
**EVALUATION OF THE DURABILTIY OF MATERIALS OF
“BOREAL NATURE ELITE”**

**POLYURETHANE SPRAY FOAM MATERIAL
IN ACCORDANCE WITH CCMC TECHNICAL GUIDE MF 07 27 09.01 (ISSUE DATE 1996-
02-09, TECHNICAL UPDATE 2016-06-20) APPENDIX E4**

Report to: **Genyk**
1701 3e Avenue
Grand-Mere, QC
G9T 2W6

Attention: Mike Richmond

Telephone: +1 (226) 339-3089

Email: mikerichmond@genyk.com

Report No.: 20-06-B0040-D
3 Pages, 4 Appendicies

Proposal No.: 20-006-95292

Original Date: November 9, 2020



1.0 INTRODUCTION

At the request of Genyk, Element Materials Technology was retained to evaluate the durability performance of polyurethane spray foam material identified as "Boreal Nature Elite" in accordance with CCMC Technical Guide MF 07 27 09.01 (Issue Date: 1996-02-09, Technical Update: 2016-06-20) Appendix E4. The material was tested for the durability criteria for a foam plastic insulation, as outlined in Element Proposal No.: 20-006-95292.

The material used for testing was sample selected by an Element technical representative and prepared at the Element Toronto facility by Genyk personnel. A sample selection report can be found in Appendix A.

Upon receipt, the samples were assigned the following Element Sample Numbers:

Client Sample Description:
Boreal Nature Elite

Element Specimen No.:
20-06-B0040-D

2.0 PROCEDURE

The sample was evaluated for the following tests referenced in CCMC TG 07 27 09.01:

Test Description	Test Method
Technical Guide for Air Barrier Systems (ABS) for Exterior Walls of Buildings	CCMC TG 07 27 09.01 (Issue Date: 1996-02-09, Technical Update: 2016-06-20)
Standard Test Method for Air Permeance of Building Materials	ASTM E2178-13
Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	ASTM C518-17

The material used for testing was conditioned for 90 days using conditions as per CAN/CGSB-51.26-M86, Sections 7.2, 7.3.1, and 7.3.2. The material was sprayed on 16 mm HDPE boards and conditioned at $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ RH for 90 days as a whole board. The material was cut into the test specimens (12"x12") immediately before testing. The thermal transmission property and air permeance testing was conducted in triplicate. The thermal transmission property specimens had the top skin removed and cut to a nominal thickness of 1". This allowed for sufficient contact to the heat flow meter apparatus. The air permeance specimens had both skins intact and tested as-sprayed thickness (2" – nominal).

Weathering is performed according to CAN/CGSB-37GP-56M (Par. 7.2.11) modified by using 360 cycles of 2 hours (1 hour irradiation followed by 1 hour of rain cycle). The air permeance testing was modified using ASTM E2178, with reference to NRC/Building Research Note No. 227. Following the weathering cycles, the specimens were heat aged in an air circulation oven operated at $70 \pm 2^\circ\text{C}$ for 336 hours for a non-accessible air barrier system (ABS).

3.0 RESULTS

A summary of test results for air permeance and thermal transmission properties is shown in Table 1. Detailed test results and procedures are outlined in the corresponding appendices. SI units are the primary units of measure.

Table 1: Summary of Physical Properties CCMC TG 07 27 09.01 – 'Boreal Nature Elite' Element Sample No.: 20-06-B0040-D			
Physical Property	Requirements	Results	Comments
Thermal Resistance of Conditioned Boards, m²•K/W (BTU•in/h•ft²•°F) Average thickness, 25.02 mm (0.99")	Report Value	1.10 (6.26)	See Appendix B for details.
Thermal Resistance after Heat Aging of Weathered Samples, m²•K/W Average thickness, 26.64 mm (1.05")	≥ 90% Retention	1.00 (5.65)	91% Retention Meets requirements. See Appendix B for details.
Air Permeance of Conditioned Boards at 75 Pa, L/(s•m²)	Report Value	0.0027	See Appendix C for details.
Air Permeance after Heat Aging of Weathered Samples at 75 Pa, L/(s•m²)	≤ 110% of original value	0.0029	107% of Original Value. Meets requirements See Appendix C for details.

Note: Weathering exposure procedure and test details can be found in Appendix D.

4.0 CONCLUSION

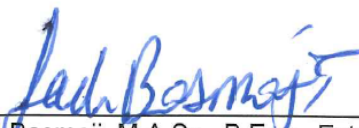
The material submitted by Genyk, identified as "Boreal Nature Elite", was tested in accordance with CCMC TG 0 27 09.01 for 'Durability of Materials – Appendix E4', as described in this report. The material conforms to the requirements outlined in Table E4 of CCMC TG 0 27 09.01.

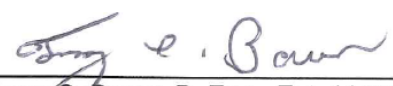
5.0 REPORT REVISION SUMMARY

Revision No: N/A	Date: November 9, 2020	Description of Revisions: Original Document
----------------------------	----------------------------------	-------------------------------------------------------

Reported and Authorized by:

Reviewed by:


 Fadi G. Basmaji, M.A.Sc., B.Eng., Ext. 11227
 Building Science Specialist
 Building Science Division


 Franz C. Bauer, B. Eng., Ext. 11403
 Technical Manager
 Products Testing Group

APPENDIX A

Drum Witnessing Report for Material Used.

