TEST REPORT

REPORT NUMBER: 100397303SAT-002
ORIGINAL ISSUE DATE: April 28, 2011
REVISED DATE: N/A

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RENDERED TO

CANADIAN HOME BUILDERS ASSOCIATION
EDMONTON REGION
150 SUMMERSIDE GATE SW
EDMONTON AB T6X 0P5

PRODUCT EVALUATED: Exterior Wall Assemblies with Wood Framed Windows
EVALUATION PROPERTY: Heat Flux through Target Wall Windows

Report of Testing Exterior Wall Assemblies with Wood Framed Windows for compliance with the applicable requirements of the following criteria: Client Specified Test Procedure

1 Table of Contents

2 Introduction

Intertek Testing Services NA (Intertek) has conducted testing for Canadian Home Builders Association, on exterior wall construction with wood framed windows, to evaluate the heat flux exposure through windows from a neighboring building. Testing was conducted in accordance with the client supplied test procedure adapted from *NRC-CNRC Full-Scale Fire Study of Spatial Separation,* Research Report: IRC-RR-195, Dated May 19, 2005. This evaluation began April 20, 2011 and was completed April 22, 2011.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on April 19, 2011.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample wall assemblies were provided pre-manufactured by the client. Each wall assembly was provided in three parts and was assembled onsite by Intertek personnel. Each test consisted of an exposing wall and a target wall. A full description of the wall construction can be found in Appendix A. A brief description of the differences in the walls can be found in the chart below:

	Wall	Wall Opening	Stud Cavity Insulation
Test A	Exposing Wall	48” x 40” wood framed window	R-20 Fiberglass insulation
	Target Wall	Two (2) 48” x 40” wood framed window	R-20 Fiberglass insulation
Test B	Exposing Wall	48” x 40” wood framed window	R-20 Fiberglass insulation
	Target Wall	Same Target Wall as Test A (New windows installed)	Same Target Wall as Test A
Test C	Exposing Wall	60” x 24” (No glass in opening)	R-20 Fiberglass insulation
	Target Wall	Same Target Wall as Test A (New windows installed)	Same Target Wall as Test A
Test D	Exposing Wall	48” x 40” wood framed window	Nominal 2 pcf Polyurethane Spray Foam
	Target Wall	Two (2) 48” x 40” wood framed window	Nominal 2 pcf Polyurethane Spray Foam

In each test, the walls were spaced with 8’ of separation.

4 Testing and Evaluation Methods

4.1. INSTRUMENTATION

The fire compartment room was instrumented with four (4) thermocouples located at the center of the room spaced as seen in Appendix B. Each wall was instrumented with a total of ten (10) thermocouples as illustrated in Appendix C. The target Wall was instrumented with an additional two (2) thermocouples located behind each of the windows.

The target wall was also instrumented with five (5) Gardon Gauges to measure heat flux. One (1) Gardon gauge was placed at the horizontal center of the wall, 112" from the bottom of the target wall, flush with the exposed surface of the wall. Each window pane in the target wall was instrumented with a Gardon gauge centered in the window pane on the unexposed side of the window flush with the unexposed surface of the wall (5-1/2" from window pane without screen, 6" from window pane with screen).

4.2. TEST STANDARD

The testing was performed to the specifications provided by the client and intended to replicate the testing described in the referenced test report, *NRC-CNRC Full-Scale Fire Study of Spatial Separation,* Research Report: IRC-RR-195, Dated May 19, 2005 with the modifications described in this document. Details of the test setup can be found in Appendix A. Details of instrumentation can be found in Appendix B and Appendix C.

Each test consisted of an exposing wall and a target wall as described in Section 3 and Appendix A of this document. The exposing wall was integrated with a fire compartment room. The fire compartment room dimensions can be found in Appendix B. For each test a fuel load consisting of 100 kg of 2 x 4 SPF lumber was cut and arranged in the form of two (2) cribs. An additional fuel load of 50 kg of ABS pipe was also cut and arranged as cribs on top of the two lumber cribs. The cribs were centered in the fire compartment room. Two (2) small steel pans filled with a total of 600 ml of alcohol were used as an accelerant.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS TEST A

The test was initiated on April 20, 2011. Mark Turner, representing Landmark Group, and Brian Kobialka representing All Weather Windows, were present to witness the test. The test was initiated with the ignition of the accelerant.

Observations made during the test are listed below:

Time (min:sec)	Observations from the Fire Exposure
0:00	The test was initiated at 9:11 A.M. with the ignition of the accelerant
1:00	Abs pipe igniting
3:00	Heavy smoke from room openings

4:20	Cracking noises from exposing window
4:45	Flames from room openings
10:45	Glass broke in exposing window
11:00	Fames from exposing window
18:00	Test terminated

5.2. RESULTS AND OBSERVATIONS TEST B

The test was initiated on April 21, 2011. Mark Turner, representing Landmark Group, and Brian Kobialka representing All Weather Windows, were present to witness the test. The test was initiated with the ignition of the accelerant.

Observations made during the test are listed below:

Time (min:sec)	Observations from the Fire Exposure
0:00	The test was initiated at 12:45 P.M. with the ignition of the accelerant
1:30	ABS pipe melting and igniting
3:00	Heavy smoke from room openings and from the corners of the exposing window
5:45	Heavy smoke continues to emit from room openings
6:00	Flames from room openings
10:10	Cracking sounds from exposing window
15:45	Glass on exposing window broke and flames are coming out the window
22:00	Test terminated

5.3. RESULTS AND OBSERVATIONS TEST C

The test was initiated on April 21, 2011. Mark Turner, representing Landmark Group, and Brian Kobialka representing All Weather Windows, were present to witness the test. The test was initiated with the ignition of the accelerant.

Observations made during the test are listed below:

Time (min:sec)	Observations from the Fire Exposure
0:00	The test was initiated at 5:06 P.M. with the ignition of the accelerant
1:20	Smoke emitting from the exposing window
2:20	ABS is ignited
3:00	Flame tips are out the window
3:10	Heavy flaming out the window
4:15	Flame spreading up exposing wall and igniting gypsum paper. Flame tips reaching target wall
5:00	Gypsum paper has burnt off exposing wall 6’ above window
7:00	Exterior window pane on lower target wall window has cracked
8:30	Smoke has lightened in color
12:30	Gypsum in fire compartment room has fallen off part of ceiling

15:20	Fiberglass insulation has fallen out exposing window
19:00	Test terminated

5.4. RESULTS AND OBSERVATIONS TEST D

The test was initiated on April 22, 2011. Mark Turner, representing Landmark Group, and Brian Kobialka representing All Weather Windows, were present to witness the test. The test was initiated with the ignition of the accelerant.

Observations made during the test are listed below:

Time (min:sec)	Observations from the Fire Exposure
0:00	The test was initiated at 12:56 P.M with the ignition of the accelerant
0:50	Smoke from room openings
1:10	Exposing window glass has discolored
2:22	Exposing window glass cracking
2:42	Exposing window glass cracking more
2:55	Black smoke emitting from around window frame
4:30	Exposing window continues to crack
5:30	Smoke density increasing
6:00	Flames from the room openings
10:00	Exposing window glass broke
10:38	Glass broke open and flames
12:20	Flames 5’ above exposing window
13:00	Window fully breached
15:00	Drywall on exposing wall flaming at joints aboveexposing window
19:00	Flames from window increasing
20:00	Test terminated

6 Conclusion

Intertek Testing Services NA (Intertek) has conducted testing for Canadian Home Builders Association, on exterior wall construction with wood framed windows, to evaluate the heat flux exposure through windows from a neighboring building. Testing was conducted in accordance with the client supplied test procedure adapted from *NRC-CNRC Full-Scale Fire Study of Spatial Separation,* Research Report: IRC-RR-195, Dated May 19, 2005. This evaluation began April 20, 2011 and was completed April 22, 2011.

Testing was conducted for research purposes only, and performed as described in Section 5 of this test report. Heat fluxes behind target windows did not exceed 12 kW/m^2. Test data can be found in Appendices D, E, F and G.

INTERTEK TESTING SERVICES NA, INC

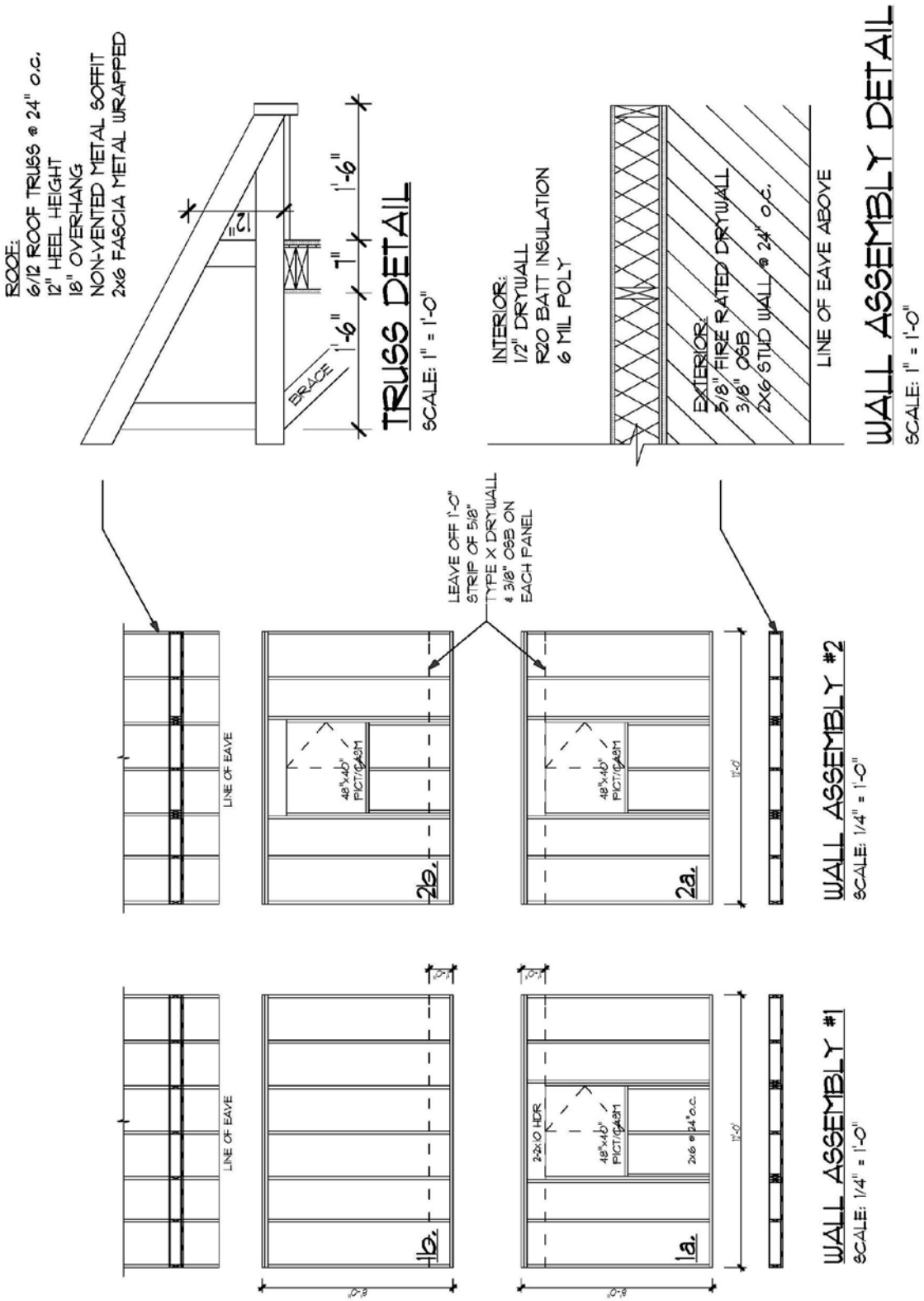
Reported by: _____
Joshua A. Vestal
Project Engineer, Fire Resistance

Reviewed by: _____
Victor M. Burgos
Test Engineer, Fire Resistance

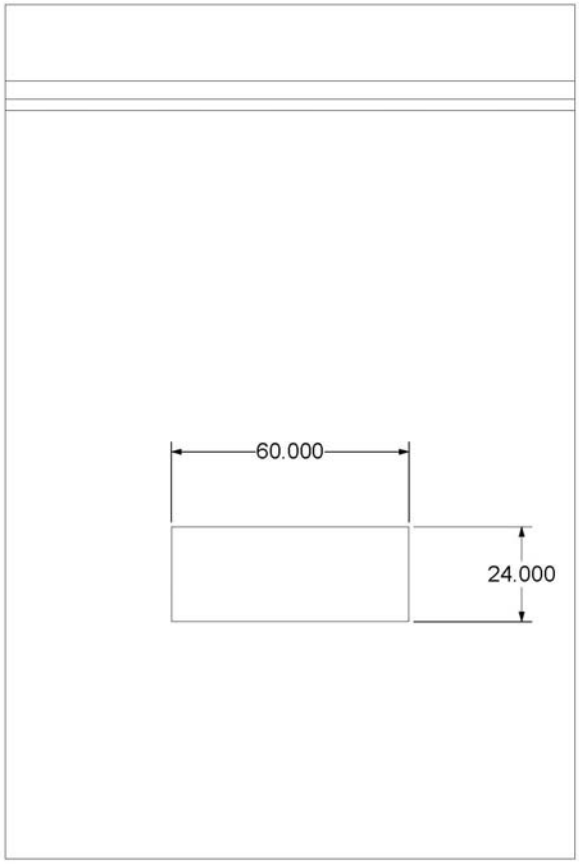
APPENDIX A

Test Assembly Descriptions

Test A, B and D


ROOF:
6/12 ROOF TRUSS @ 24" o.c.
12" HEEL HEIGHT
18" OVERHANG
NON-VENTED METAL SOFFIT
2x6 FASCIA METAL WRAPPED
12"
1'-6"
7"
1'-6"
BRACE
TRUSS DETAIL
SCALE: 1" = 1'-0"
INTERIOR:
1/2" DRYWALL
R20 BATT INSULATION
6 MIL POLY
EXTERIOR:
5/8" FIRE RATED DRYWALL
3/8" OSB
2X6 STUD WALL @ 24" o.c.
LINE OF EAVE ABOVE
WALL ASSEMBLY DETAIL
SCALE: 1" = 1'-0"
LEAVE OFF 1'-0"
STRIP OF 5/8"
TYPE X DRYWALL
& 3/8" OSB ON
EACH PANEL
LINE OF EAVE
48"x40"
PICTURE
2b.
2a.
WALL ASSEMBLY #2
SCALE: 1/4" = 1'-0"
2-2x10 HDR
2x6 @ 24" o.c.
1b.
1a.
WALL ASSEMBLY #1
SCALE: 1/4" = 1'-0"

Test C Wall was built identical to Test A and B with the exception of theExposing window dimensions shown below



Canadian Home Builders' Association

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Fax 780-425-1031
Web chbaedmonton.ca

Edited by Josh Vestal of Intertek for Final Details

Assembly wall components for fire testing.

2 wall assembly's 12' long opposite each other at 8 feet apart.
Built in two pieces to accommodate transportation. See detail drawing.

Wall assembly:
2 x 6 stud wall framing at 24" oc., two stories in height (16').
2 x 10 window headers.
3/8" OSB sheeting on exterior.
5/8" Exterior Board Type X drywall on exterior of OSB.
R-20 Fiberglass batt insulation.
6 Mil poly vapour barrier.
1/2" drywall to interior side of assembly.

2 x 6 x 12' pieces provided for holding stacked wall assemblies together.
2 x 4 x 3' pieces provided for bracing roof assembly on top of wall panel.

Roof assembly. See detail drawing.
Non-vented soffit to 18" roof overhang.
Fiberglass shingle to roof component.

Windows:
48 inches x 40 inches (width x height)
Metal clad wood – Casement/fixed.
Triple glazing with Low "E" and Argon filled.

Assembly of wall panels and roof.

Assembly in front of source fire (Exposing wall).

Place panel 1a (with window opening) in vertical position.
Place panel 1b (no window opening) on top of panel 1a.
Screw though bottom plate of panel 1b into top plate of panel 1a.
Use 2 x 6 x 12' boards to tie the two panels together, which will provide rigidity.
Attach 3/8" OSB strip to the middle portion of panel 1a and 1b.
Attach 5/8 Type X drywall strip on top of OSB strip.
Attach roof assembly on top of wall panel 1b.
Roof soffit to exterior side of wall assembly (5/8" drywall & 3/8" OSB side)
Brace roof assembly with 2 x 4 x 3' boards provided.
Window opening was adjusted to 60" wide by 24" tall. Top of window opening was placed in same location as original opening.

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Assembly number 2 (Target wall) is 8 feet horizontally from first wall assembly.
Place panel 2a (with window opening) in vertical position.
Place panel 2b (with window opening) on top of panel 2a.
Screw though bottom plate of panel 2b into top plate of panel 2a.
Use 2 x 6 x 12' boards to tie the two panels together, which will provide rigidity.
Attach 3/8" OSB strip to the middle portion of panel 2a and 2b.
Attach 5/8 Type X drywall strip on top of OSB strip.
Attach roof assembly on top of wall panel 2b.
Roof soffit to exterior side of wall assembly (5/8" drywall & 3/8" OSB side)
Brace roof assembly with 2 x 4 x 3' boards provided.

For Test A, B, and C the same target wall was utilized. New widows were installed in the target wall for each test.

For Test C the exposing wall opening was modified to have a 24" tall by 60" tall window. No glass was installed in this opening.

For Test D the wall assemblies were identical to Test A as stated above with the following changes.

- **R-20 Fiberglass Batt Insulation was not installed.**
- **Nominal 2 pcf Polyurethane Spray Foam insulation was installed in the wall cavity.**

ALL WEATHER WINDOWS

Architectural Solutions

Wednesday, April 20, 2011

Attn: Joshua Vestal, Project Engineer
Intertek, 16015 Shady Falls Road
Elmendorf, TX 78112

Subject: Window Product Details for CHBA – Edmonton Side Wall Fire Protection Tests

The window products supplied were as follows.

Overall Frame Size: 1203mm wide x 1000mm high.

Window Product Configuration:
Comprised of 2 individual window units mulled together.
- One aluminum clad wood out swing casement window.
- One aluminum clad wood picture window.

Main window frame: Western Canadian Pacific Hemlock, clear stain grade with no finger joints or laminated components. The wood is preservative treated with Dryvac N1010 Water Repellent Wood Preservative. The moisture content on the wood at processing time at NCFP is a range between 8%-12%.
The exterior of the frame is fully clad with 1.27mm extruded aluminum, including the nailing flange which is an integral part of the frame cladding.
Frame: thickness is 30mm and the frame depth into the wall from the nailing flange to the inside of the main frame is 4 9/16" plus an extension jamb measuring 2" in depth for a total of 6 9/16".
Operating Sash: Sash thickness 56.8mm and 54mm at it's highest point. Sash material is solid hemlock wood with 0.53mm roll formed aluminum clad on the exterior.

Glazing:
Product Type 1: Triple Pane Sealed Unit comprised of 3 panes of glass at 3mm thick each, and a Pyrolytic Low E (manufactured by AGC Flat Glass North America under the brand name Comfort E2) coating on surface #5, and argon gas fill in both air spaces. The spacer is a 12.7mm thick extruded silicone foam spacer (manufactured by EdgeTech under the name Super Spacer), and secondary sealed with butyl hot melt sealant.

The AGC Glass Performance Calc Data for this glass configuration is as follows.
Visible Light Transmittance: 69%
Visible Light Reflectance Outdoors: 21%
Visible Light Reflectance Indoors: 18%
Solar Energy Transmittance: 53%
Solar Energy Reflectance Outdoors: 21%
UV Light Transmittance: 37%
U-Value: 0.21
Solar Heat Gain Coefficient: 0.66
Shading Coefficient: 0.76
Relative Heat Gain (BTU/Hr/Sq.Ft.): 0.76

Product Type 2: Triple Pane Sealed Unit comprised of 3 panes of glass of which the outboard pane is 7mm thick GPW (Georgian Polished Wire) and the center pane at 3mm thick, and the inboard pane at 3mm thick with a Pyrolytic Low E (manufactured by AGC Flat Glass North America under the brand name Comfort E2) coating on surface #5, and argon gas fill in both

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airspaces. The spacer is a 12.7mm thick extruded silicone foam spacer (manufactured by EdgeTech under the name Super Spacer), and secondary sealed with butyl hotmelt sealant.

Glazing Method:
Operating Sash: The glass is placed into the frame from the interior and is held in the sash with wood glazing stops fastened with brad nails on the inside of the window sash.
Stationary Picture Window: The glass is placed into the frame from the exterior and is held in place with extruded aluminum glazing stops that are snapped in place.

Insect Screen:
The screen frame is roll formed aluminum, with a fiberglass screen mesh at a count of 18x16 per square inch.

Hardware for Operating Casement Window:
Truth Hardware series Encore operator.

The production stickers for the two configurations of windows are included below.

Thank you,
Brian Kobialka
Architectural Manager

Product Type 1:

Product Type 2:

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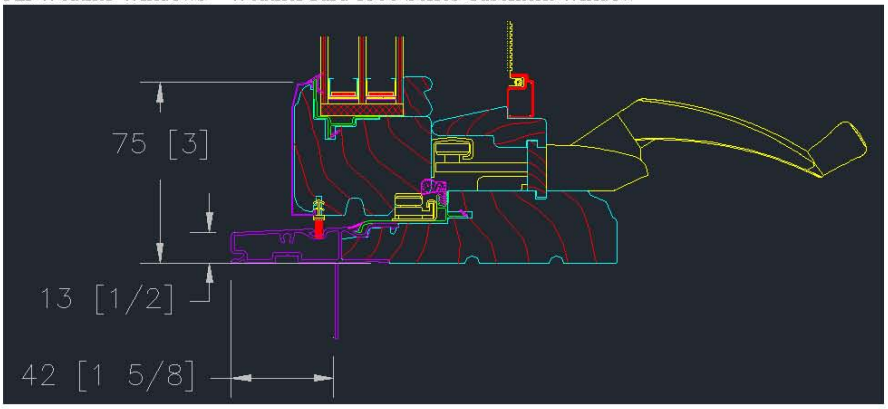
ALL WEATHER WINDOWS

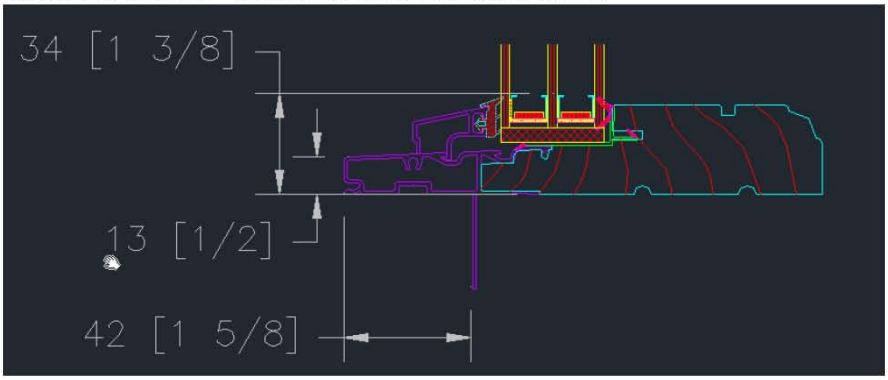
Architectural Solutions

Product CAD details as tested shown below:

All Weather Windows – WeatherGard 1500 Series Casement Window



All Weather Windows – WeatherGard 1000 Series Picture Window



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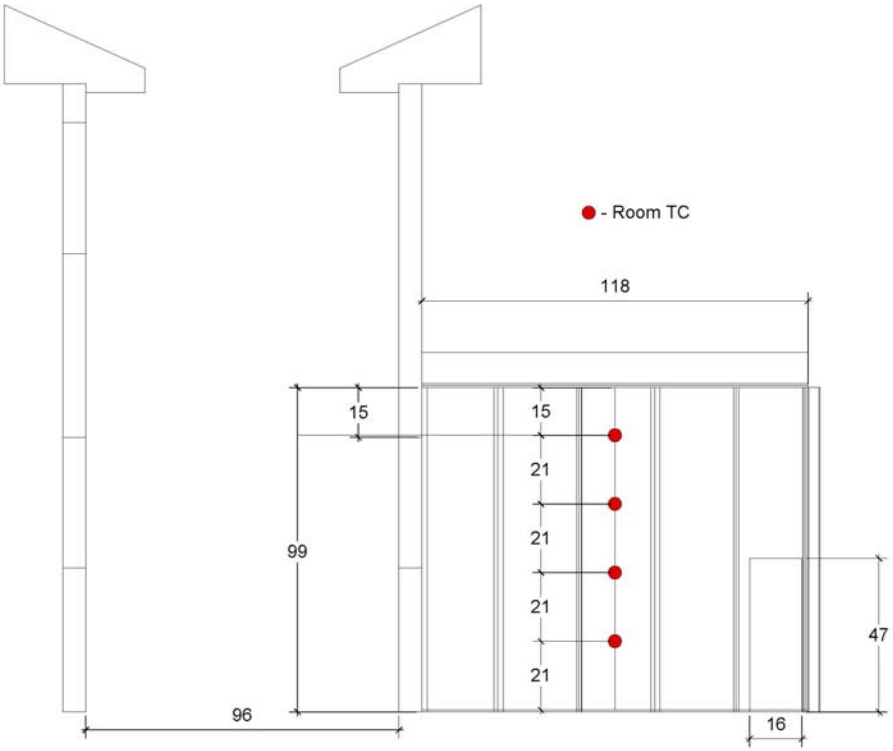
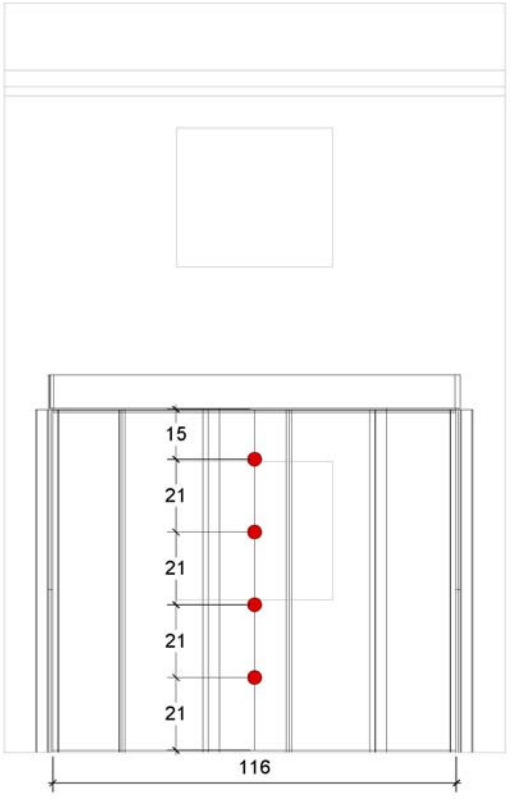
APPENDIX B

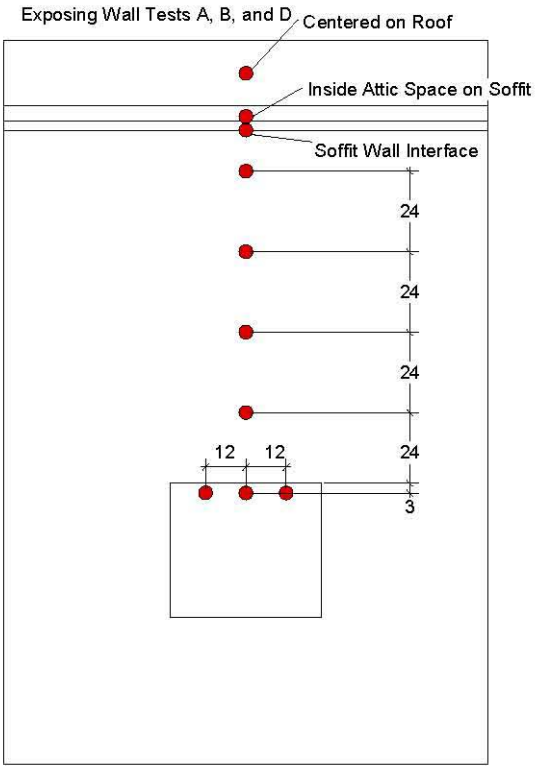
Fire Compartment Room Description

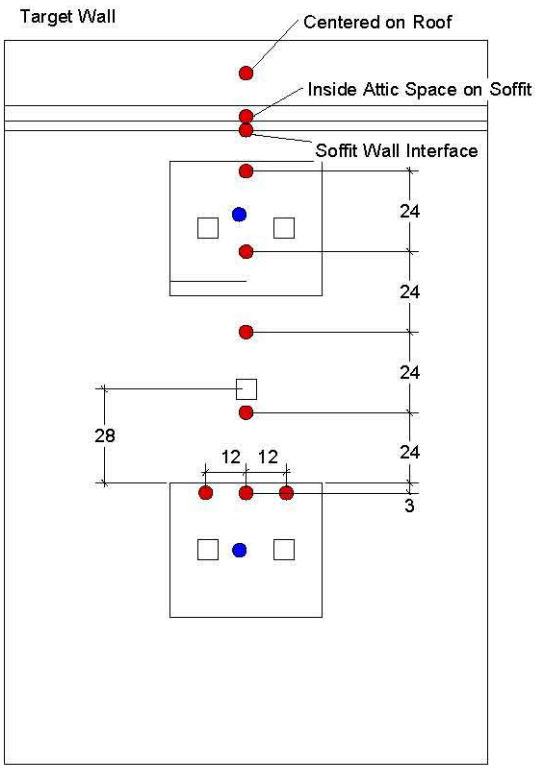

- Room TC
118
15
15
21
21
21
99
47
96
16

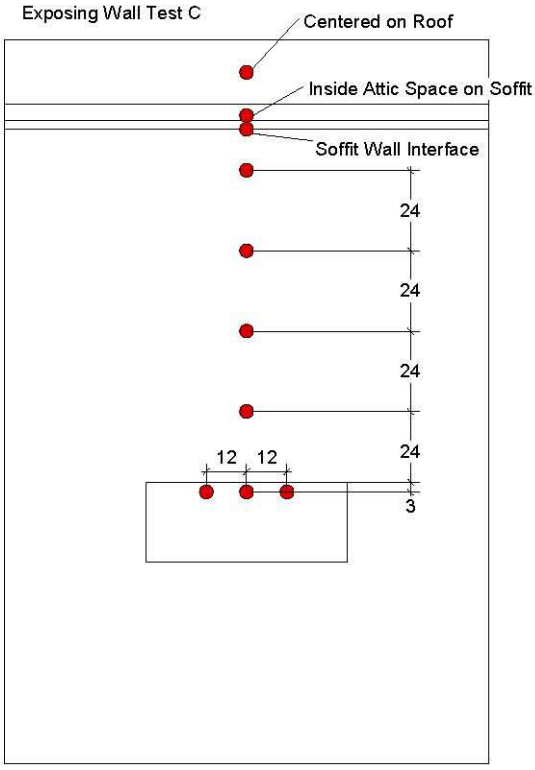

15
21
21
21
21
116

APPENDIX C

Wall Instrumentation



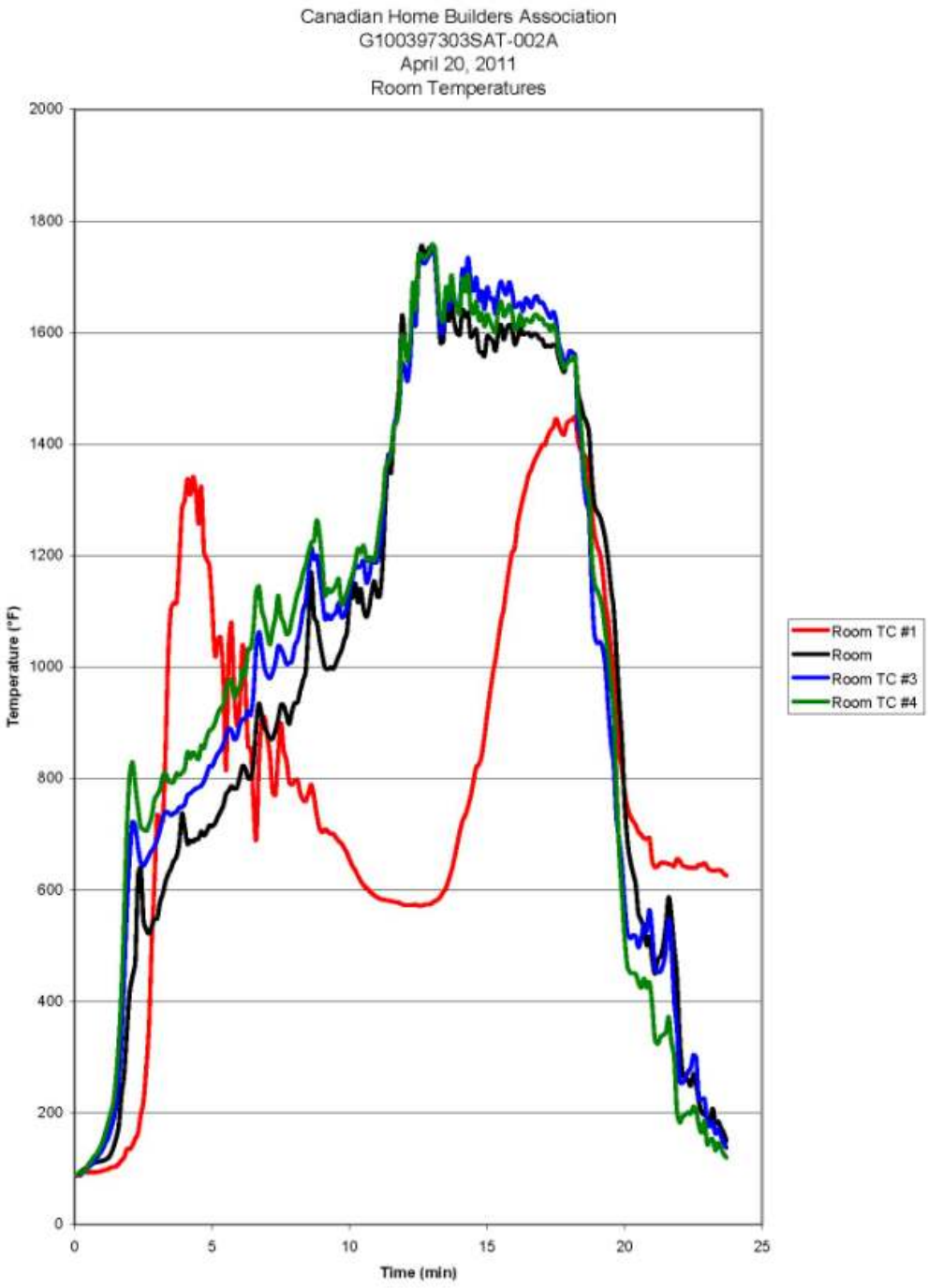


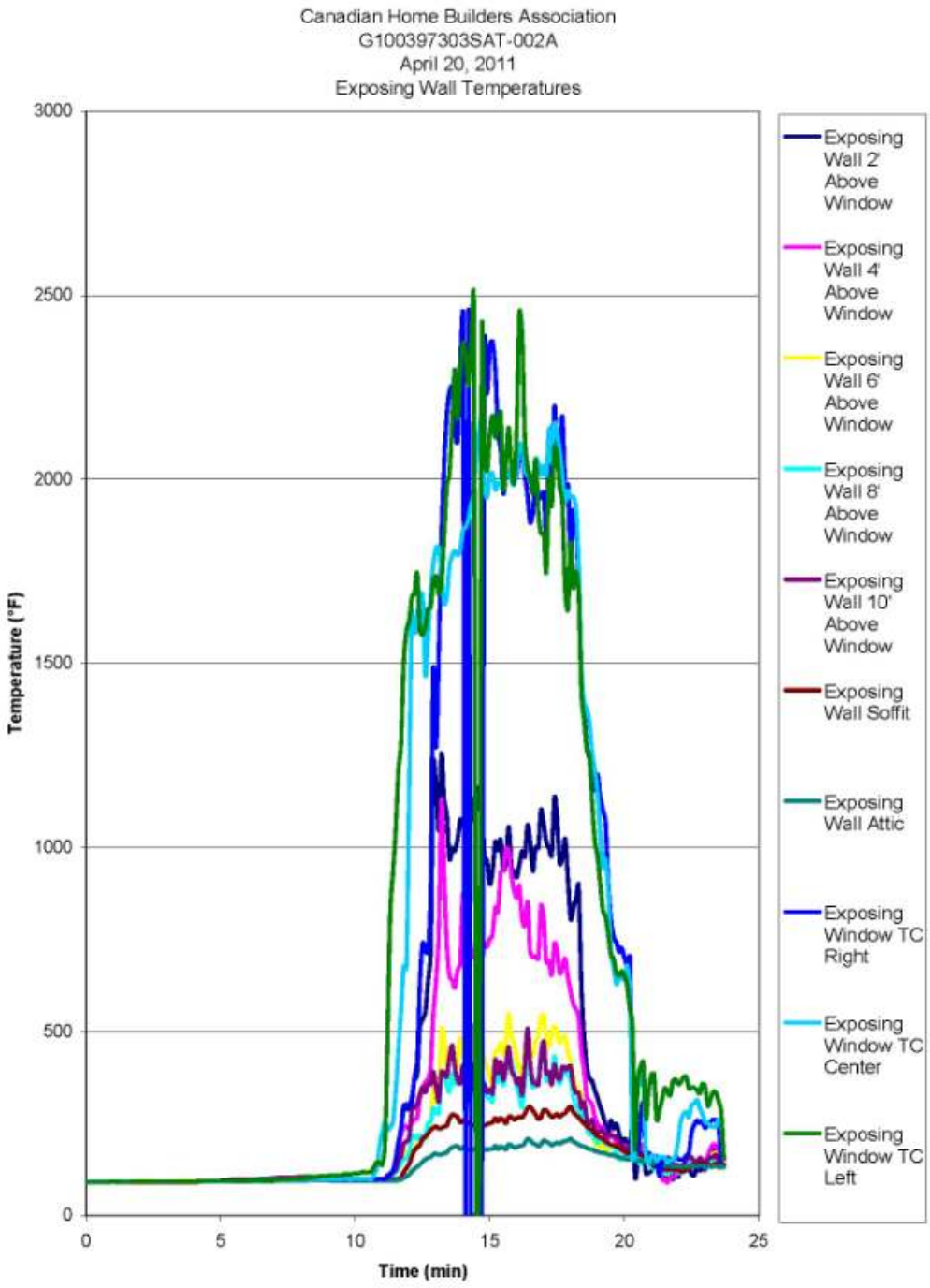


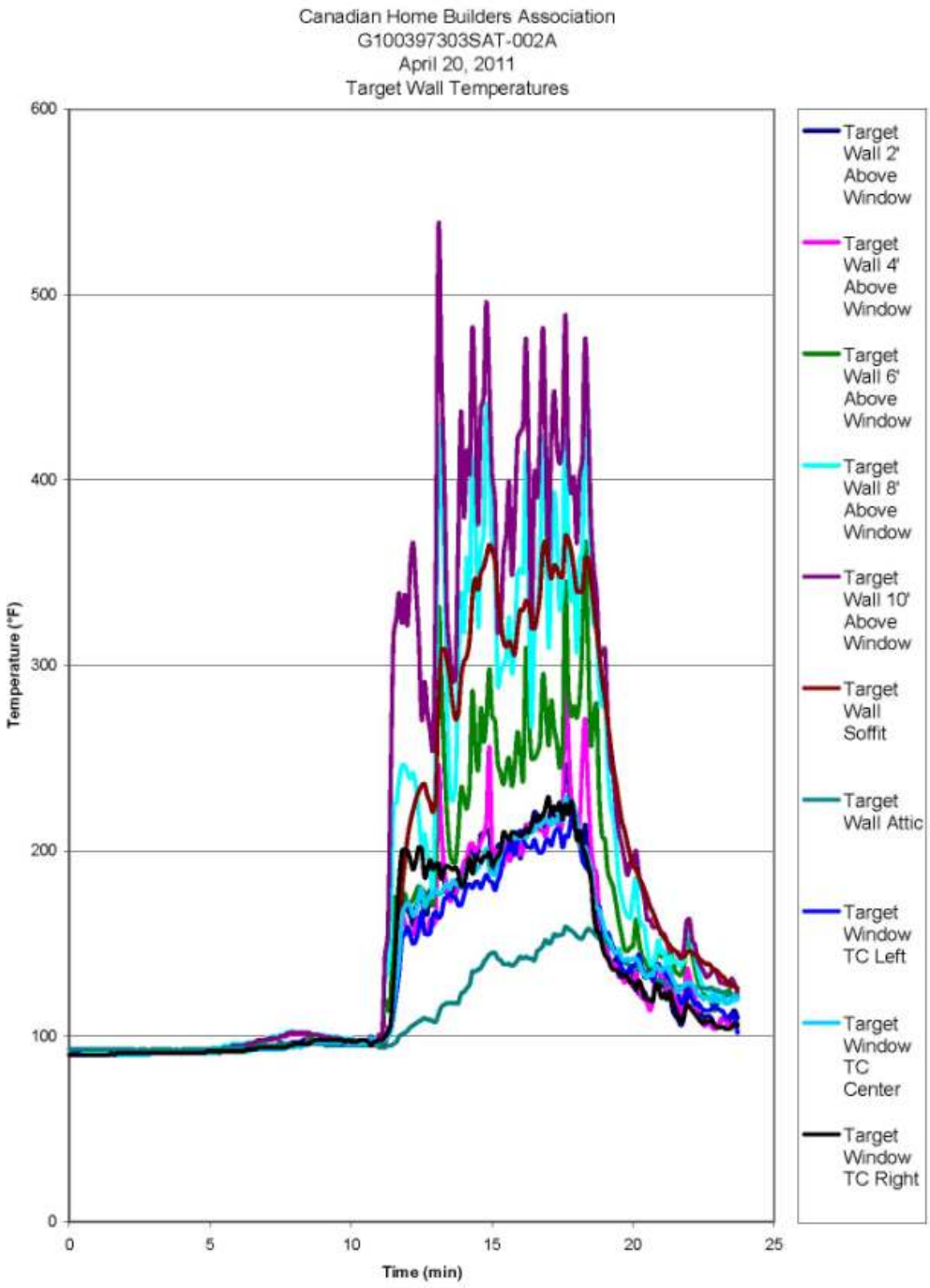
- TC on exposed side
- TC behind wall
- Gardon Gauge

