

ECO BUILDING SYSTEMS CORP. FIRE TEST REPORT

SCOPE OF WORK

ASTM E119 TESTING ON LOAD-BEARING ASSEMBLY CONTAINING ECO BUILDING SYSTEMS CORP. THE PERFECT BLOCK™ INSULATED COMPOSITE CONCRETE FORM

REPORT NUMBER

103254480SAT-001

TEST DATE

03/02/18 – 3/05/18

ISSUE DATE

03/16/18

RECORD RETENTION END DATE

03/16/28

PAGES

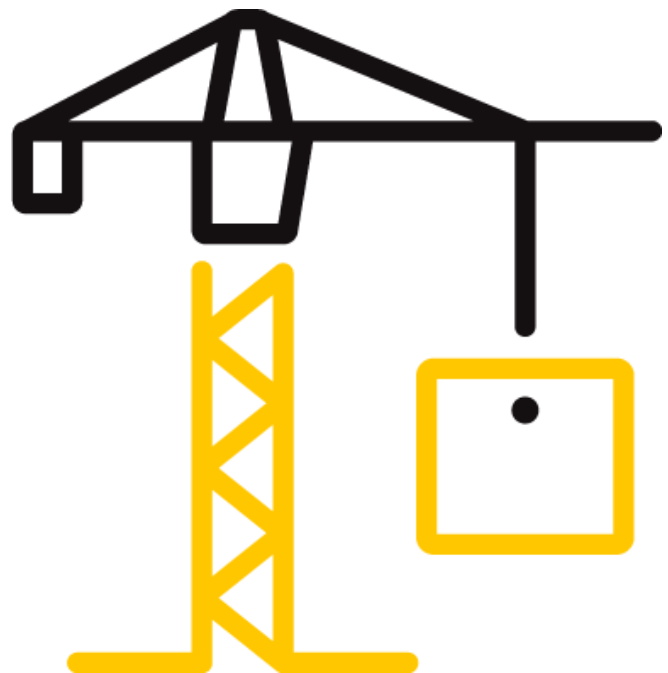
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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

REPORT ISSUED TO

ECO Building Systems Corp.

8960 W Larkspur Drive

Suite 105

Peoria, AZ 85381

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Eco Building Systems Corp., 8960 W Larkspur Dr., Suite 105, Peoria, AZ 85381 to evaluate the fire-resistance characteristics of an asymmetrical wall assembly containing The Perfect Block™ Insulated Composite Concrete Form (ICCF). Testing was conducted at the Intertek B&C test facility in Elmendorf, Texas. Two walls were built with The Perfect Block® ICCF 10 in. asymmetric blocks and tested in order to obtain the fire-resistance classifications for both sides. Testing outlined below was completed per the requirements of the current version of ASTM E119/UL 263. Results obtained are tested values and were secured by using the designated test method(s). A summary of test results and the complete graphical test data is reported herein.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

Wall System: Asymmetrical Load-bearing Wall Assembly

Combustible Components: Insulated Composite Concrete Form (ICCF) Wall composed of recycled expanded polystyrene (EPS) beads and cement.

ASTM E119 Test Results

The asymmetrical assembly described and tested in this report **did** meet the Conditions of Acceptance of ASTM E119 when exposed to a fire-resistance rating of **240 minutes (4 Hours)** on both sides. Construction summary of the full assembly is located in Section 5 of this test report.

For INTERTEK B&C:

COMPLETED BY:	Abel de Hoyos	REVIEWED BY:	Herbert W. Stansberry II
TITLE:	Senior Project Manager– Fire Resistance	TITLE:	Engineering Supervisor
SIGNATURE:		SIGNATURE:	
DATE:	03/16/18	DATE:	03/16/18

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SECTION 3

TEST METHOD

The assembly was evaluated in accordance with the following:

ASTM E119-16a, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components*

UL 263-11_Ed. 14 *Standard for Safety Fire Tests of Building Construction and Materials*

ASTM E2226-15b, *Standard Practice for Application of Hose Stream*

SECTION 4

MATERIAL SOURCE/INSTALLATION

The components of the test assembly were all provided by the client. The 10 in. blocks arrived on two skids at the testing facility on October 20, 2017 and were given Intertek Sample ID. SAT1710201312-001.

Rick Tindal from ECO Building Systems Corp. constructed a 10 × 10 ft. wall composed of The Perfect Block® ICCF 10 in. asymmetric blocks and 10 in. end blocks. The wall blocks measured 48 × 12 × 10 in. (L × H × W). The 10 in. width of the blocks was composed of a 4 in. thick and a 2 in. thick side with a 4 inch area in between with voids to hold the reinforced concrete.

The wall and end blocks were dry stacked and then were injected with Dow® EnerFoam Professional Foam Adhesive & Sealant at the joints to hold them in place. #4 rebar was installed vertically and horizontally within the voids of the blocks. Ten (10) pieces of rebar were installed within the wall, five (5) vertically 24 in. on center, and five (5) horizontally 24 in. on center within the wall to reinforce the concrete.

A slurry mix of normal weight concrete was pumped into the walls at mid height and from the top of the wall.

The 2 in. exterior sides of the walls were covered with Type X gypsum board and the 4 in. exterior sides were covered with a 3/4 in. thick stucco finish.

The walls were allowed to cure for at least 28 days following the application of the stucco prior to being exposed to the ASTM E119 furnace curve.

SECTION 3

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Abel de Hoyos	Intertek B&C

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SECTION 5

TEST PROCEDURE

The ASTM E119 standard measures the fire-resistance performance by quantifying the temperature rise on the unexposed face of the building element when the exposed side is subjected to the standardized ASTM E119 Time vs. Temperature curve.

The unexposed surface of ICCF wall was instrumented with a total of nine (9), 24 GA. Type K, fiberglass jacketed Thermocouples (TCs) as per Section 7.3 of ASTM E119-16a. Furnace Probes as described in Section 7.2 of ASTM E119-16a were utilized to read furnace temperatures. The vertical furnace incorporated nine (9) furnace probes. The output of the thermocouples and the furnace probes were monitored by a 100-channel Yokogawa, Inc., Darwin Data Acquisition Unit. The computer was programmed to save data every 30 seconds. Following the test, the files were imported into MS Excel for tabular and graphical display.

Test one on March 2, 2018 exposed the stucco finish to the furnace and Test two on March 5, 2018 exposed the gypsum board to the furnace.

The fire exposure tests were conducted under loadbearing conditions and were then submitted to the ASTM E2226 hose stream test under loadbearing conditions. After the 240-minute fire exposure tests a 45 psi water pressure hose stream was applied for 300 seconds to the exposed surfaces per the requirements of ASTM E2226.

When the indicated resistance period is ½ h or over, determined by the average or maximum temperature rise on the unexposed or maximum temperature rise on the unexposed surface or within the test specimen, or by failure under load, a correction shall be applied for variation of the furnace exposure from that prescribed, where it will affect the classification, by multiplying the indicated period by two thirds of the difference in area between the curve of average furnace temperature and the standard curve for the first three fourths of the period and dividing the product by the area between the standard curve and a base line of 68°F for the same part of the indicated period, the latter area increased by 54°F*h (3240°F*min) to compensate for the thermal lag of the furnace thermocouples during the first part of the test. For fire exposure in the test higher than the standard, the indicated resistance period shall be increased by the amount of the correction and be similarly decreased for fire exposure below standard.

The correction can be expressed by the following equation:

$$C = \frac{2I(A - A_s)}{3(A_s + L)}$$

where:

C=correction in the same units as I,

I=indicated fire-resistance period,

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A=area under the curve of indicated average furnace temperature for the first three fourths of the indicated period,

AS=area under the standard furnace curve for the same part of the indicated period, and

L=lager correction in the same units as A and AS (54°F*h or 30°C*h (3240°F*min or 1800°C*min))

SECTION 6

LOADING CALCULATION

$$Ft = W + DL * N$$

$$A = Na * A_{eff}.$$

$$P = \frac{Ft}{A}$$

VARIABLE	DESCRIPTION	VALUE	UNIT
W	Uniform Load of Dead Weight	7387	lb.
DL	Design Load / Stud	4500	lb.
N	Number of Studs	10	L ft.
Na	Number of Actuators	5	--
A _{eff.}	Effective Area / Actuator	18.665	in. ²
A	Total Area	20.6	in. ²
Ft	Total Force	11,887	lb.
P	Pressure in Hydraulic Line	561	PSI

SECTION 7

TEST SPECIMEN DESCRIPTION

Stucco Finish Exposed (Test One)

The full exposed surface of the wall assembly was clad with a 3/4 in. thick layer of stucco. The stucco was trowel directly to the 4 in. side of the ICCF wall in two layers. The perimeter of the walls incorporated a 3/4 in. casing bead to assist in the termination of the stucco.

The full unexposed surface of the 2 in. side of the ICCF wall was covered with 5/8 in. Type X, gypsum board. The gypsum board was attached to the wall with USG Sheetrock® All-purpose joint compound that was trowelled directly to the ICCF wall. The joints of the gypsum were taped with USG Sheetrock® Brand paper joint tape and spackled with USG Sheetrock® Brand joint compound.

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Gypsum Board Exposed (Test Two)

The full exposed surface of the 2 in. side of the ICCF wall was covered with 5/8 in. Type X, gypsum board. The gypsum board was attached to the wall with USG Sheetrock® All-purpose joint compound that was trowelled directly to the ICCF wall. The joints of the gypsum were taped with USG Sheetrock® Brand paper joint tape and spackled with USG Sheetrock® Brand joint compound.

The full unexposed surface of the wall assembly was clad with a 3/4 in. thick layer of stucco. The stucco was trowel directly to the 4 in. side of the ICCF wall in two layers. The perimeter of the walls incorporated a 3/4 in. casing bead to assist in the termination of the stucco.