Report Number: 20-06-B0040-SS (5 Pages)



2395 Speakman Dr.
Mississauga, ON
Canada L5K 1B3

P: 1 905 822 4111
F: 1 905 823 1446
info.toronto.industrials@element.com
element.com

Sample Selection Report

Genyk
1701 3e Avenue
Grand-Mere, QC
G9T 2W6

Report No.: 20-06-B0040-SS
Date: 2020-02-20
Proposal No.: 20-006-95292

Attn: Mike Richmond

At the request of Genyk, an Element representative witnessed the selection of chemical drums at the Genyk facility located in Cambridge, ON on February 20, 2020. Three sets of Resin and ISO were randomly selected from available inventory.


Details of the selection are provided below.

Sample Details

Sample 1 – Detailed Information - ISO Element Sample No.: 20-06-B0040-ISO	
Client Sample Name	ISO A-2732
Number of Drums Witnessed	3
Lot #	0319017301 Manufactured Date: 10/10/2019 Expiry Day: 10/10/2020
Type of Material	ISO –Part A
Dimensions	227 kg each drum
Date of Witness	2020-02-20
Markings	'Element' Signature of Element Representative Date (Picture on page 3)

Sample 2 – Detailed Information - Resin Element Sample No.: 20-06-B0040-Resin	
Client Sample Name	Boreal Nature Elite - Winter
Manufacturing Date	2020-01-20 2020-07-20
Number of Drums Witnessed	3
Lot #	L-20023
Type of Material	Resin
Dimensions	243.5 kg each drum
Markings	'Element' Signature of Element Representative Date (Picture on page 4)

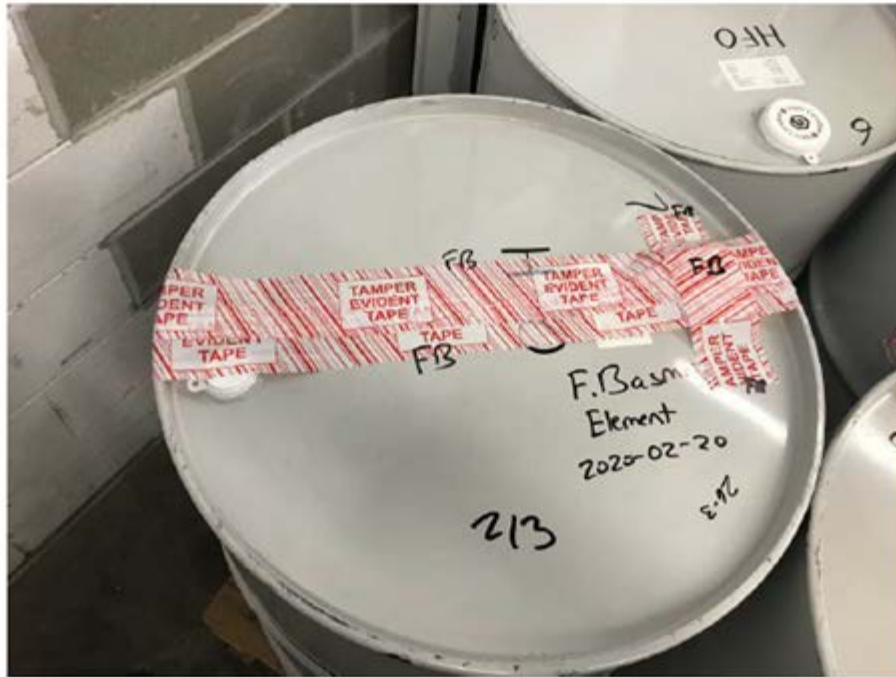
Element Witness

Witnessing Information	
Location of Selection	Genyk 101 Sheldon Dr., Unit 3 Cambridge, ON N1R 6T6
Element Technical Representative	Fadi Basmaji Building Systems Specialist Building Science Division
Element Signature	



Photos:







APPENDIX B

Thermal Transmission Properties Detailed Procedure and Test Results.

(2 Pages)

B THERMAL TRANSMISSION PROPERTIES

PROCEDURE

Specimen Dimensions:	305 mm x 305 mm x 25 mm (<i>nominal</i>)	
No. of Specimens:	Three (3)	
Equipment:	LaserComp FOX314 Heat Flow Meter, MII# A14505 LaserComp FOX314 Heat Flow Meter, MII# B13096	
Measurement:	Mitutoyo Digital Calipers, MII# B10644 Digital Balance, MII# B17286 Circulating Oven, MII# A14218 Thermocouple, MII# B13216 Agilent Data Logger, MII# B11586 Environmental Controller, MII# B14944	
Pre-Conditioning:	90 days at $23 \pm 2^{\circ}\text{C}$; $50 \pm 5\%$ RH	
Conditioning Dates:	2020-05-12 to 2020-08-13	
Heat Aging:	$70 \pm 2^{\circ}\text{C}$, ambient RH for 336 hours	
Heat Aging Dates:	2020-09-15 to 2020-09-29	
Test Conditions:	Mean Temperature 24.00°C $\Delta T = 22^{\circ}\text{C}$	
Test Date:	2020-08-13 for Initial Condition Samples (90 day conditioning) 2020-10-13 for Heat Aged of Weathered Samples	

RESULTS

A summary of average thermal transmission test results are presented in Tables B1 and B2, for the initial and heat aged of weathered samples, respectively. SI units are the primary unit of measure.