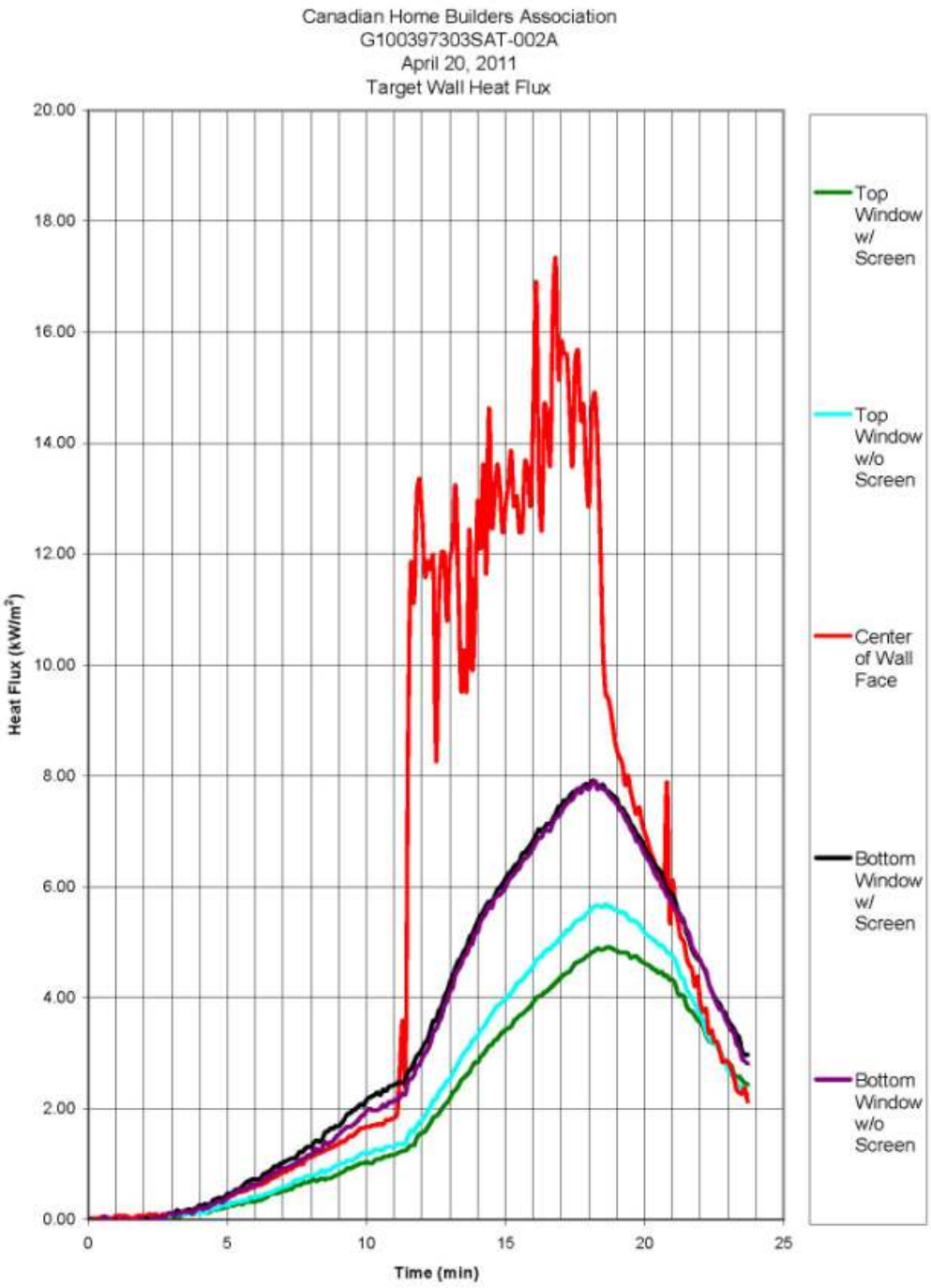
APPENDIX D

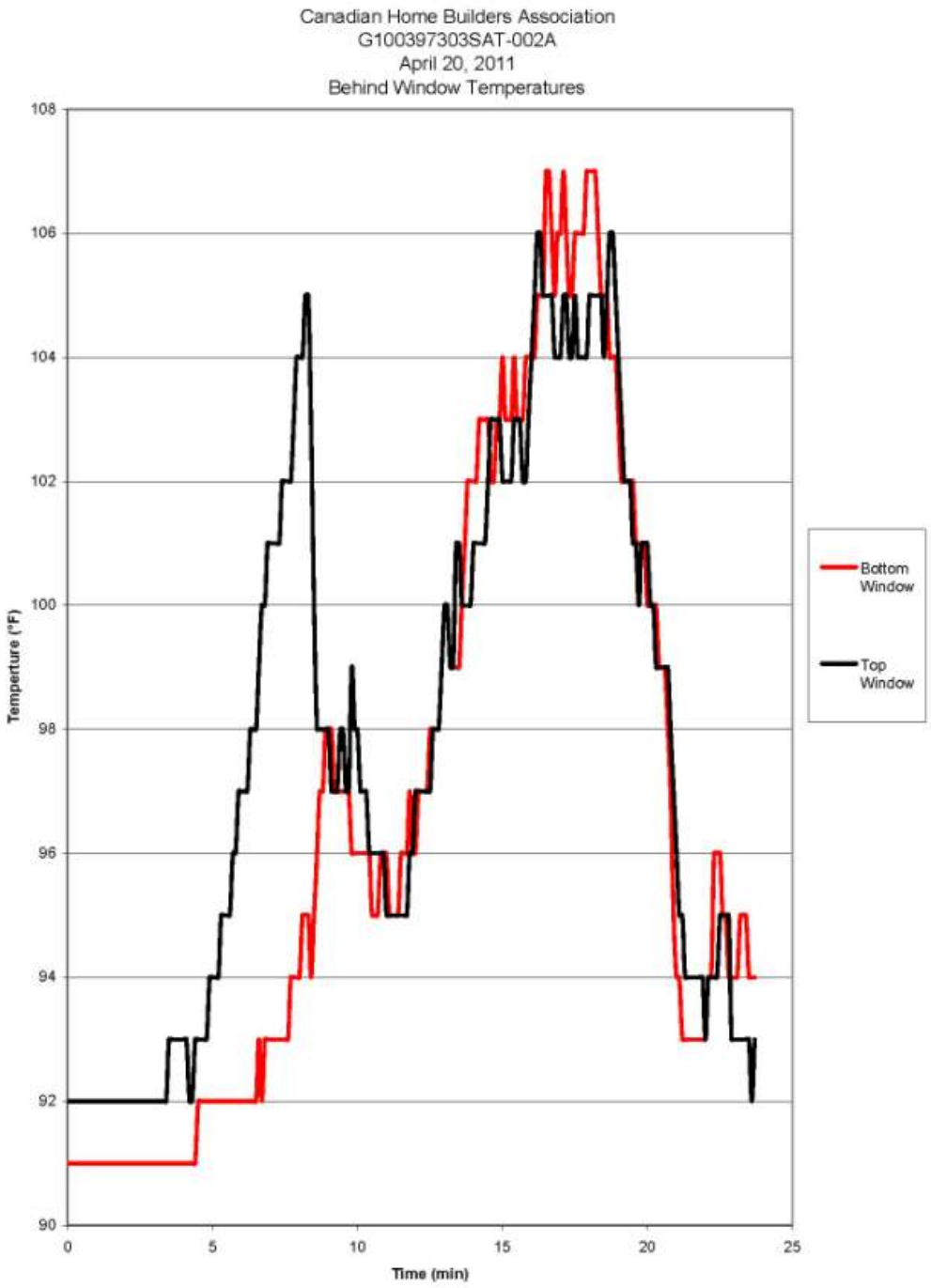
Test A Data


Canadian Home Builders Association
G100397303SAT-002A
April 20, 2011
Room Temperatures
Temperature (°F)
Time (min)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
5
10
15
20
25
Room TC #1
Room
Room TC #3
Room TC #4


Canadian Home Builders Association
G100397303SAT-002A
April 20, 2011
Exposing Wall Temperatures
Temperature (°F)
Time (min)
0
500
1000
1500
2000
2500
3000
0
5
10
15
20
25
Exposing Wall 2' Above Window
Exposing Wall 4' Above Window
Exposing Wall 6' Above Window
Exposing Wall 8' Above Window
Exposing Wall 10' Above Window
Exposing Wall Soffit
Exposing Wall Attic
Exposing Window TC Right
Exposing Window TC Center
Exposing Window TC Left


Canadian Home Builders Association
G100397303SAT-002A
April 20, 2011
Target Wall Temperatures
Temperature (°F)
Time (min)
0
100
200
300
400
500
600
0
5
10
15
20
25
Target Wall 2' Above Window
Target Wall 4' Above Window
Target Wall 6' Above Window
Target Wall 8' Above Window
Target Wall 10' Above Window
Target Wall Soffit
Target Wall Attic
Target Window TC Left
Target Window TC Center
Target Window TC Right


Canadian Home Builders Association
G100397303SAT-002A
April 20, 2011
Target Wall Heat Flux
Heat Flux (kW/m²)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
5
10
15
20
25
Time (min)
Top Window w/ Screen
Top Window w/o Screen
Center of Wall Face
Bottom Window w/ Screen
Bottom Window w/o Screen


Canadian Home Builders Association
G100397303SAT-002A
April 20, 2011
Behind Window Temperatures
Temperture (°F)
108
106
104
102
100
98
96
94
92
90
0
5
10
15
20
25
Time (min)
Bottom Window
Top Window

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
0	87	88	89	88
0.1	88	90	89	90
0.2	88	94	90	92
0.3	94	98	93	95
0.4	94	101	98	98
0.5	93	104	103	108
0.6	94	107	108	114
0.7	94	111	112	122
0.8	94	112	119	127
0.9	95	113	127	137
1	98	114	134	147
1.1	98	116	145	163
1.2	99	119	154	180
1.3	102	125	169	199
1.4	103	138	186	217
1.5	104	154	214	262
1.6	109	177	261	329
1.7	115	233	332	422
1.8	121	271	444	562
1.9	135	349	570	712
2	135	417	661	806
2.1	142	445	721	829
2.2	154	472	714	789
2.3	164	625	676	747
2.4	197	640	649	713
2.5	221	546	644	709
2.6	281	529	652	706
2.7	358	522	662	717
2.8	505	535	671	733
2.9	617	548	679	762
3	734	549	691	771
3.1	725	578	708	781
3.2	723	593	729	804
3.3	851	615	740	909
3.4	1024	629	739	796
3.5	1104	639	734	793
3.6	1115	652	738	794
3.7	1115	660	740	809
3.8	1190	695	748	906
3.9	1283	737	749	910
4	1299	711	754	818
4.1	1337	683	770	847
4.2	1309	689	773	836
4.3	1341	687	778	847
4.4	1318	691	782	841
4.5	1257	692	784	835
4.6	1323	705	787	859
4.7	1206	698	795	855
4.8	1193	705	808	874
4.9	1190	716	822	886
5	1108	714	822	890
5.1	1021	720	834	900
5.2	1045	731	844	916
5.3	1053	741	851	926
5.4	991	751	862	932
5.5	815	772	876	956
5.6	1035	778	889	973
5.7	1079	786	886	976
5.8	952	781	870	945
5.9	894	784	875	960
6	931	802	896	965
6.1	1039	822	906	995
6.2	972	818	908	986
6.3	858	801	921	1032
6.4	853	801	914	1033
6.5	756	825	954	1071
6.6	691	896	1035	1135
6.7	830	934	1063	1144
6.8	905	913	1033	1102
6.9	910	893	998	1085
7	876	882	985	1059
7.1	839	872	980	1041
7.2	775	872	991	1068
7.3	771	887	1008	1090
7.4	846	908	1037	1128
7.5	899	932	1033	1091
7.6	950	930	1021	1079
7.7	832	913	1006	1059
7.8	794	898	1007	1063
7.9	789	921	1011	1067
8	796	935	1038	1108
8.1	797	937	1048	1132
8.2	773	957	1070	1145
8.3	762	976	1102	1169
8.4	760	993	1118	1183
8.5	774	1077	1167	1206
8.6	789	1170	1214	1223

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
8.7	767	1091	1193	1227
8.8	735	1081	1189	1263
8.9	711	1049	1162	1238
9	704	1021	1124	1187
9.1	709	999	1086	1129
9.2	705	996	1094	1140
9.3	701	999	1086	1134
9.4	701	997	1093	1138
9.5	694	1007	1098	1147
9.6	688	1020	1114	1157
9.7	683	1030	1090	1112
9.8	675	1049	1092	1121
9.9	668	1063	1110	1134
10	654	1120	1139	1152
10.1	643	1125	1158	1167
10.2	635	1150	1182	1187
10.3	625	1116	1178	1212
10.4	618	1140	1181	1206
10.5	609	1105	1190	1218
10.6	604	1090	1152	1199
10.7	599	1105	1161	1189
10.8	594	1135	1189	1197
10.9	590	1154	1187	1192
11	587	1126	1189	1222
11.1	584	1128	1220	1260
11.2	583	1191	1258	1292
11.3	582	1297	1345	1356
11.4	581	1380	1374	1366
11.5	580	1348	1388	1385
11.6	579	1424	1429	1432
11.7	578	1452	1450	1438
11.8	577	1506	1470	1471
11.9	574	1629	1544	1594
12	573	1584	1536	1580
12.1	573	1551	1513	1549
12.2	573	1565	1554	1590
12.3	573	1663	1649	1689
12.4	574	1621	1614	1641
12.5	572	1718	1733	1741
12.6	572	1755	1735	1740
12.7	573	1745	1724	1732
12.8	574	1740	1730	1737
12.9	574	1752	1740	1744
13	577	1749	1748	1758
13.1	580	1731	1734	1751
13.2	583	1658	1669	1687
13.3	588	1582	1600	1628
13.4	596	1585	1600	1620
13.5	604	1650	1665	1681
13.6	618	1621	1642	1657
13.7	635	1652	1692	1703
13.8	655	1619	1656	1663
13.9	680	1599	1650	1646
14	704	1598	1650	1634
14.1	724	1640	1713	1696
14.2	734	1629	1690	1674
14.3	749	1635	1734	1704
14.4	769	1593	1693	1641
14.5	795	1597	1675	1634
14.6	820	1605	1698	1655
14.7	826	1567	1658	1622
14.8	842	1564	1674	1635
14.9	876	1558	1642	1611
15	916	1593	1681	1632
15.1	953	1590	1660	1620
15.2	987	1584	1661	1609
15.3	1014	1567	1634	1601
15.4	1048	1598	1672	1639
15.5	1082	1614	1691	1655
15.6	1105	1588	1676	1630
15.7	1143	1605	1668	1636
15.8	1177	1614	1690	1650
15.9	1204	1608	1674	1636
16	1214	1579	1646	1606
16.1	1256	1590	1649	1611
16.2	1281	1607	1653	1632
16.3	1303	1597	1639	1612
16.4	1322	1599	1661	1623
16.5	1344	1599	1655	1622
16.6	1354	1593	1645	1618
16.7	1368	1598	1660	1630
16.8	1378	1596	1665	1632
16.9	1389	1589	1654	1624
17	1398	1587	1654	1624
17.1	1399	1575	1645	1614
17.2	1414	1577	1635	1613
17.3	1424	1575	1626	1603
17.4	1430	1578	1637	1614

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
17.5	1445	1577	1623	1603
17.6	1434	1555	1581	1569
17.7	1421	1539	1565	1548
17.8	1417	1529	1543	1536
17.9	1437	1549	1551	1544
18	1442	1550	1567	1550
18.1	1444	1551	1563	1553
18.2	1448	1553	1559	1556
18.3	1406	1493	1434	1466
18.4	1389	1473	1413	1437
18.5	1381	1451	1341	1371
18.6	1375	1440	1296	1325
18.7	1354	1420	1278	1305
18.8	1281	1342	1143	1200
18.9	1239	1291	1058	1150
19	1217	1278	1043	1138
19.1	1202	1269	1045	1124
19.2	1169	1252	1034	1101
19.3	1115	1227	999	1059
19.4	1084	1189	928	1022
19.5	1033	1141	865	970
19.6	989	1103	825	918
19.7	910	1024	732	786
19.8	849	940	689	668
19.9	814	865	644	591
20	775	755	574	512
20.1	748	688	523	463
20.2	733	653	514	452
20.3	724	631	519	451
20.4	716	609	516	449
20.5	704	557	497	434
20.6	699	546	514	425
20.7	693	528	539	441
20.8	692	501	526	425
20.9	693	516	564	434
21	652	475	522	393
21.1	641	450	457	331
21.2	643	475	453	324
21.3	648	481	454	336
21.4	649	500	467	340
21.5	648	539	493	345
21.6	647	587	548	372
21.7	645	551	500	326
21.8	643	498	401	300
21.9	655	444	350	203
22	652	335	256	183
22.1	644	274	254	193
22.2	642	261	262	197
22.3	640	259	274	201
22.4	640	249	280	199
22.5	640	270	304	211
22.6	640	251	299	204
22.7	645	219	224	177
22.8	645	202	225	165
22.9	648	198	225	185
23	641	191	186	144
23.1	638	185	176	151
23.2	635	208	184	153
23.3	635	182	163	133
23.4	638	185	172	146
23.5	635	173	158	137
23.6	629	164	147	126
23.7	626	150	138	120

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
0	91	91	92	92	92	93	92	91	91	92
0.1	91	92	92	92	92	93	92	91	91	92
0.2	91	92	92	92	92	93	92	91	91	92
0.3	91	92	92	92	92	93	92	91	91	92
0.4	91	92	92	92	92	93	92	91	91	92
0.5	91	91	92	92	92	93	92	91	91	92
0.6	91	92	92	92	92	93	92	91	91	92
0.7	91	92	92	92	92	93	92	91	91	92
0.8	91	92	92	92	92	93	92	91	91	92
0.9	92	92	92	92	92	93	92	91	91	92
1	92	91	92	92	92	93	92	91	91	92
1.1	92	92	92	92	92	93	92	91	91	92
1.2	92	92	92	92	92	93	92	91	91	92
1.3	91	92	92	92	92	93	92	91	91	92
1.4	91	92	92	92	92	93	92	91	91	92
1.5	91	92	92	92	92	93	92	91	91	92
1.6	91	92	92	92	92	93	92	91	91	92
1.7	92	92	92	92	92	93	92	91	91	92
1.8	92	92	92	92	92	93	92	91	91	92
1.9	92	92	92	92	93	93	92	92	91	92
2	92	92	92	93	93	94	93	92	91	92
2.1	92	92	92	93	93	94	93	92	91	92
2.2	92	92	92	93	93	94	93	93	91	92
2.3	92	92	92	93	93	94	93	93	91	92
2.4	93	92	92	93	93	93	93	93	91	92
2.5	93	92	92	93	93	93	93	93	91	92
2.6	93	92	93	93	92	93	92	93	91	92
2.7	93	92	93	93	93	93	92	93	91	92
2.8	93	92	93	93	92	93	92	93	91	92
2.9	93	92	93	93	92	93	92	93	91	92
3	93	92	93	93	92	93	92	93	91	92
3.1	93	92	93	93	93	93	92	93	91	92
3.2	93	92	93	93	93	93	92	92	91	92
3.3	93	92	93	93	93	93	92	92	91	92
3.4	93	92	93	93	93	93	93	92	91	92
3.5	93	92	93	93	93	94	92	92	91	92
3.6	93	93	93	93	93	94	93	92	91	92
3.7	93	93	93	93	93	94	93	92	91	92
3.8	93	93	93	93	94	94	93	93	91	92
3.9	93	93	93	93	94	94	93	93	91	92
4	93	93	93	93	94	94	93	93	91	92
4.1	93	93	93	93	93	94	93	93	91	92
4.2	93	93	93	93	93	94	94	94	92	92
4.3	93	93	93	93	93	94	94	94	92	92
4.4	94	93	93	93	93	94	94	94	92	92
4.5	94	93	93	93	94	94	94	94	92	92
4.6	94	93	93	93	94	95	94	94	92	93
4.7	94	93	94	93	94	95	94	94	92	93
4.8	94	93	94	93	94	95	95	94	92	93
4.9	94	93	94	93	94	95	94	94	92	93
5	94	93	94	93	94	95	95	95	92	92
5.1	94	93	94	93	94	96	95	96	92	93
5.2	94	93	94	93	94	95	96	96	92	93
5.3	94	93	94	94	94	96	97	96	92	93
5.4	94	94	94	94	95	97	97	97	92	93
5.5	95	94	94	94	95	97	97	97	92	93
5.6	95	94	94	94	95	97	98	98	92	93
5.7	95	94	95	94	96	97	98	98	92	93
5.8	95	94	95	94	95	97	98	98	93	93
5.9	95	94	95	94	95	97	98	98	93	93
6	95	95	95	94	95	97	98	98	93	93
6.1	96	95	95	94	95	97	98	98	93	93
6.2	96	95	96	95	95	98	98	98	93	93
6.3	96	95	96	95	96	98	98	98	93	93
6.4	97	95	96	95	96	98	98	98	93	93
6.5	97	95	96	96	96	98	99	99	93	93
6.6	97	95	96	96	96	99	100	99	93	94
6.7	97	95	96	96	96	99	100	100	93	94
6.8	97	95	96	96	97	100	101	100	93	94
6.9	97	96	97	96	98	101	102	101	93	94
7	97	96	97	96	99	101	102	102	94	94
7.1	97	96	97	96	99	101	103	102	94	94
7.2	98	96	97	97	100	103	103	103	94	94
7.3	98	97	98	97	100	103	104	103	94	94
7.4	98	97	98	97	100	103	103	103	94	94
7.5	98	97	98	97	100	102	103	103	94	95
7.6	99	97	98	97	101	103	104	104	95	95
7.7	100	97	98	97	101	104	104	104	95	95
7.8	100	98	99	98	101	103	104	104	96	95
7.9	100	98	100	98	102	104	105	105	97	95
8	100	98	99	98	102	104	105	105	97	95
8.1	101	99	99	99	102	104	106	105	96	95
8.2	103	99	100	99	102	106	107	105	96	95
8.3	103	99	100	99	102	106	107	106	96	96
8.4	103	99	99	99	101	104	105	106	96	96
8.5	106	100	99	99	101	103	104	105	97	96
8.6	106	100	100	99	100	102	103	103	97	96

G100397303SAT-002A | Canadian Home Builders Association | April 20, 2011

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
8.7	107	101	100	99	100	101	102	102	97	96
8.8	108	100	100	98	99	100	101	101	97	96
8.9	108	100	100	98	99	99	100	100	97	96
9	108	100	100	98	98	99	99	99	96	96
9.1	110	100	100	98	98	99	99	99	96	95
9.2	109	100	100	98	98	98	98	99	96	95
9.3	109	100	100	98	98	98	99	99	96	95
9.4	110	100	100	97	98	99	99	99	96	95
9.5	110	100	100	98	98	100	99	99	96	95
9.6	112	100	99	98	98	100	99	99	96	95
9.7	112	100	99	97	98	99	99	99	96	95
9.8	112	99	99	97	97	98	99	99	96	95
9.9	113	100	99	97	97	98	99	99	96	95
10	115	100	99	97	97	98	98	98	96	94
10.1	114	100	99	97	97	98	98	98	96	95
10.2	117	100	100	97	97	98	97	97	96	95
10.3	118	100	99	97	97	97	97	97	96	95
10.4	117	100	99	97	97	98	97	97	96	95
10.5	118	100	98	97	96	98	97	97	96	95
10.6	120	100	99	97	96	97	96	97	96	95
10.7	133	112	99	97	97	97	97	97	96	95
10.8	145	128	99	97	97	97	97	97	95	95
10.9	143	190	100	97	97	98	98	98	95	95
11	138	226	100	97	97	97	97	98	95	95
11.1	187	254	99	97	97	99	97	97	95	95
11.2	483	234	106	109	102	99	98	102	96	95
11.3	825	241	114	114	109	104	106	110	96	95
11.4	933	255	123	123	119	106	107	118	97	95
11.5	1053	340	153	154	144	117	119	124	98	95
11.6	1207	448	194	200	185	134	129	148	100	96
11.7	1285	557	240	236	218	157	143	162	104	98
11.8	1500	677	288	299	241	169	154	195	118	102
11.9	1589	671	303	282	242	173	156	201	128	106
12	1616	1151	297	290	236	174	168	210	140	111
12.1	1679	1640	302	322	252	194	216	285	160	120
12.2	1691	1583	376	368	262	191	217	293	177	127
12.3	1745	1618	418	384	265	187	208	302	185	133
12.4	1589	1684	627	514	320	213	218	329	182	139
12.5	1578	1688	739	533	345	206	204	349	209	146
12.6	1600	1469	718	555	362	218	220	335	214	153
12.7	1647	1567	714	634	370	238	251	357	222	157
12.8	1653	1691	898	722	403	258	255	357	233	159
12.9	1725	1769	1482	1231	544	343	291	391	238	166
13	1737	1814	1272	1163	641	310	279	347	242	168
13.1	1688	1816	1532	1047	772	316	278	311	237	165
13.2	1722	1740	1852	1255	1129	506	392	391	238	166
13.3	1844	1662	2038	1133	934	480	385	388	242	169
13.4	1982	1680	2174	1087	740	392	353	378	245	172
13.5	2017	1768	2239	969	651	345	337	431	263	180
13.6	2164	1794	2252	998	640	376	386	461	274	186
13.7	2299	1906	2148	991	620	359	360	400	272	189
13.8	2165	1794	2105	1023	669	429	361	369	267	188
13.9	2287	1808	2310	1075	683	483	364	360	253	181
14	2371	1862	2443	1062	673	441	372	408	259	185
14.1	2340	1869	BAD PROBE	1022	751	392	338	354	256	183
14.2	2255	1892	2460	982	700	369	295	336	251	180
14.3	2361	1930	BAD PROBE	1096	698	420	324	339	247	178
14.4	2500	1983	BAD PROBE	1134	712	462	378	382	244	180
14.5	BAD PROBE	2064	BAD PROBE	1104	749	539	428	434	251	185
14.6	BAD PROBE	2132	BAD PROBE	1164	758	469	372	380	251	182
14.7	2392	2169	BAD PROBE	1097	757	466	369	351	246	179
14.8	2046	1988	2376	976	735	420	358	355	245	181
14.9	2023	1951	2234	964	731	404	322	335	248	179
15	2126	2014	2368	901	752	375	319	342	251	181
15.1	2173	2017	2375	935	762	357	310	332	253	181
15.2	2114	1973	2295	1015	837	448	392	423	265	189
15.3	2166	1990	2130	992	924	447	363	386	256	181
15.4	2182	1987	2078	1021	932	470	393	417	264	187
15.5	1973	1971	1962	938	939	436	354	388	259	184
15.6	2059	2015	2015	962	998	474	396	409	251	180
15.7	2140	2023	2012	1056	992	547	448	458	268	193
15.8	2034	1997	2001	946	925	487	413	392	268	190
15.9	1992	1988	1994	935	883	469	388	381	261	185
16	2149	2029	2013	919	864	425	350	359	265	186
16.1	2454	2097	2066	954	895	398	324	372	268	189
16.2	2392	2085	2053	990	805	385	295	327	267	190
16.3	2109	2024	2011	975	788	443	375	408	276	197
16.4	2032	2011	1955	1061	952	499	463	508	292	208
16.5	2006	2001	1883	1015	716	437	380	415	285	205
16.6	1963	1982	1909	936	702	435	347	362	285	198
16.7	2053	2056	2002	1001	705	473	364	360	275	194
16.8	1912	2044	1962	999	698	489	369	355	262	188
16.9	1953	2012	1950	1102	841	539	423	437	269	194
17	1853	2037	1964	1062	803	544	447	472	286	204
17.1	1749	2012	1852	1015	688	475	367	386	285	200
17.2	2002	2139	2111	998	692	458	382	390	276	197
17.3	1928	2043	1986	978	654	493	382	356	268	191
17.4	2088	2151	2198	1135	739	512	433	409	271	195

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
17.5	2068	2125	2081	1076	718	496	379	377	275	198
17.6	1977	2077	2084	956	659	470	357	371	269	195
17.7	1937	2012	2170	971	672	485	367	404	275	200
17.8	1897	1941	1978	1023	698	487	404	396	278	202
17.9	1646	1968	1986	918	648	444	382	403	289	204
18	1828	1950	1795	806	609	419	369	405	295	209
18.1	1706	1952	1917	835	576	379	323	356	282	201
18.2	1748	1924	1895	861	561	354	298	334	273	197
18.3	1703	1782	1709	897	540	345	289	333	267	193
18.4	1423	1493	1441	822	447	325	261	292	258	188
18.5	1347	1393	1368	468	397	302	282	308	251	187
18.6	1267	1376	1274	404	322	240	241	263	243	184
18.7	1251	1340	1243	373	312	230	220	250	237	180
18.8	1123	1259	1224	365	302	223	235	260	232	180
18.9	1022	1211	1156	341	269	200	211	233	223	176
19	976	1146	1198	319	248	189	198	222	216	173
19.1	901	1046	1138	298	238	185	207	232	212	171
19.2	829	946	1102	273	242	201	210	227	208	170
19.3	812	969	1070	248	218	180	194	219	202	169
19.4	765	892	910	220	209	179	197	217	197	166
19.5	708	722	808	258	221	188	189	218	193	164
19.6	697	673	755	237	213	180	190	215	191	164
19.7	660	630	743	248	200	167	171	215	187	161
19.8	652	642	717	224	188	152	155	201	184	159
19.9	663	649	727	198	176	151	153	192	179	157
20	652	642	701	209	191	164	164	183	174	155
20.1	627	679	682	195	179	156	154	188	170	152
20.2	561	606	703	196	182	166	167	192	170	153
20.3	521	153	178	240	191	172	159	187	168	152
20.4	180	168	168	103	177	179	167	179	168	150
20.5	367	351	170	144	168	156	153	173	167	150
20.6	404	355	245	159	173	148	139	170	165	149
20.7	417	405	306	189	194	172	156	171	161	147
20.8	264	156	169	114	167	149	153	168	159	146
20.9	334	145	170	116	143	139	144	159	149	144
21	382	162	164	122	139	136	131	153	142	142
21.1	385	162	158	155	140	135	128	149	134	141
21.2	261	148	160	147	148	137	124	145	132	139
21.3	286	158	108	134	128	142	133	147	131	138
21.4	316	159	151	112	98	126	122	146	128	137
21.5	346	157	147	105	97	115	115	146	125	136
21.6	337	145	157	95	90	113	116	144	124	136
21.7	327	151	154	109	102	119	118	141	124	135
21.8	364	151	150	98	104	126	124	139	124	134
21.9	370	163	161	114	109	122	121	138	124	134
22	357	204	153	105	115	123	119	136	123	133
22.1	383	257	153	129	117	123	116	136	120	132
22.2	376	276	152	125	121	128	122	137	120	132
22.3	376	281	163	139	148	157	141	153	123	132
22.4	345	267	172	130	155	159	149	159	130	133
22.5	349	301	227	112	142	157	155	159	136	135
22.6	347	304	247	110	135	139	142	147	138	134
22.7	341	314	258	136	143	139	135	145	138	134
22.8	332	293	252	122	157	149	147	156	140	135
22.9	358	277	257	130	152	143	142	148	141	135
23	350	253	238	125	149	139	131	139	139	134
23.1	298	252	249	156	162	149	142	151	137	134
23.2	316	244	255	180	181	158	144	159	138	133
23.3	335	241	261	183	193	166	147	158	136	133
23.4	334	242	258	160	189	170	158	166	140	134
23.5	312	260	242	132	171	148	141	150	140	134
23.6	281	248	153	136	159	140	135	141	140	133
23.7	157	155	159	137	151	135	130	138	137	132

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
0	90	90	90	91	91	91	91	90	90	93
0.1	90	90	90	91	91	91	91	90	91	93
0.2	90	90	90	91	91	91	91	90	91	93
0.3	91	90	90	90	91	91	91	90	90	93
0.4	90	90	90	91	91	91	91	90	90	93
0.5	90	90	90	91	91	91	91	90	90	93
0.6	90	90	90	91	91	91	91	90	90	93
0.7	90	90	90	90	91	91	91	90	90	93
0.8	90	90	90	91	91	91	91	90	90	93
0.9	90	90	90	91	91	91	91	90	90	93
1	90	90	90	91	91	91	91	90	90	93
1.1	90	90	90	91	91	91	91	90	90	93
1.2	90	90	90	91	91	91	91	90	90	93
1.3	90	90	90	91	91	91	91	90	90	93
1.4	90	90	90	91	91	91	91	90	90	93
1.5	90	90	91	91	91	91	91	90	90	93
1.6	90	90	90	91	91	91	91	90	90	93
1.7	90	90	91	91	91	91	91	90	90	93
1.8	90	90	91	91	91	91	91	90	90	93
1.9	90	90	91	91	91	91	91	90	90	93
2	91	90	91	91	91	91	91	90	91	93
2.1	90	90	91	91	91	91	91	90	91	93
2.2	91	90	91	91	91	91	91	90	91	93
2.3	90	90	91	91	91	91	91	90	90	93
2.4	90	90	91	91	91	91	91	90	90	92
2.5	91	90	91	91	91	91	91	91	91	93
2.6	91	90	91	91	91	91	91	91	91	93
2.7	91	90	91	91	91	91	91	91	90	93
2.8	91	90	91	91	91	91	91	91	90	92
2.9	91	91	91	91	91	91	91	91	91	93
3	91	91	91	91	91	91	91	91	91	93
3.1	91	91	91	91	91	91	91	91	91	93
3.2	91	91	91	91	91	91	91	91	91	93
3.3	91	91	91	91	91	91	91	91	91	93
3.4	91	91	91	91	91	91	91	91	91	93
3.5	91	91	91	91	91	91	91	91	91	93
3.6	91	91	91	91	91	91	91	91	91	93
3.7	91	91	91	91	91	91	91	91	91	92
3.8	91	91	91	91	91	91	91	91	91	93
3.9	91	91	91	91	91	91	91	91	91	92
4	91	91	91	91	91	92	92	91	91	93
4.1	91	91	91	91	91	92	92	92	91	93
4.2	91	91	91	91	91	92	92	92	91	93
4.3	91	91	91	91	92	92	92	92	91	93
4.4	91	91	91	91	92	92	92	92	91	93
4.5	91	91	91	91	92	92	92	92	91	93
4.6	91	91	91	91	92	92	93	92	91	93
4.7	91	91	91	92	92	93	93	93	91	93
4.8	91	91	91	92	92	93	93	93	91	93
4.9	91	91	92	92	92	93	93	93	91	93
5	91	91	92	92	93	93	93	93	91	93
5.1	91	91	92	92	93	93	94	93	91	93
5.2	91	91	92	92	93	94	94	93	91	93
5.3	91	92	92	92	93	94	94	93	92	93
5.4	92	92	92	92	93	94	94	93	92	93
5.5	92	92	92	92	94	94	95	94	92	93
5.6	92	92	92	92	94	95	95	94	92	94
5.7	92	92	92	92	94	95	95	94	92	94
5.8	92	92	92	92	94	95	96	95	92	94
5.9	92	92	92	92	94	95	96	95	93	94
6	92	92	92	93	94	95	96	95	92	94
6.1	92	92	92	93	94	95	96	95	93	94
6.2	92	92	92	93	94	96	96	95	93	94
6.3	93	92	93	93	95	96	96	96	93	94
6.4	93	92	93	94	95	96	97	96	93	94
6.5	93	93	93	94	96	96	97	96	93	94
6.6	93	93	93	94	96	97	97	97	93	94
6.7	93	93	94	94	96	97	98	98	93	95
6.8	93	93	94	94	96	97	98	98	93	95
6.9	93	93	94	95	97	98	98	98	94	95
7	93	93	94	95	98	98	99	98	94	95
7.1	93	93	94	95	98	98	99	99	94	95
7.2	93	93	94	95	98	99	100	99	94	95
7.3	93	93	94	95	99	99	100	99	94	95
7.4	93	93	94	96	100	100	100	99	94	96
7.5	93	93	94	97	100	100	101	100	94	96
7.6	94	93	94	96	100	100	101	100	94	96
7.7	94	94	94	96	100	101	102	101	95	96
7.8	94	94	95	96	101	102	102	102	95	96
7.9	95	94	95	97	101	102	103	102	96	96
8	95	94	96	97	101	102	102	102	96	96
8.1	95	95	96	97	101	102	102	102	96	96
8.2	95	94	96	97	101	102	102	102	96	96
8.3	96	95	96	98	101	102	102	102	96	96
8.4	95	95	96	97	100	102	102	102	96	97
8.5	96	96	96	97	99	100	102	102	96	96
8.6	96	96	97	99	100	99	101	101	96	96

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
8.7	97	97	98	98	100	100	101	101	96	96
8.8	97	97	98	98	99	99	100	101	96	96
8.9	97	97	98	98	99	99	101	100	96	96
9	97	97	98	99	99	99	101	100	96	96
9.1	97	97	98	99	99	99	100	99	96	95
9.2	98	97	98	99	99	99	100	100	96	95
9.3	97	97	98	98	99	99	100	99	96	95
9.4	97	97	98	98	99	99	100	99	96	95
9.5	97	97	98	98	99	99	100	99	96	95
9.6	97	97	98	98	98	99	99	99	96	95
9.7	96	97	98	98	98	99	99	98	96	95
9.8	96	96	97	97	98	99	99	98	96	95
9.9	96	96	98	98	98	98	99	98	96	95
10	96	96	97	97	98	98	99	98	96	95
10.1	96	96	97	97	98	98	98	98	96	95
10.2	97	96	97	97	98	98	98	97	96	95
10.3	97	96	98	98	98	98	98	97	96	95
10.4	97	97	98	98	98	98	98	97	96	95
10.5	97	96	98	98	98	98	98	96	96	95
10.6	97	96	97	97	98	98	98	97	96	95
10.7	100	99	95	95	97	98	98	97	96	95
10.8	96	96	97	97	97	98	98	97	96	95
10.9	97	96	97	97	98	98	98	97	96	95
11	97	97	98	99	98	98	99	101	96	94
11.1	99	97	99	99	99	99	99	100	96	94
11.2	98	98	100	101	105	119	134	144	97	94
11.3	100	100	102	102	104	114	134	155	100	95
11.4	103	103	107	105	105	123	158	239	105	95
11.5	112	116	129	123	154	174	224	315	117	96
11.6	123	128	156	139	154	162	226	325	136	97
11.7	135	143	183	162	163	168	238	339	159	100
11.8	153	165	200	174	167	175	246	323	179	101
11.9	155	170	201	170	161	177	246	338	194	102
12	159	172	200	169	158	171	242	322	207	103
12.1	154	170	195	165	157	172	239	355	216	105
12.2	150	165	190	160	155	174	242	366	222	106
12.3	152	168	195	170	161	178	234	341	228	107
12.4	158	175	202	174	164	181	219	315	232	108
12.5	167	180	201	175	163	179	202	271	235	109
12.6	166	170	186	166	156	170	209	291	236	110
12.7	155	173	190	166	156	173	199	275	230	109
12.8	158	176	195	179	163	174	192	265	226	109
12.9	165	177	190	176	160	171	177	255	221	108
13	167	179	193	179	163	189	262	348	229	108
13.1	164	177	192	192	245	328	425	536	282	112
13.2	166	177	185	193	212	292	388	457	308	116
13.3	174	181	190	184	190	249	353	401	309	117
13.4	175	182	192	177	179	219	282	327	303	118
13.5	177	180	191	175	173	199	231	307	293	118
13.6	175	184	190	177	175	194	227	291	279	118
13.7	175	182	191	183	176	194	236	293	271	119
13.8	171	182	189	185	182	211	296	369	274	119
13.9	171	180	181	186	188	234	339	437	294	123
14	176	184	182	190	194	229	318	380	302	124
14.1	181	192	189	195	198	223	358	418	305	126
14.2	182	194	196	200	203	235	342	404	314	128
14.3	180	188	188	200	204	286	411	482	337	135
14.4	183	189	195	198	200	256	388	434	347	135
14.5	183	191	196	199	202	244	321	376	341	136
14.6	180	193	194	209	205	277	362	438	350	137
14.7	184	197	197	209	209	259	372	445	353	140
14.8	187	201	197	212	216	272	440	496	359	142
14.9	184	190	199	208	256	298	413	449	365	144
15	183	188	192	192	202	273	364	403	362	145
15.1	179	187	195	190	199	270	356	388	356	145
15.2	184	194	197	203	200	247	289	318	338	142
15.3	188	197	200	199	200	242	296	320	325	141
15.4	198	206	210	195	192	236	301	359	313	139
15.5	199	208	208	205	205	244	304	371	310	139
15.6	203	208	206	198	195	250	326	399	313	139
15.7	204	209	210	202	197	235	296	349	310	138
15.8	198	207	210	210	201	247	311	381	306	139
15.9	206	207	209	204	208	264	349	422	320	141
16	211	207	208	196	198	253	352	426	330	143
16.1	206	209	209	203	200	239	350	430	330	142
16.2	203	207	212	210	214	309	415	476	335	143
16.3	202	210	210	214	213	272	333	405	333	142
16.4	202	210	214	215	212	250	267	320	324	142
16.5	206	211	218	221	215	250	317	404	320	141
16.6	201	214	216	219	213	253	328	391	327	146
16.7	199	214	219	217	211	259	361	427	339	147
16.8	200	215	219	218	211	285	424	492	363	149
16.9	205	217	224	211	208	278	377	420	367	152
17	208	216	229	217	215	257	310	354	354	150
17.1	203	214	220	223	214	281	351	422	347	151
17.2	209	217	224	219	216	266	393	448	354	155
17.3	212	216	222	216	215	258	369	418	352	154
17.4	211	223	226	217	211	245	330	409	348	155