SECTION 8

TEST RESULTS

FIRE-RESISTANCE TEST OBSERVATIONS (Stucco Exposed)	
Time (Min:Sec)	Observations
Pre-test	The assembly was subjected to the prescribed load.
00:00	Ignition of furnace burners. Fire-resistance test begins at 10:12 A.M.
04:45	Exposed stucco falling off
06:00	Probe #9 damaged and removed from avg.
15:00	Smoke coming from perimeter of exterior (unexposed side) upper right side, as viewed
20:00	Exposed side flaming from blocks under areas without stucco.
25:00	Flaming continues on exposed side
30:00	No change
35:00	Continued flaming of exposed side
40:00	Flaming of exposed side subsiding
60:00	Flaming visible on upper area of exposed side
70:00	No visible change
80:00	No change
90:00	No change
120:00	Exterior (unexposed side) smoke subsiding
130:00	Smoke from unexposed side upper left increasing. (as viewed)
168:00	Large section of exposed side perimeter of wall falls (pop heard)
170:00	Smaller pieces continue to fall from perimeter of exposed side of wall
180:00	Small pieced continue to fall from exposed side
200:00	No change
230:00	No change
240:00	Burners shut off. Conclusion of fire-resistance test.

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HOSE STREAM TEST OBSERVATIONS (Stucco Exposed)	
Time (Min:Sec)	Observations
00:00	Prescribes water pressure achieved at the hose stream apparatus. Test begins
5:00	Hose stream test concluded. No passage of water to other side

FIRE-RESISTANCE TEST OBSERVATIONS (Gypsum Exposed)	
Time (Min:Sec)	Observations
Pre-test	The assembly was subjected to the prescribed load.
00:00	Ignition of furnace burners. Fire-resistance test begins at 9:37 A.M.
02:00	Gypsum paper flashing on exposed side
15:00	No visible change to unexposed side
23:00	Gypsum board beginning to fall off exposed side
24:00	Flaming on exposed side where gypsum board has fallen off
30:00	No changes to unexposed side
33:00	Light smoke/steam from perimeter of unexposed upper area
60:00	No visible changes to unexposed side
70:00	Periodic smoking of unexposed side, upper left perimeter as viewed
80:00	Flaming on exposed side reduced to flickering
90:00	No visible changes to unexposed side
100:00	No visible flaming of exposed side
120:00	Light smoke from upper corners of unexposed side
150:00	Visible crack along vertical centerline of unexposed stucco
180:00	Crack on unexposed side slightly more noticeable
193:00	Popping sounds heard but nothing visually observed internally or externally
210:00	No visible changes to exposed or unexposed sides
240:00	Burners shut off. Conclusion of fire-resistance test.

HOSE STREAM TEST OBSERVATIONS (Gypsum Exposed)	
Time (Min:Sec)	Observations
00:00	Prescribes water pressure achieved at the hose stream apparatus. Test begins
05:00	Hose stream test concluded. No passage of water to other side

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VARIABLE	DESCRIPTION	VALUE	UNITS
C	Correction Factor	-16	seconds
I	Indicated FR Period	240	minutes
A	Area under Indicated FR Period for first 3/4 of test period	293946	°F*min
As	Area under Standard E119 Time vs. Temp. Curve for first 3/4 of test period	294454	°F*min
L	Lag Correction	3240	°F*min
FR Period	Fire-Resistance Period (Stucco Exposed)	240	minutes

VARIABLE	DESCRIPTION	VALUE	UNITS
C	Correction Factor	1	seconds
I	Indicated FR Period	240	minutes
A	Area under Indicated FR Period for first 3/4 of test period	294473	°F*min
As	Area under Standard E119 Time vs. Temp. Curve for first 3/4 of test period	294454	°F*min
L	Lag Correction	3240	°F*min
FR Period	Fire-Resistance Period (Gypsum Exposed)	240	minutes

SECTION 9

PHOTOGRAPHS



Photo No. 1
ICCF Blocks

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Photo No. 2
Construction of Wall

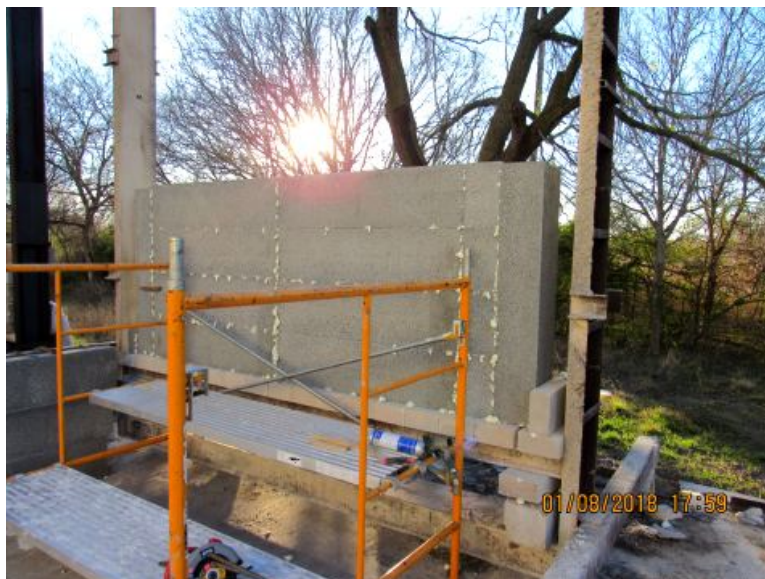


Photo No. 3
Construction of Wall

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Photo No. 4
Installation of Re-bar



Photo No. 5
Injection of Adhesive

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Photo No. 6
Cut-Outs for Concrete



Photo No. 7
Plugging of Holes after Concrete Fill

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Photo No. 8
Prepping for Installation of Gypsum Board



Photo No. 9
USG All-Purpose Joint Compound

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Photo No. 10
Troweling of Joint Compound



Photo No. 11
Gypsum Board Side Finish

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Photo No. 12
Installation of 3/4 in. Casing for Stucco



Photo No. 13
Measurement of Casing on Perimeter of Wall

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Photo No. 14
Stucco



Photo No. 15
Application of Stucco

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Photo No. 16
Stucco Finish



Photo No. 17
Gypsum Board Finish

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Photo No. 18
Start of Test (Stucco Exposed)



Photo No. 19
Stucco Finish Falling off Wall (Exposed Side)

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Photo No. 20
Flaming of Wall After Stucco Falls (Exposed Side)



Photo No. 21
Unexposed Side During Test

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Photo No. 22
Wall Removed at End of Test



Photo No. 23
Pre Hose Stream Test

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Photo No. 24
Hose Stream Test



Photo No. 25
Post-Test Exposed Side

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Photo No. 26
Post-Test Unexposed Side

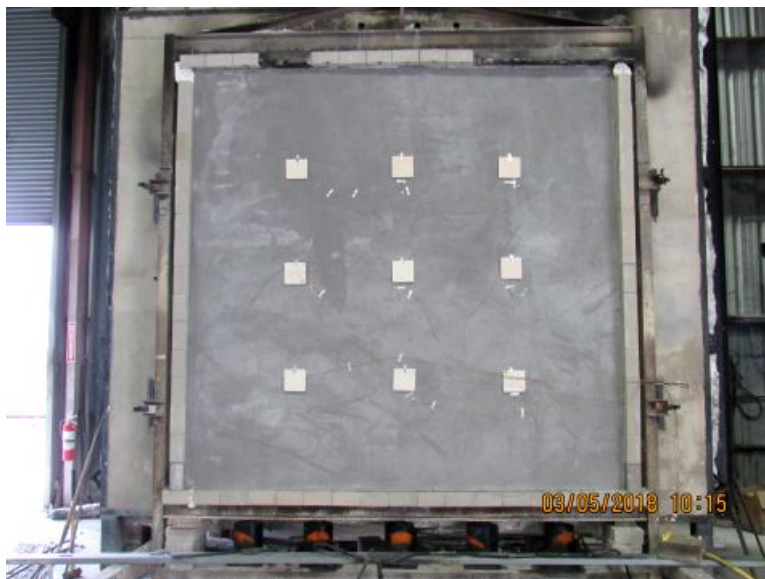


Photo No. 27
Start of Test (Gypsum Board Exposed)

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Photo No. 28
Exposed Side View of Gypsum Board Falling Off



Photo No. 29
Unexposed Side View

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Photo No. 30
Flaming of Wall after Gypsum Board Falls



Photo No. 31
Centerline Crack Develops

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Photo No. 32
Centerline Crack



Photo No. 33
Removal of Wall at End of Test

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Photo No. 34
Exposed Side View at End of Test



Photo No. 35
Pre Hose Stream Test

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Photo No. 36
Hose Stream Test