Table B1 – Thermal Transmission Properties (average of 3 specimens)				
Applicable Standard: ASTM C518				
Element Sample No.: 20-06-B0040-D-Initial				
Description	Results			
	Value	SI Units	Value	Imperial Units
Measured Length	299.70	mm	11.80	in
Measured Width	298.57	mm	11.75	in
Test Thickness	25.02	mm	0.99	in
Measured Mass	77.34	g	0.17	lb
Density	34.55	kg/m ³	2.16	lb/ft ³
Upper Surface Temperature	13.02	°C	55.44	°F
Lower Surface Temperature	35.02	°C	95.04	°F
Temperature Differential	22.00	°C	39.60	°F
Mean Temperature	24.02	°C	75.24	°F
Rate of Heat Flux	19.96	W/m ²	6.33	BTU/h·ft ²
Thermal Conductance	0.91	W/m ² ·K	0.16	BTU/h·ft ² ·°F
Thermal Resistance	1.10	K·m ² /W	6.26	°F·ft ² ·h/BTU
Thermal Conductivity	0.02270	W/m·K	0.157	BTU·in/h·ft ² ·°F
Thermal Resistivity	44.06	K·m/W	6.35	°F·ft ² ·h/BTU·in

Table B2 – Thermal Transmission Properties (average of 3 specimens)				
Applicable Standard: ASTM C518				
Element Sample No.: 20-06-B0040-D-Heat Aged and Weathered				
Description	Results			
	Value	SI Units	Value	Imperial Units
Measured Length	299.70	mm	11.80	in
Measured Width	298.57	mm	11.75	in
Test Thickness	26.64 ¹	mm	1.05	in
Measured Mass	77.34	g	0.17	lb
Density	32.45	kg/m ³	2.03	lb/ft ³
Upper Surface Temperature	13.02	°C	55.44	°F
Lower Surface Temperature	35.02	°C	95.04	°F
Temperature Differential	22.00	°C	39.60	°F
Mean Temperature	24.02	°C	75.24	°F
Rate of Heat Flux	22.11	W/m ²	7.01	BTU/h·ft ²
Thermal Conductance	1.01	W/m ² ·K	0.18	BTU/h·ft ² ·°F
Thermal Resistance	1.00	K·m ² /W	5.65	°F·ft ² ·h/BTU
Thermal Conductivity	0.02678	W/m·K	0.186	BTU·in/h·ft ² ·°F
Thermal Resistivity	37.35	K·m/W	5.39	°F·ft ² ·h/BTU·in

¹ Thickness of the specimens swelled due to removal of both skins for contact in HFM. Specimens were exposed to a rain cycle during Xenon weathering.

APPENDIX C

Air Permeance Properties Detailed Procedure and Test Results.

(3 Pages)

C AIR PERMEANCE

PROCEDURE

Test Frame:	305 mm x 305 mm (<i>nominal</i>) - stainless steel tray	
Test Area:	0.0645 m ²	
No. of Specimens:	Three (3)	
Sealant:	Type 1 Mono Silicone (100% Silicone) 60% microcrystalline wax; 40% refined crystalline paraffin wax	
Equipment:	Mass Flow Meter, Manometer, Digital Calipers, Multimeter, Conditioning Room,	MII# A09200 MII# B12064 MII# B10963 MII# B05011 MII# B14944
Thickness:	49.19 mm (1.94") – <i>average of 3 specimens</i>	
Pre-Conditioning:	90 days at 23 ± 2°C; 50 ± 5% RH	
Conditioning Dates:	2020-05-12 to 2020-08-13	
Heat Aging:	70 ± 2°C, ambient RH for 336 hours	
Heat Aging Dates:	2020-09-15 to 2020-09-29	

The initial air leakage rate was measured by exhausting the air within the test chamber at a rate required to maintain the following incremental test pressure differentials of 25, 50, 75, 100, 150, and 300 Pa (0.52, 1.04, 1.57, 2.09, 3.13, and 6.27 psf), followed by decremental pressure differentials of 100, 75 and 50 Pa (2.09, 1.57, and 1.04 psf). Simultaneously, the test specimen was monitored for any physical changes

RESULTS

A summary of as-received (90 day conditioning) and conditioned air permeance test results can be found in Table B1. The corresponding calculated flow vs differential pressure graphs can be found in Figure B1 and B2, respectively. SI units are the primary unit of measure.

Table B1 – Air Permeance Averages in Accordance with CCMC TG 07 27 09.01 – Appendix E4 Average of Element Sample Numbers: 20-06-B0040-D-AP1 to AP3				
Differential Pressure	Unconditioned (Prior to UV & Heat Exposure)	Conditioned (Post UV & Heat Exposure)	Requirement	Comments
	Calculated Air Flow (Infiltration)	Calculated Air Flow (Infiltration)		
Pa	(L/s·m ²)	(L/s·m ²)		
25	0.0013	0.0015	Conditioned (Post UV & Heat Exposure): Specimen shall not increase by more than 110% of original value	107% increase. Post UV & Heat Exposure Meet Requirements.
50	0.0020	0.0023		
75	0.0026	0.0029		
100	0.0031	0.0035		
150	0.0041	0.0045		
300	0.0065	0.0070		
100	0.0034	0.0036		
75	0.0027	0.0029		
50	0.0019	0.0022		

Average Sample Thickness: 49.19 mm (1.94")

*Meets the post UV and heat aging exposure air permeance requirements outlined in Table E4 of CCMC TG 07 27 09.01 for ABS Durability Criteria for Foam Plastic Insulation.