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
17.5	202	216	217	223	216	258	344	422	348	155
17.6	208	229	225	246	315	345	458	489	370	159
17.7	208	224	220	239	261	288	364	412	368	159
17.8	217	227	227	220	230	273	335	393	362	157
17.9	222	224	220	213	218	278	349	401	352	156
18	211	217	206	210	215	272	307	366	340	154
18.1	205	207	211	204	214	282	357	402	340	153
18.2	195	201	202	199	249	314	363	412	340	153
18.3	192	202	199	214	271	367	442	476	356	156
18.4	190	196	192	193	235	312	402	436	358	158
18.5	189	191	186	185	205	258	350	379	347	157
18.6	170	176	167	172	191	273	322	353	332	156
18.7	168	170	157	159	188	279	323	339	319	154
18.8	170	168	156	155	165	230	287	309	306	153
18.9	161	163	149	152	158	208	278	306	292	153
19	155	157	144	153	154	206	268	309	282	152
19.1	156	153	142	143	145	189	246	272	269	150
19.2	152	151	138	141	141	184	225	246	257	148
19.3	148	146	136	139	139	180	218	241	245	146
19.4	145	145	136	142	138	171	202	222	236	144
19.5	142	147	134	136	132	162	183	210	226	143
19.6	137	142	132	137	132	154	175	203	216	142
19.7	135	141	133	133	129	147	168	195	211	140
19.8	135	142	132	134	131	146	165	187	204	139
19.9	137	141	129	136	130	148	164	194	197	139
20	138	142	129	132	127	149	176	193	192	137
20.1	139	142	125	130	135	163	185	200	190	137
20.2	144	140	130	123	126	152	168	188	186	136
20.3	138	136	127	124	121	144	160	181	183	135
20.4	132	133	121	124	120	141	159	174	179	135
20.5	132	132	120	120	118	138	147	163	175	134
20.6	135	134	120	116	114	135	139	163	170	133
20.7	130	133	119	120	119	137	139	159	167	132
20.8	137	138	128	129	135	142	144	159	163	131
20.9	139	137	127	128	138	147	152	159	159	130
21	135	135	121	127	130	143	145	155	156	130
21.1	135	137	123	128	132	146	146	155	153	129
21.2	132	137	120	122	125	139	134	151	151	128
21.3	131	137	124	123	132	145	143	148	149	128
21.4	129	131	119	114	123	141	140	147	147	127
21.5	127	128	115	111	120	135	141	146	146	127
21.6	123	124	111	109	117	134	139	145	144	127
21.7	118	126	108	106	112	133	138	142	143	127
21.8	119	127	111	110	120	138	141	147	143	127
21.9	125	129	117	120	136	152	156	162	145	127
22	124	129	116	123	132	151	160	163	146	127
22.1	120	128	114	121	125	144	149	152	145	127
22.2	117	126	112	119	119	136	144	149	144	127
22.3	118	122	110	113	110	130	136	141	143	127
22.4	116	122	109	112	109	128	130	138	141	126
22.5	114	120	107	110	106	123	125	135	140	126
22.6	114	121	109	111	106	121	125	132	139	126
22.7	114	120	108	111	108	121	126	133	139	126
22.8	115	119	108	109	105	117	121	135	137	126
22.9	117	123	106	108	104	114	118	138	136	125
23	115	119	105	105	105	118	123	133	135	125
23.1	114	120	105	108	109	122	122	129	133	124
23.2	113	121	105	110	110	120	118	129	132	124
23.3	110	118	104	110	108	122	119	128	130	123
23.4	111	118	104	108	105	125	120	128	129	123
23.5	112	120	105	112	107	121	119	131	127	122
23.6	111	122	107	114	109	122	119	128	127	122
23.7	102	120	106	110	107	124	121	124	126	122

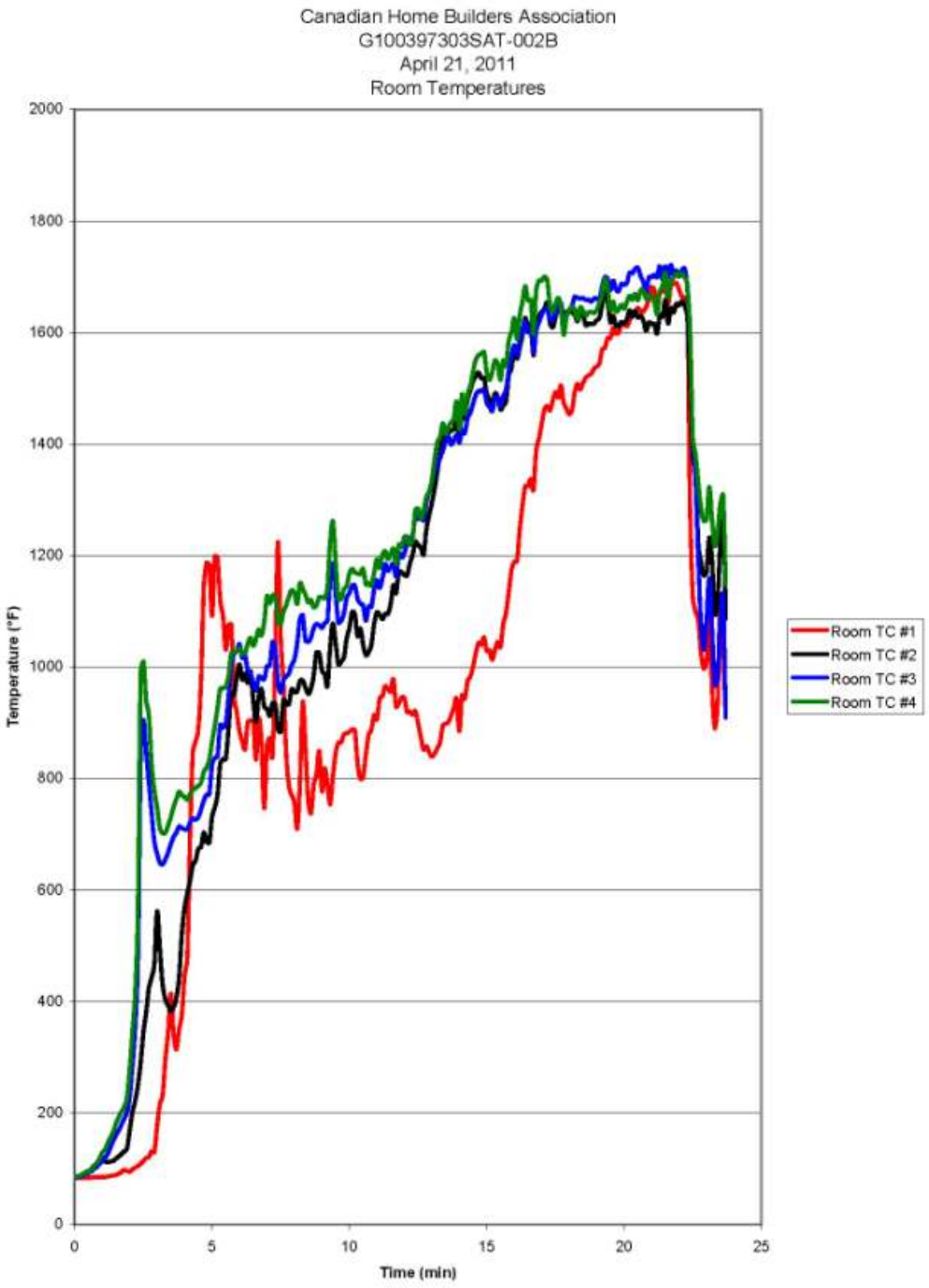
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
0	91	92	0.00	0.00	0.00	0.00	0.00
0.1	91	92	0.02	0.02	0.02	0.00	-0.02
0.2	91	92	0.00	0.00	0.02	-0.05	-0.07
0.3	91	92	0.02	0.00	0.02	-0.02	-0.05
0.4	91	92	0.00	0.02	0.02	-0.02	-0.05
0.5	91	92	0.02	0.02	0.05	0.00	0.00
0.6	91	92	0.02	0.02	0.05	0.05	0.02
0.7	91	92	0.00	0.00	0.02	0.02	0.02
0.8	91	92	0.02	0.00	0.02	0.00	0.00
0.9	91	92	0.02	0.00	0.02	-0.02	-0.05
1	91	92	0.02	0.05	0.07	0.00	-0.02
1.1	91	92	0.02	0.05	0.07	-0.05	-0.02
1.2	91	92	0.05	0.05	0.07	-0.02	0.00
1.3	91	92	0.02	0.05	0.07	0.00	0.00
1.4	91	92	0.00	0.00	0.05	-0.02	-0.05
1.5	91	92	0.02	0.00	0.02	-0.02	-0.02
1.6	91	92	0.02	0.02	0.02	-0.07	-0.07
1.7	91	92	0.02	0.02	0.05	-0.05	-0.02
1.8	91	92	0.02	0.05	0.07	-0.02	-0.02
1.9	91	92	0.02	0.02	0.07	0.02	0.02
2	91	92	0.05	0.05	0.07	0.00	-0.02
2.1	91	92	0.02	0.02	0.07	0.02	-0.02
2.2	91	92	0.02	0.05	0.10	-0.02	-0.05
2.3	91	92	0.02	0.02	0.07	-0.02	-0.05
2.4	91	92	0.02	0.05	0.10	0.05	0.02
2.5	91	92	0.02	0.02	0.07	0.05	0.05
2.6	91	92	0.05	0.02	0.07	0.05	0.00
2.7	91	92	0.05	0.05	0.10	0.05	0.02
2.8	91	92	0.05	0.07	0.10	0.07	0.07
2.9	91	92	0.07	0.07	0.12	0.12	0.12
3	91	92	0.05	0.07	0.12	0.09	0.09
3.1	91	92	0.05	0.07	0.12	0.12	0.07
3.2	91	92	0.05	0.07	0.12	0.16	0.09
3.3	91	92	0.05	0.10	0.14	0.12	0.12
3.4	91	92	0.10	0.10	0.14	0.14	0.14
3.5	91	93	0.10	0.12	0.17	0.14	0.14
3.6	91	93	0.10	0.10	0.17	0.19	0.14
3.7	91	93	0.10	0.12	0.17	0.16	0.12
3.8	91	93	0.10	0.12	0.19	0.16	0.14
3.9	91	93	0.12	0.12	0.21	0.21	0.19
4	91	93	0.15	0.15	0.24	0.26	0.21
4.1	91	93	0.12	0.12	0.24	0.23	0.19
4.2	91	92	0.12	0.12	0.24	0.28	0.21
4.3	91	92	0.12	0.15	0.26	0.26	0.21
4.4	91	93	0.15	0.17	0.29	0.28	0.26
4.5	92	93	0.20	0.20	0.31	0.35	0.28
4.6	92	93	0.17	0.20	0.31	0.37	0.30
4.7	92	93	0.20	0.22	0.33	0.40	0.33
4.8	92	93	0.20	0.25	0.36	0.40	0.30
4.9	92	94	0.22	0.27	0.39	0.40	0.35
5	92	94	0.22	0.25	0.39	0.47	0.39
5.1	92	94	0.27	0.30	0.43	0.47	0.42
5.2	92	94	0.25	0.30	0.43	0.49	0.46
5.3	92	95	0.27	0.32	0.48	0.54	0.49
5.4	92	95	0.30	0.32	0.50	0.54	0.51
5.5	92	95	0.27	0.32	0.50	0.58	0.53
5.6	92	95	0.30	0.35	0.53	0.63	0.56
5.7	92	96	0.32	0.35	0.53	0.68	0.56
5.8	92	96	0.32	0.40	0.57	0.70	0.60
5.9	92	97	0.32	0.40	0.57	0.73	0.63
6	92	97	0.32	0.40	0.60	0.73	0.63
6.1	92	97	0.35	0.42	0.62	0.73	0.63
6.2	92	97	0.35	0.42	0.62	0.75	0.67
6.3	92	98	0.37	0.45	0.64	0.82	0.72
6.4	92	98	0.40	0.47	0.67	0.84	0.77
6.5	92	98	0.45	0.47	0.72	0.87	0.77
6.6	93	99	0.47	0.49	0.74	0.91	0.81
6.7	92	100	0.47	0.52	0.76	0.96	0.86
6.8	93	100	0.47	0.54	0.79	0.96	0.86
6.9	93	101	0.50	0.57	0.84	1.01	0.91
7	93	101	0.52	0.59	0.86	1.03	0.93
7.1	93	101	0.52	0.59	0.86	1.05	0.93
7.2	93	101	0.55	0.62	0.91	1.08	0.95
7.3	93	101	0.55	0.64	0.91	1.10	0.98
7.4	93	102	0.60	0.69	0.96	1.10	1.00
7.5	93	102	0.62	0.72	0.98	1.15	1.02
7.6	93	102	0.62	0.72	1.00	1.22	1.07
7.7	94	102	0.65	0.74	1.00	1.22	1.09
7.8	94	103	0.67	0.77	1.07	1.29	1.12
7.9	94	104	0.67	0.79	1.12	1.31	1.16
8	94	104	0.70	0.79	1.12	1.31	1.16
8.1	95	104	0.72	0.79	1.15	1.39	1.23
8.2	95	105	0.70	0.82	1.17	1.43	1.28
8.3	95	105	0.72	0.84	1.19	1.40	1.23
8.4	94	103	0.74	0.89	1.22	1.43	1.28
8.5	95	100	0.72	0.84	1.24	1.57	1.39
8.6	96	99	0.74	0.89	1.27	1.59	1.35

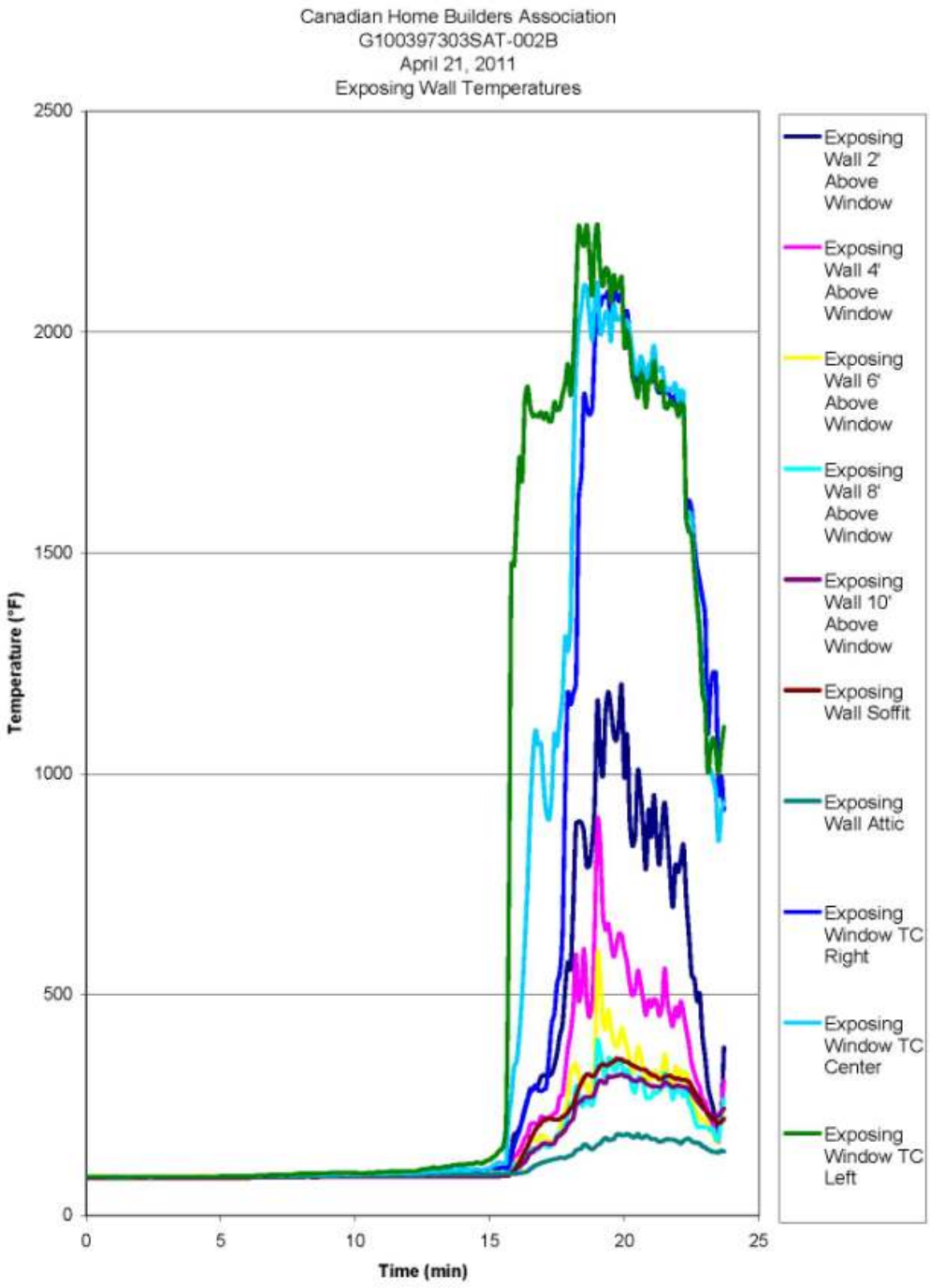
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
8.7	97	98	0.74	0.89	1.29	1.64	1.39
8.8	97	98	0.77	0.94	1.31	1.64	1.42
8.9	98	98	0.79	0.96	1.34	1.68	1.49
9	98	98	0.82	0.99	1.36	1.68	1.53
9.1	98	97	0.84	1.01	1.41	1.73	1.58
9.2	97	97	0.87	1.01	1.41	1.80	1.63
9.3	97	97	0.92	1.06	1.46	1.89	1.67
9.4	97	98	0.92	1.06	1.50	1.92	1.67
9.5	97	98	0.94	1.06	1.50	1.96	1.70
9.6	97	97	0.97	1.11	1.55	1.99	1.74
9.7	97	97	0.99	1.14	1.60	2.03	1.79
9.8	96	99	1.02	1.19	1.65	2.08	1.86
9.9	96	98	1.02	1.19	1.65	2.06	1.89
10	96	98	1.04	1.21	1.67	2.15	1.95
10.1	96	97	1.02	1.19	1.67	2.20	2.00
10.2	96	97	1.02	1.21	1.70	2.22	1.97
10.3	96	97	1.07	1.26	1.70	2.25	1.97
10.4	96	96	1.09	1.26	1.72	2.29	1.97
10.5	95	96	1.09	1.24	1.72	2.25	2.00
10.6	95	96	1.12	1.26	1.72	2.34	2.07
10.7	95	96	1.14	1.31	1.79	2.32	2.04
10.8	96	96	1.14	1.31	1.79	2.39	2.11
10.9	96	96	1.17	1.31	1.81	2.41	2.11
11	96	95	1.17	1.31	1.84	2.43	2.16
11.1	95	95	1.19	1.36	1.91	2.46	2.14
11.2	95	95	1.22	1.36	2.75	2.48	2.21
11.3	95	95	1.24	1.36	3.58	2.46	2.28
11.4	95	95	1.24	1.38	2.48	2.50	2.25
11.5	96	95	1.28	1.51	8.79	2.67	2.49
11.6	96	95	1.34	1.61	11.80	2.71	2.53
11.7	96	95	1.34	1.58	11.13	2.83	2.60
11.8	97	96	1.46	1.68	13.01	2.95	2.76
11.9	96	96	1.54	1.76	13.35	2.99	2.79
12	96	97	1.56	1.78	12.61	3.09	2.90
12.1	97	97	1.59	1.88	11.61	3.18	3.00
12.2	97	97	1.66	1.95	11.87	3.25	3.07
12.3	97	97	1.74	2.03	11.73	3.41	3.18
12.4	97	97	1.84	2.15	11.96	3.58	3.37
12.5	98	97	1.86	2.18	8.26	3.60	3.44
12.6	99	99	1.91	2.30	11.20	3.77	3.55
12.7	99	99	1.99	2.35	12.04	3.84	3.67
12.8	98	98	2.06	2.42	12.01	4.02	3.86
12.9	99	99	2.11	2.50	10.79	4.12	3.95
13	100	100	2.19	2.52	11.92	4.28	4.11
13.1	100	100	2.28	2.65	12.15	4.40	4.18
13.2	99	99	2.33	2.72	13.23	4.54	4.41
13.3	99	99	2.41	2.82	11.56	4.65	4.51
13.4	99	101	2.51	2.92	9.55	4.72	4.60
13.5	99	101	2.56	2.99	10.27	4.84	4.74
13.6	100	100	2.61	3.07	9.58	4.91	4.79
13.7	101	100	2.66	3.12	12.44	5.09	4.92
13.8	102	100	2.76	3.21	9.93	5.15	4.97
13.9	102	100	2.83	3.26	11.10	5.26	5.16
14	102	101	2.83	3.31	12.94	5.38	5.18
14.1	102	101	2.93	3.41	12.11	5.47	5.37
14.2	103	101	2.99	3.46	13.61	5.57	5.46
14.3	103	101	3.05	3.54	11.85	5.66	5.53
14.4	103	101	3.13	3.64	14.81	5.73	5.67
14.5	103	102	3.15	3.71	12.51	5.73	5.62
14.6	102	103	3.23	3.78	12.97	5.82	5.78
14.7	102	103	3.25	3.86	13.61	5.94	5.83
14.8	103	103	3.33	3.88	13.16	5.99	5.85
14.9	103	103	3.38	3.93	12.39	6.06	5.92
15	104	102	3.43	3.98	12.90	6.15	5.99
15.1	103	102	3.45	4.03	13.30	6.25	6.11
15.2	103	102	3.48	4.08	13.85	6.27	6.18
15.3	103	102	3.58	4.15	12.97	6.36	6.23
15.4	104	103	3.63	4.25	13.04	6.41	6.30
15.5	103	103	3.67	4.28	12.39	6.46	6.34
15.6	103	103	3.70	4.33	12.42	6.60	6.46
15.7	103	102	3.75	4.38	13.66	6.62	6.50
15.8	104	102	3.80	4.45	13.47	6.69	6.55
15.9	104	103	3.85	4.50	12.90	6.76	6.62
16	104	104	3.92	4.58	14.66	6.85	6.71
16.1	104	105	4.00	4.67	16.88	6.95	6.81
16.2	105	106	4.02	4.72	13.33	7.04	6.88
16.3	105	106	4.05	4.75	12.44	6.99	6.90
16.4	105	105	4.10	4.82	14.69	7.06	7.02
16.5	107	105	4.12	4.87	14.40	7.13	7.02
16.6	107	105	4.17	4.87	13.66	7.13	7.02
16.7	106	105	4.22	4.95	16.52	7.23	7.15
16.8	105	104	4.27	4.97	17.31	7.32	7.25
16.9	106	104	4.32	5.04	15.19	7.44	7.27
17	106	104	4.37	5.09	15.83	7.46	7.34
17.1	107	105	4.42	5.14	15.62	7.55	7.43
17.2	108	105	4.44	5.22	15.59	7.55	7.50
17.3	105	104	4.47	5.22	14.71	7.63	7.55
17.4	105	104	4.54	5.29	13.59	7.70	7.57

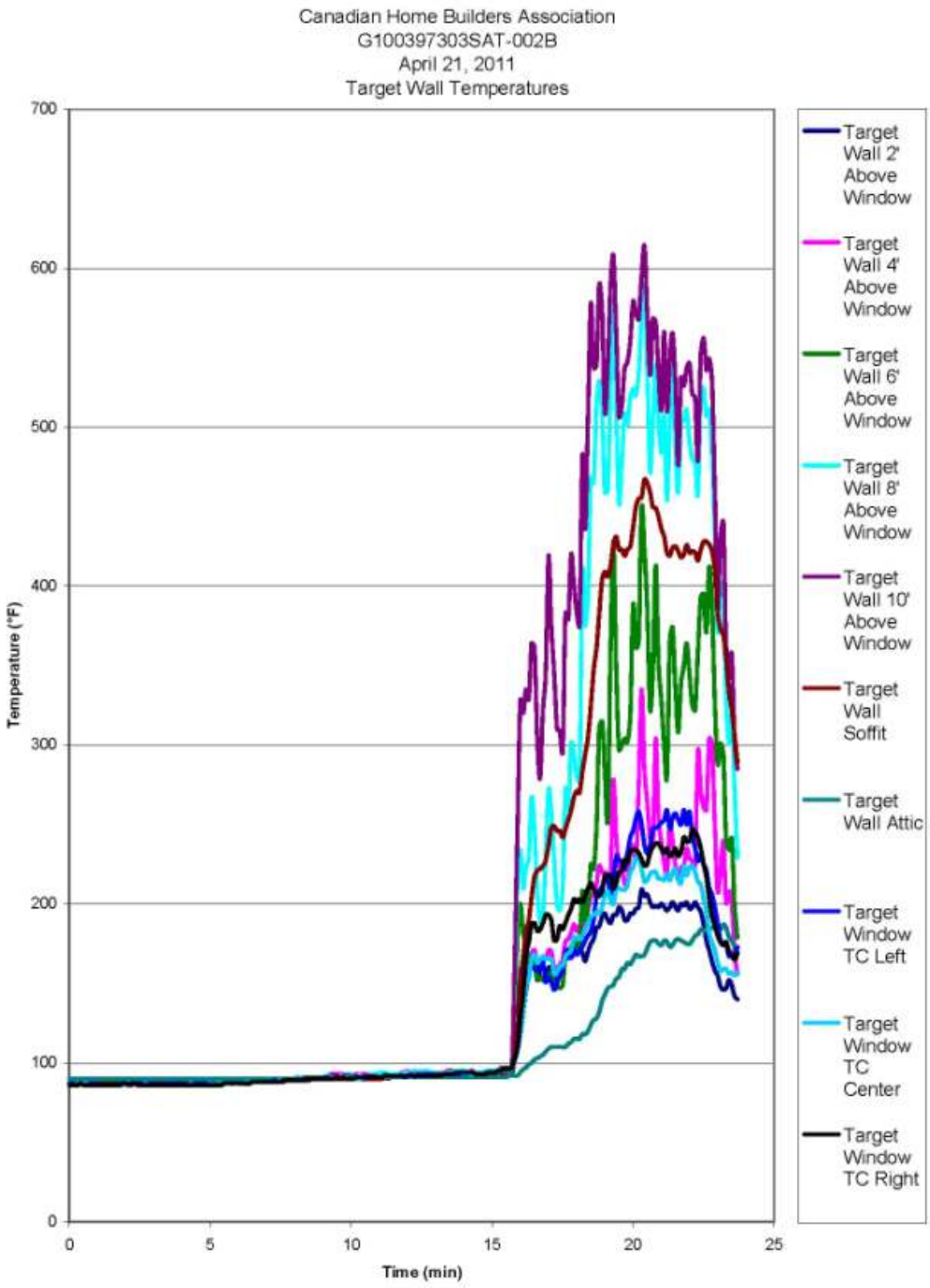
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
17.5	106	105	4.62	5.37	15.45	7.72	7.67
17.6	106	104	4.64	5.39	15.67	7.77	7.76
17.7	106	104	4.67	5.42	14.42	7.77	7.69
17.8	106	104	4.69	5.44	14.89	7.81	7.78
17.9	107	104	4.74	5.51	13.44	7.86	7.78
18	107	105	4.77	5.54	12.90	7.84	7.76
18.1	107	105	4.82	5.61	14.59	7.91	7.85
18.2	107	105	4.84	5.64	14.90	7.91	7.90
18.3	106	105	4.89	5.66	13.99	7.84	7.76
18.4	105	105	4.87	5.64	12.37	7.81	7.81
18.5	105	104	4.87	5.64	10.29	7.84	7.76
18.6	105	105	4.89	5.69	9.48	7.74	7.74
18.7	104	106	4.92	5.84	9.38	7.72	7.67
18.8	104	106	4.89	5.64	9.10	7.67	7.60
18.9	104	105	4.87	5.59	8.74	7.63	7.55
19	103	104	4.84	5.56	8.45	7.58	7.48
19.1	102	103	4.82	5.54	8.33	7.41	7.39
19.2	102	102	4.82	5.54	8.19	7.41	7.34
19.3	102	102	4.82	5.51	7.83	7.32	7.22
19.4	102	102	4.79	5.44	8.00	7.25	7.15
19.5	102	101	4.72	5.39	7.71	7.13	7.04
19.6	101	101	4.74	5.39	7.50	7.06	6.97
19.7	101	100	4.74	5.37	7.31	6.97	6.83
19.8	101	101	4.69	5.32	7.43	6.90	6.81
19.9	101	101	4.64	5.24	7.14	6.81	6.69
20	100	101	4.62	5.17	6.97	6.69	6.57
20.1	100	100	4.59	5.12	6.83	6.60	6.50
20.2	100	100	4.57	5.09	6.84	6.53	6.43
20.3	100	99	4.52	5.04	6.52	6.43	6.32
20.4	99	99	4.49	5.02	6.38	6.36	6.20
20.5	99	99	4.44	4.95	6.26	6.32	6.13
20.6	98	99	4.47	4.95	5.99	6.25	6.09
20.7	98	99	4.39	4.90	5.99	6.08	5.95
20.8	97	98	4.39	4.82	7.88	5.96	5.83
20.9	95	97	4.32	4.80	5.40	5.89	5.81
21	94	96	4.32	4.75	6.11	5.85	5.69
21.1	94	95	4.25	4.67	5.64	5.73	5.62
21.2	93	95	4.07	4.53	5.37	5.57	5.53
21.3	93	94	4.05	4.38	5.09	5.47	5.48
21.4	93	94	4.02	4.33	5.01	5.39	5.34
21.5	93	94	3.95	4.15	4.73	5.17	5.23
21.6	93	94	3.77	4.08	4.58	5.05	5.13
21.7	93	94	3.75	3.98	4.51	4.87	4.92
21.8	93	94	3.67	3.88	4.20	4.77	4.83
21.9	93	94	3.60	3.78	4.37	4.70	4.74
22	93	93	3.55	3.68	3.89	4.65	4.67
22.1	94	94	3.48	3.59	3.75	4.56	4.55
22.2	94	94	3.33	3.39	3.80	4.44	4.48
22.3	96	94	3.23	3.26	3.37	4.26	4.25
22.4	96	94	3.20	3.21	3.41	4.12	4.13
22.5	96	95	3.18	3.21	3.22	4.02	4.00
22.6	95	95	3.13	3.12	3.20	3.93	3.99
22.7	95	95	3.05	3.04	3.03	3.88	3.79
22.8	94	95	2.93	2.92	2.84	3.77	3.76
22.9	94	93	2.83	2.82	2.87	3.72	3.62
23	94	93	2.81	2.70	2.94	3.59	3.51
23.1	94	93	2.78	2.62	2.72	3.51	3.41
23.2	95	93	2.63	2.57	2.58	3.44	3.37
23.3	95	93	2.56	2.45	2.34	3.34	3.16
23.4	95	93	2.58	2.40	2.29	3.27	3.11
23.5	94	93	2.51	2.37	2.27	3.04	2.90
23.6	94	92	2.46	2.28	2.36	2.97	2.86
23.7	94	93	2.43	2.25	2.13	2.97	2.81

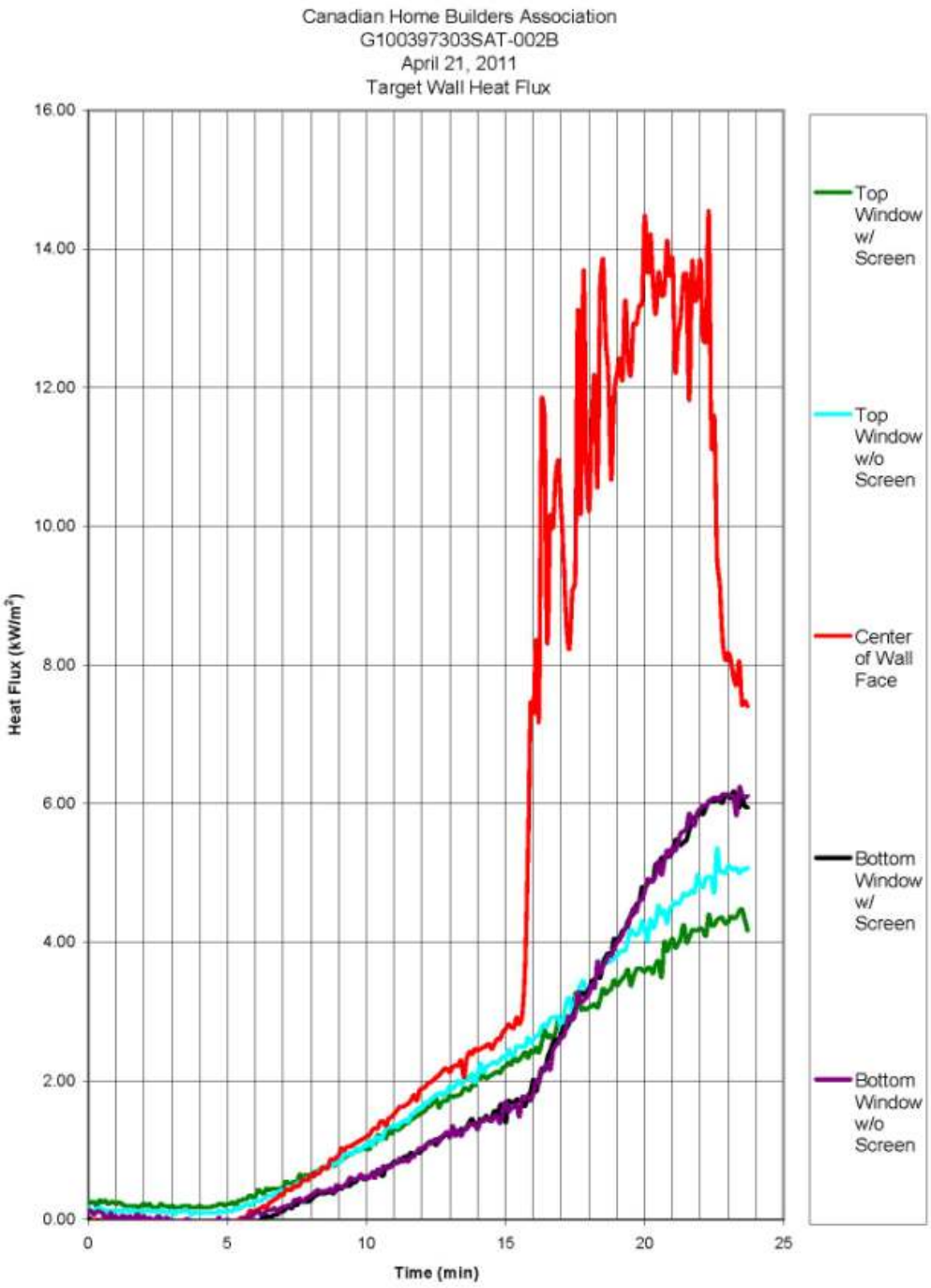
APPENDIX E

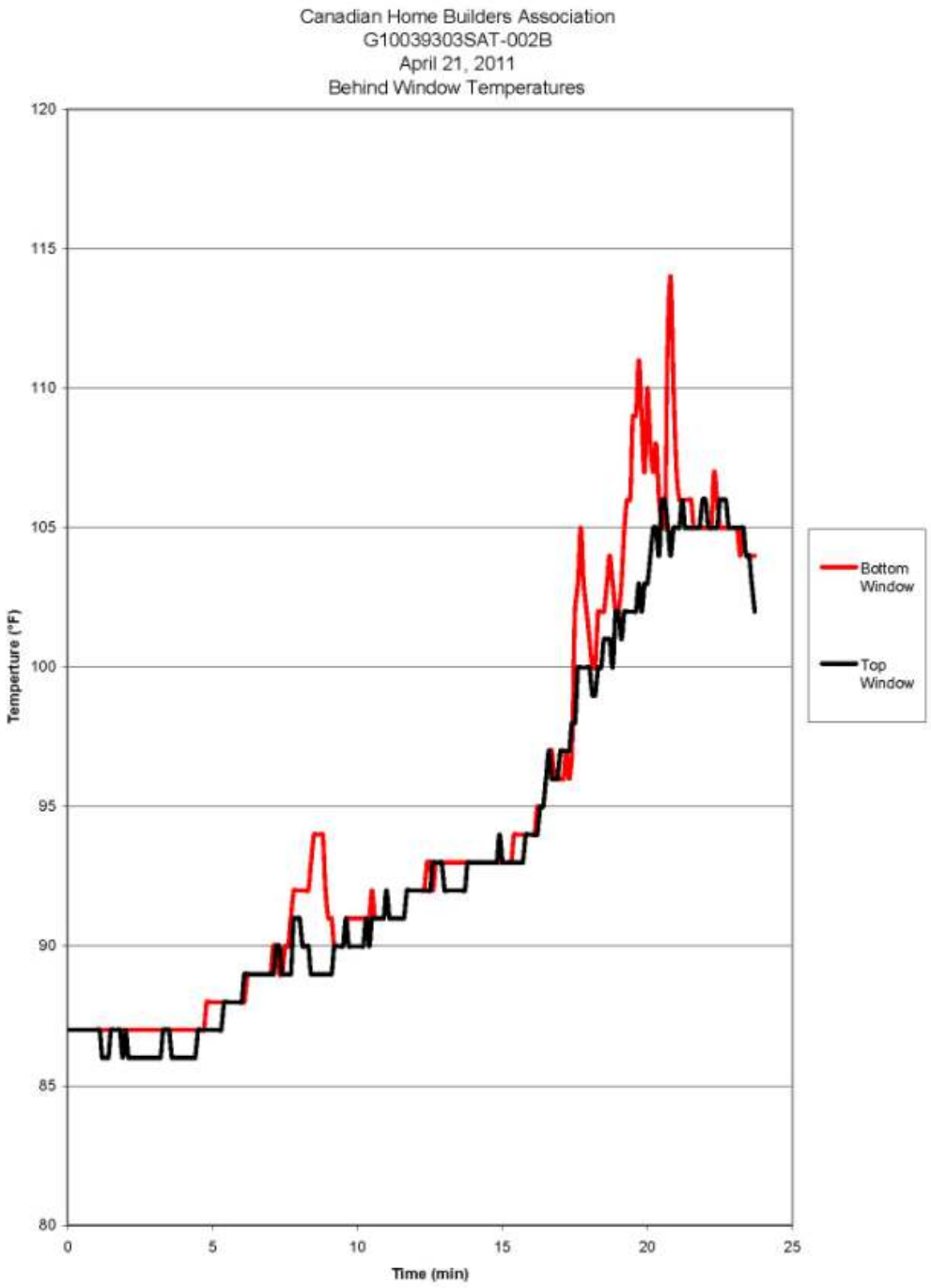
Test B Data


Canadian Home Builders Association
G100397303SAT-002B
April 21, 2011
Room Temperatures
Temperature (°F)
Time (min)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
5
10
15
20
25
Room TC #1
Room TC #2
Room TC #3
Room TC #4


Canadian Home Builders Association
G100397303SAT-002B
April 21, 2011
Exposing Wall Temperatures
Temperature (°F)
2500
2000
1500
1000
500
0
0
5
10
15
20
25
Time (min)
Exposing Wall 2' Above Window
Exposing Wall 4' Above Window
Exposing Wall 6' Above Window
Exposing Wall 8' Above Window
Exposing Wall 10' Above Window
Exposing Wall Soffit
Exposing Wall Attic
Exposing Window TC Right
Exposing Window TC Center
Exposing Window TC Left