Photo No 37
Post Hose Stream Test

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Photo No. 38

Unexposed Side Post Hose Stream Test



Photo No. 39

Exposed Side Post Hose Stream Test

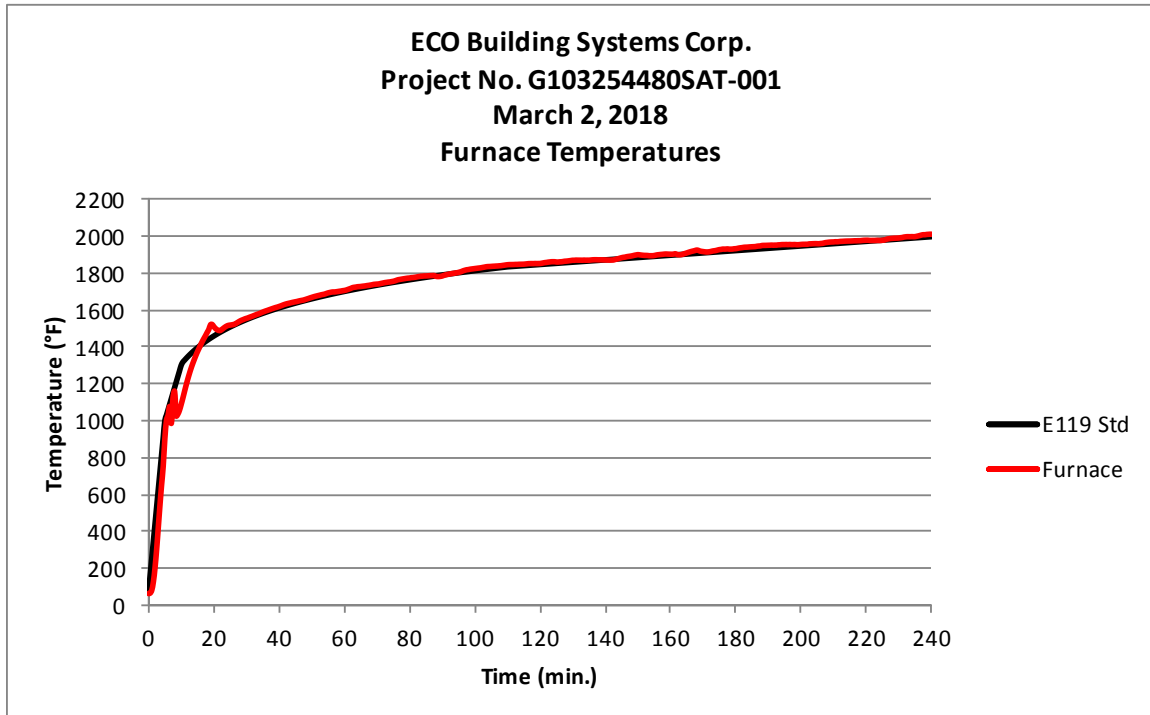
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SECTION 10

GRAPHS

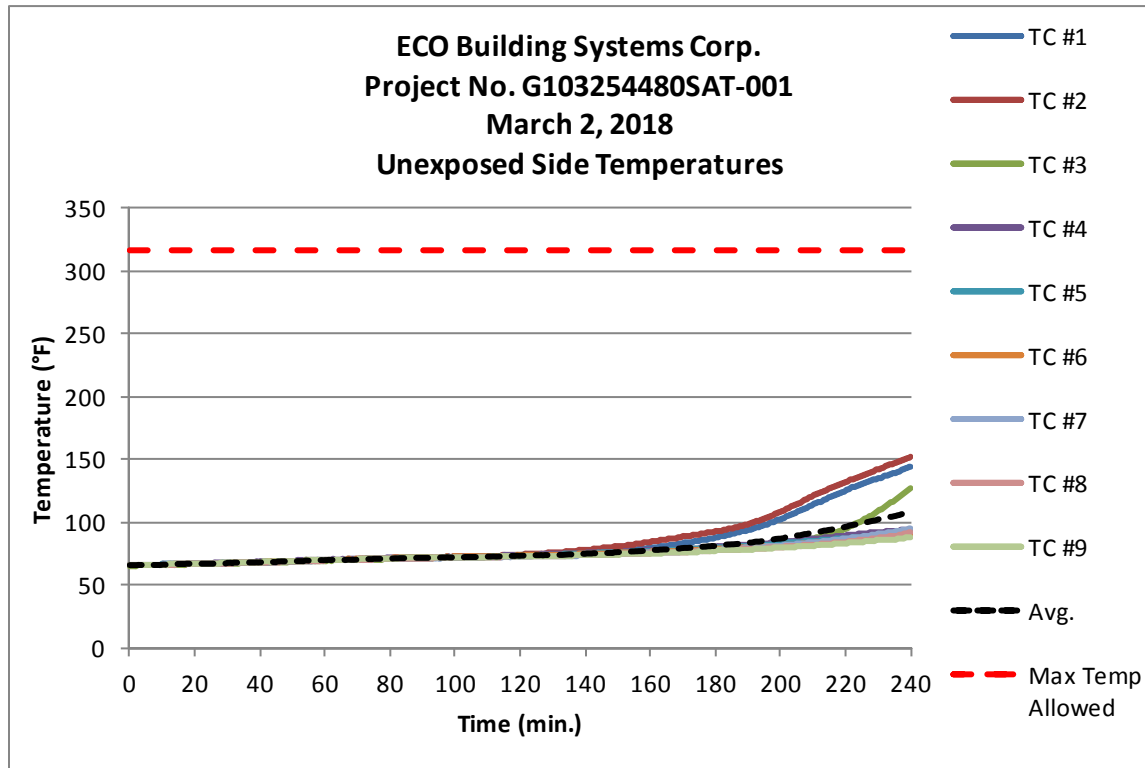


**Graph No. 1
Furnace Time-Temperature vs. Standard Time-Temperature
Stucco Exposed**

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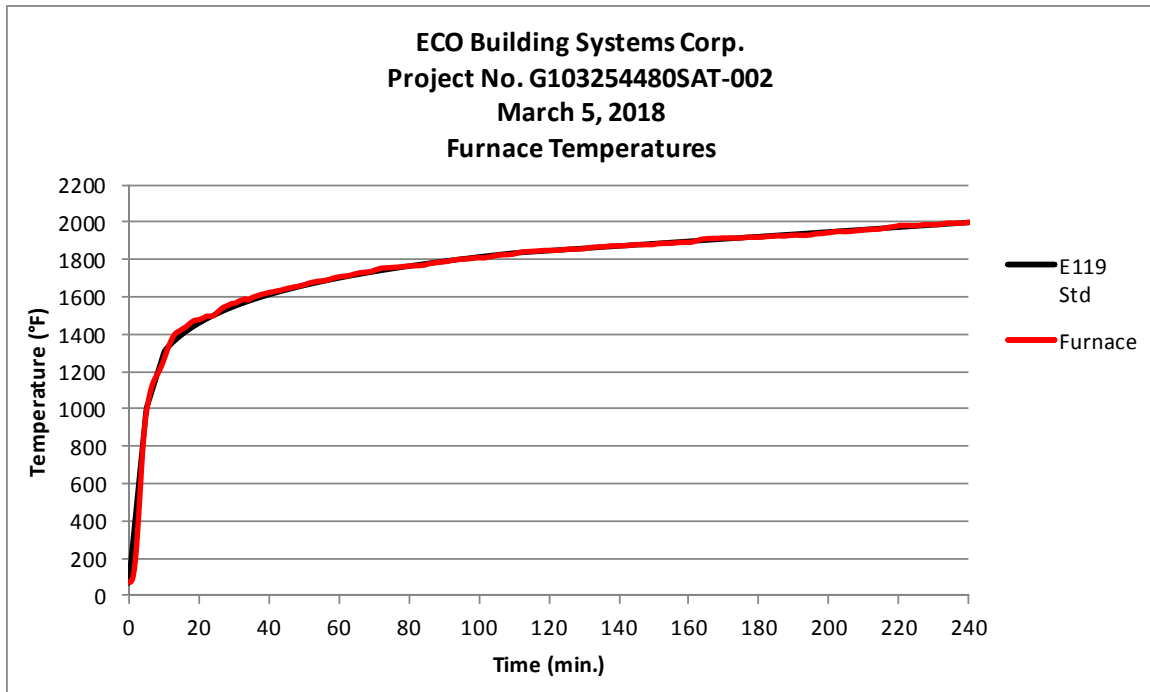


**Graph No. 2
Unexposed Surface Temperatures
Stucco Exposed**

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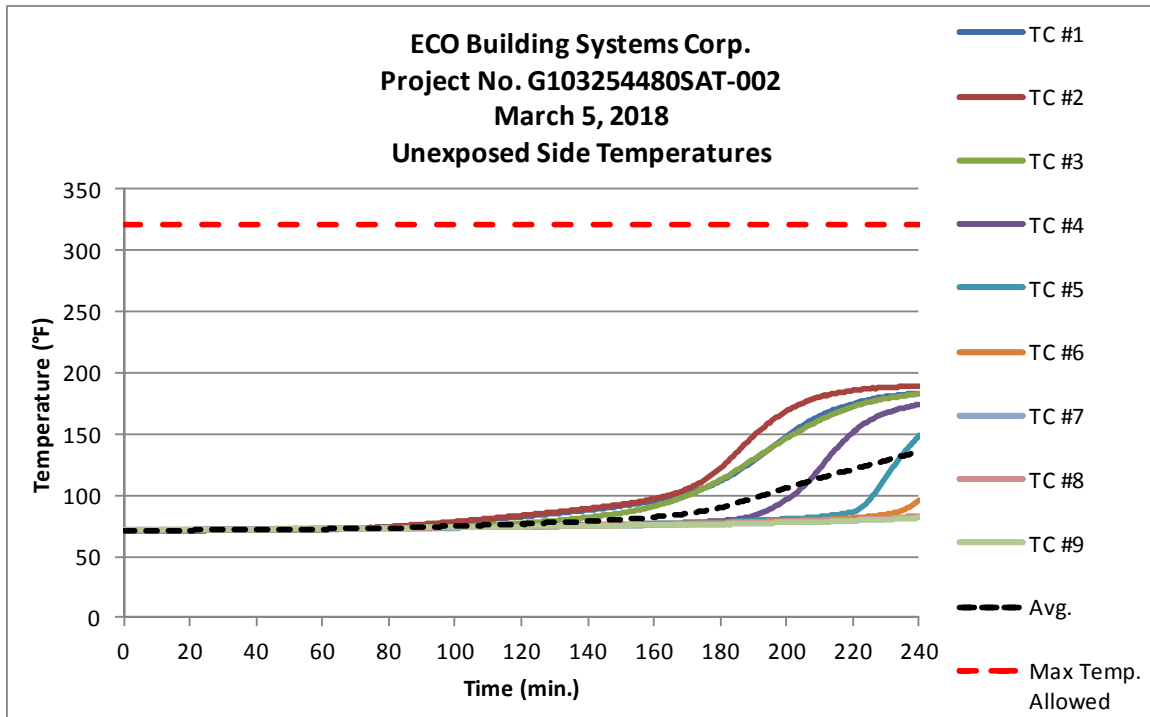


