EIMA 99-A-2001 Minimum 104 kPa (15 psi)	Substrates: Minimum 131 kPa (19 psi) Flashing: Minimum 2970 kPa (431 psi)
Weathering UV Exposure	ICC ES Proc.; ICC ES (AC212)*	ICC: 210 hours of exposure	Passed
Accelerated Aging	ICC ES Proc.; ICC ES (AC212)*	ICC: 25 cycles of wetting and drying	Passed
Hydrostatic Pressure Test	AATCC 127; ICC ES (AC212)*	ICC: 549 mm (21.6 in) water column for 5 hours	Passed

¹ Dryvit has included Backstop NT in its registration with the Canadian Construction Materials Centre (CCMC) for the Outsulation family of systems.

Separate tests are performed to comply with Dryvit's Evaluation Report 12874-R and CAN/ULC-S716.1 – and upon request, a copy can be provided for reference.

² No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.

* AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing, also referred to as ASTM E 2570

AQUAFLASH TESTING

TEST	TEST METHOD	CRITERIA	RESULTS
Tensile Strength	ASTM D 5034; AC148 Sec. 4.1	Minimum 7.1 kg/cm (39.9 lb/in) for aged specimen	Passed
Nail Sealability	ASTM D 1970; AC148 Sec. 4.2	13 cm (5 in) water: 72 hrs at 4°C	No water penetration
Accelerated Aging Prior to Peel Adhesion/Water Resistance	AC148 Sec. 4.3.1.1.1	25 cycles: 3 hrs at 49°C, 3 hrs water immersion, 18 hrs at -40°C	No visible damage under 5x magnification
Peel Adhesion	ASTM D3330; AC148 Sec. 4.3	Peel strength of aged specimens exceeded 75% of control specimens	Passed
Water Resistance:	AATCC Method 127; AC148 Sec. 4.5	No water leakage after UV exposure and accelerated aging cycling	Passed
Ultraviolet Exposure	AC148 Sec. 4.4	210 hours of exposure	No deleterious effects when viewed under 5x magnification
Pliability	AC148 Sec. 4.6	No cracking when bent over 3mm (1/8 in) mandrel at 0° C°	Passed

Dryvit Systems Canada

129 Ringwood Drive
Stouffville, ON L4A 8C1
Tel: 800.263.3308



www.dryvit.ca | info@dryvit.ca



@DryvitCanada



ISO 9001:2008
ISO 14001:2004
Licenced Manufacturer

Information contained in this brochure conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems Canada, products as of the date of the publication of this document and is presented in good faith. Dryvit Systems Canada assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information please contact us.

DSC268 2015 © Dryvit Systems Canada