Canadian Home Builders Association
G100397303SAT-002B
April 21, 2011
Target Wall Temperatures
Temperature (°F)
Time (min)
0
100
200
300
400
500
600
700
0
5
10
15
20
25
Target Wall 2' Above Window
Target Wall 4' Above Window
Target Wall 6' Above Window
Target Wall 8' Above Window
Target Wall 10' Above Window
Target Wall Soffit
Target Wall Attic
Target Window TC Left
Target Window TC Center
Target Window TC Right


Canadian Home Builders Association
G100397303SAT-002B
April 21, 2011
Target Wall Heat Flux
Heat Flux (kW/m²)
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
5
10
15
20
25
Time (min)
Top Window w/ Screen
Top Window w/o Screen
Center of Wall Face
Bottom Window w/ Screen
Bottom Window w/o Screen


Canadian Home Builders Association
G10039303SAT-002B
April 21, 2011
Behind Window Temperatures
Temperture (°F)
120
115
110
105
100
95
90
85
80
0
5
10
15
20
25
Time (min)
Bottom Window
Top Window

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)	
0	84	84	84	86	
0.1	84	86	85	87	
0.2	84	88	86	88	
0.3	84	90	88	91	
0.4	84	94	91	93	
0.5	84	96	92	95	
0.6	84	98	95	100	
0.7	85	102	100	105	
0.8	85	106	103	110	
0.9	85	111	109	118	
1	85	115	113	129	
1.1	85	113	120	134	
1.2	86	112	126	146	
1.3	87	113	138	156	
1.4	88	114	150	166	
1.5	89	118	160	181	
1.6	91	122	169	192	
1.7	94	126	179	202	
1.8	98	131	190	211	
1.9	96	136	200	227	
2	95	168	229	277	
2.1	99	201	284	345	
2.2	102	222	351	415	
2.3	105	250	470	560	
2.4	109	290	831	989	
2.5	114	344	905	1010	
2.6	119	380	847	941	
2.7	121	424	793	913	
2.8	131	443	738	825	
2.9	130	467	687	778	
3	177	562	665	746	
3.1	216	495	649	711	
3.2	232	430	646	702	
3.3	295	404	655	703	
3.4	345	393	667	716	
3.5	414	383	683	731	
3.6	340	390	695	749	
3.7	314	407	703	763	
3.8	350	443	714	776	
3.9	376	521	711	770	
4	447	568	709	767	
4.1	480	594	709	762	
4.2	694	617	721	772	
4.3	847	645	728	779	
4.4	868	653	726	783	
4.5	889	674	731	787	
4.6	976	677	745	793	
4.7	1144	703	761	812	
4.8	1187	686	771	820	
4.9	1193	695	772	834	
5	1092	732	825	866	
5.1	1198	748	837	884	
5.2	1195	771	840	927	
5.3	1119	827	898	961	
5.4	1091	935	891	962	
5.5	1031	835	898	965	
5.6	1075	891	948	983	
5.7	1078	955	1003	1025	
5.8	948	950	1023	1026	
5.9	918	983	1029	1029	
6	884	1005	1041	1034	
6.1	867	977	1016	1024	
6.2	853	989	1022	1024	
6.3	901	971	994	1042	
6.4	904	992	989	1052	
6.5	902	939	971	1038	
6.6	834	902	958	1051	
6.7	908	947	983	1067	
6.8	866	961	980	1057	
6.9	747	929	978	1082	
7	857	925	1001	1127	
7.1	873	912	1003	1115	
7.2	840	935	1045	1128	
7.3	1022	934	1034	1129	
7.4	1224	889	972	1081	
7.5	1052	884	954	1077	
7.6	968	941	976	1099	
7.7	845	933	983	1111	
7.8	786	934	989	1127	
7.9	770	960	1004	1138	
8	758	955	1014	1133	
8.1	710	956	1043	1113	
8.2	794	975	1086	1150	
8.3	937	976	1093	1140	
8.4	855	963	1048	1129	
8.5	761	952	1045	1116	
8.6	737	961	1053	1120	

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
8.7	789	985	1070	1107
8.8	807	1026	1077	1111
8.9	849	1025	1075	1125
9	777	993	1070	1125
9.1	818	988	1079	1124
9.2	789	966	1083	1143
9.3	754	1037	1156	1225
9.4	804	1078	1185	1261
9.5	846	1042	1130	1188
9.6	864	1005	1080	1122
9.7	865	1010	1083	1122
9.8	879	1017	1096	1140
9.9	881	1051	1124	1145
10	884	1070	1133	1168
10.1	888	1099	1146	1176
10.2	886	1094	1146	1169
10.3	825	1055	1122	1168
10.4	799	1069	1114	1167
10.5	803	1039	1110	1176
10.6	844	1021	1093	1149
10.7	878	1027	1109	1151
10.8	888	1040	1108	1146
10.9	914	1078	1139	1169
11	906	1098	1156	1193
11.1	943	1094	1142	1179
11.2	948	1086	1159	1201
11.3	965	1095	1184	1208
11.4	962	1095	1172	1193
11.5	956	1113	1178	1202
11.6	978	1147	1185	1212
11.7	929	1132	1163	1185
11.8	936	1171	1204	1220
11.9	945	1170	1196	1215
12	945	1165	1204	1233
12.1	919	1164	1221	1233
12.2	920	1186	1231	1219
12.3	914	1201	1236	1231
12.4	921	1224	1271	1282
12.5	899	1219	1265	1284
12.6	874	1214	1274	1266
12.7	852	1202	1263	1280
12.8	858	1246	1294	1305
12.9	847	1272	1315	1314
13	839	1294	1332	1335
13.1	845	1320	1349	1372
13.2	854	1351	1362	1403
13.3	868	1382	1375	1412
13.4	895	1413	1388	1437
13.5	898	1408	1404	1418
13.6	901	1420	1414	1430
13.7	913	1424	1399	1439
13.8	927	1427	1407	1445
13.9	943	1440	1416	1476
14	885	1416	1402	1426
14.1	948	1458	1425	1489
14.2	943	1446	1420	1454
14.3	974	1479	1446	1489
14.4	983	1497	1456	1504
14.5	1000	1513	1472	1530
14.6	1025	1522	1488	1551
14.7	1043	1528	1495	1559
14.8	1040	1518	1494	1562
14.9	1053	1518	1498	1565
15	1029	1490	1473	1528
15.1	1030	1480	1467	1515
15.2	1013	1468	1459	1530
15.3	1031	1491	1481	1550
15.4	1045	1484	1485	1543
15.5	1038	1482	1488	1515
15.6	1077	1489	1486	1550
15.7	1097	1478	1497	1541
15.8	1135	1523	1532	1585
15.9	1174	1537	1556	1601
16	1189	1574	1577	1626
16.1	1190	1553	1560	1588
16.2	1246	1573	1583	1630
16.3	1290	1597	1604	1656
16.4	1324	1626	1620	1683
16.5	1324	1608	1600	1657
16.6	1337	1616	1605	1659
16.7	1318	1559	1564	1597
16.8	1388	1607	1604	1676
16.9	1410	1628	1618	1693
17	1437	1637	1632	1693
17.1	1462	1643	1641	1700
17.2	1468	1653	1642	1694
17.3	1460	1617	1624	1648
17.4	1478	1609	1622	1637

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
17.5	1493	1627	1637	1652
17.6	1483	1651	1638	1662
17.7	1505	1642	1653	1646
17.8	1474	1608	1621	1596
17.9	1463	1637	1634	1628
18	1453	1636	1638	1640
18.1	1460	1636	1648	1647
18.2	1492	1632	1664	1641
18.3	1508	1620	1662	1624
18.4	1498	1634	1661	1645
18.5	1509	1634	1662	1639
18.6	1519	1613	1658	1630
18.7	1523	1618	1659	1636
18.8	1526	1615	1655	1637
18.9	1535	1616	1661	1635
19	1539	1622	1661	1640
19.1	1545	1626	1659	1654
19.2	1569	1651	1683	1669
19.3	1573	1674	1699	1697
19.4	1590	1656	1696	1679
19.5	1580	1618	1676	1640
19.6	1608	1630	1693	1655
19.7	1598	1613	1678	1638
19.8	1600	1611	1674	1641
19.9	1614	1619	1687	1650
20	1617	1618	1685	1643
20.1	1611	1624	1689	1655
20.2	1622	1640	1707	1666
20.3	1633	1628	1706	1659
20.4	1638	1638	1714	1669
20.5	1644	1627	1716	1658
20.6	1638	1630	1701	1676
20.7	1638	1622	1690	1675
20.8	1646	1603	1672	1660
20.9	1659	1618	1699	1665
21	1661	1615	1699	1666
21.1	1676	1615	1704	1654
21.2	1652	1598	1699	1633
21.3	1672	1632	1719	1673
21.4	1674	1628	1695	1693
21.5	1689	1658	1719	1707
21.6	1651	1618	1699	1663
21.7	1685	1644	1721	1692
21.8	1687	1636	1704	1698
21.9	1689	1651	1711	1705
22	1677	1649	1701	1703
22.1	1664	1658	1712	1706
22.2	1662	1648	1715	1699
22.3	1657	1628	1681	1686
22.4	1286	1509	1587	1596
22.5	1126	1378	1406	1410
22.6	1099	1349	1334	1381
22.7	1084	1221	1191	1329
22.8	1024	1187	1076	1285
22.9	997	1164	1031	1262
23	1010	1170	1089	1265
23.1	1111	1232	1159	1323
23.2	962	1191	1068	1264
23.3	890	1095	968	1217
23.4	932	1122	986	1241
23.5	1120	1219	1076	1292
23.6	1027	1288	1126	1308
23.7	909	1087	911	1148

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
0	88	88	88	88	88	88	87	86	87	88
0.1	88	88	88	88	88	88	87	86	87	88
0.2	88	88	88	88	88	88	87	86	87	88
0.3	88	88	88	88	88	88	87	86	87	88
0.4	88	88	88	88	88	89	87	86	87	88
0.5	88	88	88	88	88	88	87	86	87	88
0.6	88	88	88	88	88	88	88	86	87	88
0.7	88	88	88	88	88	88	87	86	87	88
0.8	87	88	88	88	88	88	87	86	87	88
0.9	86	88	88	88	88	88	87	86	87	88
1	87	87	88	88	88	88	87	86	87	88
1.1	87	87	87	88	88	88	87	86	87	88
1.2	87	87	87	87	88	88	87	86	87	88
1.3	87	87	87	88	88	88	87	86	87	88
1.4	87	87	87	88	88	88	87	86	87	88
1.5	87	87	87	88	88	88	87	86	87	88
1.6	87	87	87	88	88	88	87	86	87	88
1.7	87	88	88	88	88	88	87	86	87	88
1.8	88	88	88	88	88	88	87	86	87	88
1.9	88	88	88	88	88	88	87	86	87	88
2	88	88	88	88	88	88	87	86	87	88
2.1	88	88	88	88	88	88	87	86	87	88
2.2	88	88	88	88	88	88	87	86	87	88
2.3	88	88	88	88	88	88	87	86	87	88
2.4	88	87	88	88	88	88	87	86	87	88
2.5	88	88	88	88	88	88	87	86	87	88
2.6	88	88	88	88	88	88	87	86	87	88
2.7	88	88	88	88	88	88	87	86	87	88
2.8	88	88	88	88	88	88	87	86	87	88
2.9	88	88	88	88	88	88	87	86	87	88
3	88	88	88	88	88	88	87	86	87	88
3.1	88	88	88	88	88	88	87	86	87	88
3.2	88	88	88	88	88	88	87	86	87	88
3.3	88	88	88	88	88	88	87	86	87	88
3.4	88	88	88	88	88	88	87	86	87	88
3.5	88	88	88	88	88	88	87	86	87	88
3.6	88	88	88	88	88	88	87	86	87	88
3.7	88	88	88	88	88	88	87	86	87	88
3.8	88	88	88	88	88	88	87	86	87	88
3.9	88	88	88	88	88	88	87	86	87	88
4	88	88	88	88	88	88	87	86	87	88
4.1	88	88	88	88	88	88	87	86	87	88
4.2	88	88	88	88	88	89	87	86	87	88
4.3	88	88	88	88	88	89	88	86	87	88
4.4	88	88	88	88	88	89	88	86	87	88
4.5	88	88	88	88	88	88	88	86	87	88
4.6	88	88	88	88	88	88	87	86	87	88
4.7	88	88	88	88	88	88	88	86	87	88
4.8	88	88	88	88	88	88	87	86	87	88
4.9	88	88	88	88	88	88	88	86	87	88
5	89	88	88	88	88	88	87	86	87	88
5.1	89	89	88	89	88	89	88	86	87	88
5.2	89	89	89	89	89	89	88	86	87	88
5.3	89	89	89	89	89	89	88	86	87	88
5.4	89	89	89	89	89	89	88	86	87	88
5.5	89	89	89	89	89	89	88	86	87	88
5.6	89	89	89	89	89	89	88	86	87	88
5.7	89	89	89	89	89	89	88	86	87	88
5.8	89	89	89	89	89	89	88	86	87	88
5.9	89	89	89	89	89	89	88	86	87	88
6	89	89	89	89	89	89	89	86	87	88
6.1	89	89	89	89	89	90	89	86	87	88
6.2	90	90	90	90	90	90	89	87	87	88
6.3	90	90	90	90	90	91	89	87	87	88
6.4	91	90	90	90	91	91	90	87	88	89
6.5	91	90	90	91	91	91	89	87	88	89
6.6	91	91	90	91	91	91	89	87	88	89
6.7	91	91	90	91	91	91	89	87	88	89
6.8	92	91	91	91	91	91	89	87	88	89
6.9	92	91	91	91	91	91	89	87	88	89
7	92	91	91	91	91	91	90	87	88	89
7.1	92	92	91	91	91	91	90	87	88	89
7.2	93	92	92	91	91	91	89	87	88	89
7.3	93	91	92	91	91	91	90	87	88	89
7.4	92	91	92	91	91	91	90	87	88	89
7.5	92	91	92	91	91	91	90	87	88	89
7.6	93	91	92	91	91	92	91	87	89	89
7.7	93	92	92	91	92	93	92	87	89	89
7.8	94	92	93	92	92	93	92	87	88	89
7.9	95	93	94	93	93	94	92	87	89	89
8	95	93	94	93	93	94	93	87	88	89
8.1	95	93	94	92	93	93	92	87	89	89
8.2	95	93	94	92	93	93	92	88	89	89
8.3	95	93	93	92	92	93	92	88	89	90
8.4	95	93	93	92	92	93	92	87	89	90
8.5	95	92	93	92	92	93	92	87	89	90
8.6	95	93	93	92	93	94	92	87	89	90

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
8.7	96	93	94	92	93	95	93	88	89	90
8.8	96	93	94	92	93	94	93	88	89	90
8.9	96	93	95	92	93	94	94	88	89	90
9	96	94	95	92	93	95	94	88	90	90
9.1	97	94	94	93	94	96	94	88	90	90
9.2	97	94	94	92	94	95	93	88	90	90
9.3	97	94	94	92	94	94	92	88	90	90
9.4	97	94	94	92	93	94	92	88	90	91
9.5	97	94	94	92	93	94	92	88	90	91
9.6	97	94	94	92	93	93	92	88	90	91
9.7	97	93	93	92	93	93	92	88	90	91
9.8	97	93	94	92	93	94	93	88	90	91
9.9	96	93	94	93	93	93	93	88	90	91
10	97	94	95	93	93	93	92	88	90	91
10.1	96	93	94	93	93	93	92	88	90	91
10.2	96	93	94	93	93	94	92	88	90	91
10.3	96	94	94	93	93	94	93	88	90	91
10.4	96	94	95	93	93	94	93	88	90	91
10.5	97	94	94	93	93	94	93	88	90	91
10.6	96	96	94	93	93	94	93	88	90	91
10.7	97	94	94	93	93	94	93	88	90	91
10.8	98	95	94	93	93	93	93	88	90	91
10.9	98	94	94	93	92	93	92	88	90	91
11	98	94	95	93	93	93	92	88	90	91
11.1	99	95	95	93	93	93	92	88	90	91
11.2	99	95	96	92	93	93	92	88	90	91
11.3	100	96	97	93	93	93	92	88	90	92
11.4	100	96	97	93	93	94	93	88	90	92
11.5	100	96	97	93	93	94	94	88	90	92
11.6	100	96	97	93	93	94	93	88	90	92
11.7	100	96	96	93	93	94	93	88	90	92
11.8	101	96	97	94	94	94	94	88	90	92
11.9	101	96	98	94	94	95	95	88	91	92
12	100	95	97	93	94	95	95	89	91	92
12.1	101	96	97	93	94	95	95	89	91	92
12.2	100	96	98	93	94	95	95	89	91	92
12.3	101	96	98	94	95	96	95	89	91	92
12.4	103	97	99	94	95	96	95	89	91	92
12.5	105	98	100	94	95	96	95	89	91	92
12.6	105	98	100	94	95	96	95	89	91	92
12.7	106	99	100	95	95	96	94	89	91	93
12.8	107	100	100	94	95	96	94	89	91	93
12.9	109	100	99	94	95	95	94	89	91	92
13	108	99	99	94	95	95	94	89	92	92
13.1	107	100	103	94	95	95	94	89	92	93
13.2	109	101	105	94	94	95	94	89	92	93
13.3	110	101	103	94	95	95	94	89	92	93
13.4	111	101	103	95	95	96	95	89	92	93
13.5	111	101	103	95	96	96	95	89	92	93
13.6	113	103	104	95	96	96	95	89	92	93
13.7	115	103	104	96	96	96	95	89	92	93
13.8	115	104	104	96	96	96	95	89	92	93
13.9	116	106	104	96	96	96	95	89	92	93
14	115	104	104	96	96	96	95	89	92	93
14.1	116	105	105	95	96	96	95	89	92	93
14.2	117	104	104	95	96	96	95	89	92	93
14.3	117	103	103	95	96	96	94	89	92	93
14.4	117	104	103	95	95	96	94	89	92	93
14.5	120	105	103	95	95	96	95	89	92	93
14.6	119	104	103	95	95	96	95	89	92	93
14.7	118	104	103	95	95	96	95	89	92	93
14.8	121	104	104	96	95	96	96	89	92	93
14.9	125	106	104	96	96	96	96	89	92	93
15	126	107	106	96	96	96	95	89	92	93
15.1	132	112	107	96	96	96	96	89	92	93
15.2	135	115	107	96	97	97	96	89	92	94
15.3	143	120	107	96	97	97	96	89	93	94
15.4	149	119	108	96	97	97	96	89	93	94
15.5	157	118	110	96	97	97	96	90	93	94
15.6	207	119	107	96	97	97	97	90	93	94
15.7	660	219	110	101	99	98	97	90	93	94
15.8	1476	267	135	144	115	109	116	98	97	94
15.9	1471	338	159	182	133	114	112	101	103	95
16	1595	351	178	187	138	123	118	107	111	95
16.1	1716	413	193	198	148	129	120	110	121	96
16.2	1665	504	219	214	160	137	125	117	134	97
16.3	1845	616	243	238	175	147	129	121	145	98
16.4	1877	749	264	261	193	155	139	131	157	100
16.5	1832	912	279	286	205	167	148	142	171	105
16.6	1810	1039	286	286	210	174	152	144	183	110
16.7	1813	1098	295	290	207	170	151	151	195	114
16.8	1808	1066	284	287	207	170	150	154	202	116
16.9	1819	1069	282	313	223	182	160	159	209	119
17	1804	974	285	318	222	178	161	164	216	121
17.1	1817	913	291	316	216	175	157	163	219	123
17.2	1798	897	363	316	222	171	155	162	220	125
17.3	1800	952	434	322	226	167	159	162	219	126
17.4	1841	1089	458	341	231	171	168	164	217	128

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
17.5	1824	1063	525	367	238	179	183	178	217	129
17.6	1828	1123	550	408	268	201	186	181	219	131
17.7	1858	1177	639	433	274	213	192	188	223	131
17.8	1885	1309	969	517	324	235	206	194	227	130
17.9	1928	1278	1183	574	378	265	227	206	234	134
18	1857	1347	1157	558	414	319	254	213	243	136
18.1	1938	1693	1182	703	469	337	241	221	249	139
18.2	2088	1915	1208	885	591	342	292	251	270	148
18.3	2239	2010	1615	992	697	320	272	256	287	150
18.4	2216	2056	1676	889	512	295	248	260	301	152
18.5	2196	2106	1658	867	603	308	253	267	312	161
18.6	2243	2100	1831	790	491	293	261	269	319	159
18.7	2179	2038	1813	793	449	280	254	268	318	153
18.8	2083	1982	1827	845	487	302	250	269	315	150
18.9	2201	2069	1972	936	658	330	272	278	318	154
19	2243	2110	2055	1165	894	592	395	297	329	160
19.1	2143	1997	2059	1042	845	541	373	306	338	163
19.2	2104	2011	2080	996	685	438	336	302	343	171
19.3	2145	2045	2079	1137	647	421	313	300	340	176
19.4	2138	2044	2090	1185	660	465	356	315	341	171
19.5	2069	1979	2014	1149	620	426	354	314	346	172
19.6	2129	2062	2105	1090	586	394	330	315	348	173
19.7	2098	2029	2083	1076	610	383	330	316	355	182
19.8	2107	2030	2070	1124	638	398	349	318	354	184
19.9	2124	2036	2096	1199	634	424	345	319	353	182
20	1967	2001	2015	992	599	405	314	317	349	181
20.1	2002	2027	2048	1089	573	379	331	315	348	185
20.2	1965	2000	1988	898	525	346	313	312	344	182
20.3	1900	1953	1926	837	489	324	289	307	340	178
20.4	1876	1917	1892	858	510	343	279	304	337	178
20.5	1853	1904	1890	1006	554	381	312	305	334	185
20.6	1906	1945	1921	955	525	363	312	309	331	177
20.7	1896	1928	1910	879	489	336	302	307	331	176
20.8	1830	1873	1857	784	454	303	268	300	329	181
20.9	1889	1924	1895	918	487	314	286	296	323	178
21	1887	1933	1897	858	473	308	269	293	319	173
21.1	1934	1969	1921	952	490	326	281	293	317	174
21.2	1879	1914	1873	855	483	322	277	292	314	171
21.3	1869	1913	1863	795	453	306	282	291	309	167
21.4	1888	1919	1874	896	476	325	292	293	310	168
21.5	1831	1880	1869	935	559	365	323	301	314	171
21.6	1828	1868	1866	860	484	326	295	299	317	173
21.7	1846	1874	1855	776	452	315	293	295	316	172
21.8	1835	1868	1844	899	429	288	263	291	313	172
21.9	1834	1884	1857	793	471	336	287	293	310	170
22	1810	1844	1826	778	450	316	281	295	310	167
22.1	1839	1868	1845	807	484	329	279	292	308	163
22.2	1831	1863	1845	837	457	303	270	291	308	170
22.3	1580	1578	1594	719	422	324	284	290	306	173
22.4	1549	1593	1619	694	388	288	254	285	303	174
22.5	1540	1579	1598	545	346	266	244	279	293	169
22.6	1461	1479	1520	535	322	249	219	269	282	165
22.7	1386	1408	1469	486	303	232	202	260	272	165
22.8	1309	1326	1436	502	290	217	201	253	263	163
22.9	1186	1219	1400	409	263	220	201	245	250	157
23	1154	1156	1356	359	259	214	200	240	240	154
23.1	1005	1018	1096	296	239	207	198	233	229	150
23.2	1056	1010	1193	266	222	189	193	228	221	147
23.3	1081	987	1230	244	205	190	196	230	217	144
23.4	1052	958	1229	209	182	166	173	228	215	144
23.5	1000	849	955	191	168	172	171	225	210	143
23.6	1060	912	994	225	231	217	227	235	212	147
23.7	1106	937	919	380	305	252	263	242	219	145

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
0	87	86	86	86	87	87	87	87	87	90
0.1	87	86	86	86	87	87	87	87	87	90
0.2	87	86	86	87	87	87	87	87	87	90
0.3	87	87	86	87	87	87	87	87	87	90
0.4	87	87	87	87	87	87	87	87	87	90
0.5	87	87	86	87	87	87	87	87	87	90
0.6	87	87	86	87	87	87	87	87	87	90
0.7	87	86	86	87	87	87	87	87	87	90
0.8	87	86	86	87	87	87	87	87	86	90
0.9	87	86	86	87	87	87	87	86	87	90
1	86	86	86	86	87	87	87	86	87	90
1.1	86	86	86	86	87	87	87	86	87	90
1.2	86	86	86	86	86	87	87	86	87	90
1.3	86	86	86	86	86	87	87	86	87	90
1.4	86	86	86	86	86	87	87	86	87	90
1.5	86	86	86	86	86	87	87	86	87	90
1.6	86	86	86	86	87	87	87	86	87	90
1.7	86	86	86	87	87	87	87	86	87	90
1.8	87	86	86	87	87	87	87	87	87	90
1.9	87	86	87	87	87	87	87	87	87	90
2	87	87	87	87	87	87	87	87	87	90
2.1	87	87	86	87	87	87	87	87	87	90
2.2	87	87	87	87	87	87	87	87	86	90
2.3	87	87	87	87	87	87	87	87	87	90
2.4	87	87	87	87	87	87	87	87	86	90
2.5	87	86	86	87	87	87	87	87	86	90
2.6	87	86	86	87	87	87	87	87	86	90
2.7	87	87	86	87	87	87	87	87	87	90
2.8	87	86	86	87	87	87	87	87	86	90
2.9	87	86	86	87	87	87	87	86	87	90
3	87	86	86	87	87	87	87	87	86	90
3.1	86	86	86	87	87	87	87	86	87	90
3.2	86	86	86	87	87	87	87	87	86	90
3.3	86	86	86	86	87	87	87	86	87	90
3.4	87	86	86	86	87	87	87	87	86	90
3.5	87	86	86	86	87	87	87	86	87	90
3.6	87	86	86	87	87	87	87	87	86	90
3.7	87	86	86	87	87	87	87	86	87	90
3.8	87	86	86	86	87	87	87	87	86	90
3.9	87	86	86	87	87	87	87	86	87	90
4	86	86	86	87	87	87	87	86	87	90
4.1	86	86	86	87	87	87	87	86	87	90
4.2	87	86	86	87	87	87	87	86	87	90
4.3	87	87	86	87	87	87	87	86	87	90
4.4	87	86	86	87	87	87	87	87	87	90
4.5	87	86	86	87	87	87	87	87	87	90
4.6	87	86	86	87	87	87	87	86	87	90
4.7	87	86	86	87	87	87	87	87	87	90
4.8	87	86	86	87	87	87	87	87	87	90
4.9	87	86	86	87	87	87	87	87	87	90
5	87	87	86	87	87	87	87	87	87	90
5.1	87	86	86	87	87	87	87	87	87	90
5.2	87	87	86	87	87	87	87	87	87	90
5.3	87	87	86	87	87	87	87	87	87	90
5.4	87	87	86	87	87	87	87	87	87	90
5.5	87	87	87	87	87	87	87	87	87	90
5.6	87	87	87	87	87	87	87	87	87	90
5.7	87	87	87	87	88	88	88	87	87	90
5.8	87	87	87	87	87	87	88	87	87	90
5.9	87	87	87	88	88	88	88	87	87	90
6	87	87	87	88	88	88	88	87	87	90
6.1	87	87	87	88	88	88	88	87	87	90
6.2	87	87	87	88	88	88	88	87	88	90
6.3	87	88	87	88	88	88	88	88	88	90
6.4	88	88	87	88	88	88	89	88	88	90
6.5	88	88	88	88	88	89	89	88	88	90
6.6	88	88	88	88	89	89	89	88	88	90
6.7	88	88	88	89	89	89	89	88	88	90
6.8	88	88	88	89	89	89	89	88	88	90
6.9	88	88	88	89	89	89	89	88	88	90
7	88	88	88	89	89	89	89	88	88	90
7.1	88	88	88	89	89	89	89	88	88	90
7.2	88	88	88	89	89	89	89	88	88	90
7.3	89	88	88	89	89	89	89	88	88	90
7.4	88	88	88	89	89	89	89	88	88	90
7.5	89	89	88	89	89	89	89	89	88	90
7.6	89	89	89	89	89	89	89	89	89	90
7.7	89	89	89	89	89	89	89	89	89	90
7.8	89	89	89	89	89	89	90	89	89	90
7.9	89	89	89	89	90	90	90	89	89	90
8	89	89	89	90	90	90	90	89	89	90
8.1	89	89	89	90	90	91	90	90	89	90
8.2	89	89	89	91	91	91	90	91	90	89	90
8.3	89	89	89	90	91	91	90	90	90	89	90
8.4	90	90	90	91	91	91	90	90	90	89	91
8.5	90	90	90	91	91	91	90	90	90	89	91
8.6	90	90	90	91	91	91	91	90	90	90	91

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
8.7	90	90	90	91	91	91	91	90	90	91
8.8	90	90	90	91	91	91	91	91	90	91
8.9	90	90	90	91	91	91	91	90	90	91
9	90	90	90	91	91	91	91	90	90	91
9.1	91	90	90	91	92	91	92	91	90	91
9.2	91	90	90	92	92	92	92	91	90	91
9.3	91	91	90	92	93	92	92	92	90	91
9.4	91	90	90	92	93	92	92	92	90	90
9.5	91	91	91	92	93	92	92	92	90	91
9.6	91	91	90	92	93	92	92	91	90	91
9.7	91	91	91	92	93	92	92	91	90	91
9.8	91	91	90	92	92	92	92	92	90	91
9.9	90	90	90	92	92	92	93	92	90	91
10	90	90	90	92	92	92	93	91	90	91
10.1	90	90	90	92	92	92	92	92	90	91
10.2	90	90	91	92	93	92	92	91	90	91
10.3	90	90	91	92	92	92	92	91	90	91
10.4	90	91	91	92	93	92	92	91	90	91
10.5	91	91	91	92	93	92	92	92	90	91
10.6	91	91	91	92	93	93	93	92	90	91
10.7	91	91	91	92	93	93	93	92	90	91
10.8	91	91	91	92	93	93	93	92	90	91
10.9	91	91	91	93	93	93	93	92	90	91
11	91	92	91	93	93	93	94	92	90	91
11.1	92	92	91	93	94	94	94	92	90	91
11.2	92	92	92	93	94	93	94	92	91	91
11.3	92	92	92	93	93	93	93	92	90	91
11.4	92	92	92	93	93	93	93	92	91	91
11.5	92	92	92	93	93	93	93	92	91	91
11.6	92	92	92	93	93	93	93	92	91	91
11.7	92	92	92	93	93	93	93	92	91	91
11.8	92	92	92	93	94	93	93	92	91	91
11.9	91	92	92	93	94	93	93	92	91	91
12	91	92	92	93	95	94	94	92	91	91
12.1	91	91	92	93	94	94	94	93	91	91
12.2	91	92	92	93	94	94	95	93	91	91
12.3	92	92	92	93	94	94	95	93	91	91
12.4	92	92	92	93	94	94	95	93	91	91
12.5	92	92	92	93	94	94	95	93	91	91
12.6	92	92	92	93	94	95	95	93	91	91
12.7	93	92	92	93	94	94	95	93	91	91
12.8	93	92	92	93	94	94	94	93	91	91
12.9	92	92	92	94	94	94	94	93	91	91
13	92	92	92	93	94	94	94	93	91	91
13.1	92	92	92	93	94	94	94	93	92	91
13.2	92	92	92	94	94	94	94	93	92	91
13.3	93	93	93	94	94	94	94	93	92	91
13.4	93	93	93	94	95	94	94	93	92	91
13.5	93	93	93	95	95	94	94	93	92	91
13.6	93	93	93	95	95	94	94	93	92	91
13.7	93	94	94	95	95	94	95	93	92	91
13.8	93	94	94	95	95	94	95	93	92	91
13.9	93	94	94	95	95	95	95	93	92	91
14	93	93	94	95	95	95	95	93	92	91
14.1	93	94	94	95	95	95	95	93	92	91
14.2	93	93	94	95	95	94	94	93	92	91
14.3	93	93	94	95	95	94	94	93	92	91
14.4	93	93	93	94	94	94	94	93	92	91
14.5	93	93	93	94	94	94	94	93	92	91
14.6	93	93	93	94	94	94	94	93	92	91
14.7	93	93	93	94	94	94	94	93	92	91
14.8	94	93	93	94	94	94	95	94	92	91
14.9	94	94	94	95	95	94	95	94	92	91
15	94	94	94	95	95	95	95	94	92	91
15.1	94	94	94	95	95	95	95	94	92	91
15.2	94	94	95	96	96	96	96	94	92	91
15.3	95	95	95	96	97	96	95	94	92	91
15.4	95	95	96	97	97	96	96	95	93	91
15.5	96	96	96	97	97	97	96	94	93	91
15.6	96	95	96	97	97	97	96	95	93	92
15.7	96	96	97	97	98	97	97	95	93	92
15.8	101	101	103	103	121	132	149	165	102	92
15.9	108	108	110	111	135	180	219	250	124	92
16	119	121	126	127	156	200	234	328	151	94
16.1	132	133	143	138	156	182	210	320	167	96
16.2	146	148	168	146	154	174	223	335	182	97
16.3	156	153	176	156	159	163	229	329	190	98
16.4	161	165	187	165	169	166	267	364	204	100
16.5	159	168	188	163	171	161	247	361	217	102
16.6	159	163	183	152	163	153	208	303	221	103
16.7	161	165	184	159	165	154	189	279	222	104
16.8	163	167	188	160	167	152	193	322	224	105
16.9	151	165	193	157	165	152	230	345	227	107
17	154	166	193	160	171	155	272	419	237	109
17.1	151	165	190	159	170	156	257	375	248	110
17.2	148	156	177	150	159	150	227	345	249	110
17.3	150	157	178	153	160	149	199	310	246	110
17.4	156	161	186	154	162	147	196	309	246	110

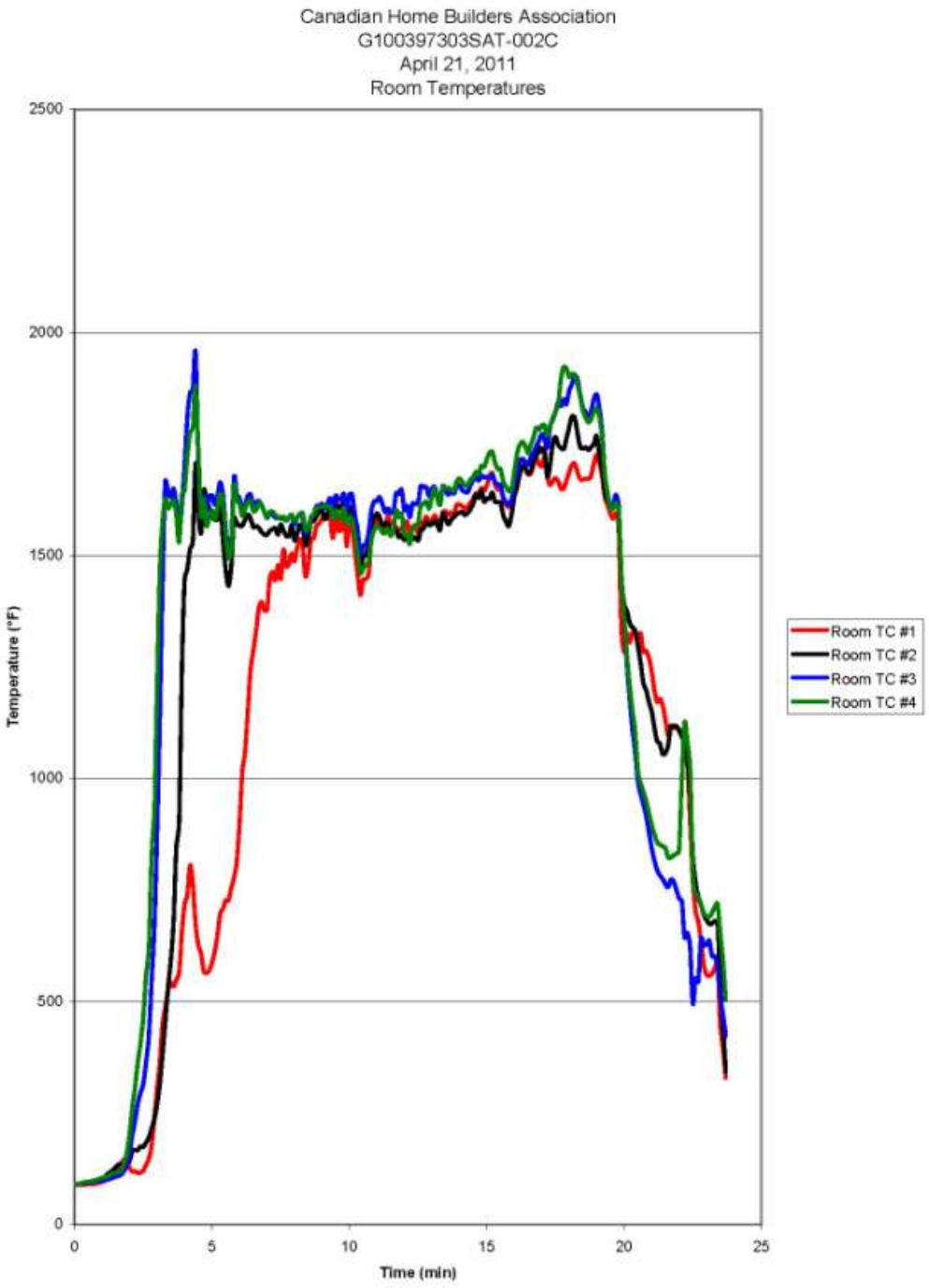
Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
17.5	158	161	184	158	165	149	210	296	242	110
17.6	170	167	188	165	176	167	272	383	247	110
17.7	171	169	193	166	178	169	260	379	253	112
17.8	166	171	197	168	182	173	301	420	259	113
17.9	170	179	203	173	187	177	294	401	267	115
18	168	178	201	171	183	174	280	383	271	115
18.1	171	178	203	171	186	172	277	375	270	115
18.2	173	180	201	169	189	208	408	482	283	118
18.3	177	184	205	164	184	190	375	436	294	118
18.4	180	188	210	170	186	189	395	507	305	120
18.5	183	192	213	175	205	225	468	576	325	124
18.6	190	193	209	178	206	222	465	537	347	127
18.7	205	195	206	185	213	248	514	539	361	128
18.8	208	194	205	186	224	311	529	590	383	132
18.9	211	198	208	192	220	315	511	573	404	139
19	216	206	216	194	220	283	459	509	409	143
19.1	215	208	218	190	215	254	460	540	406	147
19.2	206	202	218	188	221	364	529	590	413	148
19.3	216	200	210	193	278	428	581	609	426	149
19.4	230	209	213	193	242	347	511	559	431	153
19.5	228	210	220	198	224	287	452	507	423	154
19.6	226	209	221	196	221	300	478	514	423	159
19.7	222	209	228	190	213	304	508	537	419	159
19.8	232	212	226	190	211	302	501	541	423	163
19.9	242	220	233	194	237	319	519	555	425	162
20	246	223	234	194	236	388	524	579	437	165
20.1	254	229	234	197	229	361	520	571	450	168
20.2	258	228	232	198	274	365	534	568	455	167
20.3	250	222	228	209	335	449	570	595	456	167
20.4	237	214	224	205	285	422	589	614	467	168
20.5	232	215	225	206	265	387	537	573	465	172
20.6	237	218	232	201	241	322	472	533	459	176
20.7	247	220	236	198	236	345	504	568	450	177
20.8	248	220	238	199	304	413	540	566	449	177
20.9	249	216	238	198	255	353	507	535	444	175
21	251	216	235	200	239	328	484	511	436	174
21.1	253	215	232	198	226	299	507	560	431	177
21.2	259	218	235	196	218	280	454	510	421	176
21.3	247	215	230	198	251	365	506	542	419	173
21.4	254	220	232	201	240	374	541	559	424	174
21.5	257	222	235	199	224	336	487	529	425	177
21.6	253	215	230	196	215	308	459	476	422	178
21.7	250	213	233	200	223	339	504	531	418	177
21.8	259	224	242	199	224	350	504	526	420	176
21.9	250	218	239	201	235	364	511	537	426	175
22	258	223	240	197	229	344	491	540	421	175
22.1	243	224	247	198	227	325	480	521	422	177
22.2	235	220	245	201	224	322	478	518	421	180
22.3	227	214	242	198	296	359	458	479	416	181
22.4	231	212	235	195	272	393	525	546	423	184
22.5	225	203	225	197	261	395	524	556	420	183
22.6	221	195	217	177	259	371	507	536	420	184
22.7	210	181	203	171	304	412	511	543	426	184
22.8	206	176	192	164	300	387	482	529	422	185
22.9	198	171	186	158	249	326	431	458	410	185
23	188	163	180	155	208	288	371	385	384	185
23.1	177	158	176	148	221	301	402	431	373	184
23.2	175	159	174	148	239	294	393	440	369	187
23.3	175	159	176	147	201	241	329	361	354	185
23.4	167	156	170	152	208	234	301	342	333	179
23.5	168	157	168	149	202	241	319	357	322	177
23.6	167	155	165	142	169	199	272	302	306	173
23.7	173	157	169	140	156	179	229	285	289	169