**Graph No. 3
Furnace Time-Temperature vs. Standard Time-Temperature
Gypsum Board Exposed**

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Graph No. 4
Unexposed Surface Temperatures
Gypsum Board Exposed



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SECTION 11

NUMERICAL DATA (Stucco Exposed)

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ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
0	68	62	0	0	0.00%
0.5	161	64	-2	23	-110.38%
1	254	80	0	93	-100.37%
1.5	348	127	17	210	-91.69%
2	441	203	66	373	-82.33%
2.5	534	304	159	583	-72.76%
3	627	422	306	839	-63.51%
3.5	720	540	513	1142	-55.11%
4	814	651	776	1491	-47.94%
4.5	907	752	1093	1887	-42.09%
5	1000	901	1472	2330	-36.82%
5.5	1030	1001	1914	2804	-31.74%
6	1060	1030	2388	3292	-27.47%
6.5	1090	1076	2880	3796	-24.12%
7	1120	985	3362	4314	-22.08%
7.5	1150	1125	3855	4848	-20.47%
8	1180	1159	4392	5396	-18.60%
8.5	1210	1026	4904	5960	-17.70%
9	1240	1036	5386	6538	-17.62%
9.5	1270	1057	5875	7132	-17.62%
10	1300	1087	6377	7740	-17.61%
10.5	1317	1121	6895	8360	-17.52%
11	1328	1156	7430	8988	-17.32%
11.5	1337	1191	7983	9620	-17.01%
12	1347	1223	8553	10257	-16.62%
12.5	1356	1254	9138	10898	-16.15%
13	1364	1282	9738	11545	-15.65%
13.5	1373	1307	10351	12195	-15.12%
14	1381	1331	10977	12849	-14.57%
14.5	1388	1354	11614	13507	-14.02%
15	1396	1374	12262	14170	-13.46%
15.5	1403	1393	12920	14835	-12.91%
16	1410	1412	13587	15505	-12.37%
16.5	1417	1430	14264	16177	-11.83%
17	1424	1447	14949	16854	-11.30%
17.5	1430	1463	15643	17533	-10.78%
18	1436	1480	16344	18215	-10.27%
18.5	1442	1496	17054	18901	-9.77%
19	1448	1521	17774	19590	-9.27%
19.5	1454	1522	18501	20281	-8.78%
20	1459	1511	19225	20975	-8.34%
20.5	1465	1501	19944	21672	-7.97%
21	1470	1494	20659	22372	-7.66%
21.5	1475	1490	21371	23074	-7.38%
22	1480	1489	22082	23779	-7.14%
22.5	1485	1495	22794	24487	-6.91%
23	1490	1502	23509	25196	-6.70%
23.5	1495	1509	24228	25909	-6.49%
24	1499	1514	24950	26623	-6.29%
24.5	1504	1517	25674	27340	-6.10%



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ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
25	1508	1519	26399	28059	-5.92%
25.5	1513	1520	27125	28781	-5.75%
26	1517	1522	27851	29504	-5.60%
26.5	1521	1525	28579	30230	-5.46%
27	1525	1530	29308	30957	-5.33%
27.5	1529	1535	30041	31687	-5.20%
28	1533	1541	30776	32419	-5.07%
28.5	1537	1545	31513	33153	-4.94%
29	1541	1549	32253	33888	-4.83%
29.5	1545	1552	32994	34626	-4.71%
30	1549	1555	33737	35365	-4.60%
30.5	1552	1558	34481	36106	-4.50%
31	1556	1562	35227	36850	-4.40%
31.5	1559	1565	35975	37594	-4.31%
32	1563	1568	36724	38341	-4.22%
32.5	1566	1572	37475	39089	-4.13%
33	1570	1575	38228	39839	-4.04%
33.5	1573	1579	38983	40591	-3.96%
34	1576	1582	39739	41344	-3.88%
34.5	1579	1586	40497	42099	-3.81%
35	1583	1589	41256	42856	-3.73%
35.5	1586	1593	42018	43614	-3.66%
36	1589	1596	42781	44373	-3.59%
36.5	1592	1599	43546	45135	-3.52%
37	1595	1602	44312	45897	-3.45%
37.5	1598	1605	45080	46661	-3.39%
38	1601	1609	45850	47427	-3.33%
38.5	1604	1612	46621	48194	-3.26%
39	1606	1614	47393	48963	-3.21%
39.5	1609	1617	48167	49733	-3.15%
40	1612	1620	48942	50504	-3.09%
40.5	1615	1623	49719	51277	-3.04%
41	1617	1626	50497	52051	-2.98%
41.5	1620	1630	51277	52826	-2.93%
42	1623	1633	52059	53603	-2.88%
42.5	1625	1635	52842	54381	-2.83%
43	1628	1637	53626	55160	-2.78%
43.5	1631	1639	54411	55941	-2.73%
44	1633	1642	55197	56723	-2.69%
44.5	1636	1643	55984	57506	-2.65%
45	1638	1645	56773	58290	-2.60%
45.5	1640	1647	57562	59076	-2.56%
46	1643	1649	58352	59863	-2.52%
46.5	1645	1651	59143	60651	-2.49%
47	1648	1653	59935	61440	-2.45%
47.5	1650	1655	60728	62230	-2.41%
48	1652	1657	61522	63022	-2.38%
48.5	1655	1660	62318	63815	-2.35%
49	1657	1663	63114	64608	-2.31%
49.5	1659	1666	63913	65403	-2.28%

TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

	E119 Std	Furnace	Integration	Integration	
Time	Average	Average	of Furnace	of E119 Std	Error
(min)	(°F)	(°F)	(°F•min)	(°F•min)	(%)
50	1661	1669	64713	66199	-2.25%
50.5	1663	1672	65514	66997	-2.21%
51	1666	1675	66317	67795	-2.18%
51.5	1668	1677	67120	68594	-2.15%
52	1670	1679	67925	69394	-2.12%
52.5	1672	1681	68731	70196	-2.09%
53	1674	1683	69539	70998	-2.06%
53.5	1676	1685	70347	71802	-2.03%
54	1678	1687	71156	72607	-2.00%
54.5	1680	1690	71966	73412	-1.97%
55	1682	1693	72778	74219	-1.94%
55.5	1684	1695	73591	75026	-1.91%
56	1686	1697	74406	75835	-1.88%
56.5	1688	1699	75221	76645	-1.86%
57	1690	1699	76036	77455	-1.83%
57.5	1692	1700	76852	78267	-1.81%
58	1694	1701	77668	79079	-1.78%
58.5	1696	1702	78485	79893	-1.76%
59	1698	1704	79302	80707	-1.74%
59.5	1700	1705	80120	81522	-1.72%
60	1701	1707	80939	82338	-1.70%
60.5	1703	1709	81759	83156	-1.68%
61	1705	1712	82580	83974	-1.66%
61.5	1707	1715	83403	84793	-1.64%
62	1709	1718	84227	85612	-1.62%
62.5	1710	1722	85053	86433	-1.60%
63	1712	1724	85881	87255	-1.58%
63.5	1714	1725	86709	88077	-1.55%
64	1716	1727	87538	88901	-1.53%
64.5	1717	1728	88367	89725	-1.51%
65	1719	1728	89197	90550	-1.49%
65.5	1721	1730	90028	91376	-1.48%
66	1722	1731	90859	92203	-1.46%
66.5	1724	1732	91690	93030	-1.44%
67	1726	1733	92523	93859	-1.42%
67.5	1727	1734	93355	94688	-1.41%
68	1729	1736	94189	95518	-1.39%
68.5	1731	1738	95023	96349	-1.38%
69	1732	1740	95859	97181	-1.36%
69.5	1734	1741	96695	98013	-1.35%
70	1735	1741	97531	98847	-1.33%
70.5	1737	1742	98368	99681	-1.32%
71	1738	1744	99206	100515	-1.30%
71.5	1740	1746	100044	101351	-1.29%
72	1742	1748	100883	102187	-1.28%
72.5	1743	1750	101724	103025	-1.26%
73	1745	1751	102565	103863	-1.25%
73.5	1746	1752	103407	104701	-1.24%
74	1748	1753	104249	105541	-1.22%
74.5	1749	1755	105092	106381	-1.21%



Total Quality. Assured.

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Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
75	1751	1756	105936	107222	-1.20%
75.5	1752	1759	106781	108063	-1.19%
76	1753	1762	107627	108906	-1.17%
76.5	1755	1765	108474	109749	-1.16%
77	1756	1766	109323	110593	-1.15%
77.5	1758	1768	110173	111437	-1.13%
78	1759	1770	111023	112282	-1.12%
78.5	1761	1771	111874	113128	-1.11%
79	1762	1772	112726	113975	-1.10%
79.5	1763	1774	113579	114822	-1.08%
80	1765	1774	114432	115670	-1.07%
80.5	1766	1776	115285	116519	-1.06%
81	1768	1777	116140	117369	-1.05%
81.5	1769	1778	116994	118219	-1.04%
82	1770	1779	117850	119069	-1.02%
82.5	1772	1781	118706	119921	-1.01%
83	1773	1783	119563	120773	-1.00%
83.5	1774	1784	120420	121626	-0.99%
84	1776	1784	121278	122479	-0.98%
84.5	1777	1785	122137	123333	-0.97%
85	1778	1785	122996	124188	-0.96%
85.5	1779	1786	123854	125043	-0.95%
86	1781	1787	124714	125899	-0.94%
86.5	1782	1787	125573	126756	-0.93%
87	1783	1788	126433	127613	-0.93%
87.5	1785	1788	127293	128471	-0.92%
88	1786	1784	128152	129330	-0.91%
88.5	1787	1782	129009	130189	-0.91%
89	1788	1782	129866	131049	-0.90%
89.5	1789	1783	130724	131909	-0.90%
90	1791	1785	131582	132770	-0.90%
90.5	1792	1788	132441	133632	-0.89%
91	1793	1791	133302	134494	-0.89%
91.5	1794	1793	134164	135357	-0.88%
92	1796	1795	135027	136221	-0.88%
92.5	1797	1797	135891	137085	-0.87%
93	1798	1798	136756	137950	-0.87%
93.5	1799	1800	137622	138815	-0.86%
94	1800	1801	138488	139681	-0.85%
94.5	1801	1803	139355	140547	-0.85%
95	1803	1805	140223	141414	-0.84%
95.5	1804	1807	141092	142282	-0.84%
96	1805	1810	141962	143150	-0.83%
96.5	1806	1814	142834	144019	-0.82%
97	1807	1817	143708	144888	-0.81%
97.5	1808	1819	144582	145758	-0.81%
98	1809	1820	145458	146628	-0.80%
98.5	1811	1822	146335	147499	-0.79%
99	1812	1823	147212	148371	-0.78%
99.5	1813	1824	148090	149243	-0.77%