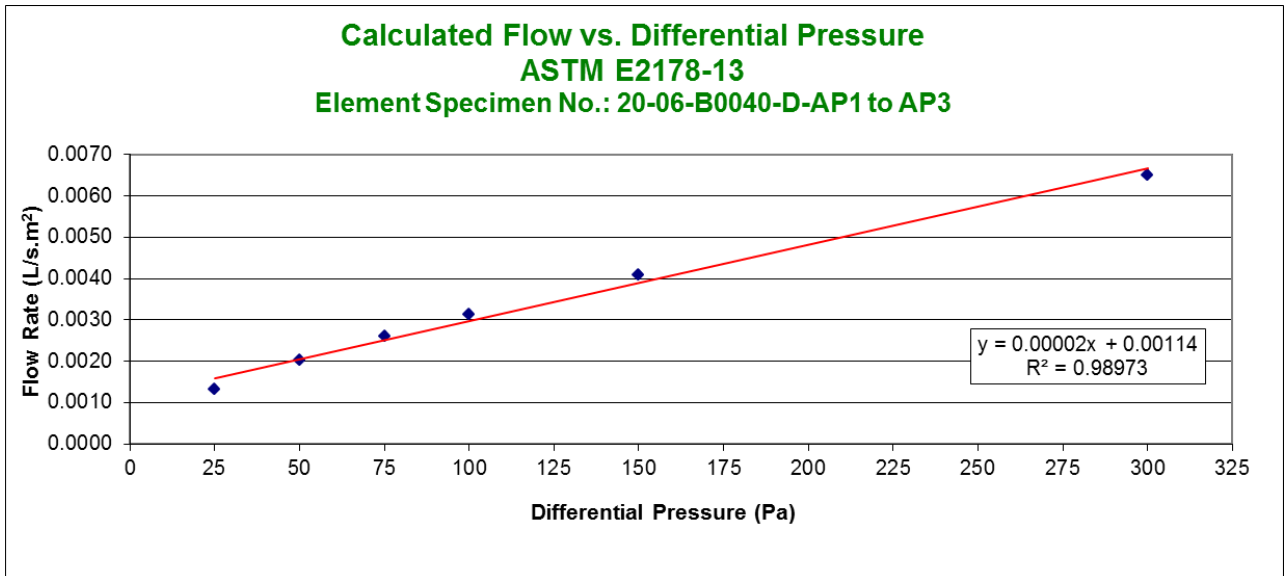


Figure B1 - Average Calculated Flow vs. Differential Pressure for Infiltration, Prior to UV Exposure
Prior to UV + Heat Exposure

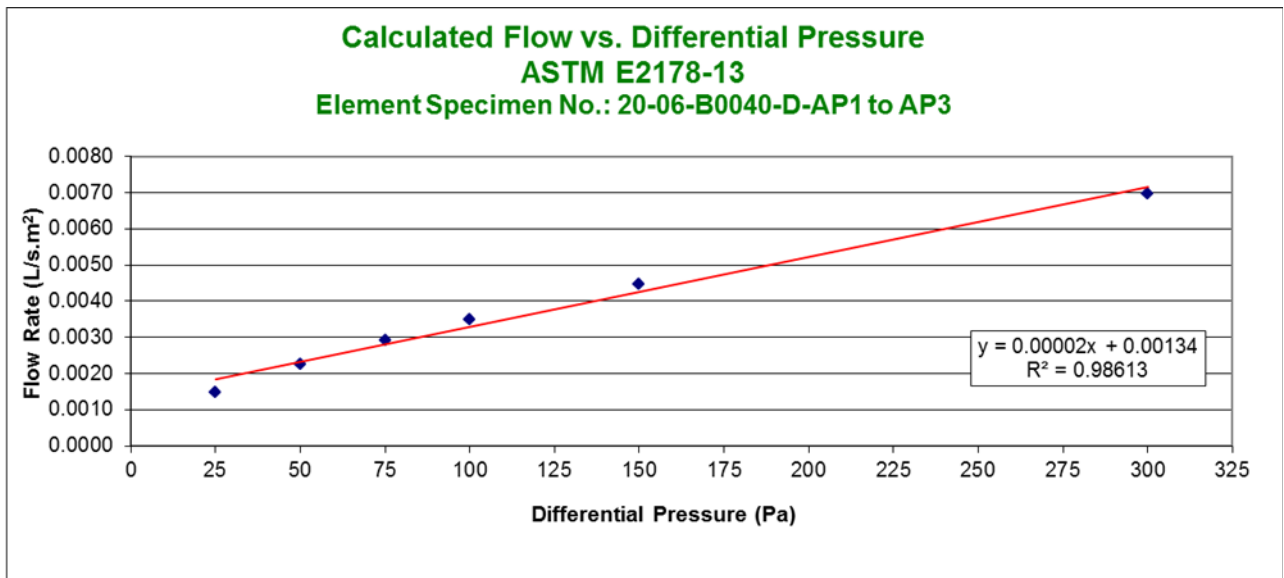


Figure B2 - Average Calculated Flow vs. Differential Pressure for Infiltration, Post UV Exposure
Post UV + Heat Exposure

APPENDIX D

Accelerated Weathering Detailed Procedure and Test Results.