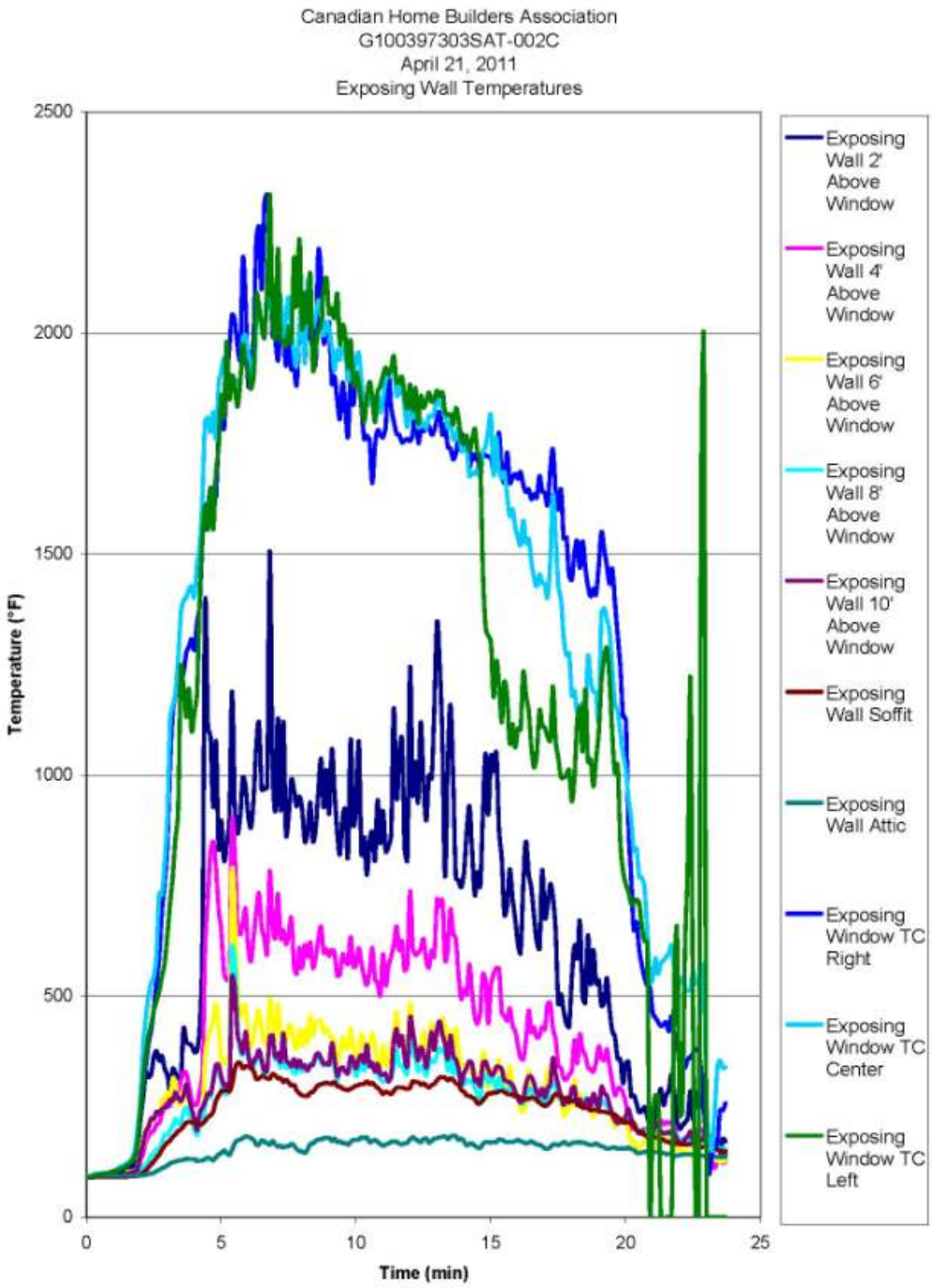
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
0	87	87	0.22	0.17	0.02	0.02	0.14
0.1	87	87	0.25	0.12	0.00	-0.02	0.12
0.2	87	87	0.25	0.12	0.00	-0.05	0.07
0.3	87	87	0.20	0.15	0.00	-0.02	0.12
0.4	87	87	0.27	0.17	0.00	-0.02	0.12
0.5	87	87	0.25	0.15	0.00	-0.09	0.09
0.6	87	87	0.27	0.12	0.05	-0.07	0.05
0.7	87	87	0.22	0.12	0.00	-0.07	0.00
0.8	87	87	0.25	0.12	-0.05	-0.12	0.09
0.9	87	87	0.25	0.12	0.00	-0.07	0.02
1	87	87	0.22	0.12	-0.02	-0.12	0.05
1.1	87	87	0.25	0.12	-0.02	-0.07	-0.02
1.2	87	86	0.22	0.12	-0.05	-0.09	0.05
1.3	87	86	0.20	0.15	-0.05	-0.12	0.05
1.4	87	86	0.20	0.12	-0.10	-0.12	0.02
1.5	87	87	0.20	0.12	-0.05	-0.07	0.05
1.6	87	87	0.20	0.12	-0.07	-0.12	-0.02
1.7	87	87	0.20	0.12	-0.07	-0.14	0.05
1.8	87	87	0.17	0.12	-0.10	-0.05	0.07
1.9	87	86	0.20	0.12	-0.07	-0.07	-0.02
2	87	87	0.22	0.12	-0.07	-0.14	0.05
2.1	87	86	0.20	0.12	-0.10	-0.07	-0.02
2.2	87	86	0.22	0.12	-0.07	-0.14	0.02
2.3	87	86	0.17	0.12	-0.10	-0.12	-0.02
2.4	87	86	0.17	0.12	-0.10	-0.12	0.00
2.5	87	86	0.17	0.12	-0.10	-0.14	0.05
2.6	87	86	0.22	0.12	-0.10	-0.09	0.02
2.7	87	86	0.20	0.12	-0.10	-0.14	-0.05
2.8	87	86	0.20	0.10	-0.10	-0.14	0.02
2.9	87	86	0.17	0.10	-0.12	-0.14	0.00
3	87	86	0.20	0.12	-0.14	-0.16	-0.02
3.1	87	86	0.17	0.07	-0.14	-0.14	-0.09
3.2	87	86	0.17	0.12	-0.10	-0.16	-0.02
3.3	87	87	0.17	0.12	-0.10	-0.14	-0.02
3.4	87	87	0.20	0.12	-0.12	-0.14	-0.02
3.5	87	87	0.20	0.12	-0.10	-0.16	0.00
3.6	87	86	0.20	0.12	-0.14	-0.16	0.00
3.7	87	86	0.17	0.07	-0.12	-0.16	-0.02
3.8	87	86	0.17	0.10	-0.14	-0.19	-0.05
3.9	87	86	0.17	0.10	-0.12	-0.12	-0.02
4	87	86	0.20	0.10	-0.14	-0.14	-0.05
4.1	87	86	0.17	0.10	-0.14	-0.14	-0.02
4.2	87	86	0.17	0.10	-0.14	-0.19	-0.09
4.3	87	86	0.17	0.10	-0.12	-0.16	-0.02
4.4	87	86	0.17	0.10	-0.12	-0.16	-0.07
4.5	87	87	0.20	0.10	-0.14	-0.19	-0.19
4.6	87	87	0.20	0.10	-0.12	-0.16	-0.05
4.7	87	87	0.22	0.12	-0.12	-0.09	0.02
4.8	88	87	0.22	0.10	-0.12	-0.16	-0.07
4.9	88	87	0.20	0.12	-0.07	-0.12	-0.02
5	88	87	0.22	0.12	-0.10	-0.14	0.00
5.1	88	87	0.22	0.12	-0.05	-0.14	-0.02
5.2	88	87	0.25	0.12	-0.02	-0.12	-0.02
5.3	88	87	0.20	0.17	-0.02	-0.07	-0.02
5.4	88	88	0.27	0.15	0.00	-0.12	-0.05
5.5	88	88	0.27	0.17	0.02	-0.12	-0.02
5.6	88	88	0.30	0.20	0.02	-0.12	0.02
5.7	88	88	0.30	0.22	0.05	-0.09	0.02
5.8	88	88	0.35	0.20	0.12	-0.07	-0.02
5.9	88	88	0.32	0.22	0.12	-0.07	0.07
6	88	88	0.32	0.27	0.12	-0.02	0.09
6.1	88	89	0.42	0.27	0.14	-0.02	0.12
6.2	89	89	0.40	0.27	0.17	0.00	0.07
6.3	89	89	0.37	0.30	0.19	0.02	0.09
6.4	89	89	0.45	0.32	0.17	0.05	0.12
6.5	89	89	0.42	0.35	0.24	0.05	0.14
6.6	89	89	0.45	0.35	0.26	0.05	0.14
6.7	89	89	0.45	0.37	0.29	0.07	0.16
6.8	89	89	0.45	0.37	0.31	0.07	0.12
6.9	89	89	0.45	0.42	0.36	0.12	0.16
7	89	89	0.47	0.42	0.36	0.12	0.19
7.1	90	89	0.55	0.42	0.43	0.16	0.19
7.2	90	90	0.52	0.45	0.43	0.19	0.21
7.3	89	90	0.52	0.45	0.43	0.16	0.21
7.4	89	89	0.55	0.49	0.48	0.21	0.28
7.5	90	89	0.55	0.52	0.48	0.21	0.28
7.6	90	89	0.65	0.54	0.50	0.26	0.30
7.7	91	89	0.62	0.54	0.57	0.26	0.26
7.8	92	91	0.65	0.59	0.57	0.26	0.30
7.9	92	91	0.65	0.59	0.57	0.26	0.33
8	92	91	0.65	0.62	0.64	0.28	0.35
8.1	92	90	0.67	0.62	0.62	0.33	0.37
8.2	92	90	0.70	0.67	0.67	0.35	0.42
8.3	92	90	0.72	0.72	0.67	0.37	0.42
8.4	93	89	0.74	0.72	0.74	0.37	0.39
8.5	94	89	0.77	0.77	0.74	0.37	0.42
8.6	94	89	0.77	0.77	0.74	0.40	0.42

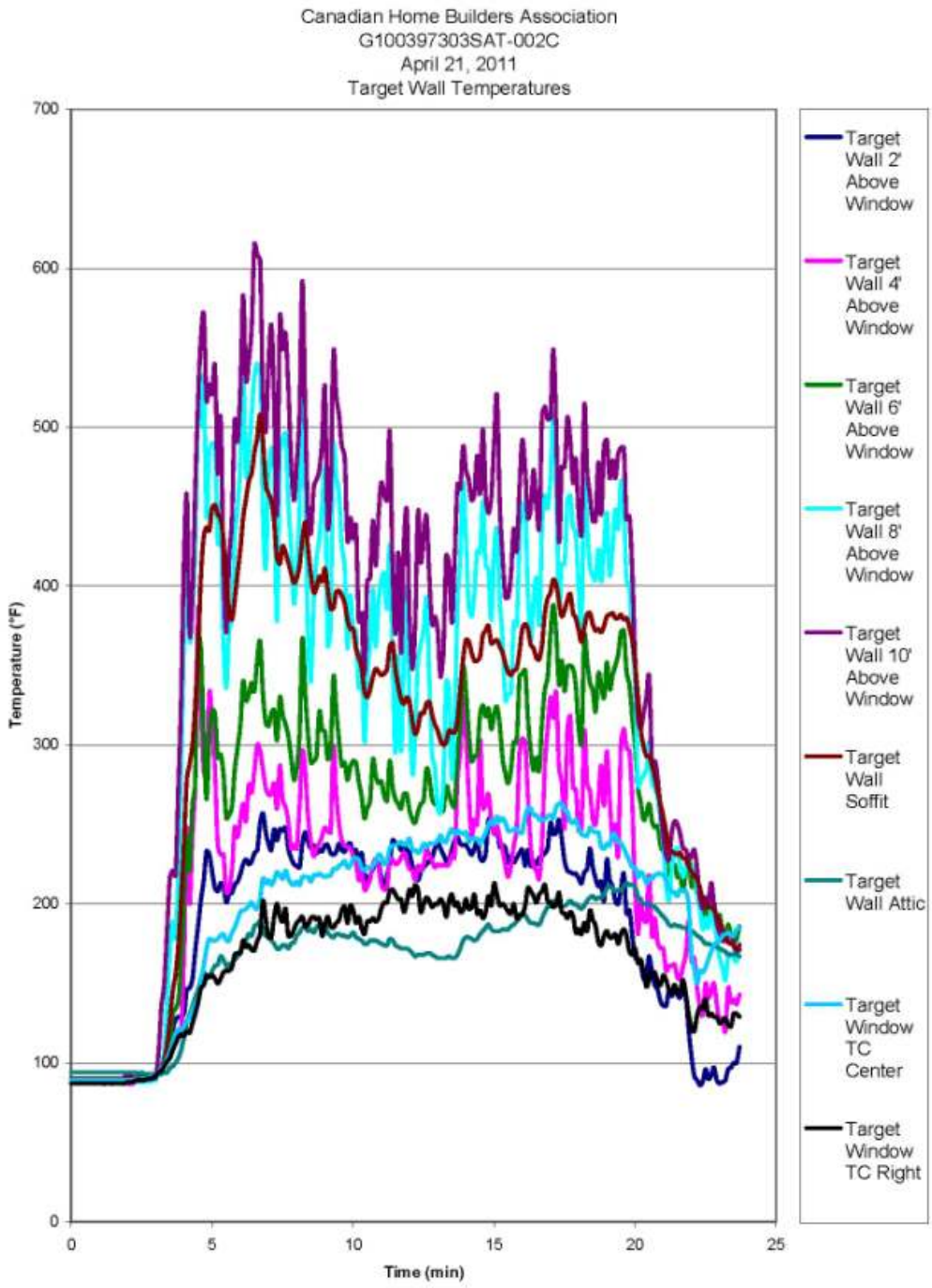
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
8.7	94	89	0.77	0.77	0.86	0.40	0.44
8.8	94	89	0.77	0.78	0.86	0.37	0.39
8.9	92	89	0.79	0.82	0.88	0.42	0.49
9	91	89	0.82	0.82	0.93	0.49	0.49
9.1	91	89	0.84	0.84	1.03	0.44	0.46
9.2	90	90	0.89	0.94	1.00	0.49	0.49
9.3	90	90	0.92	0.94	1.05	0.49	0.53
9.4	90	90	0.94	0.98	1.05	0.49	0.60
9.5	90	90	0.94	0.94	1.07	0.54	0.59
9.6	91	91	0.99	1.01	1.10	0.54	0.58
9.7	91	90	0.99	1.01	1.12	0.58	0.60
9.8	91	90	1.02	0.99	1.15	0.61	0.65
9.9	91	90	1.02	1.06	1.17	0.58	0.58
10	91	90	1.02	1.06	1.19	0.58	0.63
10.1	91	90	1.02	1.14	1.22	0.61	0.60
10.2	91	90	1.09	1.06	1.29	0.68	0.67
10.3	91	91	1.09	1.16	1.31	0.68	0.60
10.4	91	90	1.22	1.19	1.31	0.68	0.72
10.5	92	91	1.17	1.14	1.41	0.65	0.67
10.6	91	91	1.22	1.21	1.41	0.63	0.77
10.7	91	91	1.17	1.31	1.36	0.75	0.74
10.8	91	91	1.29	1.34	1.46	0.77	0.74
10.9	91	91	1.24	1.34	1.48	0.80	0.77
11	92	92	1.34	1.36	1.53	0.84	0.81
11.1	91	91	1.29	1.34	1.58	0.82	0.81
11.2	91	91	1.32	1.38	1.62	0.84	0.88
11.3	91	91	1.34	1.41	1.62	0.89	0.84
11.4	91	91	1.39	1.43	1.65	0.91	0.86
11.5	91	91	1.39	1.41	1.67	0.91	0.84
11.6	91	91	1.44	1.51	1.72	0.96	0.91
11.7	92	92	1.46	1.53	1.79	0.94	0.91
11.8	92	92	1.49	1.58	1.72	0.96	0.98
11.9	92	92	1.51	1.61	1.86	0.96	1.02
12	92	92	1.54	1.63	1.89	1.01	1.02
12.1	92	92	1.56	1.68	1.91	1.05	1.02
12.2	92	92	1.61	1.68	1.96	1.10	1.09
12.3	92	92	1.64	1.73	1.98	1.12	1.09
12.4	93	92	1.69	1.76	2.01	1.12	1.12
12.5	93	92	1.74	1.81	2.05	1.08	1.18
12.6	92	93	1.61	1.81	2.09	1.17	1.12
12.7	93	93	1.69	1.83	2.13	1.17	1.19
12.8	93	93	1.71	1.78	2.17	1.22	1.23
12.9	93	93	1.71	1.85	2.17	1.24	1.25
13	93	92	1.79	1.93	2.13	1.24	1.18
13.1	93	92	1.76	1.88	2.20	1.33	1.35
13.2	93	92	1.79	1.93	2.22	1.26	1.21
13.3	93	92	1.79	2.00	2.22	1.24	1.28
13.4	93	92	1.81	1.95	2.29	1.31	1.21
13.5	93	92	1.89	1.98	2.05	1.29	1.30
13.6	93	92	1.89	2.05	2.32	1.33	1.30
13.7	93	92	1.86	2.03	2.41	1.40	1.37
13.8	93	93	1.94	2.10	2.39	1.45	1.37
13.9	93	93	1.94	1.98	2.46	1.36	1.37
14	93	93	2.06	2.10	2.44	1.38	1.30
14.1	93	93	2.04	2.25	2.46	1.45	1.42
14.2	93	93	2.09	2.13	2.49	1.43	1.42
14.3	93	93	2.04	2.20	2.51	1.50	1.46
14.4	93	93	2.06	2.23	2.53	1.43	1.44
14.5	93	93	2.09	2.25	2.46	1.47	1.42
14.6	93	93	2.11	2.28	2.53	1.57	1.49
14.7	93	93	2.14	2.25	2.60	1.50	1.49
14.8	93	93	2.11	2.30	2.60	1.64	1.39
14.9	93	94	2.19	2.35	2.70	1.66	1.53
15	93	93	2.21	2.32	2.75	1.40	1.70
15.1	93	93	2.26	2.45	2.82	1.71	1.56
15.2	93	93	2.23	2.37	2.77	1.68	1.80
15.3	93	93	2.33	2.37	2.77	1.69	1.63
15.4	94	93	2.28	2.50	2.91	1.73	1.65
15.5	94	93	2.31	2.50	2.82	1.71	1.49
15.6	94	93	2.36	2.50	2.96	1.71	1.77
15.7	94	93	2.41	2.50	3.83	1.64	1.77
15.8	94	94	2.33	2.62	5.28	1.78	1.77
15.9	94	94	2.43	2.55	7.45	1.85	1.72
16	94	94	2.41	2.60	7.31	2.01	1.84
16.1	94	94	2.48	2.65	8.36	1.85	2.00
16.2	95	94	2.41	2.67	7.28	2.03	1.97
16.3	95	95	2.56	2.77	11.82	2.18	2.14
16.4	95	95	2.73	2.92	11.59	2.15	2.19
16.5	96	96	2.63	2.79	8.33	2.32	2.25
16.6	97	97	2.66	2.88	10.15	2.43	2.16
16.7	97	96	2.61	2.92	9.98	2.55	2.44
16.8	96	96	2.71	2.92	10.72	2.60	2.51
16.9	96	96	2.88	2.92	10.94	2.57	2.56
17	96	97	2.78	2.75	10.22	2.69	2.62
17.1	96	97	2.76	2.97	9.43	2.78	2.65
17.2	97	97	2.93	3.14	8.50	2.76	2.81
17.3	96	97	2.91	3.19	8.24	2.85	2.93
17.4	97	98	2.93	2.97	9.07	2.92	2.89

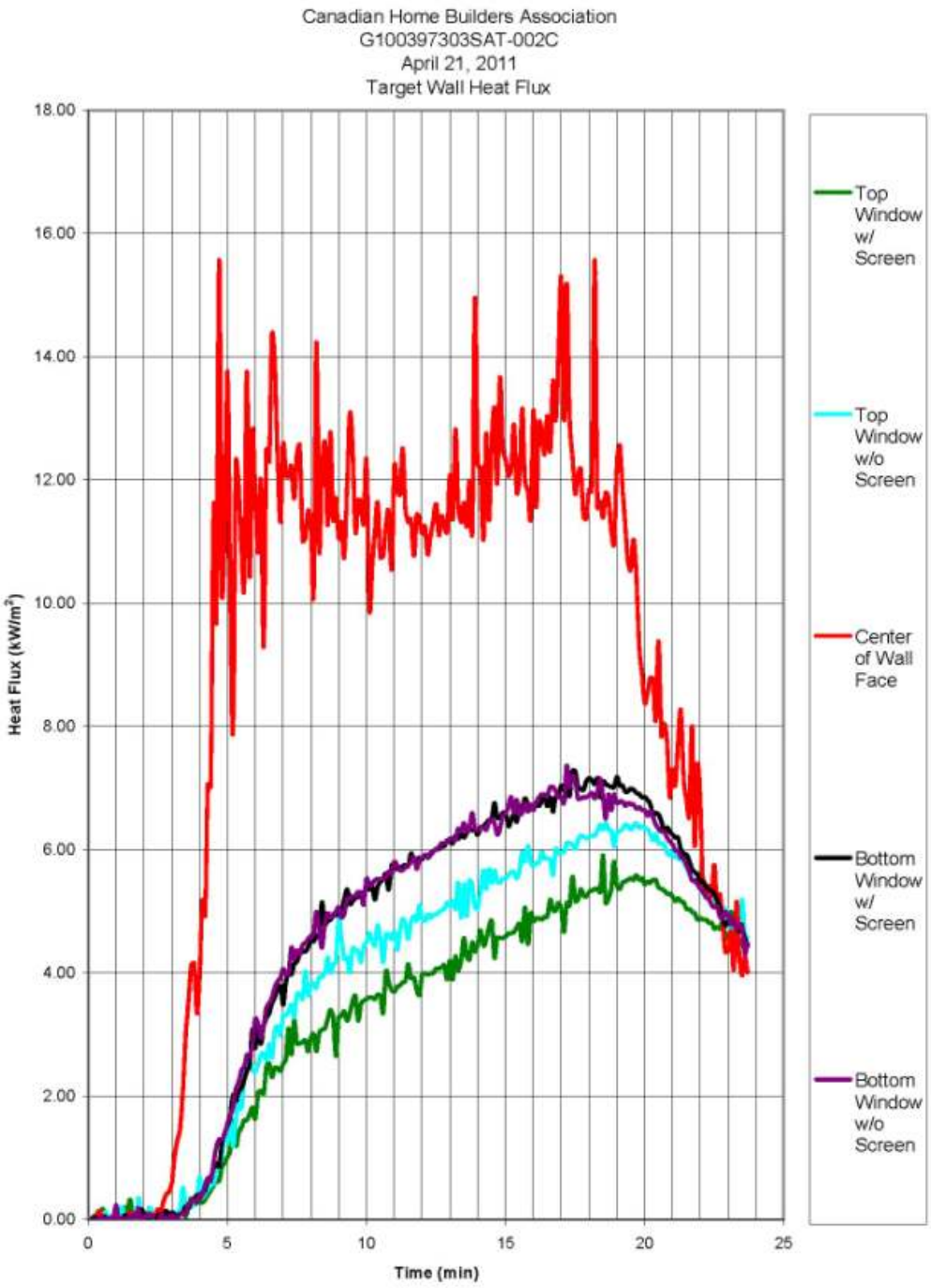
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
17.5	102	98	3.25	3.14	9.22	3.04	2.97
17.6	103	100	3.25	3.29	13.11	3.18	3.28
17.7	105	100	3.03	3.39	10.17	3.27	3.14
17.8	103	100	3.05	3.44	13.88	3.25	3.16
17.9	102	100	3.03	3.26	11.06	3.27	3.21
18	101	100	3.05	3.34	10.22	3.32	3.25
18.1	100	99	3.08	3.41	11.49	3.44	3.39
18.2	100	99	3.10	3.48	12.15	3.46	3.35
18.3	102	100	3.05	3.56	10.58	3.53	3.72
18.4	102	100	3.18	3.56	13.47	3.49	3.55
18.5	102	101	3.33	3.76	13.85	3.67	3.65
18.6	103	101	3.25	3.71	12.70	3.79	3.72
18.7	104	101	3.30	3.71	12.13	3.84	3.81
18.8	103	100	3.33	3.73	10.67	3.81	3.81
18.9	102	102	3.45	3.76	11.87	4.05	3.90
19	102	102	3.38	3.81	12.20	4.02	4.00
19.1	103	101	3.43	3.86	12.42	4.07	4.04
19.2	105	102	3.48	3.88	12.13	4.16	4.11
19.3	106	102	3.53	3.88	13.25	4.19	4.20
19.4	106	102	3.60	4.03	12.42	4.30	4.23
19.5	109	102	3.38	4.18	12.18	4.37	4.39
19.6	109	102	3.50	4.13	12.92	4.42	4.48
19.7	111	103	3.60	4.11	12.92	4.54	4.44
19.8	109	102	3.63	4.15	13.18	4.58	4.60
19.9	107	103	3.60	4.30	13.21	4.79	4.62
20	110	103	3.58	4.18	14.47	4.77	4.74
20.1	108	104	3.63	4.03	13.66	4.84	4.90
20.2	107	105	3.63	4.33	14.21	4.89	4.88
20.3	108	105	3.55	4.20	13.52	4.89	4.88
20.4	106	104	3.67	4.28	13.06	5.12	4.97
20.5	105	106	3.72	4.53	13.66	5.12	5.16
20.6	105	106	3.50	4.40	13.33	5.22	4.97
20.7	112	105	4.00	4.45	13.35	5.19	5.16
20.8	114	104	3.87	4.28	14.11	5.24	5.32
20.9	110	105	3.97	4.48	13.61	5.24	5.25
21	107	105	4.05	4.53	13.85	5.31	5.37
21.1	106	105	3.92	4.58	12.25	5.47	5.32
21.2	106	106	3.97	4.55	12.75	5.45	5.44
21.3	106	105	4.07	4.60	13.01	5.40	5.58
21.4	106	105	4.25	4.70	13.64	5.45	5.60
21.5	106	105	4.00	4.67	13.64	5.47	5.64
21.6	105	105	4.07	4.70	11.82	5.61	5.85
21.7	105	105	4.17	4.75	13.78	5.73	5.74
21.8	105	105	4.17	4.72	13.25	5.80	5.89
21.9	105	106	4.17	4.97	13.33	5.82	5.88
22	105	106	4.20	4.82	13.83	5.87	5.92
22.1	105	105	4.17	4.80	12.70	5.85	5.97
22.2	105	105	4.10	4.92	12.66	5.94	5.97
22.3	107	105	4.39	4.95	14.52	6.03	6.02
22.4	106	105	4.25	4.92	11.15	6.03	6.06
22.5	105	106	4.25	4.72	11.59	6.03	6.09
22.6	105	106	4.32	5.34	9.59	6.06	6.09
22.7	105	106	4.35	5.02	9.15	6.03	6.06
22.8	105	105	4.35	5.02	8.38	6.01	6.13
22.9	105	105	4.27	5.00	8.07	6.10	6.13
23	105	105	4.30	5.09	8.17	6.10	6.13
23.1	105	105	4.37	5.07	8.05	6.08	6.11
23.2	104	105	4.35	5.04	7.81	6.17	6.09
23.3	105	105	4.37	5.07	7.71	6.06	5.83
23.4	104	104	4.44	5.00	8.05	5.94	6.23
23.5	104	104	4.47	5.04	7.43	6.10	6.13
23.6	104	103	4.32	5.04	7.47	5.96	6.09
23.7	104	102	4.17	5.07	7.40	5.94	6.11

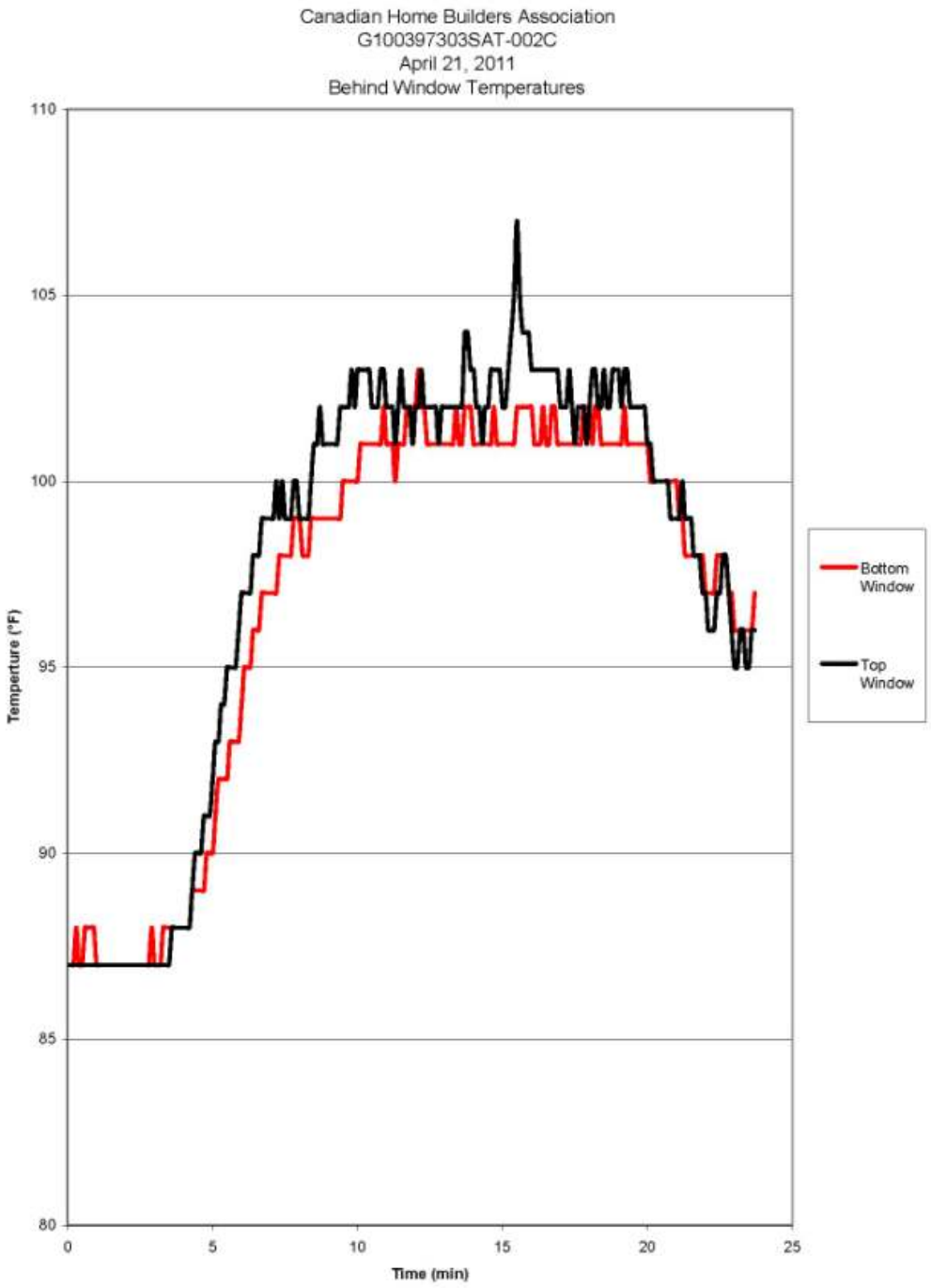
APPENDIX F
Test C Data


Canadian Home Builders Association
G100397303SAT-002C
April 21, 2011
Room Temperatures
2500
2000
1500
1000
500
0
Temperature (°F)
0
5
10
15
20
25
Time (min)
Room TC #1
Room TC #2
Room TC #3
Room TC #4


Canadian Home Builders Association
G100397303SAT-002C
April 21, 2011
Exposing Wall Temperatures
Temperature (°F)
Time (min)
2500
2000
1500
1000
500
0
0
5
10
15
20
25
Exposing Wall 2' Above Window
Exposing Wall 4' Above Window
Exposing Wall 6' Above Window
Exposing Wall 8' Above Window
Exposing Wall 10' Above Window
Exposing Wall Soffit
Exposing Wall Attic
Exposing Window TC Right
Exposing Window TC Center
Exposing Window TC Left


Canadian Home Builders Association
G100397303SAT-002C
April 21, 2011
Target Wall Temperatures
Temperature (°F)
Time (min)
0
100
200
300
400
500
600
700
0
5
10
15
20
25
Target Wall 2' Above Window
Target Wall 4' Above Window
Target Wall 6' Above Window
Target Wall 8' Above Window
Target Wall 10' Above Window
Target Wall Soffit
Target Wall Attic
Target Window TC Center
Target Window TC Right


Canadian Home Builders Association
G100397303SAT-002C
April 21, 2011
Target Wall Heat Flux
Heat Flux (kW/m²)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
5
10
15
20
25
Time (min)
Top Window w/ Screen
Top Window w/o Screen
Center of Wall Face
Bottom Window w/ Screen
Bottom Window w/o Screen


Canadian Home Builders Association
G100397303SAT-002C
April 21, 2011
Behind Window Temperatures
110
105
100
95
90
85
80
Temperture (°F)
0
5
10
15
20
25
Time (min)
Bottom Window
Top Window

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
0	89	90	90	90
0.1	89	90	90	91
0.2	89	90	90	91
0.3	89	91	92	94
0.4	90	92	93	95
0.5	91	95	94	96
0.6	91	97	95	97
0.7	91	98	96	98
0.8	92	99	96	100
0.9	94	100	97	102
1	96	103	98	105
1.1	98	106	100	106
1.2	102	113	101	108
1.3	105	118	102	112
1.4	111	122	105	115
1.5	118	129	107	116
1.6	124	135	109	119
1.7	138	135	113	124
1.8	146	134	121	137
1.9	144	137	134	162
2	127	143	162	205
2.1	119	166	202	264
2.2	120	167	234	310
2.3	115	167	272	365
2.4	117	175	296	409
2.5	121	174	317	466
2.6	134	184	365	559
2.7	148	195	424	619
2.8	177	215	546	930
2.9	241	237	667	931
3	304	270	881	1207
3.1	366	317	1139	1465
3.2	449	385	1443	1577
3.3	486	457	1666	1628
3.4	527	532	1643	1606
3.5	541	594	1631	1615
3.6	534	680	1650	1623
3.7	549	846	1613	1591
3.8	563	901	1551	1530
3.9	653	1236	1612	1636
4	717	1445	1702	1647
4.1	739	1469	1809	1722
4.2	805	1515	1885	1775
4.3	764	1532	1872	1787
4.4	674	1706	1955	1880
4.5	627	1805	1715	1741
4.6	608	1550	1594	1589
4.7	567	1646	1632	1626
4.8	564	1625	1601	1566
4.9	570	1605	1631	1589
5	598	1599	1635	1601
5.1	613	1580	1614	1581
5.2	650	1582	1634	1607
5.3	697	1612	1664	1640
5.4	709	1533	1635	1617
5.5	727	1466	1559	1546
5.6	727	1432	1508	1493
5.7	755	1476	1532	1511
5.8	778	1584	1675	1657
5.9	815	1573	1637	1625
6	900	1566	1628	1615
6.1	1014	1567	1600	1589
6.2	1058	1580	1613	1604
6.3	1148	1592	1633	1619
6.4	1242	1583	1637	1623
6.5	1286	1564	1615	1600
6.6	1330	1566	1618	1602
6.7	1381	1562	1622	1617
6.8	1396	1553	1613	1612
6.9	1377	1547	1598	1598
7	1378	1547	1584	1586
7.1	1447	1555	1595	1598
7.2	1463	1559	1592	1598
7.3	1444	1561	1585	1591
7.4	1478	1547	1584	1587
7.5	1448	1569	1584	1592
7.6	1513	1556	1593	1587
7.7	1476	1544	1578	1578
7.8	1481	1544	1585	1586
7.9	1504	1568	1588	1592
8	1487	1534	1570	1577
8.1	1518	1550	1585	1585
8.2	1537	1569	1593	1593
8.3	1520	1560	1584	1585
8.4	1454	1523	1550	1559
8.5	1478	1539	1559	1557
8.6	1537	1578	1586	1583

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
8.7	1538	1577	1594	1593
8.8	1566	1588	1611	1607
8.9	1572	1597	1610	1608
9	1582	1601	1616	1610
9.1	1591	1582	1607	1611
9.2	1592	1591	1617	1609
9.3	1583	1614	1628	1609
9.4	1539	1593	1609	1583
9.5	1596	1616	1634	1601
9.6	1556	1605	1625	1592
9.7	1557	1612	1626	1582
9.8	1614	1616	1638	1607
9.9	1521	1572	1601	1571
10	1588	1604	1637	1587
10.1	1557	1608	1636	1580
10.2	1509	1565	1589	1544
10.3	1457	1530	1556	1503
10.4	1411	1477	1501	1461
10.5	1445	1497	1522	1471
10.6	1447	1501	1525	1479
10.7	1459	1526	1552	1487
10.8	1546	1569	1601	1535
10.9	1572	1594	1621	1557
11	1589	1594	1622	1566
11.1	1565	1595	1631	1562
11.2	1557	1567	1615	1552
11.3	1563	1572	1597	1550
11.4	1588	1571	1605	1560
11.5	1572	1545	1596	1544
11.6	1574	1559	1597	1555
11.7	1563	1558	1640	1601
11.8	1554	1541	1638	1586
11.9	1562	1545	1648	1594
12	1561	1535	1602	1547
12.1	1576	1541	1611	1547
12.2	1547	1535	1586	1526
12.3	1559	1537	1617	1564
12.4	1568	1541	1615	1566
12.5	1551	1534	1618	1571
12.6	1570	1556	1656	1613
12.7	1575	1561	1654	1616
12.8	1587	1575	1653	1621
12.9	1575	1568	1633	1605
13	1577	1570	1649	1631
13.1	1590	1578	1654	1650
13.2	1579	1569	1634	1628
13.3	1567	1557	1621	1614
13.4	1597	1594	1656	1654
13.5	1599	1583	1646	1651
13.6	1591	1570	1636	1652
13.7	1598	1590	1649	1649
13.8	1591	1586	1639	1645
13.9	1613	1593	1654	1665
14	1614	1595	1657	1673
14.1	1611	1598	1647	1666
14.2	1606	1591	1643	1657
14.3	1609	1595	1642	1657
14.4	1618	1603	1657	1670
14.5	1627	1616	1669	1675
14.6	1639	1636	1678	1687
14.7	1635	1629	1668	1682
14.8	1651	1646	1679	1701
14.9	1645	1621	1675	1699
15	1657	1628	1677	1715
15.1	1679	1628	1673	1730
15.2	1685	1641	1680	1732
15.3	1659	1621	1665	1708
15.4	1648	1620	1659	1694
15.5	1652	1618	1657	1694
15.6	1626	1590	1631	1666
15.7	1614	1578	1620	1654
15.8	1609	1566	1614	1645
15.9	1623	1592	1625	1649
16	1659	1631	1659	1687
16.1	1689	1653	1686	1726
16.2	1704	1683	1712	1748
16.3	1713	1699	1717	1755
16.4	1695	1695	1710	1745
16.5	1682	1685	1703	1730
16.6	1683	1688	1720	1748
16.7	1703	1712	1730	1764
16.8	1715	1721	1745	1786
16.9	1706	1743	1757	1782
17	1700	1732	1772	1791
17.1	1720	1739	1761	1792
17.2	1678	1677	1742	1769
17.3	1658	1702	1786	1791
17.4	1666	1750	1807	1803

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
17.5	1674	1766	1821	1823
17.6	1666	1748	1844	1838
17.7	1659	1741	1835	1896
17.8	1650	1739	1850	1922
17.9	1668	1762	1840	1919
18	1687	1788	1870	1900
18.1	1703	1812	1884	1907
18.2	1706	1809	1904	1905
18.3	1697	1775	1895	1884
18.4	1671	1743	1861	1856
18.5	1670	1740	1831	1825
18.6	1672	1742	1822	1808
18.7	1672	1737	1811	1798
18.8	1679	1743	1824	1806
18.9	1707	1750	1851	1823
19	1726	1768	1861	1830
19.1	1706	1726	1830	1811
19.2	1678	1692	1776	1783
19.3	1630	1641	1680	1679
19.4	1613	1623	1639	1636
19.5	1593	1609	1606	1606
19.6	1583	1613	1613	1604
19.7	1594	1629	1638	1618
19.8	1584	1599	1614	1605
19.9	1331	1453	1455	1454
20	1284	1390	1358	1364
20.1	1325	1376	1257	1277
20.2	1305	1349	1181	1209
20.3	1325	1339	1112	1153
20.4	1331	1331	1061	1104
20.5	1313	1297	996	1018
20.6	1325	1259	965	989
20.7	1285	1214	942	971
20.8	1286	1198	917	949
20.9	1271	1172	891	923
21	1241	1151	845	896
21.1	1198	1115	816	875
21.2	1172	1084	795	857
21.3	1179	1078	783	852
21.4	1165	1055	775	848
21.5	1132	1057	764	844
21.6	1097	1073	756	823
21.7	1112	1118	773	823
21.8	1113	1117	769	828
21.9	1116	1117	751	831
22	1110	1107	731	839
22.1	1098	1094	725	997
22.2	1073	1075	644	1125
22.3	1035	1045	654	1083
22.4	909	970	623	1022
22.5	775	927	496	783
22.6	703	767	553	741
22.7	679	734	545	736
22.8	635	716	542	717
22.9	581	695	526	699
23	560	693	528	691
23.1	557	674	536	690
23.2	563	675	502	699
23.3	575	680	501	712
23.4	586	677	578	720
23.5	449	539	512	650
23.6	393	443	470	590
23.7	329	343	424	503