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Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
100	1814	1826	148968	150116	-0.76%
100.5	1815	1827	149847	150989	-0.76%
101	1816	1828	150727	151863	-0.75%
101.5	1817	1829	151607	152737	-0.74%
102	1818	1830	152488	153612	-0.73%
102.5	1819	1832	153370	154487	-0.72%
103	1820	1834	154252	155363	-0.72%
103.5	1822	1835	155135	156240	-0.71%
104	1823	1836	156019	157117	-0.70%
104.5	1824	1837	156903	157995	-0.69%
105	1825	1837	157788	158873	-0.68%
105.5	1826	1838	158673	159751	-0.68%
106	1827	1838	159558	160630	-0.67%
106.5	1828	1839	160443	161510	-0.66%
107	1829	1840	161329	162390	-0.65%
107.5	1830	1840	162215	163271	-0.65%
108	1831	1841	163101	164152	-0.64%
108.5	1832	1842	163988	165034	-0.63%
109	1833	1844	164876	165916	-0.63%
109.5	1834	1845	165764	166799	-0.62%
110	1835	1846	166653	167682	-0.61%
110.5	1836	1847	167542	168566	-0.61%
111	1836	1847	168431	169450	-0.60%
111.5	1837	1847	169321	170334	-0.59%
112	1838	1848	170211	171218	-0.59%
112.5	1838	1848	171101	172103	-0.58%
113	1839	1848	171991	172989	-0.58%
113.5	1839	1849	172881	173874	-0.57%
114	1840	1849	173771	174760	-0.57%
114.5	1841	1849	174662	175646	-0.56%
115	1841	1849	175553	176533	-0.56%
115.5	1842	1850	176444	177420	-0.55%
116	1843	1851	177335	178307	-0.55%
116.5	1843	1852	178227	179194	-0.54%
117	1844	1852	179119	180082	-0.53%
117.5	1844	1853	180011	180970	-0.53%
118	1845	1852	180903	181858	-0.53%
118.5	1846	1853	181796	182747	-0.52%
119	1846	1853	182688	183636	-0.52%
119.5	1847	1853	183581	184525	-0.51%
120	1848	1853	184473	185415	-0.51%
120.5	1848	1855	185366	186305	-0.50%
121	1849	1856	186260	187195	-0.50%
121.5	1850	1858	187154	188086	-0.50%
122	1850	1859	188049	188977	-0.49%
122.5	1851	1860	188945	189868	-0.49%
123	1851	1861	189842	190760	-0.48%
123.5	1852	1863	190739	191652	-0.48%
124	1853	1863	191636	192544	-0.47%
124.5	1853	1863	192533	193436	-0.47%



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Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
125	1854	1861	193430	194329	-0.46%
125.5	1855	1861	194327	195222	-0.46%
126	1855	1862	195224	196115	-0.45%
126.5	1856	1862	196121	197009	-0.45%
127	1856	1864	197018	197903	-0.45%
127.5	1857	1865	197917	198798	-0.44%
128	1858	1866	198815	199692	-0.44%
128.5	1858	1867	199714	200587	-0.44%
129	1859	1868	200614	201483	-0.43%
129.5	1860	1869	201514	202378	-0.43%
130	1860	1871	202415	203274	-0.42%
130.5	1861	1871	203317	204170	-0.42%
131	1861	1871	204218	205067	-0.41%
131.5	1862	1871	205120	205964	-0.41%
132	1863	1871	206021	206861	-0.41%
132.5	1863	1871	206923	207759	-0.40%
133	1864	1871	207824	208656	-0.40%
133.5	1865	1872	208726	209554	-0.40%
134	1865	1871	209628	210453	-0.39%
134.5	1866	1871	210529	211352	-0.39%
135	1866	1871	211431	212251	-0.39%
135.5	1867	1872	212333	213150	-0.38%
136	1868	1873	213235	214050	-0.38%
136.5	1868	1873	214137	214950	-0.38%
137	1869	1873	215040	215850	-0.38%
137.5	1870	1873	215943	216751	-0.37%
138	1870	1873	216845	217652	-0.37%
138.5	1871	1873	217748	218553	-0.37%
139	1871	1873	218650	219455	-0.37%
139.5	1872	1873	219553	220357	-0.36%
140	1873	1872	220455	221259	-0.36%
140.5	1873	1872	221357	222161	-0.36%
141	1874	1872	222259	223064	-0.36%
141.5	1875	1871	223160	223967	-0.36%
142	1875	1872	224062	224871	-0.36%
142.5	1876	1872	224964	225775	-0.36%
143	1877	1875	225867	226679	-0.36%
143.5	1877	1877	226771	227583	-0.36%
144	1878	1879	227676	228488	-0.36%
144.5	1878	1882	228582	229393	-0.35%
145	1879	1884	229490	230298	-0.35%
145.5	1880	1886	230399	231204	-0.35%
146	1880	1888	231308	232110	-0.35%
146.5	1881	1890	232219	233016	-0.34%
147	1882	1891	233130	233923	-0.34%
147.5	1882	1892	234042	234830	-0.34%
148	1883	1894	234954	235737	-0.33%
148.5	1883	1896	235868	236645	-0.33%
149	1884	1898	236782	237552	-0.32%
149.5	1885	1900	237697	238461	-0.32%



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March 2, 2018

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
150	1885	1901	238614	239369	-0.32%
150.5	1886	1900	239530	240278	-0.31%
151	1887	1899	240446	241187	-0.31%
151.5	1887	1898	241361	242097	-0.30%
152	1888	1897	242276	243006	-0.30%
152.5	1888	1897	243190	243916	-0.30%
153	1889	1896	244104	244827	-0.30%
153.5	1890	1895	245018	245738	-0.29%
154	1890	1895	245932	246649	-0.29%
154.5	1891	1895	246846	247560	-0.29%
155	1892	1896	247760	248471	-0.29%
155.5	1892	1898	248674	249383	-0.28%
156	1893	1900	249590	250296	-0.28%
156.5	1893	1901	250506	251208	-0.28%
157	1894	1902	251423	252121	-0.28%
157.5	1895	1903	252340	253034	-0.27%
158	1895	1904	253258	253948	-0.27%
158.5	1896	1905	254176	254862	-0.27%
159	1897	1904	255094	255776	-0.27%
159.5	1897	1904	256012	256690	-0.26%
160	1898	1904	256930	257605	-0.26%
160.5	1899	1903	257848	258520	-0.26%
161	1899	1904	258766	259436	-0.26%
161.5	1900	1906	259684	260351	-0.26%
162	1900	1902	260602	261268	-0.25%
162.5	1901	1901	261519	262184	-0.25%
163	1902	1901	262436	263101	-0.25%
163.5	1902	1902	263352	264018	-0.25%
164	1903	1905	264270	264935	-0.25%
164.5	1904	1908	265189	265852	-0.25%
165	1904	1911	266110	266770	-0.25%
165.5	1905	1914	267032	267689	-0.25%
166	1905	1916	267955	268607	-0.24%
166.5	1906	1919	268880	269526	-0.24%
167	1907	1921	269806	270445	-0.24%
167.5	1907	1923	270734	271365	-0.23%
168	1908	1926	271662	272285	-0.23%
168.5	1909	1925	272590	273205	-0.22%
169	1909	1921	273518	274125	-0.22%
169.5	1910	1919	274444	275046	-0.22%
170	1910	1918	275369	275967	-0.22%
170.5	1911	1916	276293	276888	-0.21%
171	1912	1916	277217	277810	-0.21%
171.5	1912	1916	278141	278732	-0.21%
172	1913	1917	279065	279654	-0.21%
172.5	1914	1919	279990	280577	-0.21%
173	1914	1921	280916	281500	-0.21%
173.5	1915	1922	281843	282423	-0.21%
174	1915	1924	282771	283347	-0.20%
174.5	1916	1926	283700	284271	-0.20%



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ECO Building Systems Corp.