Element Report No.: 20-06-B0040-W1

(15 Pages)



2395 Speakman Dr.
Mississauga, ON
Canada L5K 1B3

P: 1 905 822 4111
F: 1 905 823 1446
info.toronto.industrials@element.com
element.com

**ACCELERATED WEATHERING EXPOSURE EVALUATION OF
"BOREAL NATURE ELITE" SPRAY POLYURETHANE FOAM INSULATION
FOR GENYK**

Report to: Genyk
1701 3e Avenue
Grand-Mere, Quebec
G9T 2W6

Attention: Mike Richmond

Telephone: 226-339-3089

Email: mikerichmond@genyk.com

Report No. 20-06-B0040-W1
6 Pages, 3 Appendices

Proposal No. 20-006-95292

Date: September 18, 2020

1.0 INTRODUCTION

At the request of Genyk, Element Toronto was retained to perform accelerated weathering performance evaluation on various spray polyurethane foam insulation specimens identified as "Boreal Nature Elite" in accordance with CCMC 07 27 09.01 Table E2 Notes referencing CGSB 37 GP 56M Section 7.2.11. Element is an ISO 17025 accredited laboratory through IAS in which the aforementioned test method is included.

Upon receipt, the provided specimens were assigned the following Element Identification Numbers:

Client Identification	Element ID No.	Comments
Boreal Nature Elite Spray Polyurethane Foam Insulation	20-06-E0040-D1	12" x 12" x 1 " SPF Insulation - Skin Off
	20-06-E0040-D2	12" x 12" x 1 " SPF Insulation - Skin Off
	20-06-E0040-D3	12" x 12" x 1 " SPF Insulation - Skin Off
	20-06-E0040-D4	12" x 12" x 1 " SPF Insulation - Skin Off
	20-06-E0040-D5	12" x 12" x 1.5 " SPF Insulation - Skin On
	20-06-E0040-D6	12" x 12" x 1.5 " SPF Insulation - Skin On
	20-06-E0040-D7	12" x 12" x 1.5 " SPF Insulation - Skin On

2.0 TEST SPECIFICATIONS

Test Method: ASTM G155-13 Cycle 1
 Test Chamber: Atlas Ci5000
 Lamp Types: 12000 W Xenon Arc
 Irradiance Measurement Point: 340 nm
 Inner Optical Filter: Borosilicate
 Outer Optical Filter: Borosilicate
 Thermometer Type: Uninsulated Black Panel Sensor
 Total Exposure Duration: 720 Hours (360 Cycles)
 Start Date: 2020-08-14
 Completion Date: 2020-09-14

Sequence No. 1

Black Panel Temperature: 63 ± 3°C
 Irradiance: 0.35 ± 0.02 W/m² at 340 nm
 Chamber Temperature: Uncontrolled
 Chamber Humidity: 50 ± 10 %RH
 Sequence Duration: 60 minutes
 Specimen Spray: Off
 Rack Spray: Off

Sequence No. 2

Black Panel Temperature: Uncontrolled
 Irradiance: 0.35 ± 0.02 W/m² at 340 nm
 Chamber Temperature: Uncontrolled
 Chamber Humidity: Uncontrolled
 Sequence Duration: 60 minutes
 Specimen Spray: On
 Rack Spray: Off

3.0 PROCEDURE

Following an initial irradiance of the xenon-arc lamp, the test specimens were individually positioned in the test chamber parallel to the Xenon-Arc lamp as displayed in below Figure No. 1 and subsequently exposed to the cyclic environmental conditions described in Section No. 2.0 for a period of 720 hours. Upon completion, the specimens were removed from conditioning and visually inspected for evidence of discolouration, warping, flaking, cracking, and/or other deleterious effects of the exposed surfaces.

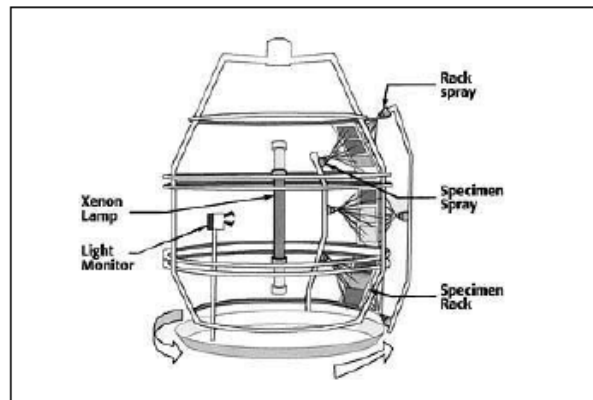


Figure No. 1 – Xenon Arc Apparatus

4.0 EQUIPMENT

Table No. 1 – Utilized Test Equipment Element Report No.: 20-06-E0040-W1			
Device	Element MII	Cal. Date	Cal. Due Date
Atlas Ci5000 Xenon-Arc Weatherometer	A15317	2019-09-18	2020-09-18
Calibration Xenon Reference Lamp	B08687	2018-07-25	2018-09-25

5.0 RESULTS

At the conclusion of the test program, each specimens was removed from visually examined for evidence of degradation as summarized in Table No. 2 below.

Table No. 2 – Post Exposure Observations Boreal Nature Elite Spray Polyurethane Foam Insulation - Skin Off Element Report No.: 20-06-E0040-W1				
Element ID No.	Discolouration	Warping	Flaking	Cracking
20-06-B0040-D-1	S	L	M	N
20-06-B0040-D-2	S	L	M	N
20-06-B0040-D-3	S	L	M	N
20-06-B0040-D-4	S	L	M	N

Note: N = None, F = Faint, L = Light, M = Moderate, S = Severe, N/A = Not Applicable



Table No. 2 (continued) – Post Exposure Observations Boreal Nature Elite Spray Polyurethane Foam Insulation - Skin On Element Report No.: 20-06-E0040-W1				
Element ID No.	Discolouration	Warping	Flaking	Cracking
20-06-B0040-D-5	S	N	L	N
20-06-B0040-D-6	S	N	L	N
20-06-B0040-D-6	S	N	L	N

Note: N = None, F = Faint, L = Light, M = Moderate, S = Severe, N/A = Not Applicable

6.0 CONCLUSION

At the conclusion of the test program, the specimens were returned to Element Building Systems for further evaluation.