G100397303SAT-002C | Canadian Home Builders Association | April 21, 2011

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
0	88	90	90	90	92	90	92	90	91	94
0.1	90	91	90	90	92	90	92	90	91	94
0.2	92	95	93	91	92	90	92	90	91	94
0.3	95	98	95	93	93	93	92	91	91	94
0.4	96	98	97	95	93	93	92	92	91	94
0.5	97	99	97	96	93	92	92	92	91	94
0.6	98	101	98	97	93	94	92	92	91	94
0.7	100	100	99	97	93	94	92	93	91	94
0.8	100	101	101	97	94	94	92	93	91	94
0.9	102	102	102	98	94	93	93	93	91	94
1	104	105	104	100	94	93	92	94	91	94
1.1	105	108	107	99	94	92	92	94	91	94
1.2	107	112	109	100	94	91	92	93	91	94
1.3	110	116	114	99	94	91	92	94	92	94
1.4	113	118	118	107	95	94	92	96	92	94
1.5	117	122	121	109	96	102	93	99	92	94
1.6	122	127	125	114	98	104	94	100	93	94
1.7	127	135	133	114	99	105	94	103	93	94
1.8	139	154	145	121	100	106	95	104	93	94
1.9	169	206	178	155	104	113	96	109	94	94
2	239	268	242	220	129	164	107	144	97	94
2.1	307	390	297	273	145	181	115	165	101	95
2.2	366	448	344	327	170	190	119	195	106	96
2.3	410	501	394	317	194	209	128	204	113	99
2.4	436	530	424	324	192	222	140	224	120	99
2.5	469	546	473	365	197	220	145	223	127	101
2.6	490	598	534	376	211	233	154	239	135	105
2.7	512	733	593	354	214	234	154	234	142	107
2.8	545	730	693	365	235	267	172	245	153	111
2.9	576	806	758	336	251	265	187	248	162	114
3	636	904	844	322	266	282	187	251	169	117
3.1	711	1125	1023	287	253	269	196	266	174	122
3.2	771	1158	1141	336	298	315	205	263	182	125
3.3	858	1197	1181	327	292	305	222	282	188	126
3.4	918	1261	1198	317	287	257	213	270	195	128
3.5	1245	1366	1213	312	309	256	214	263	199	129
3.6	1199	1395	1232	426	328	288	237	276	206	130
3.7	1132	1402	1277	397	326	287	248	301	214	133
3.8	1196	1420	1291	393	299	259	232	272	216	132
3.9	1100	1427	1309	398	265	222	220	245	215	131
4	1141	1403	1284	374	255	198	201	223	215	132
4.1	1188	1478	1345	377	256	194	186	197	210	127
4.2	1384	1517	1386	428	288	225	206	237	210	129
4.3	1537	1631	1532	610	323	226	211	248	212	129
4.4	1610	1798	1611	1386	604	366	255	262	218	132
4.5	1556	1809	1603	1112	724	404	279	281	226	135
4.6	1649	1777	1650	1087	826	426	271	279	231	133
4.7	1556	1821	1630	928	850	448	314	307	238	129
4.8	1681	1762	1629	1077	795	482	338	344	264	136
4.9	1743	1880	1765	937	699	434	329	344	275	142
5	1859	1914	1799	998	649	357	309	319	286	145
5.1	1811	1944	1784	807	552	347	280	299	286	151
5.2	1981	1935	1892	841	537	359	279	301	288	148
5.3	1852	1897	1970	904	542	366	288	291	285	141
5.4	1904	1985	2041	1190	996	779	611	544	300	153
5.5	1882	1888	2029	929	828	685	584	519	335	168
5.6	1834	1893	1972	868	667	516	438	415	349	174
5.7	1868	1891	1942	907	640	455	377	392	349	176
5.8	1974	1989	2169	994	663	477	367	373	337	179
5.9	1930	1998	2070	975	698	480	394	419	342	183
6	1911	1954	1884	908	610	414	363	372	341	182
6.1	1874	1932	1929	882	579	386	336	338	337	179
6.2	1903	1899	1989	949	634	408	345	354	331	175
6.3	2088	2025	2212	1069	695	447	353	363	313	164
6.4	2057	2088	2241	1118	733	467	369	378	314	165
6.5	2015	2021	2100	967	657	423	350	354	319	174
6.6	1991	2003	2293	970	631	393	322	331	318	171
6.7	2108	2071	2313	973	597	396	340	332	314	168
6.8	2314	2071	2207	1507	783	493	395	408	314	164
6.9	2032	2041	1895	1024	664	454	392	411	324	173
7	1987	2074	1988	919	631	404	357	364	321	165
7.1	2191	2019	1938	1128	732	482	383	371	315	160
7.2	1983	2082	2002	920	631	413	339	353	315	162
7.3	1984	1985	2015	1121	650	415	366	416	306	158
7.4	1971	2036	1926	866	618	401	339	356	311	161
7.5	2012	2081	2016	909	637	435	340	350	305	161
7.6	1981	2007	1918	990	677	429	339	342	299	166
7.7	2171	1949	1922	965	567	389	325	358	299	162
7.8	2060	1926	1885	930	551	382	328	339	287	154
7.9	2213	2015	2019	952	610	424	350	355	280	150
8	2011	2058	2054	923	584	387	330	340	276	148
8.1	2091	1934	1933	950	616	426	343	344	275	146
8.2	2023	2118	2055	875	590	395	336	332	275	154
8.3	2135	2023	2001	938	622	455	348	344	282	166
8.4	1919	2011	1959	851	565	412	344	346	284	167
8.5	1965	2037	1931	879	589	440	367	365	292	173
8.6	2004	2074	2184	964	628	444	363	371	299	176

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
8.7	2024	2058	2135	1037	657	444	350	360	301	176
8.8	2101	1995	1979	928	598	419	344	348	303	179
8.9	2124	2026	2010	1012	607	427	350	348	304	180
9	2044	2011	2024	913	592	416	348	346	303	180
9.1	2056	1970	1886	1059	605	405	351	394	302	173
9.2	2035	1916	1902	964	599	400	340	359	306	178
9.3	2089	1963	1850	870	547	352	310	320	297	170
9.4	1975	1940	1806	921	550	369	332	336	286	172
9.5	2019	1966	1888	904	595	407	332	339	291	168
9.6	1994	1964	1830	923	581	384	331	330	289	168
9.7	1922	1892	1765	816	574	383	325	326	288	164
9.8	1984	1953	1905	1081	634	427	350	363	291	171
9.9	1882	1911	1838	889	567	385	348	353	294	175
10	1908	1935	1910	923	571	359	320	337	298	175
10.1	1887	1955	1890	1076	609	371	335	359	299	176
10.2	1841	1892	1833	823	575	413	352	366	302	181
10.3	1798	1833	1761	860	544	395	332	351	302	179
10.4	1854	1835	1768	775	526	376	362	380	307	181
10.5	1890	1853	1757	852	556	386	340	343	302	170
10.6	1857	1846	1661	972	609	416	347	349	304	172
10.7	1799	1857	1747	807	540	384	334	329	298	175
10.8	1866	1860	1780	944	529	347	329	347	293	171
10.9	1881	1821	1770	846	503	341	313	324	287	166
11	1904	1851	1765	919	595	388	307	322	279	162
11.1	1922	1895	1791	920	524	341	309	325	284	165
11.2	1906	1902	1911	838	567	359	309	307	282	167
11.3	1920	1916	1833	869	589	385	316	321	279	171
11.4	1948	1925	1801	1151	618	410	343	400	286	171
11.5	1888	1859	1773	948	658	464	378	426	293	171
11.6	1888	1864	1770	1038	605	404	345	388	294	167
11.7	1901	1885	1753	1082	624	407	343	410	294	165
11.8	1860	1832	1757	836	558	380	330	362	292	167
11.9	1830	1788	1761	809	570	382	324	342	280	169
12	1884	1850	1756	1244	738	484	405	451	293	176
12.1	1826	1808	1771	960	609	425	374	421	307	181
12.2	1874	1848	1876	1030	594	390	360	385	306	177
12.3	1795	1787	1754	939	598	367	332	355	306	173
12.4	1858	1804	1780	1120	608	373	341	384	300	170
12.5	1832	1793	1778	982	630	420	335	371	303	177
12.6	1846	1796	1787	898	580	377	321	338	298	170
12.7	1866	1813	1789	1000	565	384	346	377	294	169
12.8	1845	1811	1770	993	604	438	357	419	299	173
12.9	1851	1819	1781	1150	590	412	351	379	302	178
13	1870	1856	1808	1346	719	423	388	424	310	178
13.1	1857	1842	1820	1251	703	420	382	443	316	181
13.2	1866	1831	1770	1074	717	451	374	413	317	182
13.3	1822	1814	1794	771	582	430	374	391	316	183
13.4	1815	1785	1743	1029	608	380	332	358	310	177
13.5	1816	1797	1739	1159	697	421	370	411	314	182
13.6	1794	1762	1715	986	642	384	325	367	311	185
13.7	1831	1759	1729	769	629	427	346	356	303	183
13.8	1807	1786	1764	762	546	373	324	336	300	175
13.9	1754	1733	1774	747	494	349	300	302	288	178
14	1758	1738	1742	780	515	342	300	326	284	172
14.1	1768	1741	1756	868	505	337	311	338	276	163
14.2	1734	1677	1697	930	572	351	306	353	275	166
14.3	1756	1684	1726	830	509	324	308	347	271	167
14.4	1784	1682	1715	729	453	331	292	309	268	162
14.5	1732	1692	1728	781	438	299	279	313	256	158
14.6	1714	1676	1676	750	463	303	269	288	258	157
14.7	1469	1731	1723	906	550	372	321	349	265	166
14.8	1334	1744	1724	1049	536	346	320	352	272	170
14.9	1316	1780	1721	911	439	293	305	335	280	170
15	1300	1813	1717	1043	523	332	316	323	280	169
15.1	1177	1679	1690	1009	550	332	311	324	283	171
15.2	1259	1785	1715	1049	563	330	290	340	282	170
15.3	1207	1690	1775	979	563	356	315	340	285	176
15.4	1120	1672	1685	810	465	302	298	335	286	175
15.5	1211	1685	1662	685	455	294	288	311	284	172
15.6	1176	1633	1730	706	446	308	281	308	279	170
15.7	1072	1586	1662	788	473	341	295	305	278	171
15.8	1116	1602	1674	721	433	302	282	299	277	171
15.9	1063	1563	1682	676	422	290	285	283	274	172
16	1106	1538	1671	618	388	272	267	269	273	175
16.1	1103	1521	1686	599	362	245	259	260	271	172
16.2	1233	1578	1656	756	358	239	258	268	268	170
16.3	1181	1525	1641	850	401	269	272	301	268	167
16.4	1144	1534	1647	776	468	331	290	318	269	169
16.5	1065	1483	1625	745	419	283	288	317	271	172
16.6	1018	1447	1636	679	430	288	274	303	269	168
16.7	1048	1428	1628	624	407	269	262	283	266	165
16.8	1147	1454	1677	608	411	290	266	276	259	164
16.9	1113	1436	1643	705	431	291	269	291	255	161
17	1107	1432	1638	679	426	289	262	271	252	160
17.1	1066	1402	1612	703	461	329	271	292	255	155
17.2	1078	1486	1691	754	485	335	298	302	261	159
17.3	1201	1634	1737	724	428	301	304	360	272	164
17.4	1079	1539	1642	644	401	300	293	324	279	165

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
17.5	1038	1428	1601	484	344	269	274	298	276	163
17.6	995	1397	1646	505	337	263	267	273	273	166
17.7	995	1312	1536	467	314	230	254	254	270	170
17.8	1002	1271	1538	437	312	239	262	271	267	167
17.9	1012	1276	1452	431	323	249	261	260	265	164
18	941	1180	1442	544	333	254	267	281	263	168
18.1	998	1191	1503	615	401	311	274	294	263	169
18.2	1123	1142	1530	586	349	252	258	255	259	170
18.3	1152	1158	1469	670	414	280	264	267	252	170
18.4	1054	1160	1529	500	379	251	254	247	250	169
18.5	1194	1128	1472	466	366	272	268	259	249	168
18.6	1030	1269	1427	638	340	254	269	267	246	165
18.7	1036	1215	1405	527	335	245	256	252	242	164
18.8	975	1189	1422	605	330	228	261	279	243	164
18.9	1036	1187	1409	529	351	252	258	265	244	167
19	1100	1124	1476	536	367	261	249	247	240	163
19.1	1213	1367	1550	478	361	267	265	295	238	161
19.2	1266	1378	1511	487	356	257	258	281	239	159
19.3	1288	1353	1475	541	380	254	251	275	237	155
19.4	1217	1325	1433	470	343	237	244	254	237	156
19.5	1095	1242	1467	422	306	217	231	233	235	157
19.6	1004	1159	1390	407	276	205	225	219	232	158
19.7	1024	1148	1318	359	291	218	223	213	226	155
19.8	946	1095	1243	358	292	216	220	217	222	156
19.9	784	1049	1135	303	292	220	221	215	215	156
20	754	1014	1125	347	258	214	223	229	214	155
20.1	737	949	894	352	231	196	232	245	216	158
20.2	709	900	770	274	200	169	215	223	212	154
20.3	710	830	650	276	213	172	209	212	206	153
20.4	719	834	668	258	197	161	201	198	198	146
20.5	710	770	606	238	191	156	198	190	194	145
20.6	656	768	570	241	190	166	194	195	191	147
20.7	625	744	542	249	200	171	195	186	186	148
20.8	622	645	524	227	183	166	192	185	184	148
20.9 BAD TC		531	520	206	168	157	186	181	181	149
21	235	541	463	186	157	155	187	189	180	147
21.1	276	586	452	242	185	186	207	213	181	147
21.2	275	551	442	261	190	181	198	204	181	148
21.3	14	574	433	291	218	181	192	185	178	147
21.4	-160	581	436	254	210	190	190	190	175	145
21.5 BAD TC		599	441	276	216	179	190	192	171	143
21.6 BAD TC		597	421	288	212	174	189	191	171	144
21.7 BAD TC		615	455	323	216	172	188	195	167	141
21.8	521	557	409	280	208	168	190	189	166	138
21.9	654	493	378	218	184	158	185	177	167	140
22	230	536	395	200	171	153	177	166	166	141
22.1	241	543	356	208	174	152	175	166	165	142
22.2	617	518	339	215	168	149	176	178	165	143
22.3	796	512	358	225	164	151	179	183	164	143
22.4	1217	517	362	285	170	142	176	194	166	143
22.5	442	555	372	221	167	136	171	175	165	142
22.6 BAD TC		529	391	282	196	157	173	174	163	142
22.7	-67	534	377	280	191	166	175	174	161	141
22.8	1675	465	326	251	199	174	173	174	159	140
22.9	1973	587	248	249	192	176	174	182	160	139
23 BAD TC		249	157	214	165	152	169	179	159	140
23.1 BAD TC		173	98	180	156	139	164	170	160	140
23.2 BAD TC		152	147	138	151	132	163	175	158	139
23.3 BAD TC		239	160	115	113	130	162	163	156	138
23.4 BAD TC		341	168	134	130	128	157	153	153	136
23.5 BAD TC		355	242	136	133	130	157	150	152	137
23.6 BAD TC		338	242	177	123	125	156	146	150	137
23.7 BAD TC		339	258	172	127	130	154	142	149	137

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
0	BAD TC		89	87	87	87	88	87	88	90	94
0.1	BAD TC		89	87	87	87	89	88	88	90	94
0.2	BAD TC		89	87	87	87	88	87	88	90	94
0.3	BAD TC		89	87	87	87	88	87	88	90	94
0.4	BAD TC		89	87	87	87	88	87	88	90	94
0.5	BAD TC		89	87	87	87	88	87	88	90	94
0.6	BAD TC		89	87	87	87	88	87	88	90	94
0.7	BAD TC		89	87	87	87	88	87	88	90	94
0.8	BAD TC		89	87	87	87	88	87	88	90	94
0.9	BAD TC		89	87	87	87	88	87	89	90	94
1	BAD TC		89	87	87	87	88	87	89	90	94
1.1	BAD TC		89	87	87	87	88	87	89	90	94
1.2	BAD TC		89	87	87	87	88	87	89	90	94
1.3	BAD TC		89	87	88	87	88	87	89	90	94
1.4	BAD TC		89	87	87	87	88	87	89	90	94
1.5	BAD TC		89	87	87	87	88	87	89	90	94
1.6	BAD TC		89	87	87	87	88	87	89	90	94
1.7	BAD TC		89	87	87	87	88	87	89	90	94
1.8	BAD TC		89	87	87	87	88	88	90	90	94
1.9	BAD TC		89	87	87	87	88	89	91	90	94
2	BAD TC		89	88	87	87	88	90	94	90	94
2.1	BAD TC		89	88	87	87	88	88	92	90	94
2.2	BAD TC		89	88	88	87	88	89	91	90	94
2.3	BAD TC		90	89	89	89	89	90	91	91	94
2.4	BAD TC		89	89	88	88	89	88	90	91	93
2.5	BAD TC		90	89	89	88	89	88	90	91	94
2.6	BAD TC		90	89	89	88	89	88	90	91	93
2.7	BAD TC		90	90	89	88	89	88	90	91	93
2.8	BAD TC		91	90	90	89	90	88	90	91	93
2.9	BAD TC		92	91	92	90	91	89	90	92	93
3	BAD TC		93	92	92	91	92	89	91	92	93
3.1	BAD TC		94	94	95	93	93	95	107	94	93
3.2	BAD TC		97	95	98	95	96	98	135	97	93
3.3	BAD TC		99	98	102	99	99	106	150	102	94
3.4	BAD TC		103	101	106	103	103	139	184	112	94
3.5	BAD TC		107	103	114	109	113	170	216	127	97
3.6	BAD TC		113	108	121	115	131	189	221	145	98
3.7	BAD TC		118	112	127	119	134	179	218	155	100
3.8	BAD TC		121	116	129	117	139	222	273	174	103
3.9	BAD TC		121	118	129	122	164	288	328	203	109
4	BAD TC		123	117	131	167	202	365	417	239	118
4.1	BAD TC		127	120	146	248	242	429	457	278	126
4.2	BAD TC		128	119	147	200	221	368	370	288	130
4.3	BAD TC		133	125	153	244	263	386	397	300	136
4.4	BAD TC		137	131	170	276	276	425	460	325	141
4.5	BAD TC		141	138	186	386	369	516	518	360	148
4.6	BAD TC		152	147	202	326	361	501	555	405	153
4.7	BAD TC		161	149	215	284	306	531	571	431	157
4.8	BAD TC		172	155	233	281	266	444	517	437	154
4.9	BAD TC		178	154	231	333	307	484	527	435	154
5	BAD TC		177	155	220	313	322	490	521	449	159
5.1	BAD TC		177	153	210	284	320	489	538	451	161
5.2	BAD TC		178	150	208	237	292	427	471	445	162
5.3	BAD TC		180	153	213	231	284	450	508	442	167
5.4	BAD TC		181	157	211	231	282	365	414	430	165
5.5	BAD TC		177	158	201	207	254	336	371	402	161
5.6	BAD TC		177	158	208	209	256	372	417	385	162
5.7	BAD TC		182	160	207	221	261	379	442	379	163
5.8	BAD TC		185	168	212	248	284	430	504	391	165
5.9	BAD TC		190	169	214	242	298	449	491	408	167
6	BAD TC		195	169	219	253	313	479	526	424	171
6.1	BAD TC		196	177	225	263	340	537	583	443	173
6.2	BAD TC		197	173	228	252	328	470	530	455	177
6.3	BAD TC		198	174	225	275	332	483	542	466	181
6.4	BAD TC		201	171	227	270	339	508	563	471	180
6.5	BAD TC		198	171	232	284	334	532	615	484	186
6.6	BAD TC		197	177	234	300	354	540	608	484	187
6.7	BAD TC		204	181	251	296	365	537	605	508	189
6.8	BAD TC		216	202	257	285	333	447	519	482	184
6.9	BAD TC		213	191	245	273	314	411	497	484	180
7	BAD TC		215	179	238	269	312	470	540	458	180
7.1	BAD TC		212	179	234	269	320	487	564	454	177
7.2	BAD TC		215	192	247	276	322	471	516	440	175
7.3	BAD TC		220	200	240	260	303	378	445	418	172
7.4	BAD TC		218	192	247	287	330	484	569	414	172
7.5	BAD TC		216	189	246	266	319	492	549	425	174
7.6	BAD TC		221	197	249	261	313	496	559	421	174
7.7	BAD TC		216	180	235	252	306	454	526	415	172
7.8	BAD TC		213	180	229	235	282	425	479	408	175
7.9	BAD TC		212	184	225	237	278	389	454	402	176
8	BAD TC		214	188	224	235	286	412	477	405	180
8.1	BAD TC		212	190	223	263	308	451	510	413	182
8.2	BAD TC		217	192	238	296	367	538	592	429	185
8.3	BAD TC		217	186	245	284	333	457	510	440	185
8.4	BAD TC		217	187	239	256	307	370	443	424	183
8.5	BAD TC		214	191	235	239	289	340	433	407	184
8.6	BAD TC		218	192	237	230	290	391	462	396	182

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
8.7	BAD TC		218	190	232	235	283	417	467	399	185
8.8	BAD TC		219	191	234	238	321	430	473	406	187
8.9	BAD TC		218	190	233	243	310	451	491	403	186
9	BAD TC		217	187	237	248	308	472	525	411	187
9.1	BAD TC		218	192	237	246	291	363	437	398	182
9.2	BAD TC		218	186	232	245	284	374	460	386	180
9.3	BAD TC		222	185	231	299	343	488	547	386	179
9.4	BAD TC		222	188	233	270	322	469	520	386	181
9.5	BAD TC		224	190	239	250	302	457	507	397	181
9.6	BAD TC		225	196	234	240	287	425	488	394	180
9.7	BAD TC		227	198	233	237	289	412	481	389	180
9.8	BAD TC		223	188	237	236	278	381	429	379	179
9.9	BAD TC		224	189	239	235	286	394	443	373	180
10	BAD TC		229	196	231	230	290	372	430	373	182
10.1	BAD TC		229	188	234	226	289	372	438	361	179
10.2	BAD TC		226	192	224	215	277	336	378	355	178
10.3	BAD TC		223	185	232	222	268	358	383	349	177
10.4	BAD TC		221	181	219	209	254	302	345	334	175
10.5	BAD TC		223	189	214	211	260	343	403	330	175
10.6	BAD TC		223	189	219	216	265	364	405	335	177
10.7	BAD TC		224	191	222	225	281	398	441	343	177
10.8	BAD TC		227	189	227	228	281	382	413	348	177
10.9	BAD TC		231	191	225	223	278	388	445	348	176
11	BAD TC		230	197	217	212	277	404	485	344	175
11.1	BAD TC		225	201	211	209	269	409	457	345	174
11.2	BAD TC		227	201	218	210	265	386	454	348	174
11.3	BAD TC		235	208	226	228	290	425	497	362	178
11.4	BAD TC		237	209	240	228	273	352	409	364	177
11.5	BAD TC		237	206	239	225	266	295	370	348	174
11.6	BAD TC		238	203	238	226	263	356	421	337	173
11.7	BAD TC		239	203	234	229	260	296	358	329	172
11.8	BAD TC		237	195	238	232	269	352	427	326	172
11.9	BAD TC		238	201	234	227	269	398	448	330	172
12	BAD TC		241	209	232	222	259	328	379	327	171
12.1	BAD TC		234	205	224	221	253	282	348	315	169
12.2	BAD TC		234	212	219	215	251	306	376	307	167
12.3	BAD TC		232	209	215	224	258	353	447	311	168
12.4	BAD TC		234	195	220	221	263	363	415	320	168
12.5	BAD TC		238	200	223	225	265	373	431	320	168
12.6	BAD TC		236	204	225	234	265	392	444	326	169
12.7	BAD TC		239	202	227	231	260	343	407	327	169
12.8	BAD TC		238	198	229	227	266	294	376	319	168
12.9	BAD TC		238	200	235	223	263	286	381	313	167
13	BAD TC		240	200	239	225	262	260	372	309	168
13.1	BAD TC		243	203	235	224	258	257	343	303	166
13.2	BAD TC		240	200	231	225	259	277	359	300	166
13.3	BAD TC		239	192	227	224	274	340	419	302	166
13.4	BAD TC		244	202	228	225	269	335	415	309	167
13.5	BAD TC		247	206	234	231	263	279	377	308	166
13.6	BAD TC		244	199	240	229	261	314	416	308	166
13.7	BAD TC		246	201	242	278	294	307	464	316	169
13.8	BAD TC		245	195	239	296	313	418	461	335	172
13.9	BAD TC		244	196	237	331	349	465	488	354	177
14	BAD TC		245	203	237	305	334	431	473	366	179
14.1	BAD TC		239	197	234	289	308	387	467	365	179
14.2	BAD TC		241	199	231	243	290	381	454	359	178
14.3	BAD TC		241	206	235	253	293	395	457	353	177
14.4	BAD TC		241	194	239	250	294	422	482	353	178
14.5	BAD TC		238	196	229	303	319	421	458	356	181
14.6	BAD TC		241	191	227	260	325	453	499	369	183
14.7	BAD TC		245	195	232	263	318	414	457	372	185
14.8	BAD TC		250	205	253	269	323	410	446	375	187
14.9	BAD TC		252	199	250	253	310	379	456	364	184
15	BAD TC		250	213	244	244	319	422	490	365	183
15.1	BAD TC		255	206	247	249	324	436	520	366	183
15.2	BAD TC		252	199	236	241	312	391	452	362	183
15.3	BAD TC		254	200	237	234	292	366	419	359	184
15.4	BAD TC		251	198	235	224	282	328	393	351	184
15.5	BAD TC		246	195	228	217	276	332	393	346	184
15.6	BAD TC		246	194	230	224	285	333	408	344	186
15.7	BAD TC		247	200	226	237	302	377	436	347	187
15.8	BAD TC		247	191	229	247	302	375	422	348	189
15.9	BAD TC		245	193	232	284	343	427	462	359	191
16	BAD TC		245	193	234	304	345	451	492	373	194
16.1	BAD TC		255	199	224	302	347	452	473	376	193
16.2	BAD TC		260	210	234	268	317	396	443	373	190
16.3	BAD TC		260	208	224	236	296	366	449	363	188
16.4	BAD TC		256	205	227	224	284	390	473	361	189
16.5	BAD TC		256	201	225	221	282	405	451	355	187
16.6	BAD TC		253	206	229	216	284	376	437	354	187
16.7	BAD TC		253	208	230	239	314	438	507	363	191
16.8	BAD TC		253	212	232	287	335	457	513	383	195
16.9	BAD TC		255	202	235	310	343	449	505	392	198
17	BAD TC		256	201	251	330	370	467	506	396	199
17.1	BAD TC		254	198	244	317	368	509	549	404	202
17.2	BAD TC		261	200	245	333	371	467	503	401	201
17.3	BAD TC		263	207	253	286	338	388	428	380	199
17.4	BAD TC		263	195	241	277	353	414	475	381	198

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
17.5	BAD TC		259	194	227	248	334	414	475	385	199
17.6	BAD TC		258	191	221	309	349	454	506	391	200
17.7	BAD TC		252	195	220	318	350	457	492	395	202
17.8	BAD TC		251	192	219	273	348	437	465	383	200
17.9	BAD TC		253	182	219	272	337	433	480	380	200
18	BAD TC		248	184	216	246	310	399	444	372	198
18.1	BAD TC		244	181	213	247	301	375	433	365	197
18.2	BAD TC		243	188	220	309	368	464	514	374	199
18.3	BAD TC		243	183	222	276	353	439	473	382	202
18.4	BAD TC		248	186	235	271	339	413	457	383	204
18.5	BAD TC		246	190	223	253	334	406	441	376	205
18.6	BAD TC		245	186	216	250	321	404	441	372	203
18.7	BAD TC		245	176	211	267	345	423	470	373	204
18.8	BAD TC		236	174	214	287	337	403	445	371	204
18.9	BAD TC		235	180	202	262	330	426	489	375	206
19	BAD TC		236	183	228	296	352	446	492	381	210
19.1	BAD TC		237	179	215	265	335	407	468	382	211
19.2	BAD TC		244	179	211	241	344	424	479	383	210
19.3	BAD TC		243	181	202	250	350	448	488	380	208
19.4	BAD TC		239	175	200	231	357	436	493	380	209
19.5	BAD TC		238	181	209	300	371	466	487	382	209
19.6	BAD TC		235	184	219	310	372	449	487	379	211
19.7	BAD TC		231	180	194	288	348	404	442	380	213
19.8	BAD TC		227	170	196	286	338	400	444	374	212
19.9	BAD TC		223	169	190	263	317	365	409	366	212
20	BAD TC		223	172	167	210	300	339	356	351	211
20.1	BAD TC		217	163	164	181	273	274	317	331	205
20.2	BAD TC		220	165	162	203	264	278	310	310	202
20.3	BAD TC		218	157	153	190	253	281	320	299	200
20.4	BAD TC		213	148	155	189	257	285	330	293	200
20.5	BAD TC		216	153	167	218	263	302	343	293	200
20.6	BAD TC		216	157	156	180	252	276	287	287	199
20.7	BAD TC		218	157	149	191	248	273	290	280	198
20.8	BAD TC		219	151	146	176	249	267	279	271	196
20.9	BAD TC		219	149	139	172	237	253	260	263	194
21	BAD TC		218	155	136	172	233	239	243	255	192
21.1	BAD TC		215	152	136	158	229	211	230	245	190
21.2	BAD TC		210	146	145	161	218	202	228	235	187
21.3	BAD TC		208	144	142	161	222	222	245	233	186
21.4	BAD TC		207	149	147	162	225	232	252	232	187
21.5	BAD TC		205	144	143	154	217	235	250	231	186
21.6	BAD TC		209	145	141	153	218	225	244	232	188
21.7	BAD TC		208	152	148	161	209	217	235	229	185
21.8	BAD TC		208	143	141	169	221	223	234	228	185
21.9	BAD TC		200	131	121	189	231	224	229	224	183
22	BAD TC		169	122	104	164	211	219	230	220	183
22.1	BAD TC		159	120	92	166	217	223	234	218	182
22.2	BAD TC		150	130	89	147	206	207	222	215	180
22.3	BAD TC		158	135	86	136	206	197	204	210	179
22.4	BAD TC		157	134	88	130	193	184	197	203	177
22.5	BAD TC		160	140	96	150	204	191	204	199	175
22.6	BAD TC		165	130	90	141	191	185	200	198	175
22.7	BAD TC		170	131	92	145	193	196	213	198	174
22.8	BAD TC		174	129	97	150	200	188	200	196	174
22.9	BAD TC		176	129	89	137	188	178	188	192	173
23	BAD TC		177	125	87	125	193	166	192	189	172
23.1	BAD TC		180	126	88	128	182	160	177	184	171
23.2	BAD TC		181	128	89	120	179	152	177	180	170
23.3	BAD TC		182	124	96	147	187	167	181	176	168
23.4	BAD TC		180	123	97	138	180	169	180	175	168
23.5	BAD TC		180	131	100	140	176	166	174	174	169
23.6	BAD TC		184	131	100	137	178	164	170	172	168
23.7	BAD TC		185	129	110	143	186	175	174	171	167

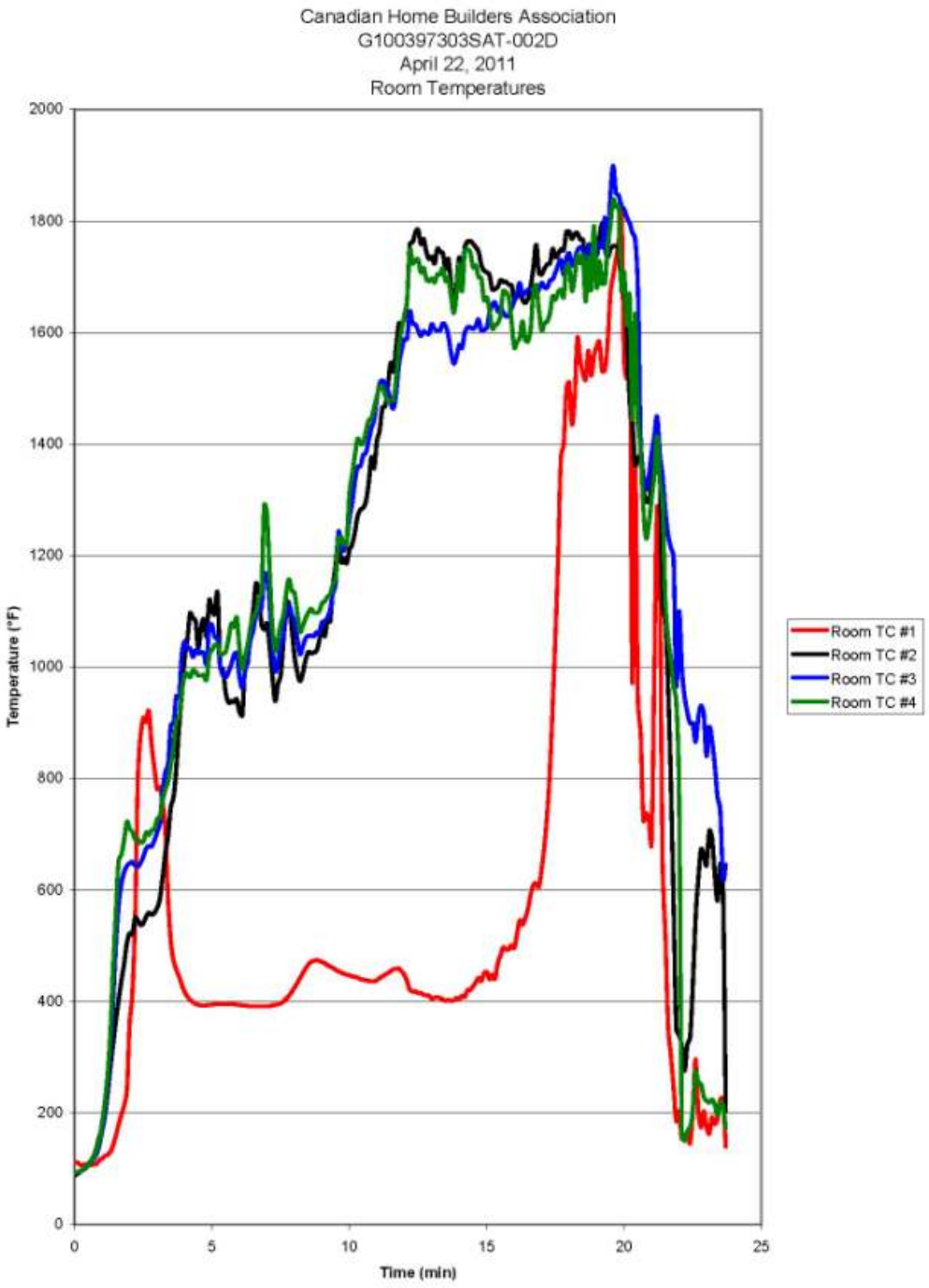
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
0	87	87	0.00	0.00	0.00	0.00	0.00
0.1	87	87	0.00	0.02	0.00	0.00	-0.07
0.2	87	87	0.02	0.05	0.05	0.02	0.00
0.3	88	87	-0.12	0.10	0.07	0.02	-0.05
0.4	87	87	-0.15	0.05	0.14	-0.21	0.02
0.5	87	87	0.17	0.02	0.00	0.02	0.02
0.6	88	87	0.02	0.12	0.00	0.05	0.02
0.7	88	87	0.02	0.05	0.00	0.00	0.02
0.8	88	87	0.02	0.05	0.00	0.00	0.02
0.9	88	87	0.05	0.05	0.07	0.00	0.00
1	87	87	0.02	0.05	0.02	-0.16	0.23
1.1	87	87	0.05	0.00	0.02	0.02	-0.05
1.2	87	87	-0.02	0.20	0.00	-0.02	0.02
1.3	87	87	0.20	0.05	0.02	0.07	-0.05
1.4	87	87	0.15	-0.05	0.05	0.05	0.02
1.5	87	87	0.32	-0.10	0.12	0.00	0.02
1.6	87	87	0.05	0.05	0.02	0.07	0.07
1.7	87	87	0.05	-0.10	0.05	0.07	0.05
1.8	87	87	0.10	0.35	0.12	0.05	0.19
1.9	87	87	-0.05	0.07	0.10	0.16	0.00
2	87	87	0.12	0.05	0.07	0.02	0.02
2.1	87	87	0.05	0.07	0.07	-0.02	0.09
2.2	87	87	0.05	0.20	0.10	-0.26	0.07
2.3	87	87	0.05	0.10	0.07	0.07	0.07
2.4	87	87	0.05	0.05	0.05	-0.19	-0.23
2.5	87	87	0.10	0.05	0.17	0.07	-0.09
2.6	87	87	-0.10	0.12	0.12	0.07	0.07
2.7	87	87	0.07	-0.22	0.29	0.02	0.05
2.8	87	87	0.05	0.10	0.41	0.14	0.02
2.9	88	87	0.10	0.07	0.45	0.05	0.02
3	87	87	0.10	0.10	0.60	0.12	0.07
3.1	87	87	0.10	0.12	1.03	0.07	0.02
3.2	87	87	0.10	0.05	1.29	0.07	0.05
3.3	88	87	0.12	0.15	1.48	0.09	0.07
3.4	88	87	0.15	0.52	2.10	0.12	0.12
3.5	88	87	0.05	0.20	2.96	0.21	0.09
3.6	88	88	0.20	0.22	3.53	0.19	0.26
3.7	88	88	0.35	0.20	4.13	0.28	0.28
3.8	88	88	0.25	0.30	4.16	0.33	0.33
3.9	88	88	0.27	0.32	3.34	0.40	0.28
4	88	88	0.30	0.89	3.96	0.35	0.42
4.1	88	88	0.27	0.37	5.18	0.44	0.39
4.2	88	88	0.32	0.42	4.94	0.47	0.58
4.3	89	89	0.40	0.49	7.07	0.63	0.67
4.4	89	90	0.47	0.54	7.02	0.68	0.63
4.5	89	90	0.55	0.59	11.58	0.84	0.93
4.6	89	90	0.65	0.79	9.77	0.91	1.18
4.7	89	91	0.82	0.87	15.57	0.87	1.30
4.8	90	91	0.84	1.04	10.20	1.24	1.30
4.9	90	91	0.92	1.41	11.09	1.40	1.39
5	90	92	1.02	1.26	13.75	1.52	1.56
5.1	91	93	1.12	1.66	10.46	1.66	1.70
5.2	92	93	1.61	1.19	7.90	2.01	1.81
5.3	92	94	1.19	1.61	12.30	1.92	2.11
5.4	92	94	1.42	1.93	11.92	2.09	2.23
5.5	92	95	1.49	1.81	10.87	2.13	2.42
5.6	93	95	1.61	2.28	10.24	2.27	2.49
5.7	93	95	1.61	2.57	13.75	2.41	2.67
5.8	93	95	1.71	2.57	10.44	2.50	2.65
5.9	93	96	1.81	2.42	12.80	3.09	2.86
6	94	97	1.84	2.40	11.75	2.78	3.25
6.1	95	97	2.06	2.52	10.82	3.16	3.16
6.2	95	97	2.09	2.67	11.99	2.85	2.95
6.3	95	97	2.04	2.70	9.29	3.13	3.16
6.4	96	98	2.48	2.60	12.49	3.27	3.44
6.5	96	98	2.53	2.84	12.30	3.34	3.51
6.6	96	98	2.31	2.62	14.35	3.51	3.60
6.7	97	99	2.46	3.07	13.95	3.60	3.76
6.8	97	99	2.46	3.14	12.47	3.74	3.86
6.9	97	99	2.41	2.99	11.32	3.79	3.93
7	97	99	2.53	3.31	12.59	3.49	4.07
7.1	97	99	2.61	3.31	12.08	3.86	3.97
7.2	97	100	3.10	3.39	12.06	4.00	4.00
7.3	98	99	2.68	3.49	12.23	3.98	4.41
7.4	98	100	3.23	3.29	11.70	4.14	4.23
7.5	98	99	2.86	3.66	12.42	4.19	4.37
7.6	99	99	2.96	3.66	12.56	4.30	4.30
7.7	98	99	2.88	3.59	11.01	4.35	4.46
7.8	99	100	2.91	4.03	11.06	4.35	4.48
7.9	99	100	2.73	3.84	11.51	4.42	4.55
8	99	99	2.95	3.81	11.30	4.51	4.60
8.1	98	99	3.00	3.93	10.17	4.51	4.65
8.2	98	99	2.73	3.76	14.23	4.61	4.99
8.3	98	99	3.03	3.93	10.87	4.63	4.69
8.4	99	100	3.08	3.93	12.20	5.15	4.41
8.5	99	101	3.10	4.01	12.61	4.79	4.81
8.6	99	101	3.25	4.25	11.27	4.84	4.97