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March 2, 2018

	E119 Std	Furnace	Integration	Integration	
Time	Average	Average	Average	Average	Error
(min)	(°F)	(°F)	(°F•min)	(°F•min)	(%)
175	1917	1928	284629	285195	-0.20%
175.5	1917	1929	285560	286119	-0.20%
176	1918	1931	286491	287044	-0.19%
176.5	1919	1931	287422	287969	-0.19%
177	1919	1931	288354	288895	-0.19%
177.5	1920	1932	289286	289821	-0.18%
178	1921	1931	290218	290747	-0.18%
178.5	1921	1931	291149	291673	-0.18%
179	1922	1931	292081	292600	-0.18%
179.5	1922	1933	293013	293527	-0.18%
180	1923	1933	293946	294454	-0.17%
180.5	1924	1935	294879	295382	-0.17%
181	1924	1937	295813	296310	-0.17%
181.5	1925	1938	296748	297238	-0.17%
182	1926	1939	297683	298167	-0.16%
182.5	1926	1941	298619	299096	-0.16%
183	1927	1942	299556	300025	-0.16%
183.5	1927	1942	300493	300955	-0.15%
184	1928	1943	301430	301884	-0.15%
184.5	1929	1943	302367	302815	-0.15%
185	1929	1944	303305	303745	-0.14%
185.5	1930	1944	304243	304676	-0.14%
186	1931	1945	305181	305607	-0.14%
186.5	1931	1947	306120	306539	-0.14%
187	1932	1948	307060	307470	-0.13%
187.5	1932	1948	308000	308402	-0.13%
188	1933	1951	308941	309335	-0.13%
188.5	1934	1951	309882	310267	-0.12%
189	1934	1951	310824	311200	-0.12%
189.5	1935	1952	311766	312134	-0.12%
190	1936	1952	312707	313067	-0.11%
190.5	1936	1952	313650	314001	-0.11%
191	1937	1953	314592	314936	-0.11%
191.5	1937	1952	315534	315870	-0.11%
192	1938	1953	316476	316805	-0.10%
192.5	1939	1953	317419	317740	-0.10%
193	1939	1954	318362	318676	-0.10%
193.5	1940	1954	319305	319612	-0.10%
194	1941	1955	320248	320548	-0.09%
194.5	1941	1956	321192	321484	-0.09%
195	1942	1956	322136	322421	-0.09%
195.5	1943	1956	323080	323358	-0.09%
196	1943	1956	324024	324296	-0.08%
196.5	1944	1956	324968	325233	-0.08%
197	1944	1956	325912	326171	-0.08%
197.5	1945	1956	326855	327110	-0.08%
198	1946	1956	327799	328048	-0.08%
198.5	1946	1955	328743	328987	-0.07%
199	1947	1955	329687	329927	-0.07%
199.5	1948	1956	330630	330866	-0.07%



Total Quality. Assured.

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Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

	E119 Std	Furnace	Integration	Integration	
Time	Average	Average	Average	Average	Error
(min)	(°F)	(°F)	(°F•min)	(°F•min)	(%)
200	1948	1957	331574	331806	-0.07%
200.5	1949	1957	332519	332746	-0.07%
201	1949	1957	333464	333687	-0.07%
201.5	1950	1958	334408	334628	-0.07%
202	1951	1958	335353	335569	-0.06%
202.5	1951	1959	336298	336511	-0.06%
203	1952	1960	337244	337452	-0.06%
203.5	1953	1960	338190	338394	-0.06%
204	1953	1961	339136	339337	-0.06%
204.5	1954	1961	340083	340280	-0.06%
205	1954	1961	341029	341223	-0.06%
205.5	1955	1960	341975	342166	-0.06%
206	1956	1962	342922	343110	-0.05%
206.5	1956	1962	343869	344054	-0.05%
207	1957	1964	344817	344998	-0.05%
207.5	1958	1966	345765	345943	-0.05%
208	1958	1967	346715	346888	-0.05%
208.5	1959	1969	347665	347833	-0.05%
209	1959	1969	348615	348779	-0.05%
209.5	1960	1970	349566	349724	-0.05%
210	1961	1970	350517	350671	-0.04%
210.5	1961	1971	351468	351617	-0.04%
211	1962	1971	352420	352564	-0.04%
211.5	1963	1972	353372	353511	-0.04%
212	1963	1973	354324	354459	-0.04%
212.5	1964	1973	355276	355406	-0.04%
213	1964	1974	356229	356354	-0.04%
213.5	1965	1974	357182	357303	-0.03%
214	1966	1975	358135	358252	-0.03%
214.5	1966	1975	359089	359201	-0.03%
215	1967	1975	360042	360150	-0.03%
215.5	1968	1975	360996	361100	-0.03%
216	1968	1976	361949	362050	-0.03%
216.5	1969	1976	362903	363000	-0.03%
217	1970	1976	363858	363951	-0.03%
217.5	1970	1977	364812	364901	-0.02%
218	1971	1977	365766	365853	-0.02%
218.5	1971	1978	366721	366804	-0.02%
219	1972	1979	367676	367756	-0.02%
219.5	1973	1979	368631	368708	-0.02%
220	1973	1979	369587	369661	-0.02%
220.5	1974	1979	370543	370614	-0.02%
221	1975	1978	371498	371567	-0.02%
221.5	1975	1978	372453	372520	-0.02%
222	1976	1978	373408	373474	-0.02%
222.5	1976	1978	374363	374428	-0.02%
223	1977	1978	375318	375382	-0.02%
223.5	1978	1979	376274	376337	-0.02%
224	1978	1978	377229	377292	-0.02%
224.5	1979	1978	378184	378247	-0.02%



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Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
225	1980	1979	379139	379203	-0.02%
225.5	1980	1980	380095	380159	-0.02%
226	1981	1983	381052	381115	-0.02%
226.5	1981	1986	382010	382072	-0.02%
227	1982	1988	382970	383029	-0.02%
227.5	1983	1989	383930	383986	-0.01%
228	1983	1990	384890	384943	-0.01%
228.5	1984	1990	385851	385901	-0.01%
229	1985	1991	386812	386859	-0.01%
229.5	1985	1991	387774	387818	-0.01%
230	1986	1992	388736	388777	-0.01%
230.5	1986	1993	389698	389736	-0.01%
231	1987	1994	390661	390695	-0.01%
231.5	1988	1996	391624	391655	-0.01%
232	1988	1998	392589	392615	-0.01%
232.5	1989	1999	393554	393575	-0.01%
233	1990	1999	394519	394536	0.00%
233.5	1990	1998	395484	395497	0.00%
234	1991	1999	396449	396458	0.00%
234.5	1992	1998	397415	397420	0.00%
235	1992	1999	398380	398382	0.00%
235.5	1993	2001	399346	399344	0.00%
236	1993	2003	400313	400306	0.00%
236.5	1994	2005	401281	401269	0.00%
237	1995	2008	402250	402232	0.00%
237.5	1995	2009	403221	403196	0.01%
238	1996	2009	404191	404160	0.01%
238.5	1997	2011	405162	405124	0.01%
239	1997	2011	406134	406088	0.01%
239.5	1998	2012	407106	407053	0.01%
240	1998	2012	408078	408018	0.01%

Max Temp
Max Allw

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March 2, 2018

Time (min)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)	Furnace Probe #5 (°F)	Furnace Probe #6 (°F)	Furnace Probe #7 (°F)	Furnace Probe #8 (°F)	Furnace Probe #9 (°F)
0	62	62	62	62	62	62	62	63	63
0.5	63	63	66	64	64	63	65	65	64
1	73	72	94	80	77	69	91	91	74
1.5	104	105	152	137	121	90	154	168	103
2	159	172	225	213	213	129	244	283	157
2.5	229	258	324	336	333	195	351	420	235
3	309	358	433	489	471	289	475	554	340
3.5	407	466	535	639	584	402	598	679	468
4	513	579	623	770	676	513	712	779	607
4.5	619	675	711	865	786	615	810	870	736
5	712	764	788	940	868	706	891	935	858
5.5	784	838	847	1001	928	783	947	987	951
6	837	890	885	1039	973	842	979	1015	1006
6.5	872	926	912	1061	999	887	995	1028	1033
7	898	950	934	1076	1016	919	1007	1036	1052
7.5	919	970	953	1092	1027	948	1018	1042	1069
8	937	987	968	1103	1037	968	1026	1050	1076
8.5	950	1000	979	1111	1044	988	1031	1055	1076
9	962	1012	992	1120	1053	1005	1039	1063	1077
9.5	983	1036	1014	1144	1074	1026	1061	1084	1091
10	1012	1071	1044	1178	1106	1055	1092	1115	1114
10.5	1043	1107	1076	1215	1139	1088	1126	1150	1142
11	1075	1144	1110	1253	1176	1124	1161	1187	1174
11.5	1106	1181	1143	1290	1212	1161	1196	1222	1205
12	1135	1215	1175	1325	1247	1197	1228	1255	1233
12.5	1161	1247	1205	1358	1280	1231	1256	1287	1259
13	1186	1276	1234	1389	1309	1263	1282	1315	1283
13.5	1209	1304	1258	1414	1337	1294	1306	1341	1304
14	1231	1329	1280	1438	1362	1321	1328	1364	1325
14.5	1250	1353	1303	1461	1385	1353	1349	1385	1343
15	1268	1376	1324	1482	1407	1377	1369	1405	1362
15.5	1284	1397	1343	1503	1426	1397	1387	1425	1378
16	1300	1417	1362	1524	1445	1419	1405	1444	1395
16.5	1314	1437	1378	1542	1462	1443	1423	1462	1412
17	1327	1455	1393	1560	1479	1464	1439	1479	1425
17.5	1340	1474	1408	1577	1494	1480	1454	1497	1440
18	1351	1492	1423	1596	1511	1498	1471	1517	1459
18.5	1363	1510	1437	1610	1530	1520	1486	1540	1469
19	1379	1537	1455	1633	1558	1550	1504	1581	1489
19.5	1383	1538	1454	1629	1558	1573	1502	1584	1480
20	1376	1527	1443	1613	1543	1576	1489	1569	1462
20.5	1368	1521	1435	1602	1532	1569	1477	1555	1450
21	1362	1517	1430	1595	1525	1558	1470	1547	1442
21.5	1360	1514	1428	1593	1519	1550	1466	1541	1437
22	1359	1514	1430	1594	1517	1545	1466	1541	1438
22.5	1364	1522	1435	1600	1524	1548	1473	1548	1445
23	1369	1534	1441	1607	1529	1552	1481	1555	1453
23.5	1376	1543	1447	1613	1536	1556	1487	1561	1460
24	1382	1550	1452	1618	1541	1560	1493	1566	1464
24.5	1386	1554	1456	1620	1544	1564	1497	1569	1466