7.0 REVISION HISTORY

<u>Revision No</u>	<u>Date</u>	<u>Description of Revisions:</u>
Original	2020-09-18	Original Document

Reported by:

Alexander Jackson, MET
Project Manager – Energy Systems
Accelerated Weathering & Environmental Durability

Reviewed by:

Steven Huynh, P.Eng.
Technical Manager – Energy Systems
Product Technologies Group

This report and service are covered under Element Materials Technology Canada Inc. Standard Terms and Conditions of Contract which may be found on our company's website www.Element.com, or by calling 1-866-263-9268



Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A
Report No. 20-06-E0040-W1



**Appendix A
Specimen Photographs
(7 Pages)**

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 1 of 7
Report No. 20-06-E0040-W1



Figure A1 – Element Specimen 20-06-B0040-D-1– Pre Exposure



Figure A2 – Element Specimen 20-06-B0040-D-1– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 2 of 7
Report No. 20-06-E0040-W1

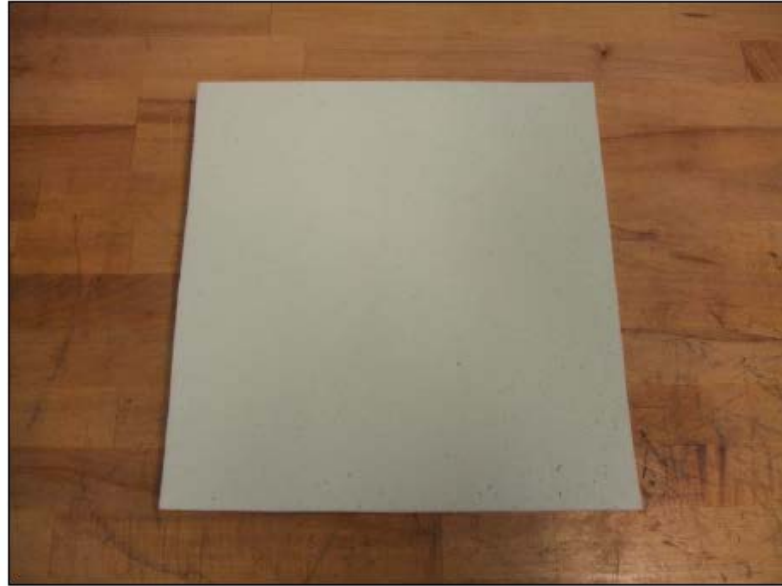


Figure A3 – Element Specimen 20-06-B0040-D-2– Pre Exposure



Figure A4 – Element Specimen 20-06-B0040-D-2– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 3 of 7
Report No. 20-06-E0040-W1



Figure A5 – Element Specimen 20-06-B0040-D-3– Pre Exposure



Figure A6 – Element Specimen 20-06-B0040-D-3– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 4 of 7
Report No. 20-06-E0040-W1

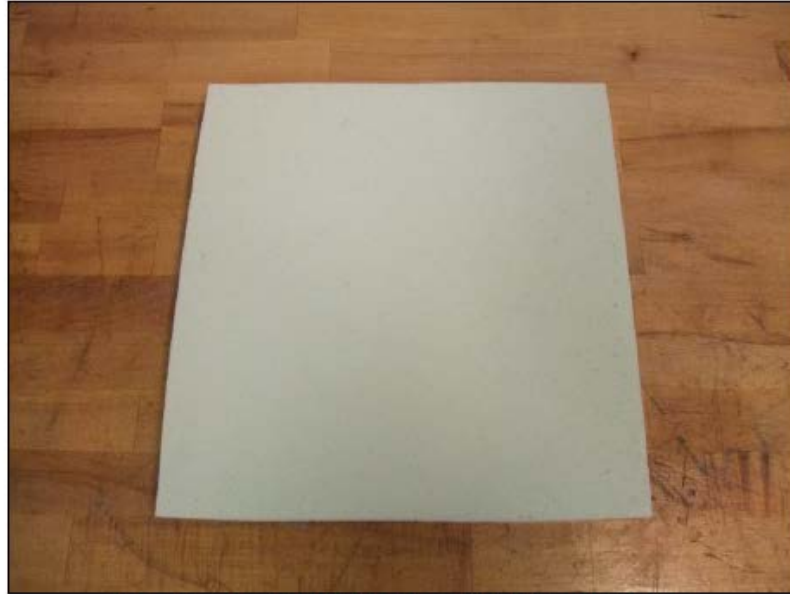


Figure A7 – Element Specimen 20-06-B0040-D-4– Pre Exposure



Figure A8 – Element Specimen 20-06-B0040-D-4– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 5 of 7
Report No. 20-06-E0040-W1



