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**Report No.: 19-06-B0003-B-TC-N**

Issue Date: March 16, 2019

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**“STX – Edge System” & “STX – Edgeless System” (Thickness of 3.5, 5.6, and 7.0mm):**

At the request of Northern Facades, Exova was retained to evaluate an exterior panel system identified as the “STX Porcelain System” in accordance with AAMA 509-14 for pressure equalization behavior and water penetration resistance as outlined in Proposal number 18-006-569583.

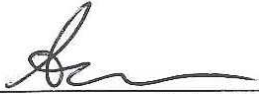
Summarized Test Results Exova Specimen No.: 19-06-B0003-1		
Test	Results	Results
Air Leakage Quantification <i>AAMA 509-14, Section 5.3 – Referencing ASTM E283-04 (2012)</i>	Test Pressure, Pa (psf): 75 (1.57) Target Air Leakage: L/s·m <sup>2</sup> (cfm/ft <sup>2</sup> ): 0.6 (0.12) ± 10%	0.62 L/s m <sup>2</sup> (0.12 CFM/ft <sup>2</sup> ) <sup>(1)</sup>
Air Leakage Measurement <i>AAMA 509-14, Section 5.7 – Referencing ASTM E283-04 (2012)</i>	Report Air Leakage across cladding joints	10.02 L/s (21.23 CFM)
		1.15 L/s m <sup>2</sup> (0.23 CFM/ft <sup>2</sup> )
Structural Performance <i>AAMA 509-14, Section 5.8.1 – Referencing ASTM E330-14</i>	Test Pressure, Pa (psf): ±2160 (45.11)	No permanent Deformation
(Re) Air Leakage Measurement <i>AAMA 509-14, Section 5.8.2 – Referencing ASTM E283-04 (2012)</i>	Report Air Leakage across cladding joints	11.40 L/s (24.16 CFM)
		1.30 L/s m <sup>2</sup> (0.26 CFM/ft <sup>2</sup> )
Water Penetration via Static Pressure <i>AAMA 509-14, Section 5.9.3 – Referencing ASTM E331-00 (2016)</i>	Test Pressure, Pa (psf): 720 (15.04)	<b>Pass</b> Less than 5% of wetted area Classification system for D&BV: V1 and W1 <sup>(2)</sup>
Dynamic Water Penetration <i>AAMA 509-14, Section 5.9.4 – Referencing AAMA 501.1-17, Dynamic Water</i>	Test Pressure, Pa (psf): 577 (12.05)	<b>Pass</b> Less than 5% of wetted area Classification system for D&BV: V1 and W1 <sup>(2)</sup>

<sup>(1)</sup> Seventy (70) 3 mm diameter holes were drilled through the Plexiglas substrate, equally spaced, 150 mm (6") above the drainage tracks. These penetrations were employed to simulate an air / water resistive barrier sheathing membrane imperfections in general accordance with AAMA 508-14, Section 5.2.2.

<sup>(2)</sup> “V” is the rate of “ventilation through cladding, and “W” for “water across cladding”. Please refer to full test report for ventilation rates and water collection information.

Note: This document is a courtesy summary of the test results that will be officially outlined in Exova Report Number: 19-06-B0003-B-N. This is not a comprehensive report. In future, please refer to these documents for detailed information pertaining to the test specimen configuration and construction details.

**Reviewed by:**



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