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25	1389	1555	1458	1620	1546	1567	1498	1570	1466
25.5	1392	1558	1460	1621	1548	1567	1499	1570	1466
26	1395	1559	1462	1623	1550	1569	1500	1572	1467
26.5	1398	1562	1466	1626	1553	1571	1504	1575	1469
27	1404	1566	1471	1631	1558	1575	1509	1580	1475
27.5	1409	1571	1477	1637	1564	1580	1515	1586	1480
28	1414	1576	1483	1643	1569	1585	1520	1591	1486
28.5	1419	1581	1488	1647	1572	1589	1524	1595	1491
29	1422	1585	1492	1651	1575	1592	1527	1598	1495
29.5	1426	1589	1496	1656	1578	1594	1531	1602	1499
30	1430	1592	1500	1659	1581	1597	1534	1604	1501
30.5	1433	1594	1503	1662	1584	1599	1537	1608	1503
31	1437	1598	1508	1666	1587	1602	1540	1611	1507
31.5	1440	1601	1511	1669	1591	1604	1544	1614	1511
32	1444	1603	1515	1673	1594	1607	1547	1618	1514
32.5	1449	1607	1519	1676	1597	1610	1550	1621	1518
33	1453	1610	1523	1680	1600	1613	1554	1625	1521
33.5	1456	1613	1527	1684	1604	1614	1557	1628	1525
34	1459	1614	1530	1687	1606	1617	1561	1632	1529
34.5	1464	1617	1535	1692	1610	1620	1565	1636	1534
35	1467	1620	1538	1695	1614	1624	1568	1640	1538
35.5	1471	1623	1542	1699	1617	1628	1572	1644	1541
36	1474	1626	1546	1702	1620	1630	1575	1647	1545
36.5	1477	1629	1549	1706	1623	1632	1579	1650	1547
37	1480	1632	1553	1708	1626	1638	1581	1654	1549
37.5	1483	1635	1556	1711	1629	1641	1585	1657	1552
38	1485	1638	1559	1714	1633	1644	1588	1660	1556
38.5	1488	1641	1563	1717	1635	1647	1591	1664	1558
39	1491	1644	1566	1719	1639	1650	1594	1667	1560
39.5	1494	1646	1569	1722	1642	1652	1596	1669	1561
40	1497	1649	1572	1725	1644	1655	1599	1672	1565
40.5	1500	1652	1575	1728	1647	1657	1602	1675	1569
41	1503	1655	1579	1732	1650	1661	1606	1679	1572
41.5	1506	1659	1583	1735	1653	1664	1609	1682	1577
42	1509	1662	1586	1739	1656	1666	1612	1684	1580
42.5	1511	1664	1589	1741	1658	1668	1615	1686	1584
43	1514	1666	1592	1743	1660	1670	1616	1689	1585
43.5	1516	1669	1593	1745	1663	1672	1618	1691	1586
44	1518	1671	1596	1747	1665	1675	1621	1693	1588
44.5	1520	1673	1598	1749	1667	1677	1622	1695	1590
45	1522	1675	1600	1751	1669	1679	1624	1697	1591
45.5	1524	1676	1603	1753	1670	1680	1626	1699	1592
46	1527	1678	1606	1755	1672	1682	1628	1701	1595
46.5	1529	1680	1608	1757	1674	1684	1630	1703	1597
47	1531	1682	1609	1758	1676	1686	1632	1705	1598
47.5	1532	1684	1611	1760	1678	1688	1633	1707	1600
48	1534	1687	1614	1763	1680	1690	1636	1709	1604
48.5	1537	1690	1617	1766	1683	1692	1639	1712	1607
49	1540	1693	1620	1769	1686	1695	1642	1715	1609
49.5	1543	1696	1624	1772	1689	1698	1645	1718	1612



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50	1546	1699	1627	1775	1693	1700	1647	1721	1615
50.5	1549	1702	1629	1777	1695	1704	1651	1724	1617
51	1552	1704	1632	1780	1698	1706	1653	1726	1620
51.5	1554	1706	1635	1782	1700	1709	1656	1728	1621
52	1556	1709	1637	1784	1702	1711	1657	1731	1624
52.5	1558	1711	1640	1787	1704	1714	1659	1732	1625
53	1561	1714	1644	1789	1706	1715	1661	1734	1627
53.5	1563	1715	1646	1791	1708	1716	1663	1736	1629
54	1565	1717	1649	1793	1710	1718	1665	1737	1631
54.5	1567	1720	1653	1796	1713	1721	1668	1740	1635
55	1570	1723	1656	1800	1716	1723	1671	1743	1638
55.5	1572	1725	1658	1802	1718	1726	1673	1745	1640
56	1574	1727	1660	1804	1720	1728	1675	1747	1642
56.5	1576	1728	1662	1805	1721	1729	1676	1749	1642
57	1577	1728	1662	1803	1721	1730	1677	1749	1641
57.5	1578	1729	1664	1804	1722	1731	1677	1750	1642
58	1580	1730	1666	1806	1723	1731	1678	1751	1644
58.5	1582	1732	1667	1807	1725	1732	1680	1752	1645
59	1583	1733	1669	1809	1726	1733	1681	1753	1646
59.5	1585	1735	1671	1811	1727	1735	1682	1755	1648
60	1586	1736	1672	1812	1729	1736	1684	1756	1649
60.5	1588	1739	1675	1814	1731	1737	1686	1758	1650
61	1591	1742	1677	1817	1734	1740	1689	1762	1653
61.5	1593	1745	1681	1821	1737	1744	1692	1765	1656
62	1596	1749	1684	1824	1741	1746	1696	1768	1658
62.5	1599	1752	1687	1827	1744	1749	1698	1771	1670
63	1602	1754	1690	1830	1746	1752	1701	1773	1667
63.5	1604	1756	1691	1831	1747	1753	1702	1775	1666
64	1605	1757	1693	1833	1749	1755	1704	1775	1670
64.5	1606	1758	1694	1833	1750	1756	1705	1777	1669
65	1607	1759	1695	1834	1750	1757	1705	1778	1669
65.5	1608	1761	1696	1835	1752	1758	1706	1779	1671
66	1609	1762	1697	1836	1752	1759	1707	1780	1673
66.5	1611	1763	1699	1837	1754	1759	1708	1781	1673
67	1612	1765	1700	1839	1755	1759	1710	1783	1677
67.5	1614	1766	1702	1840	1756	1760	1711	1784	1677
68	1615	1768	1704	1841	1758	1763	1713	1786	1676
68.5	1617	1770	1705	1843	1759	1765	1715	1788	1676
69	1618	1772	1707	1845	1762	1767	1717	1789	1680
69.5	1620	1773	1708	1846	1763	1768	1718	1790	1679
70	1621	1774	1710	1847	1763	1769	1718	1791	1679
70.5	1622	1774	1710	1847	1764	1769	1719	1792	1681
71	1623	1776	1712	1849	1766	1770	1721	1794	1684
71.5	1625	1778	1714	1851	1768	1772	1723	1795	1686
72	1627	1780	1715	1853	1770	1774	1725	1797	1688
72.5	1628	1783	1717	1855	1772	1776	1726	1800	1689
73	1630	1784	1719	1856	1773	1777	1727	1801	1690
73.5	1631	1786	1720	1857	1775	1778	1729	1802	1692
74	1632	1787	1721	1858	1775	1779	1730	1803	1693
74.5	1634	1788	1723	1860	1777	1781	1732	1805	1694

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75	1635	1790	1725	1861	1778	1783	1733	1807	1696
75.5	1637	1792	1727	1865	1781	1784	1736	1809	1699
76	1640	1796	1731	1868	1784	1786	1739	1812	1702
76.5	1643	1799	1733	1870	1787	1790	1742	1815	1705
77	1645	1800	1735	1872	1789	1792	1743	1816	1706
77.5	1646	1802	1737	1874	1790	1794	1744	1818	1707
78	1648	1804	1738	1875	1792	1795	1746	1820	1708
78.5	1650	1805	1740	1876	1794	1797	1747	1821	1709
79	1651	1807	1741	1878	1795	1797	1749	1823	1711
79.5	1652	1808	1742	1879	1796	1799	1750	1824	1713
80	1653	1809	1743	1880	1797	1799	1751	1825	1712
80.5	1654	1810	1745	1882	1799	1801	1753	1827	1714
81	1655	1812	1746	1882	1799	1801	1753	1827	1715
81.5	1656	1813	1748	1883	1800	1803	1754	1828	1716
82	1658	1814	1749	1885	1801	1804	1756	1829	1718
82.5	1659	1816	1751	1887	1803	1806	1757	1831	1721
83	1661	1818	1752	1888	1805	1807	1759	1832	1721
83.5	1662	1819	1754	1889	1805	1809	1760	1834	1723
84	1663	1820	1754	1890	1807	1809	1761	1834	1722
84.5	1664	1820	1756	1891	1807	1810	1761	1835	1724
85	1664	1821	1756	1891	1807	1811	1761	1835	1723
85.5	1665	1821	1757	1891	1808	1811	1762	1836	1723
86	1666	1822	1758	1892	1808	1810	1763	1837	1724
86.5	1667	1823	1758	1892	1809	1812	1764	1837	1724
87	1667	1823	1758	1893	1810	1812	1763	1838	1724
87.5	1667	1823	1759	1893	1809	1813	1764	1838	1724
88	1666	1819	1756	1889	1805	1810	1760	1832	1720
88.5	1664	1817	1755	1887	1803	1807	1759	1830	1719
89	1664	1818	1755	1887	1803	1806	1759	1830	1719
89.5	1664	1819	1756	1888	1804	1809	1760	1831	1719
90	1666	1820	1758	1890	1806	1809	1762	1833	1722
90.5	1669	1824	1760	1894	1810	1811	1766	1837	1725
91	1672	1827	1763	1896	1813	1814	1768	1840	1727
91.5	1673	1829	1765	1898	1815	1817	1770	1843	1729
92	1675	1831	1767	1900	1817	1819	1771	1844	1730
92.5	1676	1833	1769	1902	1819	1821	1773	1847	1732
93	1678	1835	1770	1903	1820	1822	1775	1848	1735
93.5	1679	1836	1772	1904	1821	1824	1776	1849	1737
94	1680	1838	1773	1905	1823	1825	1778	1851	1738
94.5	1682	1839	1774	1907	1824	1827	1779	1853	1740
95	1684	1841	1776	1909	1827	1828	1782	1854	1742
95.5	1686	1844	1778	1912	1829	1830	1784	1857	1743
96	1689	1848	1781	1915	1833	1832	1787	1861	1746
96.5	1692	1851	1785	1919	1836	1836	1791	1864	1751
97	1694	1854	1788	1922	1839	1837	1794	1867	1754
97.5	1697	1857	1790	1924	1841	1842	1795	1869	1755
98	1698	1858	1792	1925	1842	1843	1797	1870	1755
98.5	1700	1859	1793	1927	1844	1846	1798	1872	1758
99	1701	1861	1795	1929	1845	1847	1800	1873	1758
99.5	1702	1862	1796	1930	1846	1849	1801	1874	1759