Figure A9 – Element Specimen 20-06-B0040-D-5– Pre Exposure

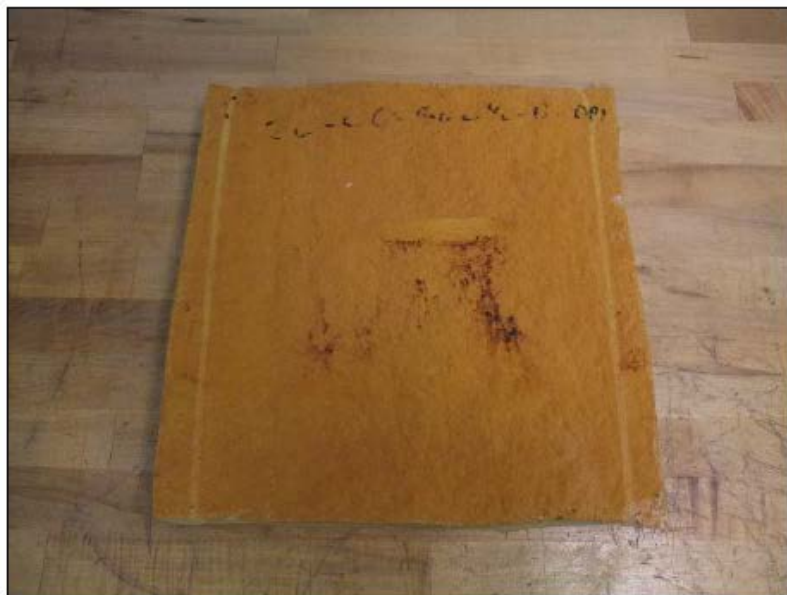


Figure A10 – Element Specimen 20-06-B0040-D-5– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 6 of 7
Report No. 20-06-E0040-W1

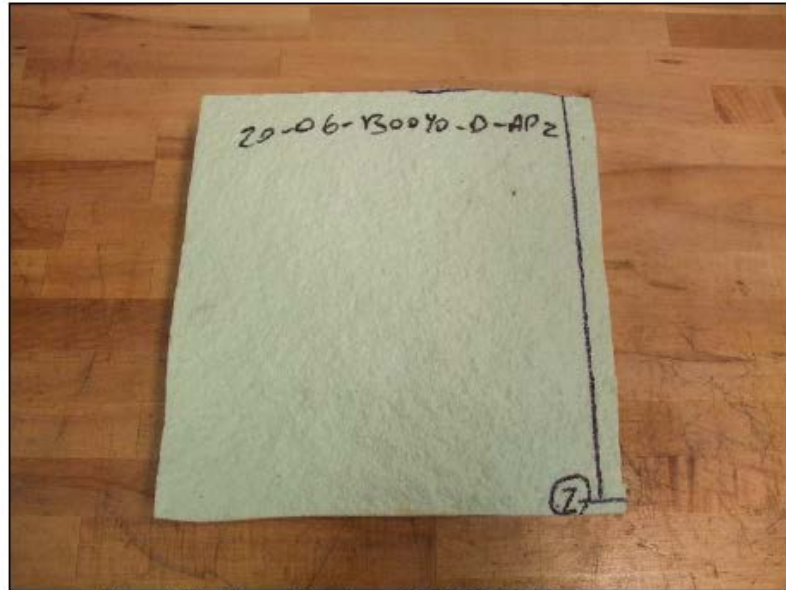


Figure A11 – Element Specimen 20-06-B0040-D-6– Pre Exposure

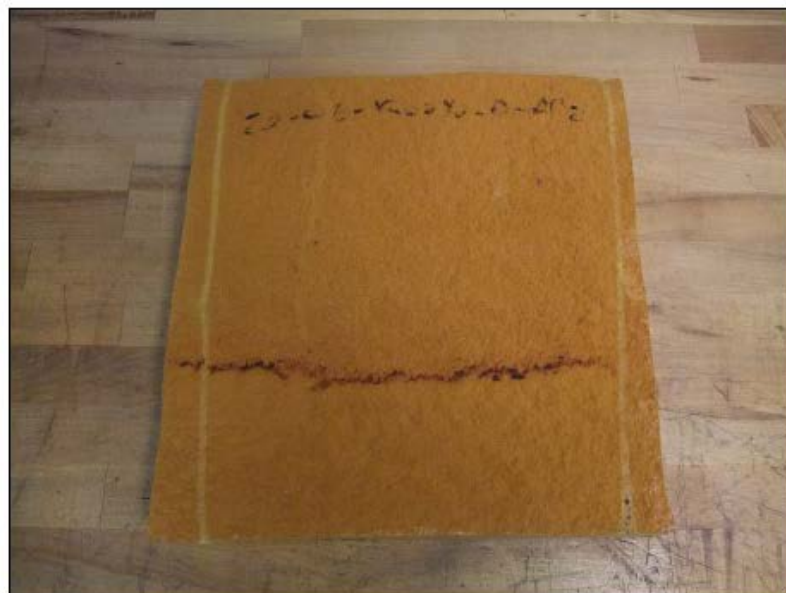


Figure A12 – Element Specimen 20-06-B0040-D-6– 720 Hours Exposure

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix A, Page 7 of 7
Report No. 20-06-E0040-W1