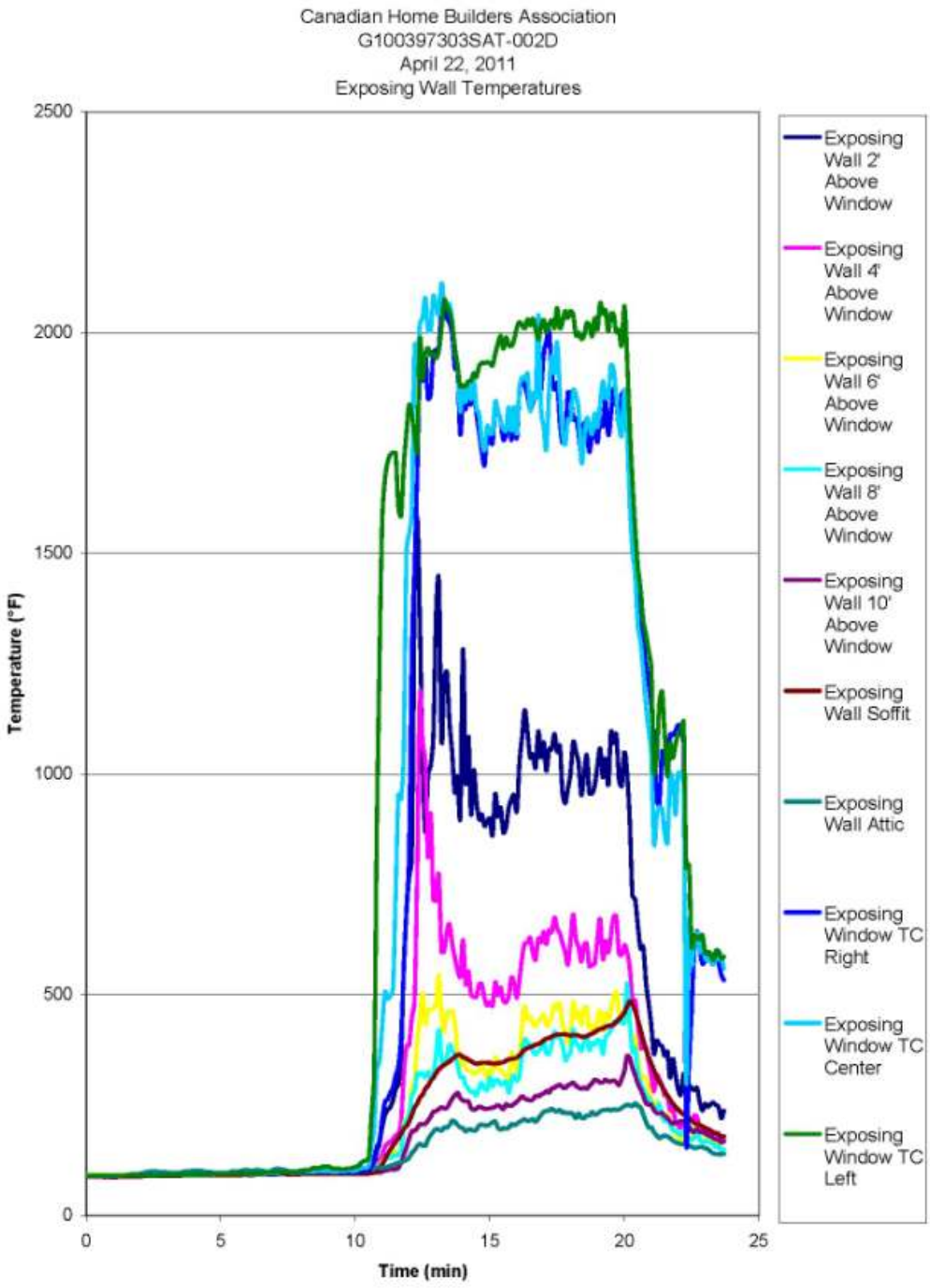
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
8.7	99	102	3.40	4.01	12.78	4.87	4.90
8.8	99	101	3.28	4.13	11.37	4.94	4.95
8.9	99	101	2.66	4.20	11.70	4.94	4.99
9	99	101	3.28	4.87	11.06	4.98	5.06
9.1	99	101	3.30	4.58	11.32	5.01	4.90
9.2	99	101	3.38	4.23	10.75	5.19	4.95
9.3	99	101	3.23	4.25	11.94	5.36	5.20
9.4	99	102	3.35	4.01	13.09	5.12	5.20
9.5	100	102	3.55	4.40	12.49	5.17	5.25
9.6	100	102	3.63	4.38	11.15	5.22	5.25
9.7	100	102	3.23	4.35	11.68	5.24	5.32
9.8	100	103	3.50	4.18	11.83	5.31	5.30
9.9	100	102	3.55	4.43	11.30	5.26	5.11
10	100	103	3.58	4.50	12.32	5.38	5.53
10.1	101	103	3.60	4.65	9.91	5.36	5.41
10.2	101	103	3.60	4.53	10.60	5.40	5.46
10.3	101	103	3.58	4.45	11.18	5.19	5.51
10.4	101	103	3.65	4.77	11.83	5.40	5.53
10.5	101	102	3.63	4.55	10.75	5.47	5.53
10.6	101	102	3.35	4.19	10.77	5.52	5.53
10.7	101	102	4.02	4.62	11.25	5.61	5.55
10.8	101	103	3.85	4.62	11.49	5.36	5.64
10.9	102	103	3.72	4.55	10.55	5.75	5.62
11	101	102	3.70	4.67	12.23	5.73	5.81
11.1	101	102	3.77	4.39	11.92	5.69	5.74
11.2	101	102	3.80	4.67	11.77	5.71	5.67
11.3	100	101	3.85	4.87	12.51	5.73	5.67
11.4	101	102	3.87	4.77	11.53	5.75	5.71
11.5	101	103	4.15	4.55	11.32	5.73	5.74
11.6	101	102	3.92	4.82	11.37	5.94	5.81
11.7	102	102	3.92	4.92	10.77	5.82	5.88
11.8	102	102	3.72	4.85	11.44	5.85	5.69
11.9	102	101	3.85	5.09	11.39	5.87	5.83
12	102	102	3.97	4.87	11.13	5.85	5.88
12.1	103	102	4.00	4.85	11.25	5.92	5.90
12.2	102	103	3.97	4.95	10.79	5.87	5.89
12.3	102	102	4.00	4.90	11.08	5.92	5.95
12.4	101	102	4.00	4.95	11.34	5.96	5.97
12.5	101	102	4.07	4.95	11.61	6.01	6.02
12.6	101	102	4.07	5.00	11.10	6.01	6.04
12.7	101	102	4.10	5.02	11.41	6.06	6.11
12.8	101	101	4.12	5.04	11.25	6.06	6.11
12.9	101	102	3.90	5.14	11.15	6.15	6.13
13	101	102	4.20	5.09	12.08	6.13	6.18
13.1	101	102	3.90	5.17	11.37	6.10	6.18
13.2	101	102	4.27	5.04	12.82	6.22	6.16
13.3	101	102	4.05	5.47	11.58	6.17	6.34
13.4	102	102	4.22	4.90	11.32	6.27	6.30
13.5	101	102	4.57	5.44	11.83	6.20	6.43
13.6	101	102	4.27	4.92	11.25	6.27	6.30
13.7	102	104	4.22	5.49	11.99	6.34	6.37
13.8	102	104	4.49	5.42	11.18	6.32	6.60
13.9	102	103	4.35	5.07	14.95	6.32	6.34
14	101	103	4.47	5.04	12.25	6.25	6.32
14.1	101	102	4.89	5.32	12.20	6.38	6.37
14.2	101	102	4.44	5.66	11.03	6.39	6.37
14.3	101	101	4.54	5.37	12.75	6.43	6.32
14.4	101	102	4.74	5.89	11.34	6.48	6.43
14.5	101	102	4.84	5.47	12.83	6.50	6.50
14.6	101	103	4.25	5.66	13.16	6.76	6.43
14.7	102	103	4.57	5.49	11.94	6.53	6.25
14.8	101	103	4.57	5.47	13.66	6.53	6.34
14.9	101	103	4.57	5.54	12.51	6.60	6.55
15	101	102	4.59	5.54	12.32	6.60	6.60
15.1	101	102	4.84	5.59	12.06	6.39	6.71
15.2	101	103	4.84	5.84	12.20	6.48	6.85
15.3	101	104	4.87	5.64	12.90	6.57	6.60
15.4	101	105	4.74	5.54	11.80	6.46	6.81
15.5	102	107	4.79	5.66	12.04	6.71	6.57
15.6	102	105	4.52	5.96	13.16	6.69	6.60
15.7	102	104	5.07	5.81	11.99	6.83	6.76
15.8	102	104	4.47	6.06	11.82	6.74	6.62
15.9	102	104	4.97	5.79	11.39	6.67	6.74
16	102	103	4.84	5.74	13.13	6.67	6.64
16.1	101	103	4.89	5.79	11.56	6.76	6.78
16.2	101	103	4.89	5.79	12.84	6.71	6.85
16.3	101	103	4.87	5.96	12.80	6.78	6.90
16.4	102	103	4.92	5.86	12.42	6.85	6.90
16.5	101	103	4.92	5.86	13.04	6.71	6.88
16.6	101	103	5.19	5.84	12.47	6.85	7.02
16.7	102	103	5.02	5.59	13.61	6.62	7.02
16.8	102	103	5.02	6.01	12.97	6.85	6.95
16.9	101	103	5.14	5.94	14.04	6.99	6.95
17	101	102	5.04	5.96	15.28	7.04	6.85
17.1	101	102	4.67	5.96	12.97	6.97	6.76
17.2	101	102	5.14	6.11	15.19	7.02	7.36
17.3	101	103	5.09	6.11	13.01	6.88	7.02
17.4	101	102	5.56	6.08	12.37	7.27	7.20

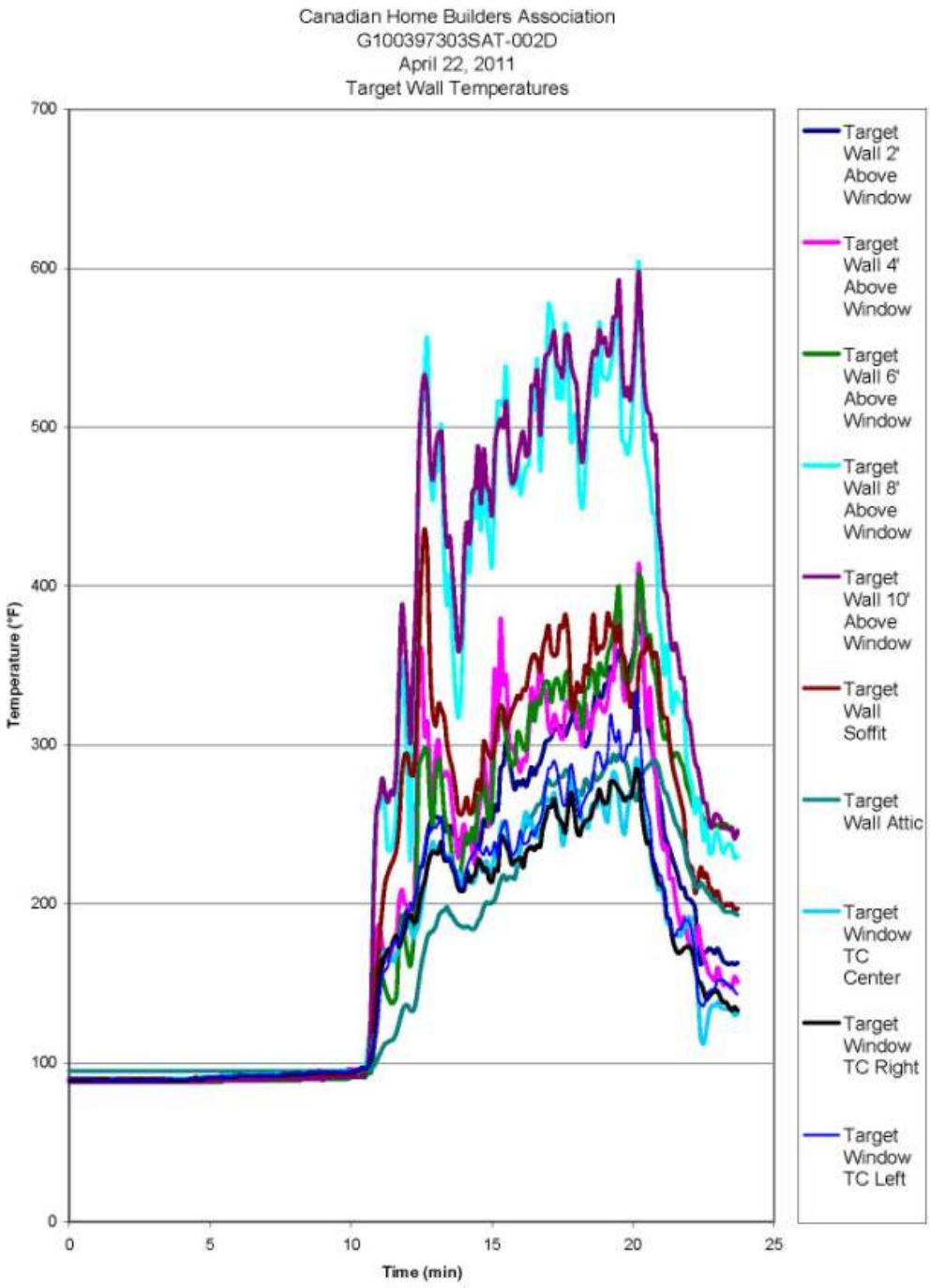
Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
17.5	101	101	5.16	6.01	11.77	7.27	7.13
17.6	101	102	5.19	6.16	12.08	7.02	6.83
17.7	101	102	5.36	6.23	12.18	6.99	6.93
17.8	102	102	5.26	6.21	11.41	6.97	6.85
17.9	102	101	5.24	6.18	11.37	7.11	6.85
18	102	102	5.31	6.21	11.84	7.16	6.88
18.1	101	103	5.34	6.23	11.82	7.13	6.92
18.2	102	103	5.36	6.23	15.57	7.08	6.93
18.3	102	102	5.36	6.31	11.56	7.16	6.95
18.4	101	102	5.31	6.41	11.65	6.85	7.15
18.5	101	103	5.91	6.33	11.39	7.11	6.88
18.6	101	102	5.14	6.43	11.80	7.08	6.50
18.7	101	102	5.21	6.33	11.70	7.04	6.90
18.8	101	103	5.36	6.31	11.18	7.02	6.64
18.9	101	103	5.81	6.06	10.98	7.02	6.90
19	101	103	5.41	6.28	12.27	7.18	6.76
19.1	101	102	5.36	6.31	12.56	7.04	6.78
19.2	102	103	5.46	6.33	11.87	7.04	6.78
19.3	101	103	5.49	6.41	11.27	6.95	6.71
19.4	101	102	5.51	6.38	10.67	6.95	6.76
19.5	101	102	5.54	6.33	10.53	6.99	6.74
19.6	101	102	5.51	6.38	11.03	6.97	6.74
19.7	101	102	5.59	6.43	10.48	6.92	6.67
19.8	101	102	5.51	6.36	9.29	6.90	6.69
19.9	101	102	5.54	6.39	8.96	6.85	6.64
20	101	101	5.44	6.36	8.38	6.85	6.64
20.1	100	101	5.49	6.33	8.55	6.81	6.55
20.2	100	100	5.46	6.26	8.79	6.74	6.62
20.3	100	100	5.51	6.16	8.76	6.57	6.53
20.4	100	100	5.51	6.26	8.10	6.60	6.41
20.5	100	100	5.39	6.11	9.38	6.57	6.34
20.6	100	100	5.36	6.11	7.86	6.46	6.30
20.7	100	100	5.34	6.08	8.05	6.29	6.30
20.8	100	99	5.29	5.96	7.76	6.36	6.20
20.9	100	99	5.29	5.91	6.85	6.29	6.13
21	100	99	5.24	5.96	7.31	6.25	6.09
21.1	99	99	5.16	5.89	7.04	6.20	5.99
21.2	99	100	5.21	5.86	7.74	6.20	5.97
21.3	98	99	5.16	5.84	8.26	6.01	5.88
21.4	99	99	5.14	5.81	7.14	5.94	5.85
21.5	99	99	5.04	5.71	6.81	5.92	5.74
21.6	98	98	5.04	5.61	6.54	5.82	5.64
21.7	98	98	4.99	5.51	8.00	5.68	5.51
21.8	98	98	4.97	5.49	6.07	5.64	5.51
21.9	98	97	4.87	5.44	7.38	5.59	5.44
22	97	97	4.89	5.39	6.78	5.47	5.37
22.1	97	96	4.87	5.29	5.40	5.50	5.32
22.2	97	96	4.87	5.34	5.30	5.40	5.23
22.3	97	96	4.82	5.27	5.42	5.36	5.20
22.4	98	97	4.82	5.22	5.25	5.33	5.11
22.5	98	97	4.72	5.19	5.76	5.29	5.06
22.6	99	98	4.74	5.14	5.13	5.19	5.09
22.7	98	98	4.72	5.02	5.28	5.05	4.92
22.8	97	97	4.82	4.97	4.87	4.91	4.88
22.9	97	96	4.57	5.04	4.35	4.77	4.99
23	96	95	4.57	4.90	4.37	4.84	4.92
23.1	96	95	4.99	4.48	4.88	4.89	4.79
23.2	96	96	4.47	4.72	4.06	4.79	4.88
23.3	96	96	4.54	4.87	5.16	4.75	4.74
23.4	96	95	4.47	4.72	4.27	4.68	4.76
23.5	96	95	4.49	5.19	3.96	4.72	4.79
23.6	96	96	4.54	4.82	4.27	4.56	4.32
23.7	97	96	4.57	4.58	4.01	4.44	4.48

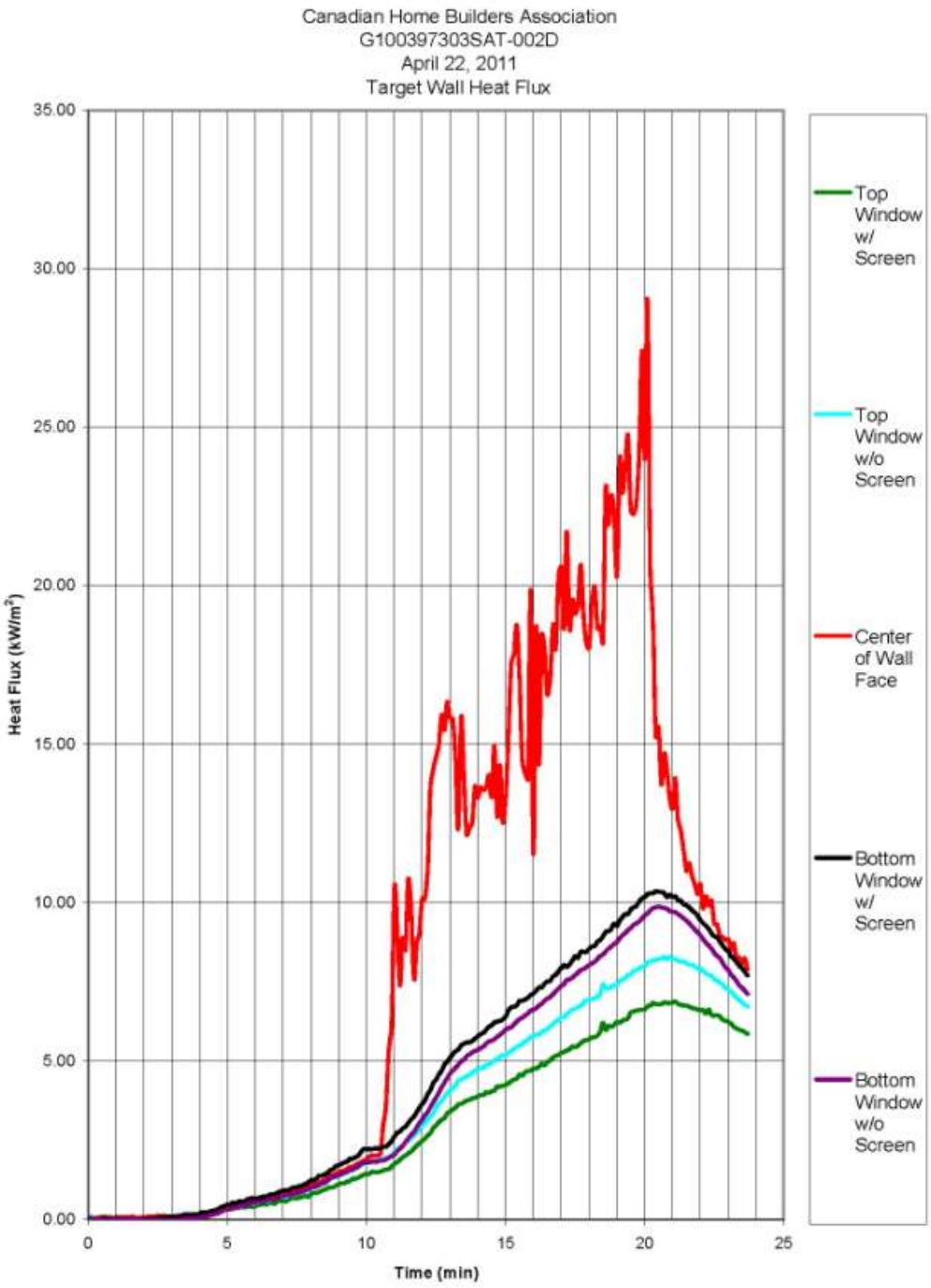
APPENDIX G

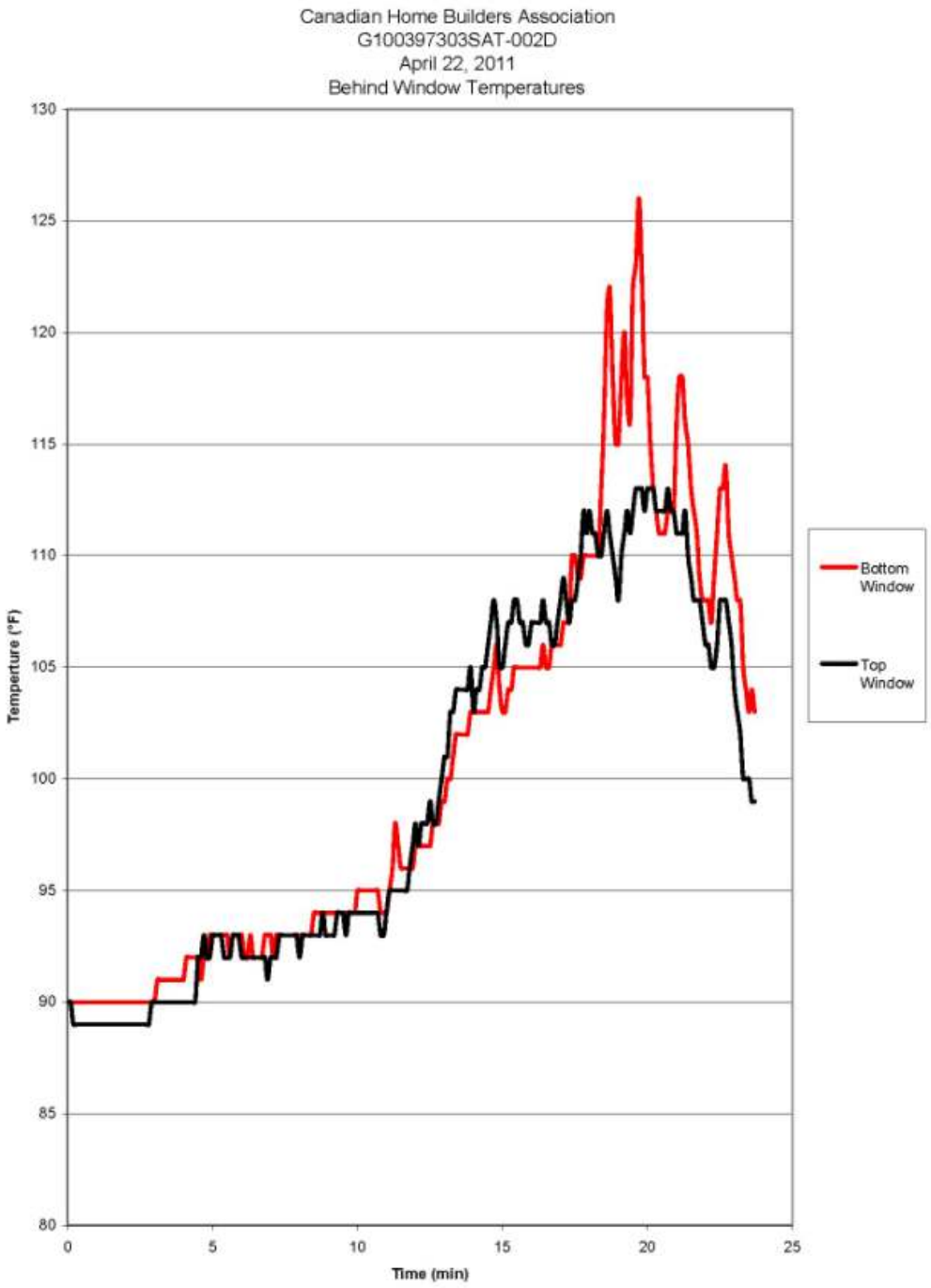
Test D Data


Canadian Home Builders Association
G100397303SAT-002D
April 22, 2011
Room Temperatures
Temperature (°F)
Time (min)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
5
10
15
20
25
Room TC #1
Room TC #2
Room TC #3
Room TC #4


Canadian Home Builders Association
G100397303SAT-002D
April 22, 2011
Exposing Wall Temperatures
Temperature (°F)
Time (min)
2500
2000
1500
1000
500
0
0
5
10
15
20
25
Exposing Wall 2' Above Window
Exposing Wall 4' Above Window
Exposing Wall 6' Above Window
Exposing Wall 8' Above Window
Exposing Wall 10' Above Window
Exposing Wall Soffit
Exposing Wall Attic
Exposing Window TC Right
Exposing Window TC Center
Exposing Window TC Left


Canadian Home Builders Association
G100397303SAT-002D
April 22, 2011
Target Wall Temperatures
Temperature (°F)
Time (min)
0
100
200
300
400
500
600
700
0
5
10
15
20
25
Target Wall 2' Above Window
Target Wall 4' Above Window
Target Wall 6' Above Window
Target Wall 8' Above Window
Target Wall 10' Above Window
Target Wall Soffit
Target Wall Attic
Target Window TC Center
Target Window TC Right
Target Window TC Left


Canadian Home Builders Association
G100397303SAT-002D
April 22, 2011
Target Wall Heat Flux
Heat Flux (kW/m²)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0
5
10
15
20
25
Time (min)
Top Window w/ Screen
Top Window w/o Screen
Center of Wall Face
Bottom Window w/ Screen
Bottom Window w/o Screen


Canadian Home Builders Association
G100397303SAT-002D
April 22, 2011
Behind Window Temperatures
Temperture (°F)
130
125
120
115
110
105
100
95
90
85
80
0
5
10
15
20
25
Time (min)
Bottom Window
Top Window

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
0	112	88	92	93
0.1	111	91	93	94
0.2	107	95	95	96
0.3	107	99	98	99
0.4	108	103	101	103
0.5	108	109	107	108
0.6	107	115	111	113
0.7	108	124	119	123
0.8	109	138	127	134
0.9	116	158	143	151
1	118	189	170	184
1.1	123	198	206	220
1.2	125	236	255	270
1.3	131	283	319	346
1.4	142	325	405	462
1.5	160	366	502	558
1.6	179	404	574	653
1.7	197	438	611	663
1.8	214	469	632	690
1.9	241	505	643	722
2	360	522	648	710
2.1	415	521	650	704
2.2	546	550	644	691
2.3	800	546	642	690
2.4	878	537	649	685
2.5	909	541	660	687
2.6	901	552	674	703
2.7	921	559	679	699
2.8	861	556	678	707
2.9	819	559	689	710
3	781	568	704	727
3.1	784	584	719	732
3.2	756	623	778	760
3.3	706	666	812	781
3.4	593	697	826	794
3.5	508	749	896	825
3.6	473	767	899	857
3.7	457	820	948	904
3.8	445	894	946	911
3.9	430	951	1022	955
4	417	1015	1046	985
4.1	409	1049	1034	988
4.2	403	1096	1034	982
4.3	399	1088	1018	994
4.4	398	1082	1030	991
4.5	394	1034	1024	985
4.6	393	1071	1027	985
4.7	393	1086	1024	985
4.8	393	1055	1007	977
4.9	394	1120	1076	1022
5	394	1101	1075	1031
5.1	395	1095	1053	1039
5.2	395	1132	1052	1040
5.3	395	1001	1000	1023
5.4	396	995	985	1024
5.5	395	953	982	1028
5.6	395	936	991	1051
5.7	395	939	1005	1078
5.8	395	937	1022	1072
5.9	394	942	1025	1088
6	394	919	981	1032
6.1	393	913	963	996
6.2	393	998	992	1019
6.3	392	1008	1017	1041
6.4	392	1069	1049	1072
6.5	392	1102	1066	1090
6.6	392	1150	1094	1098
6.7	392	1138	1099	1123
6.8	392	1076	1107	1137
6.9	392	1067	1167	1290
7	392	1079	1166	1274
7.1	392	1034	1110	1168
7.2	393	981	1034	1069
7.3	394	939	992	1028
7.4	395	970	1010	1050
7.5	397	986	1038	1077
7.6	400	1047	1056	1093
7.7	405	1118	1095	1133
7.8	410	1113	1110	1157
7.9	417	1070	1095	1137
8	425	1020	1080	1133
8.1	433	991	1052	1098
8.2	442	975	1023	1064
8.3	451	988	1036	1073
8.4	459	1012	1051	1087
8.5	466	1027	1056	1097
8.6	471	1024	1056	1104

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
8.7	473	1026	1055	1098
8.8	474	1029	1062	1097
8.9	473	1047	1061	1100
9	471	1077	1080	1114
9.1	469	1055	1082	1118
9.2	465	1083	1089	1126
9.3	463	1082	1103	1131
9.4	460	1145	1133	1148
9.5	457	1184	1151	1158
9.6	454	1230	1242	1230
9.7	452	1188	1210	1234
9.8	450	1194	1209	1218
9.9	448	1186	1225	1224
10	447	1210	1267	1311
10.1	445	1220	1294	1345
10.2	444	1242	1333	1380
10.3	443	1271	1359	1409
10.4	440	1282	1360	1400
10.5	439	1286	1380	1402
10.6	438	1297	1384	1423
10.7	437	1330	1406	1442
10.8	436	1376	1429	1446
10.9	436	1357	1443	1465
11	438	1405	1481	1486
11.1	442	1424	1508	1502
11.2	445	1485	1514	1502
11.3	448	1468	1507	1488
11.4	451	1504	1497	1476
11.5	454	1545	1474	1478
11.6	458	1530	1464	1479
11.7	458	1574	1490	1516
11.8	459	1616	1542	1575
11.9	454	1615	1568	1605
12	448	1626	1588	1631
12.1	436	1659	1589	1659
12.2	421	1758	1638	1747
12.3	418	1762	1616	1724
12.4	418	1778	1615	1730
12.5	415	1784	1604	1731
12.6	415	1759	1594	1709
12.7	412	1768	1602	1716
12.8	411	1744	1599	1696
12.9	410	1732	1598	1692
13	405	1736	1615	1697
13.1	407	1724	1606	1690
13.2	408	1750	1604	1704
13.3	408	1745	1604	1704
13.4	404	1742	1616	1715
13.5	401	1714	1611	1692
13.6	403	1732	1595	1697
13.7	401	1698	1563	1665
13.8	402	1653	1544	1635
13.9	406	1686	1557	1670
14	405	1735	1578	1724
14.1	410	1692	1572	1674
14.2	408	1753	1600	1747
14.3	420	1763	1609	1749
14.4	421	1764	1609	1743
14.5	427	1759	1607	1717
14.6	434	1753	1612	1720
14.7	442	1745	1623	1700
14.8	437	1721	1603	1697
14.9	450	1711	1605	1658
15	453	1708	1609	1663
15.1	440	1703	1635	1640
15.2	448	1677	1649	1607
15.3	441	1678	1654	1613
15.4	468	1682	1638	1617
15.5	483	1694	1646	1631
15.6	497	1690	1636	1674
15.7	493	1691	1629	1672
15.8	494	1686	1630	1663
15.9	501	1684	1643	1620
16	498	1660	1657	1573
16.1	520	1665	1670	1583
16.2	545	1671	1688	1590
16.3	538	1659	1668	1620
16.4	549	1653	1672	1587
16.5	566	1661	1677	1584
16.6	592	1684	1678	1607
16.7	609	1718	1676	1675
16.8	612	1757	1669	1685
16.9	606	1707	1677	1639
17	639	1704	1689	1603
17.1	660	1715	1681	1617
17.2	737	1722	1681	1620
17.3	816	1725	1693	1635
17.4	932	1750	1696	1665

Time (min)	Room TC #1 (°F)	Room TC #2 (°F)	Room TC #3 (°F)	Room TC #4 (°F)
17.5	1059	1735	1708	1659
17.6	1202	1741	1722	1673
17.7	1376	1749	1730	1676
17.8	1399	1748	1704	1664
17.9	1500	1780	1734	1720
18	1510	1781	1742	1719
18.1	1435	1768	1720	1675
18.2	1481	1777	1731	1698
18.3	1590	1778	1747	1738
18.4	1551	1767	1753	1725
18.5	1527	1766	1748	1737
18.6	1516	1716	1708	1656
18.7	1567	1757	1755	1735
18.8	1523	1752	1726	1676
18.9	1557	1763	1749	1791
19	1575	1752	1737	1681
19.1	1583	1770	1761	1728
19.2	1531	1794	1754	1688
19.3	1533	1751	1806	1689
19.4	1582	1735	1744	1756
19.5	1669	1749	1847	1792
19.6	1702	1755	1899	1838
19.7	1731	1755	1851	1826
19.8	1762	1753	1846	1827
19.9	1825	1694	1927	1676
20	1550	1675	1821	1708
20.1	1518	1603	1806	1613
20.2	1644	1478	1796	1665
20.3	974	1439	1779	1443
20.4	1376	1383	1769	1633
20.5	947	1373	1681	1445
20.6	882	1379	1411	1391
20.7	725	1317	1342	1285
20.8	738	1297	1318	1231
20.9	727	1297	1344	1257
21	693	1334	1383	1302
21.1	897	1387	1415	1345
21.2	1287	1415	1449	1414
21.3	1154	1348	1382	1333
21.4	652	1114	1342	1294
21.5	522	1095	1291	1110
21.6	358	982	1237	1052
21.7	304	796	1214	1013
21.8	247	574	1196	964
21.9	186	351	966	938
22	202	340	1100	777
22.1	154	320	998	158
22.2	156	276	947	150
22.3	165	323	919	167
22.4	146	336	899	175
22.5	204	429	999	203
22.6	296	549	966	274
22.7	203	621	910	253
22.8	174	673	931	252
22.9	203	663	915	229
23	174	645	840	222
23.1	163	706	892	219
23.2	192	693	868	224
23.3	180	628	823	215
23.4	189	581	767	196
23.5	224	647	742	219
23.6	227	601	820	213
23.7	140	204	645	173

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
0	91	91	91	91	91	92	90	88	89	90
0.1	91	91	91	91	91	92	90	88	89	90
0.2	91	91	91	91	91	92	90	88	89	90
0.3	91	91	91	91	91	92	90	88	89	90
0.4	91	91	91	91	91	92	90	88	89	90
0.5	91	91	91	91	91	92	90	88	89	90
0.6	91	91	91	91	91	92	90	88	89	90
0.7	91	91	91	91	91	92	90	87	89	90
0.8	91	91	91	91	91	92	90	88	89	90
0.9	91	91	91	91	91	91	90	87	89	90
1	91	91	91	91	91	91	90	87	89	90
1.1	91	91	91	91	91	91	90	87	89	90
1.2	91	91	91	91	91	92	90	88	89	90
1.3	91	91	91	91	91	91	90	88	89	90
1.4	91	91	91	91	91	92	90	89	89	91
1.5	91	91	91	91	91	92	90	90	89	91
1.6	91	91	91	91	91	92	90	90	89	93
1.7	91	91	91	91	92	92	90	92	89	94
1.8	91	91	91	91	92	92	90	93	89	94
1.9	91	91	91	91	92	92	90	94	89	94
2	91	91	91	91	91	92	90	93	89	95
2.1	91	91	91	91	91	92	90	92	89	96
2.2	91	91	91	91	91	92	90	92	90	98
2.3	90	90	91	91	91	91	90	92	90	99
2.4	90	90	91	91	91	91	90	93	90	100
2.5	90	90	91	91	91	91	90	93	90	100
2.6	90	91	91	91	91	91	90	93	90	100
2.7	91	91	91	91	91	91	90	95	90	98
2.8	91	91	91	91	91	91	90	95	90	99
2.9	91	91	91	91	91	92	90	94	90	99
3	91	91	91	91	92	92	90	94	90	98
3.1	91	91	91	91	92	92	90	94	90	98
3.2	91	91	91	91	92	92	91	94	90	97
3.3	91	91	91	91	92	92	91	96	90	97
3.4	91	91	91	91	92	92	91	96	90	98
3.5	92	92	92	92	92	92	90	96	90	98
3.6	92	92	92	92	92	92	91	95	91	99
3.7	92	92	92	92	92	92	92	95	91	100
3.8	92	92	92	92	92	92	91	95	91	100
3.9	92	92	92	92	92	92	91	97	91	101
4	92	92	92	92	92	92	91	98	92	102
4.1	92	92	92	92	92	92	91	100	92	102
4.2	92	92	92	92	92	92	91	97	92	102
4.3	92	92	93	92	92	93	91	96	92	101
4.4	92	92	93	92	92	93	92	96	92	100
4.5	93	93	93	92	92	93	92	94	92	99
4.6	93	93	94	92	92	93	92	93	92	99
4.7	94	93	94	93	93	93	92	92	91	97
4.8	94	94	94	93	93	93	92	93	91	97
4.9	94	94	94	93	93	93	93	93	91	96
5	94	94	94	93	94	94	93	95	91	98
5.1	94	94	94	93	94	94	94	94	92	97
5.2	94	94	94	93	94	94	94	95	92	97
5.3	95	94	94	93	93	94	94	94	92	97
5.4	95	95	95	93	94	94	93	94	92	100
5.5	94	94	94	93	94	94	93	95	92	100
5.6	94	94	94	93	94	94	93	96	92	100
5.7	94	94	95	93	94	94	93	98	92	100
5.8	95	94	95	93	94	94	93	98	92	102
5.9	95	95	95	94	94	95	93	96	93	103
6	96	95	95	94	95	95	94	94	92	103
6.1	96	95	95	94	94	95	94	94	92	101
6.2	96	94	94	94	94	94	94	96	92	102
6.3	96	94	94	93	94	94	94	96	93	103
6.4	96	95	94	93	94	94	93	96	93	103
6.5	96	94	95	93	94	94	93	95	93	102
6.6	97	95	95	93	94	94	93	95	93	101
6.7	97	95	94	93	94	94	93	95	93	100
6.8	97	96	95	94	94	95	93	97	93	99
6.9	98	96	95	94	94	94	93	97	93	102
7	98	96	95	94	94	95	93	96	93	105
7.1	99	96	95	94	94	95	93	97	94	106
7.2	98	97	96	94	94	95	94	97	94	105
7.3	97	97	96	94	94	95	94	98	94	104
7.4	98	97	97	94	95	95	94	98	94	103
7.5	98	97	97	94	95	96	95	97	93	101
7.6	99	97	97	95	95	96	95	98	93	101
7.7	99	97	97	94	95	96	95	98	93	100
7.8	99	98	97	95	95	96	95	98	93	100
7.9	100	98	96	95	95	95	95	97	93	101
8	100	98	96	94	94	95	94	98	94	102
8.1	100	99	97	94	95	95	94	99	94	103
8.2	102	99	97	94	95	96	95	98	94	104
8.3	103	100	98	95	95	96	95	99	94	104
8.4	107	100	99	95	96	96	95	98	94	104
8.5	108	100	99	95	96	97	95	98	94	105
8.6	107	101	99	95	96	96	95	97	95	105