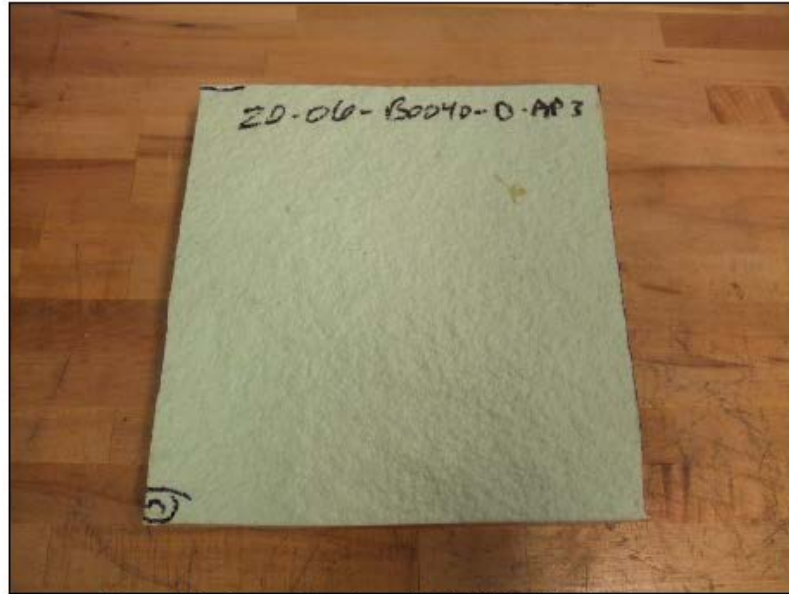


Figure A13 – Element Specimen 20-06-B0040-D-7– Pre Exposure



Figure A14 – Element Specimen 20-06-B0040-D-7– 720 Hours Exposure



Accelerated Weathering Exposure Evaluation
for Genyk

Appendix B
Report No. 20-06-E0040-W1



Appendix B
Xenon-Arc Daily Chamber Conditions
(2 Pages)

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix B, Page 1 of 2
Report No. 20-06-E0040-W1



Table No. B1 – Daily Chamber Measurements CCMC TG 07 27 09.01 Table E2 Notes Element Report No.: 20-06-E0040-W1					
Date	Chamber Hours	Irradiance (W/m ²)	Black Panel (°C)	Dry Bulb (°C)	Humidity (%RH)
2020-08-14	80004.0	Start Exposure, Irradiance Calibration			
2020-08-14	80005.3	0.34	42.1	47	68.2
2020-08-15	Weekend				
2020-08-16	Weekend				
2020-08-17	80072.2	0.34	61.5	44.1	51.3
2020-08-17	80080.3	0.34	62.3	44.2	53.4
2020-08-18	80091.1	0.35	43.9	46.9	64.3
2020-08-18	80097.3	0.35	42.4	46.8	61.9
2020-08-19	80116.1	0.35	50.1	47.0	50.9
2020-08-19	80123.9	0.34	50.3	46.9	66.4
2020-08-20	80139.4	0.34	44.0	47.0	62.1
2020-08-20	80146.6	0.34	62.5	45.1	70.3
2020-08-21	80163.7	0.34	49.6	46.8	63.1
2020-08-21	80169.9	0.35	48.3	47.0	62.3
2020-08-22	Weekend				
2020-08-23	Weekend				
2020-08-24	80236.4	0.34	63.1	46.8	50.8
2020-08-24	80242.5	0.34	62.8	46.9	50.8
2020-08-25	80259.4	0.34	50.7	47.0	56.4
2020-08-25	80266.5	0.34	62.9	46.7	54.3
2020-08-26	80284.5	0.34	62.3	46.8	49.1
2020-08-26	80290.3	0.34	64.6	50.2	57.6
2020-08-27	80308.1	0.34	62.5	46.6	54.2
2020-08-27	80314.8	0.34	63.4	47.2	49.5
2020-08-28	80331.5	0.34	47.2	48.0	58.2
2020-08-28	80337.8	0.34	50.2	47.0	58.8
2020-08-29	Weekend				
2020-08-30	Weekend				
2020-08-31	80404.0	Replace Inner Filter			
2020-08-31	80408.8	0.25	62.8	47.1	49.1
2020-09-01	80426.2	0.34	50.3	46.9	66.0
2020-09-01	80432.9	0.34	63.3	47.1	49.0

Accelerated Weathering Exposure Evaluation
for Genyk

Appendix B, Page 2 of 2
Report No. 20-06-E0040-W1



Table No. B1 (continued) – Daily Chamber Measurements CCMC TG 07 27 09.01 Table E2 Notes Element Report No.: 20-06-E0040-W1					
Date	Chamber Hours	Irradiance (W/m ²)	Black Panel (°C)	Dry Bulb (°C)	Wet Bulb Depression (°C)
2020-09-02	80450.2	0.35	51.1	47.1	64.3
2020-09-02	80456.8	0.35	63.9	48.1	62.1
2020-09-03	80474.2	0.34	44.6	47.1	69.1
2020-09-03	80481.8	0.34	51.3	46.9	61.2
2020-09-04	80499.1	0.34	63.2	47.2	55.2
2020-09-04	80504.2	0.34	50.5	47.1	65.8
2020-09-05	Weekend				
2020-09-06					
2020-09-07					
2020-09-08	80593.8	0.35	44.7	46.8	65.9
2020-09-08	80600.2	0.35	44.8	47.0	63.4
2020-09-09	80619.1	0.34	62.4	43.1	69.1
2020-09-09	80625.1	0.34	61.1	42.7	71.5
2020-09-10	80643.6	0.34	47.8	46.8	63.5
2020-09-10	80648.3	0.35	44.9	46.9	67.0
2020-09-11	80666.1	0.35	43.8	47.1	66.1
2020-09-11	80673.2	0.35	62.8	47.2	51.0
2020-09-12	Weekend				
2020-09-13					
2020-09-14	80724.4	720 Hours Exposure Complete			