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
8.7	108	101	99	95	95	96	95	97	95	105
8.8	111	100	99	95	95	96	95	97	95	104
8.9	111	101	99	95	96	97	96	98	95	103
9	111	101	99	95	96	97	95	96	94	102
9.1	108	100	99	95	96	97	96	97	94	102
9.2	106	99	99	95	96	96	95	97	94	102
9.3	107	99	99	95	95	96	95	98	94	102
9.4	106	101	98	95	96	96	95	98	94	102
9.5	105	101	99	96	96	97	95	97	94	101
9.6	105	101	98	96	96	97	95	96	94	100
9.7	107	102	98	95	96	97	96	97	94	102
9.8	107	102	98	95	96	97	98	97	94	102
9.9	108	101	98	95	96	96	95	97	94	103
10	110	102	99	95	96	96	95	98	94	103
10.1	112	105	100	96	96	97	95	97	94	102
10.2	116	107	101	97	97	97	96	97	95	103
10.3	123	108	101	97	97	98	96	97	94	105
10.4	125	108	101	97	97	98	96	97	95	106
10.5	130	113	102	97	97	98	96	97	95	109
10.6	225	157	111	103	101	100	98	97	96	110
10.7	330	200	129	117	108	103	100	97	97	110
10.8	862	332	155	145	117	110	106	98	100	108
10.9	1265	350	170	165	125	115	112	98	107	108
11	1575	432	218	200	138	122	119	99	116	109
11.1	1668	506	259	229	156	131	126	102	128	109
11.2	1706	492	263	239	163	135	130	103	139	110
11.3	1723	498	278	246	167	137	132	105	149	113
11.4	1728	514	288	261	173	143	134	104	158	115
11.5	1726	728	318	288	182	146	138	105	167	117
11.6	1607	953	338	298	183	143	137	108	175	120
11.7	1585	944	405	360	212	156	148	120	186	120
11.8	1697	1045	553	560	320	208	202	137	197	124
11.9	1773	1503	693	687	384	221	215	155	202	126
12	1836	1544	818	768	386	234	227	174	213	131
12.1	1813	1599	1274	814	450	292	271	191	228	142
12.2	1773	1969	1464	1309	486	303	292	192	244	148
12.3	1732	1904	1678	1581	772	396	322	198	254	157
12.4	1984	2018	1925	1348	1177	444	318	207	267	162
12.5	1897	2035	1891	1045	1074	504	322	206	274	159
12.6	1951	2079	1950	869	1021	434	313	209	287	159
12.7	1965	2009	1851	998	813	464	325	215	294	172
12.8	1948	2005	1860	1020	910	486	312	224	305	182
12.9	1952	2082	1954	1087	717	470	323	235	312	190
13	1942	2081	1861	1362	713	478	382	237	323	198
13.1	1960	2043	1965	1441	772	545	420	241	331	195
13.2	2011	2112	2048	1076	598	455	353	245	337	193
13.3	2074	2084	2058	1212	598	416	343	243	341	199
13.4	2059	2061	2033	1232	643	460	360	244	345	199
13.5	2047	2065	2023	1119	660	460	387	254	348	205
13.6	2019	2023	1995	1045	615	463	374	265	355	215
13.7	1965	1956	1920	958	583	433	365	272	360	212
13.8	1923	1923	1912	993	555	370	340	279	364	205
13.9	1878	1822	1770	905	542	338	315	266	364	200
14	1881	1871	1846	1263	624	361	314	261	359	198
14.1	1879	1844	1827	982	525	334	298	259	357	191
14.2	1890	1881	1864	1094	553	329	297	259	353	195
14.3	1891	1849	1838	909	501	327	280	244	350	195
14.4	1908	1894	1887	1009	498	320	281	240	346	192
14.5	1900	1830	1819	939	498	324	272	242	344	195
14.6	1924	1815	1775	898	524	327	290	247	345	204
14.7	1932	1753	1731	909	524	341	300	245	346	206
14.8	1931	1734	1700	883	492	332	287	242	347	204
14.9	1933	1789	1773	892	476	311	285	242	346	204
15	1931	1771	1754	899	484	332	313	243	346	207
15.1	1926	1772	1748	862	475	325	293	244	344	211
15.2	1953	1844	1837	955	528	359	305	247	344	213
15.3	1975	1923	1920	904	499	334	306	250	346	199
15.4	1992	1798	1799	924	517	330	297	246	346	195
15.5	1964	1782	1757	868	487	322	299	241	347	198
15.6	1989	1778	1771	881	483	318	303	252	351	197
15.7	1973	1831	1825	923	498	308	278	249	354	199
15.8	1970	1778	1757	943	539	367	305	249	355	207
15.9	1984	1832	1824	952	526	353	318	253	356	205
16	2011	1772	1761	916	494	326	305	258	358	208
16.1	2024	1876	1871	1025	534	352	315	264	363	212
16.2	2017	1899	1895	1087	587	435	369	270	370	216
16.3	2010	1895	1879	1145	618	474	399	265	376	218
16.4	2030	1907	1857	1092	619	445	391	263	379	214
16.5	2017	1823	1827	1038	629	451	387	261	382	216
16.6	2032	1863	1843	1045	595	434	372	263	384	218
16.7	2008	1851	1856	1015	580	429	365	271	387	212
16.8	1985	2040	1860	1097	627	441	373	270	389	220
16.9	2015	1927	1869	1039	619	446	378	274	392	220
17	2029	1787	1951	1072	643	455	398	277	397	235
17.1	2001	1736	1980	1008	615	432	368	282	401	237
17.2	2019	1870	2002	1057	647	435	367	279	402	238
17.3	2028	1947	1908	1056	642	453	389	288	405	242
17.4	2011	1909	1871	1091	675	478	416	290	408	237

Time (min)	Exposing Window TC Left TC #5 (°F)	Exposing Window TC Center TC #6 (°F)	Exposing Window TC Right TC #7 (°F)	Exposing Wall 2" Above Window TC #8 (°F)	Exposing Wall 4" Above Window TC #9 (°F)	Exposing Wall 6" Above Window TC #10 (°F)	Exposing Wall 8" Above Window TC #11 (°F)	Exposing Wall 10" Above Window TC #12 (°F)	Exposing Wall Soffit TC #13 (°F)	Exposing Wall Attic TC #14 (°F)
17.5	2056	1978	1885	1051	651	469	405	294	410	236
17.6	2011	1885	1798	1064	638	480	402	286	411	239
17.7	2025	1774	1751	959	617	432	398	291	411	233
17.8	2049	1747	1760	934	598	419	353	289	411	234
17.9	2034	1804	1864	967	569	390	361	295	409	231
18	2049	1803	1864	1004	626	414	371	288	408	233
18.1	2040	1870	1804	1073	682	485	421	301	409	229
18.2	1994	1858	1806	1051	626	449	391	294	409	221
18.3	2000	1924	1772	1024	608	462	394	290	408	231
18.4	1986	1706	1727	953	575	432	373	287	405	222
18.5	1993	1752	1795	999	613	469	393	290	405	221
18.6	2022	1807	1792	1043	616	471	407	287	406	227
18.7	2016	1788	1730	957	565	424	375	284	410	227
18.8	1992	1771	1774	957	568	429	391	300	412	235
18.9	2033	1817	1779	975	572	420	387	308	416	228
19	2006	1786	1752	1020	628	445	397	305	420	231
19.1	2067	1839	1806	1058	671	463	395	302	423	236
19.2	2044	1890	1788	993	581	419	366	302	424	238
19.3	2051	1854	1847	1035	622	459	402	308	427	239
19.4	2003	1952	1769	976	596	445	411	303	430	240
19.5	2043	1926	1812	1095	635	460	421	304	430	238
19.6	2041	1917	1873	1070	678	495	438	306	433	241
19.7	2001	1854	1847	1090	678	506	438	302	439	238
19.8	2006	1791	1792	987	594	460	437	296	445	240
19.9	1971	1769	1859	973	590	457	439	310	452	244
20	2060	1871	1866	1049	613	456	436	328	460	248
20.1	1946	1779	1816	1002	597	454	526	361	474	251
20.2	1786	1812	1727	891	562	426	438	357	485	250
20.3	1663	1510	1644	726	489	387	371	335	478	248
20.4	1555	1450	1528	716	488	407	379	318	463	254
20.5	1470	1339	1434	658	439	355	326	299	443	249
20.6	1419	1299	1398	604	379	321	301	286	421	244
20.7	1349	1235	1302	610	381	312	287	272	398	229
20.8	1317	1155	1247	529	381	313	272	255	377	213
20.9	1280	1103	1210	481	350	290	266	252	359	200
21	1236	1043	1155	430	317	263	256	250	344	200
21.1	1004	843	1070	366	282	241	240	239	329	189
21.2	1039	905	943	396	318	259	242	232	314	181
21.3	1157	926	931	387	308	250	252	231	303	175
21.4	1187	921	1051	393	294	225	225	232	293	179
21.5	1089	964	1039	362	272	221	214	226	282	181
21.6	995	845	1000	371	271	230	222	221	272	179
21.7	1070	1000	1090	312	239	208	206	214	263	175
21.8	1037	987	1089	355	242	201	193	208	254	170
21.9	1067	908	1097	320	215	185	194	211	246	166
22	1094	1002	1111	285	205	177	186	211	240	164
22.1	1097	1003	1098	274	199	170	184	214	234	162
22.2	1118	975	1068	320	212	178	190	214	229	162
22.3	788	303	172	320	214	178	177	206	225	160
22.4	795	663	341	296	219	174	175	202	220	159
22.5	609	587	465	289	214	192	171	192	215	156
22.6	634	627	610	294	227	195	176	190	210	153
22.7	631	641	644	289	223	203	190	196	207	154
22.8	626	597	602	257	197	179	172	190	205	155
22.9	635	617	571	238	188	168	165	189	202	155
23	595	594	579	253	193	171	169	186	199	153
23.1	598	578	595	246	195	173	168	182	196	151
23.2	593	587	584	252	188	168	165	180	193	145
23.3	579	570	569	256	187	166	162	176	189	141
23.4	600	583	586	250	186	162	155	173	186	140
23.5	599	580	572	246	187	160	157	171	183	139
23.6	583	584	546	221	170	153	147	166	180	139
23.7	587	560	533	237	180	150	150	168	178	140

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
0	90	89	89	89	89	88	89	88	90	95
0.1	90	89	89	89	89	88	89	88	90	95
0.2	90	89	89	89	89	88	89	88	90	95
0.3	90	89	89	89	89	88	89	88	90	95
0.4	90	89	89	89	89	88	89	88	90	95
0.5	90	89	89	89	89	88	89	88	90	95
0.6	90	89	89	89	89	88	89	88	90	95
0.7	90	89	89	89	89	88	89	88	90	95
0.8	90	89	89	89	89	88	90	88	90	95
0.9	89	89	89	89	89	88	90	88	90	95
1	89	89	89	89	89	88	90	88	90	95
1.1	89	89	89	89	89	88	89	88	90	95
1.2	89	89	89	89	89	88	89	88	90	95
1.3	89	89	89	89	89	88	89	88	90	95
1.4	89	89	89	89	89	88	89	88	90	95
1.5	90	90	89	89	89	88	89	88	90	95
1.6	90	90	89	89	89	88	89	88	90	95
1.7	90	89	89	89	89	88	89	88	90	95
1.8	89	89	89	89	89	88	89	88	90	95
1.9	90	89	89	89	89	88	90	88	90	95
2	89	89	89	89	89	88	89	88	90	95
2.1	90	89	89	89	89	88	89	88	90	95
2.2	89	89	89	89	89	88	89	88	90	95
2.3	89	89	89	89	89	88	89	88	90	95
2.4	89	89	89	89	89	88	89	88	90	95
2.5	89	89	89	89	89	88	89	88	90	95
2.6	89	89	89	89	89	88	89	88	90	95
2.7	89	89	89	89	89	88	89	88	90	95
2.8	90	89	89	89	89	88	89	88	90	95
2.9	89	89	89	89	89	88	89	88	90	95
3	89	89	89	89	89	88	89	88	90	95
3.1	89	89	89	89	90	88	90	88	90	95
3.2	90	89	89	89	90	88	90	88	90	95
3.3	90	89	89	89	90	88	90	88	90	95
3.4	89	89	89	89	90	88	90	88	90	95
3.5	90	90	89	89	90	88	90	88	90	95
3.6	90	89	89	89	90	88	90	88	90	95
3.7	90	90	89	89	90	88	90	88	90	95
3.8	90	90	89	89	90	88	90	88	90	95
3.9	90	90	89	89	90	88	90	88	90	95
4	90	90	89	89	90	88	90	88	90	95
4.1	90	90	89	89	90	88	90	88	90	95
4.2	90	90	89	89	90	88	90	88	90	95
4.3	90	90	90	89	90	88	90	88	90	95
4.4	90	90	90	89	90	88	90	88	90	95
4.5	90	90	90	89	90	88	90	88	91	95
4.6	90	90	90	89	90	88	90	88	90	95
4.7	91	91	90	90	90	88	91	88	91	95
4.8	91	91	90	90	91	88	91	89	91	95
4.9	91	91	91	90	91	89	91	89	91	95
5	91	91	91	90	91	89	91	89	91	95
5.1	91	91	91	90	91	88	91	89	91	95
5.2	91	91	91	90	91	89	91	89	91	95
5.3	91	91	91	90	91	89	91	89	91	95
5.4	91	91	91	91	92	89	91	89	91	95
5.5	91	91	91	91	92	89	92	89	91	95
5.6	91	92	91	91	92	89	92	89	91	95
5.7	91	92	91	91	92	89	92	89	91	95
5.8	92	92	91	91	92	89	92	89	92	95
5.9	92	92	91	91	92	89	93	89	92	95
6	92	92	92	91	92	89	93	89	92	95
6.1	92	92	92	92	92	89	93	89	92	95
6.2	92	92	92	92	92	89	93	89	92	95
6.3	92	92	92	91	92	89	92	89	92	95
6.4	92	92	92	91	92	89	92	89	92	95
6.5	92	92	92	91	92	89	92	89	92	95
6.6	92	92	92	91	92	89	92	89	92	95
6.7	92	92	92	92	93	89	93	89	92	95
6.8	92	92	92	92	93	89	93	89	92	95
6.9	92	92	92	92	93	89	93	90	92	95
7	92	92	92	92	93	89	93	89	92	95
7.1	92	92	92	92	93	89	93	90	92	95
7.2	93	93	92	92	93	89	93	90	92	95
7.3	92	93	92	92	93	89	93	90	92	95
7.4	92	93	92	92	93	89	94	90	92	95
7.5	93	93	92	92	94	89	94	90	92	95
7.6	93	93	93	92	94	89	93	90	92	95
7.7	93	94	93	92	94	89	93	90	92	95
7.8	93	94	93	93	94	89	94	90	92	95
7.9	93	93	93	93	94	89	93	90	93	95
8	93	93	93	92	94	89	93	90	93	95
8.1	93	93	93	92	94	89	94	90	93	95
8.2	93	93	93	92	94	89	94	90	93	95
8.3	93	94	93	92	94	90	94	90	93	95
8.4	94	94	93	92	95	90	94	90	93	95
8.5	94	94	94	93	94	90	94	90	93	95
8.6	94	94	94	92	94	90	94	90	93	95

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
8.7	94	94	94	92	94	90	94	90	93	95
8.8	94	94	94	92	95	90	94	90	93	95
8.9	94	94	94	93	95	90	95	90	93	95
9	94	94	94	93	95	89	95	90	93	95
9.1	94	94	94	93	95	90	95	90	93	95
9.2	94	94	94	93	95	90	95	91	93	95
9.3	94	94	94	93	95	90	95	91	93	95
9.4	94	94	94	93	95	90	95	91	93	95
9.5	94	94	94	93	95	90	95	91	93	95
9.6	94	95	94	93	95	90	95	91	93	95
9.7	94	95	94	94	95	90	95	91	93	95
9.8	94	95	94	93	95	90	95	91	93	95
9.9	94	94	94	93	96	90	95	91	93	95
10	94	94	94	93	96	91	95	91	94	95
10.1	95	95	95	93	95	91	95	91	94	95
10.2	95	95	95	94	96	91	95	91	94	95
10.3	96	96	96	94	96	91	95	91	94	95
10.4	97	97	97	95	96	91	95	92	94	95
10.5	96	97	96	95	96	91	96	92	94	95
10.6	98	98	98	96	97	94	111	100	95	95
10.7	102	102	102	98	101	94	132	134	103	96
10.8	111	114	111	110	112	108	224	208	119	98
10.9	120	124	124	123	183	160	261	258	149	101
11	141	147	150	144	187	157	260	266	177	105
11.1	155	167	165	161	175	154	270	279	197	109
11.2	158	170	167	165	166	147	258	270	213	112
11.3	161	171	171	167	167	142	234	264	219	113
11.4	170	166	172	170	168	138	234	271	224	114
11.5	175	164	177	177	176	138	240	269	228	115
11.6	177	168	180	177	177	142	262	286	234	119
11.7	175	172	173	181	201	175	318	340	250	125
11.8	184	183	180	187	209	193	353	388	282	132
11.9	191	189	184	192	200	179	325	365	294	136
12	196	191	192	197	199	168	283	337	294	136
12.1	196	185	193	200	189	161	228	301	282	133
12.2	198	179	189	199	185	175	325	349	281	133
12.3	207	183	189	203	241	210	377	393	304	139
12.4	216	188	198	223	360	286	475	481	361	151
12.5	225	199	208	229	361	282	505	521	412	163
12.6	233	211	214	231	306	298	533	533	436	171
12.7	245	223	223	243	315	296	554	521	420	179
12.8	245	232	230	251	282	262	473	478	348	182
12.9	248	239	233	254	268	250	454	467	319	183
13	248	234	232	255	298	280	476	488	312	186
13.1	251	233	232	254	303	291	473	496	326	192
13.2	254	233	239	254	280	279	500	497	322	195
13.3	233	229	228	248	281	257	417	453	317	198
13.4	228	228	227	246	283	248	388	425	301	198
13.5	229	231	228	249	276	242	407	431	291	194
13.6	223	222	222	245	260	227	364	408	284	192
13.7	221	221	219	242	243	217	333	393	272	189
13.8	213	220	210	238	229	211	317	359	259	187
13.9	210	217	208	236	242	222	333	367	256	186
14	211	212	209	238	250	236	391	417	260	185
14.1	222	214	221	238	242	244	422	440	267	188
14.2	228	218	214	243	243	239	409	427	257	185
14.3	231	213	217	237	233	248	450	459	258	184
14.4	233	216	219	237	226	240	443	462	270	185
14.5	238	227	226	235	254	268	467	468	278	189
14.6	233	224	226	240	267	267	435	452	272	192
14.7	231	220	221	253	292	277	475	486	302	199
14.8	236	227	222	249	271	262	446	465	298	201
14.9	231	219	215	250	250	251	429	459	293	200
15	233	220	214	252	305	266	413	445	292	201
15.1	239	233	222	262	348	304	472	488	302	203
15.2	230	230	221	259	303	314	516	500	319	209
15.3	244	247	243	285	379	319	516	505	325	215
15.4	250	252	241	288	338	315	514	500	322	218
15.5	252	248	237	303	344	305	537	516	311	215
15.6	240	235	232	292	302	293	474	485	316	217
15.7	231	230	225	281	299	287	463	465	322	217
15.8	232	224	227	272	295	289	463	467	326	216
15.9	237	228	228	277	290	308	480	480	331	225
16	246	239	229	275	283	305	458	490	329	235
16.1	238	250	223	278	291	298	467	497	335	245
16.2	238	258	232	274	290	287	475	482	335	248
16.3	240	250	235	279	309	316	477	485	346	251
16.4	246	252	236	286	336	326	519	526	354	255
16.5	243	243	234	281	317	315	511	526	357	258
16.6	249	242	237	286	333	328	542	535	353	262
16.7	252	247	236	289	354	326	473	495	346	263
16.8	260	251	248	295	336	336	513	520	361	268
16.9	274	266	254	302	333	340	529	545	368	275
17	285	266	261	303	312	339	577	546	375	278
17.1	286	264	261	305	308	327	571	552	359	275
17.2	290	270	266	310	319	338	558	560	356	275
17.3	284	260	256	310	314	342	519	540	358	277
17.4	274	252	253	312	307	336	530	537	375	280

Time (min)	Target Window TC Left TC #21 (°F)	Target Window TC Center TC #22 (°F)	Target Window TC Right TC #23 (°F)	Target Wall 2' Above Window TC #24 (°F)	Target Wall 4' Above Window TC #25 (°F)	Target Wall 6' Above Window TC #26 (°F)	Target Wall 8' Above Window TC #27 (°F)	Target Wall 10' Above Window TC #28 (°F)	Target Wall Soffit TC #29 (°F)	Target Wall Attic TC #30 (°F)
17.5	263	237	250	310	304	329	519	532	374	280
17.6	262	245	245	306	324	344	565	557	382	284
17.7	276	260	260	311	328	346	535	559	369	284
17.8	268	260	270	316	321	323	491	539	331	271
17.9	279	266	260	320	333	329	508	532	322	265
18	266	271	246	311	313	327	503	525	339	271
18.1	254	263	243	310	310	324	459	491	334	271
18.2	262	252	249	305	300	311	449	478	334	269
18.3	266	252	252	299	326	335	471	496	350	270
18.4	270	248	253	302	311	336	509	517	345	276
18.5	272	260	255	310	310	347	528	538	364	272
18.6	283	263	262	325	320	346	539	548	382	282
18.7	295	281	265	335	324	332	520	546	358	278
18.8	295	269	272	331	328	351	566	561	362	279
18.9	287	265	266	330	323	346	533	553	361	282
19	285	256	263	338	321	344	531	556	366	286
19.1	295	252	265	339	329	357	530	545	363	280
19.2	319	273	277	349	345	363	538	548	375	289
19.3	308	283	277	345	341	372	551	569	374	294
19.4	302	280	275	355	334	385	562	570	365	290
19.5	309	285	272	359	338	399	579	592	375	294
19.6	290	248	269	348	347	357	492	544	359	282
19.7	291	244	265	338	328	340	490	520	354	280
19.8	300	258	267	344	338	340	483	525	340	286
19.9	300	271	267	350	341	342	492	517	324	276
20	309	270	272	356	351	353	519	536	332	272
20.1	334	291	285	372	376	363	559	565	309	265
20.2	320	280	283	376	414	407	604	598	349	270
20.3	292	278	260	370	385	403	548	561	358	280
20.4	269	255	246	339	340	377	487	525	358	284
20.5	260	247	238	313	312	367	475	511	367	286
20.6	251	237	239	305	336	369	464	507	360	288
20.7	231	223	227	284	289	350	446	492	355	280
20.8	225	216	220	281	283	343	444	495	358	290
20.9	219	209	213	269	257	329	386	442	347	286
21	217	210	212	261	241	313	371	425	324	278
21.1	206	204	208	245	234	304	344	399	317	271
21.2	195	189	192	239	236	306	363	394	317	269
21.3	189	187	190	234	216	300	340	371	299	263
21.4	182	180	178	228	216	292	320	360	287	257
21.5	180	180	172	223	204	295	333	364	279	251
21.6	184	180	169	217	193	284	329	356	272	248
21.7	184	180	170	210	186	289	327	342	264	243
21.8	189	185	172	210	192	285	327	342	255	238
21.9	190	187	173	204	182	275	290	319	230	227
22	188	192	173	203	175	270	280	314	224	221
22.1	180	182	170	201	173	263	273	301	222	217
22.2	170	168	161	197	170	260	257	289	207	211
22.3	141	145	152	171	186	261	267	285	214	210
22.4	137	116	150	162	175	258	258	275	223	213
22.5	136	112	145	168	167	252	240	264	217	211
22.6	141	121	140	170	162	251	251	263	219	209
22.7	145	132	142	172	156	253	232	251	211	206
22.8	146	136	144	171	154	250	232	248	209	203
22.9	147	138	145	169	152	249	244	256	205	202
23	152	139	145	172	160	250	245	256	209	201
23.1	152	135	141	168	154	248	238	253	201	199
23.2	152	134	138	164	149	250	232	248	198	198
23.3	150	134	138	163	150	250	236	248	200	195
23.4	148	134	135	162	149	247	238	247	199	195
23.5	149	133	133	163	147	246	236	249	200	195
23.6	145	130	135	162	154	243	229	241	196	194
23.7	143	131	133	163	151	244	230	246	197	193

Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
0	90	90	0.00	0.00	0.00	0.00	0.00
0.1	90	90	0.07	0.05	0.02	0.05	0.00
0.2	90	89	0.02	0.02	0.02	0.02	0.02
0.3	90	89	0.05	0.02	0.02	0.00	0.02
0.4	90	89	0.07	0.00	0.07	0.00	0.02
0.5	90	89	0.05	0.05	0.07	0.05	0.00
0.6	90	89	0.05	0.00	0.02	0.07	0.00
0.7	90	89	0.07	0.05	0.05	-0.02	0.00
0.8	90	89	0.07	0.05	0.05	0.02	0.00
0.9	90	89	0.05	0.00	0.05	0.02	0.00
1	90	89	0.07	0.05	0.05	0.05	0.02
1.1	90	89	0.07	0.05	0.07	0.05	0.00
1.2	90	89	0.07	0.02	0.05	0.05	0.05
1.3	90	89	0.07	0.07	0.07	0.05	0.00
1.4	90	89	0.05	0.05	0.07	0.02	0.02
1.5	90	89	0.07	0.05	0.07	0.05	0.02
1.6	90	89	0.07	0.07	0.10	0.02	0.05
1.7	90	89	0.05	-0.02	0.02	0.05	0.02
1.8	90	89	0.07	0.07	0.05	-0.05	0.00
1.9	90	89	0.05	0.02	0.05	-0.05	0.00
2	90	89	0.07	0.07	0.07	0.05	0.00
2.1	90	89	0.07	0.02	0.07	0.00	0.00
2.2	90	89	0.10	0.10	0.10	0.05	0.00
2.3	90	89	0.10	0.10	0.10	0.02	0.00
2.4	90	89	0.10	0.10	0.10	0.05	0.00
2.5	90	89	0.10	0.10	0.12	0.05	0.00
2.6	90	89	0.07	0.10	0.07	0.09	0.00
2.7	90	89	0.12	0.10	0.12	0.05	0.00
2.8	90	89	0.10	0.10	0.10	0.07	0.00
2.9	90	90	0.10	0.05	0.07	0.09	0.00
3	90	90	0.10	0.10	0.10	0.09	0.00
3.1	91	90	0.07	0.07	0.07	0.09	0.00
3.2	91	90	0.12	0.10	0.12	0.07	0.00
3.3	91	90	0.12	0.10	0.12	0.12	0.00
3.4	91	90	0.12	0.10	0.12	0.14	0.02
3.5	91	90	0.12	0.12	0.14	0.16	0.05
3.6	91	90	0.12	0.10	0.14	0.16	0.05
3.7	91	90	0.17	0.15	0.14	0.12	0.05
3.8	91	90	0.15	0.12	0.14	0.16	0.05
3.9	91	90	0.15	0.12	0.14	0.14	0.05
4	91	90	0.15	0.15	0.14	0.19	0.05
4.1	92	90	0.20	0.17	0.17	0.23	0.09
4.2	92	90	0.20	0.17	0.19	0.21	0.07
4.3	92	90	0.22	0.22	0.24	0.23	0.12
4.4	92	90	0.22	0.22	0.21	0.26	0.14
4.5	92	92	0.22	0.22	0.24	0.28	0.16
4.6	91	92	0.22	0.22	0.24	0.30	0.19
4.7	92	93	0.27	0.30	0.29	0.35	0.21
4.8	92	92	0.27	0.30	0.31	0.40	0.28
4.9	93	92	0.30	0.32	0.36	0.42	0.30
5	93	93	0.32	0.37	0.41	0.47	0.33
5.1	93	93	0.35	0.37	0.41	0.47	0.33
5.2	93	93	0.35	0.42	0.45	0.54	0.35
5.3	93	93	0.37	0.42	0.45	0.49	0.37
5.4	93	92	0.37	0.42	0.49	0.56	0.42
5.5	93	92	0.40	0.42	0.48	0.56	0.44
5.6	92	92	0.40	0.45	0.48	0.56	0.42
5.7	93	93	0.40	0.47	0.53	0.63	0.49
5.8	93	93	0.42	0.49	0.53	0.65	0.49
5.9	93	93	0.40	0.49	0.57	0.68	0.53
6	93	92	0.42	0.54	0.57	0.65	0.53
6.1	92	92	0.45	0.54	0.62	0.68	0.56
6.2	92	92	0.47	0.59	0.62	0.70	0.56
6.3	93	92	0.50	0.59	0.67	0.73	0.58
6.4	92	92	0.47	0.57	0.64	0.73	0.60
6.5	92	92	0.52	0.64	0.69	0.77	0.65
6.6	92	92	0.52	0.64	0.72	0.80	0.65
6.7	92	92	0.50	0.64	0.72	0.80	0.65
6.8	93	92	0.57	0.69	0.74	0.84	0.67
6.9	93	91	0.60	0.72	0.76	0.89	0.72
7	93	92	0.60	0.72	0.81	0.91	0.74
7.1	92	92	0.57	0.72	0.79	0.94	0.77
7.2	93	92	0.62	0.77	0.84	0.94	0.79
7.3	93	93	0.67	0.79	0.84	0.98	0.79
7.4	93	93	0.67	0.79	0.86	1.01	0.81
7.5	93	93	0.67	0.82	0.88	1.03	0.84
7.6	93	93	0.70	0.84	0.93	1.05	0.86
7.7	93	93	0.72	0.89	0.96	1.08	0.88
7.8	93	93	0.74	0.92	1.00	1.12	0.93
7.9	93	93	0.72	0.92	1.00	1.17	0.95
8	93	92	0.79	1.01	1.05	1.24	1.00
8.1	93	93	0.84	1.04	1.10	1.24	1.02
8.2	93	93	0.84	1.04	1.12	1.29	1.05
8.3	93	93	0.87	1.06	1.15	1.38	1.12
8.4	93	93	0.92	1.11	1.22	1.38	1.14
8.5	94	93	0.94	1.16	1.24	1.43	1.16
8.6	94	93	0.99	1.21	1.34	1.47	1.23

Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
8.7	94	93	1.02	1.29	1.36	1.57	1.30
8.8	94	94	1.02	1.34	1.41	1.59	1.35
8.9	94	93	1.07	1.34	1.43	1.68	1.37
9	94	93	1.12	1.41	1.50	1.71	1.39
9.1	94	93	1.14	1.41	1.53	1.75	1.44
9.2	94	93	1.14	1.43	1.55	1.80	1.49
9.3	94	94	1.19	1.48	1.60	1.82	1.51
9.4	94	94	1.22	1.53	1.65	1.92	1.56
9.5	94	94	1.29	1.56	1.67	1.92	1.59
9.6	94	93	1.29	1.61	1.72	1.96	1.63
9.7	94	94	1.32	1.66	1.77	2.01	1.67
9.8	94	94	1.37	1.71	1.81	2.13	1.77
9.9	94	94	1.42	1.78	1.86	2.22	1.79
10	95	94	1.44	1.81	1.91	2.22	1.81
10.1	95	94	1.44	1.81	1.98	2.22	1.81
10.2	95	94	1.51	1.85	2.03	2.22	1.84
10.3	95	94	1.49	1.85	2.01	2.25	1.84
10.4	95	94	1.49	1.85	2.03	2.25	1.84
10.5	95	94	1.51	1.88	2.08	2.25	1.86
10.6	95	94	1.54	1.90	2.96	2.29	1.86
10.7	95	94	1.59	1.95	3.61	2.29	1.90
10.8	94	93	1.59	1.95	5.33	2.39	1.95
10.9	94	93	1.66	2.00	6.21	2.48	2.00
11	94	94	1.76	2.15	10.46	2.62	2.04
11.1	95	95	1.81	2.20	9.19	2.74	2.16
11.2	96	95	1.89	2.28	7.38	2.78	2.23
11.3	98	95	1.96	2.32	6.88	2.88	2.32
11.4	97	95	2.01	2.42	8.53	2.92	2.44
11.5	96	95	2.09	2.50	10.72	3.04	2.56
11.6	96	95	2.14	2.57	9.99	3.16	2.67
11.7	96	95	2.23	2.65	7.59	3.25	2.76
11.8	96	96	2.33	2.75	6.67	3.39	2.90
11.9	96	97	2.41	2.87	9.07	3.53	3.04
12	97	98	2.48	2.94	10.13	3.65	3.16
12.1	97	97	2.56	3.04	10.13	3.77	3.30
12.2	97	98	2.66	3.17	11.13	3.95	3.39
12.3	97	98	2.73	3.24	13.64	4.09	3.55
12.4	97	98	2.88	3.34	14.18	4.30	3.69
12.5	97	99	2.98	3.54	14.61	4.42	3.86
12.6	98	98	3.09	3.66	15.00	4.59	4.02
12.7	98	98	3.15	3.73	15.93	4.70	4.19
12.8	98	99	3.20	3.86	15.45	4.89	4.32
12.9	99	100	3.35	3.98	16.33	4.98	4.46
13	99	101	3.40	4.08	15.83	5.10	4.60
13.1	100	101	3.48	4.13	15.78	5.22	4.69
13.2	100	103	3.53	4.23	14.61	5.31	4.79
13.3	101	103	3.63	4.38	12.32	5.36	4.88
13.4	102	104	3.65	4.43	15.86	5.50	4.99
13.5	102	104	3.70	4.45	13.92	5.54	5.04
13.6	102	104	3.75	4.53	12.15	5.59	5.16
13.7	102	104	3.77	4.55	12.37	5.59	5.20
13.8	102	104	3.82	4.65	12.51	5.64	5.27
13.9	103	105	3.85	4.67	13.66	5.71	5.32
14	103	103	3.87	4.75	13.30	5.78	5.34
14.1	103	104	3.92	4.77	13.64	5.85	5.41
14.2	103	104	3.92	4.80	13.54	5.89	5.46
14.3	103	105	4.02	4.87	13.64	5.99	5.55
14.4	103	105	4.00	4.90	14.02	6.08	5.62
14.5	103	106	4.05	4.95	13.35	6.13	5.64
14.6	104	107	4.07	5.02	14.95	6.22	5.69
14.7	105	108	4.20	5.07	12.70	6.25	5.76
14.8	106	107	4.20	5.14	14.33	6.27	5.83
14.9	104	105	4.22	5.19	12.54	6.32	5.90
15	103	105	4.25	5.17	13.30	6.41	5.99
15.1	103	106	4.30	5.27	15.33	6.60	6.04
15.2	104	107	4.37	5.32	17.53	6.69	6.06
15.3	104	107	4.42	5.39	17.84	6.71	6.16
15.4	105	108	4.44	5.44	18.75	6.76	6.25
15.5	105	108	4.57	5.49	17.19	6.90	6.32
15.6	105	107	4.54	5.54	14.52	6.90	6.37
15.7	105	107	4.64	5.61	14.09	6.95	6.43
15.8	105	106	4.69	5.66	13.90	6.99	6.50
15.9	105	106	4.69	5.76	19.84	7.09	6.60
16	105	107	4.77	5.76	11.53	7.13	6.62
16.1	105	107	4.77	5.84	18.70	7.23	6.67
16.2	105	107	4.82	5.84	14.35	7.32	6.76
16.3	105	107	4.92	5.91	18.44	7.32	6.81
16.4	106	108	4.97	5.96	18.03	7.44	6.90
16.5	105	107	4.97	6.01	16.57	7.51	6.97
16.6	105	107	5.02	6.08	17.07	7.53	7.02
16.7	106	106	5.11	6.16	18.77	7.67	7.11
16.8	106	106	5.16	6.26	18.01	7.72	7.20
16.9	106	107	5.19	6.28	20.27	7.84	7.29
17	106	108	5.26	6.38	20.58	7.93	7.36
17.1	107	109	5.29	6.38	18.65	8.02	7.43
17.2	107	108	5.34	6.48	21.71	7.98	7.55
17.3	107	107	5.36	6.55	18.65	8.05	7.57
17.4	110	109	5.46	6.63	19.56	8.19	7.64

Time (min)	Behind Bottom Window TC #31 (°F)	Behind Top Window TC #32 (°F)	Heat Flux Top Window w/ Screen (kW/m²)	Heat Flux Top Window w/o Screen (kW/m²)	Heat Flux Center of Wall Face (kW/m²)	Heat Flux Bottom Window w/ Screen (kW/m²)	Heat Flux Bottom Window w/o Screen (kW/m²)
17.5	110	108	5.44	6.65	19.10	8.30	7.71
17.6	109	109	5.49	6.70	19.37	8.26	7.78
17.7	109	110	5.56	6.75	20.66	8.44	7.87
17.8	110	112	5.64	6.83	19.10	8.44	7.90
17.9	110	111	5.66	6.92	18.20	8.44	7.97
18	110	112	5.69	6.92	18.03	8.54	8.01
18.1	110	111	5.74	6.95	19.37	8.61	8.08
18.2	110	111	5.76	6.97	19.96	8.63	8.13
18.3	110	110	5.81	7.02	18.65	8.77	8.22
18.4	113	110	5.93	7.12	18.72	8.82	8.32
18.5	116	111	6.21	7.42	18.22	8.93	8.36
18.6	121	112	5.98	7.30	23.04	9.08	8.46
18.7	122	111	6.11	7.30	21.92	9.10	8.55
18.8	118	110	6.08	7.32	22.85	9.17	8.62
18.9	115	109	6.13	7.39	22.35	9.33	8.69
19	115	108	6.23	7.42	20.30	9.26	8.76
19.1	118	110	6.21	7.52	24.00	9.43	8.87
19.2	120	111	6.28	7.57	22.92	9.54	8.97
19.3	117	112	6.31	7.62	23.71	9.64	9.04
19.4	116	111	6.36	7.72	24.74	9.64	9.13
19.5	122	112	6.53	7.74	22.38	9.78	9.20
19.6	123	113	6.56	7.84	22.26	9.85	9.29
19.7	126	113	6.60	7.86	22.59	9.89	9.34
19.8	123	113	6.60	7.91	24.26	10.03	9.41
19.9	119	112	6.63	7.99	27.41	10.13	9.50
20	118	113	6.63	7.99	24.00	10.17	9.59
20.1	115	113	6.73	8.11	29.01	10.27	9.66
20.2	113	113	6.75	8.14	20.88	10.29	9.78
20.3	112	112	6.83	8.19	18.91	10.29	9.83
20.4	111	112	6.80	8.19	15.24	10.36	9.85
20.5	111	112	6.80	8.24	15.55	10.34	9.87
20.6	111	112	6.80	8.24	13.73	10.34	9.85
20.7	112	113	6.85	8.28	14.71	10.29	9.83
20.8	112	112	6.83	8.21	14.18	10.17	9.80
20.9	112	112	6.83	8.28	13.28	10.24	9.73
21	116	111	6.85	8.24	12.97	10.17	9.71
21.1	118	111	6.88	8.21	13.92	10.20	9.69
21.2	118	111	6.80	8.16	12.61	10.08	9.64
21.3	116	112	6.78	8.14	12.27	10.06	9.57
21.4	115	110	6.75	8.14	11.61	9.94	9.50
21.5	113	109	6.75	8.09	10.98	9.92	9.43
21.6	112	108	6.70	8.04	11.25	9.85	9.34
21.7	111	108	6.68	8.04	10.84	9.75	9.25
21.8	109	108	6.65	7.99	10.58	9.68	9.15
21.9	108	107	6.63	7.91	10.27	9.59	9.06
22	108	108	6.60	7.91	10.58	9.45	8.97
22.1	108	106	6.60	7.84	9.81	9.36	8.85
22.2	107	105	6.51	7.77	10.20	9.26	8.73
22.3	109	105	6.63	7.72	9.91	9.17	8.64
22.4	111	106	6.46	7.69	10.05	9.03	8.55
22.5	113	108	6.43	7.57	9.34	8.93	8.41
22.6	113	108	6.46	7.54	9.31	8.91	8.32
22.7	114	108	6.41	7.47	8.98	8.77	8.25
22.8	111	107	6.31	7.42	8.91	8.65	8.11
22.9	110	106	6.28	7.32	8.81	8.54	7.97
23	109	104	6.23	7.25	8.84	8.47	7.97
23.1	108	103	6.18	7.20	8.50	8.30	7.74
23.2	108	102	6.08	7.10	8.72	8.23	7.64
23.3	105	100	6.03	7.00	8.24	8.12	7.53
23.4	104	100	5.98	6.92	8.26	8.00	7.39
23.5	103	100	5.96	6.85	8.07	7.93	7.32
23.6	104	99	5.91	6.78	8.24	7.81	7.22
23.7	103	99	5.86	6.73	7.90	7.70	7.11

APPENDIX H
Photographs

TEST A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Test B


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Test C


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ALL WEATHER
WINDOWS
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Test D


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WINDOWS


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ALL WEATHER
WINDOWS
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ALL WEATHER
WINDOWS
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WeatherGard
Series
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List of Calibrated Instrumentation Used for Testing

Description	Serial No.	Calibration Due Date
Data Acquisition Unit	99LE004	7/10/11
Stopwatch	101884097	8/16/12
Gardon Gauge	171621	4/14/12
Gardon Gauge	171622	4/14/12
Gardon Gauge	171623	4/14/12
Gardon Gauge	171624	4/14/12
Gardon Gauge	171625	4/14/12
1000ml Graduated Cylinder	10FR012	8/30/11

Referenced Report

Full-Scale Fire Study of Spatial Separtion

Research Report: IRC-RR-195

Dated: May 19, 2005

Authored by: Joseph Z. Su and Bruce C. Taber

Published by: Institute for Research In Construction and National Research Council Canada, Ottawa, Canada K1A 0R6

REVISION SUMMARY

DATE	SUMMARY
April 28, 2011	Original Issue Date