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100	1704	1864	1797	1931	1848	1849	1802	1875	1760
100.5	1705	1865	1798	1932	1849	1850	1803	1877	1761
101	1706	1866	1800	1933	1850	1852	1804	1878	1762
101.5	1706	1867	1801	1934	1851	1852	1805	1879	1765
102	1708	1869	1802	1935	1852	1853	1807	1880	1766
102.5	1710	1871	1804	1937	1853	1855	1809	1882	1767
103	1711	1873	1805	1939	1855	1857	1810	1883	1769
103.5	1714	1875	1807	1941	1857	1858	1812	1885	1769
104	1714	1876	1809	1942	1858	1859	1813	1886	1770
104.5	1715	1876	1809	1942	1858	1860	1813	1886	1771
105	1715	1877	1810	1942	1859	1861	1813	1887	1771
105.5	1716	1877	1810	1943	1860	1862	1814	1888	1772
106	1717	1878	1811	1943	1860	1862	1815	1888	1772
106.5	1717	1879	1811	1944	1861	1862	1816	1890	1772
107	1718	1879	1812	1944	1862	1862	1816	1891	1772
107.5	1719	1880	1813	1944	1863	1865	1816	1891	1773
108	1719	1881	1814	1945	1863	1865	1817	1892	1773
108.5	1720	1883	1815	1947	1865	1866	1818	1893	1775
109	1721	1884	1816	1948	1866	1867	1819	1895	1777
109.5	1722	1885	1818	1950	1867	1868	1821	1896	1779
110	1724	1887	1818	1951	1868	1870	1822	1897	1779
110.5	1725	1887	1820	1951	1869	1871	1823	1897	1780
111	1725	1888	1820	1952	1869	1871	1823	1898	1779
111.5	1725	1888	1820	1952	1869	1872	1823	1898	1779
112	1726	1888	1821	1952	1869	1871	1823	1898	1780
112.5	1726	1889	1822	1952	1870	1873	1823	1898	1780
113	1726	1889	1821	1952	1870	1872	1823	1899	1781
113.5	1727	1889	1821	1953	1870	1873	1824	1900	1782
114	1727	1890	1822	1953	1871	1873	1824	1900	1781
114.5	1728	1890	1822	1953	1871	1873	1825	1900	1781
115	1728	1890	1822	1953	1872	1874	1825	1900	1781
115.5	1729	1891	1823	1954	1872	1874	1826	1901	1783
116	1730	1892	1824	1955	1873	1875	1827	1902	1783
116.5	1731	1893	1825	1956	1874	1875	1828	1903	1785
117	1731	1893	1826	1956	1874	1875	1828	1904	1785
117.5	1731	1894	1826	1956	1875	1875	1828	1904	1784
118	1731	1894	1826	1956	1875	1874	1828	1904	1784
118.5	1732	1894	1827	1956	1875	1877	1828	1904	1784
119	1732	1894	1826	1956	1876	1873	1828	1905	1784
119.5	1731	1894	1826	1956	1876	1876	1828	1905	1784
120	1732	1894	1827	1956	1876	1874	1829	1905	1785
120.5	1733	1896	1828	1958	1877	1876	1830	1906	1787
121	1734	1898	1830	1960	1879	1877	1832	1908	1788
121.5	1736	1899	1832	1961	1881	1879	1834	1909	1790
122	1737	1900	1833	1962	1881	1882	1834	1910	1791
122.5	1738	1902	1834	1964	1883	1882	1836	1912	1793
123	1739	1903	1834	1965	1884	1884	1837	1913	1794
123.5	1740	1905	1836	1966	1885	1883	1838	1915	1795
124	1741	1905	1837	1966	1886	1880	1839	1915	1795
124.5	1741	1905	1837	1966	1886	1881	1838	1914	1795

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125	1739	1902	1834	1967	1884	1881	1837	1908	1800
125.5	1739	1900	1834	1969	1883	1880	1837	1903	1804
126	1740	1900	1836	1971	1883	1881	1838	1902	1807
126.5	1740	1900	1837	1972	1884	1880	1839	1901	1809
127	1741	1901	1838	1974	1885	1880	1840	1902	1811
127.5	1743	1902	1840	1975	1886	1882	1842	1904	1813
128	1744	1903	1841	1976	1887	1882	1842	1904	1814
128.5	1745	1904	1842	1977	1888	1883	1843	1904	1815
129	1747	1905	1844	1979	1889	1883	1844	1905	1816
129.5	1748	1906	1844	1979	1890	1886	1845	1907	1818
130	1749	1906	1846	1980	1891	1888	1847	1908	1820
130.5	1750	1906	1846	1980	1892	1886	1847	1908	1820
131	1750	1907	1847	1980	1892	1889	1848	1909	1821
131.5	1750	1906	1847	1980	1892	1887	1848	1910	1821
132	1750	1906	1846	1980	1892	1888	1848	1909	1821
132.5	1750	1906	1846	1980	1892	1887	1848	1910	1821
133	1750	1906	1847	1979	1892	1886	1848	1909	1821
133.5	1750	1906	1847	1979	1892	1892	1848	1909	1821
134	1750	1905	1847	1979	1891	1890	1848	1909	1820
134.5	1750	1905	1847	1978	1892	1891	1847	1910	1821
135	1750	1906	1848	1979	1892	1885	1848	1910	1822
135.5	1751	1906	1849	1979	1893	1886	1849	1911	1823
136	1752	1907	1850	1980	1894	1886	1850	1912	1824
136.5	1753	1908	1850	1981	1895	1884	1851	1913	1825
137	1753	1908	1851	1981	1895	1884	1851	1913	1825
137.5	1753	1907	1851	1981	1894	1886	1851	1913	1824
138	1752	1907	1850	1980	1894	1885	1851	1913	1824
138.5	1752	1908	1851	1980	1894	1884	1851	1913	1824
139	1752	1907	1850	1980	1894	1885	1851	1913	1824
139.5	1752	1907	1849	1979	1894	1884	1851	1913	1824
140	1752	1907	1849	1979	1894	1882	1850	1913	1825
140.5	1751	1906	1848	1978	1894	1883	1850	1913	1824
141	1751	1906	1848	1978	1893	1883	1850	1913	1823
141.5	1750	1905	1848	1978	1893	1882	1849	1913	1824
142	1751	1905	1849	1978	1893	1883	1850	1913	1824
142.5	1751	1906	1850	1979	1894	1883	1850	1913	1824
143	1754	1908	1853	1981	1896	1884	1853	1916	1827
143.5	1755	1911	1854	1983	1899	1887	1855	1919	1830
144	1757	1914	1858	1986	1901	1889	1857	1921	1831
144.5	1760	1917	1860	1989	1904	1892	1860	1923	1834
145	1762	1919	1862	1991	1906	1894	1863	1926	1837
145.5	1764	1921	1864	1993	1908	1897	1865	1928	1838
146	1765	1922	1865	1994	1910	1898	1866	1929	1839
146.5	1767	1924	1867	1997	1912	1900	1868	1931	1841
147	1768	1926	1869	1998	1913	1902	1869	1933	1843
147.5	1769	1927	1869	1999	1915	1903	1871	1935	1844
148	1770	1929	1871	2001	1916	1905	1872	1936	1845
148.5	1772	1931	1873	2003	1918	1906	1874	1938	1847
149	1774	1934	1875	2005	1920	1908	1876	1940	1850
149.5	1775	1935	1878	2006	1921	1910	1878	1942	1851



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150	1777	1937	1879	2008	1923	1911	1879	1943	1852
150.5	1777	1936	1878	2007	1922	1911	1878	1942	1850
151	1776	1935	1878	2005	1920	1910	1877	1941	1848
151.5	1775	1934	1876	2004	1919	1909	1876	1940	1848
152	1774	1933	1876	2003	1919	1909	1875	1939	1846
152.5	1774	1933	1876	2004	1918	1908	1874	1939	1846
153	1774	1933	1875	2003	1918	1908	1874	1938	1845
153.5	1773	1931	1873	2001	1917	1908	1873	1938	1843
154	1773	1931	1874	2001	1917	1907	1873	1938	1844
154.5	1773	1932	1874	2001	1917	1907	1873	1937	1844
155	1774	1933	1876	2003	1917	1907	1874	1938	1846
155.5	1776	1935	1877	2005	1920	1909	1876	1940	1848
156	1777	1937	1878	2006	1922	1911	1878	1943	1849
156.5	1778	1938	1879	2007	1923	1912	1879	1944	1850
157	1779	1939	1880	2008	1924	1913	1880	1945	1851
157.5	1780	1939	1881	2009	1924	1914	1881	1945	1853
158	1781	1940	1883	2010	1925	1914	1882	1946	1854
158.5	1782	1941	1884	2011	1926	1915	1882	1946	1854
159	1781	1941	1883	2010	1926	1916	1882	1946	1853
159.5	1781	1941	1883	2009	1925	1915	1882	1947	1851
160	1780	1940	1882	2010	1925	1915	1881	1947	1852
160.5	1780	1941	1882	2009	1925	1915	1881	1947	1851
161	1781	1941	1883	2010	1926	1916	1882	1947	1853
161.5	1782	1942	1884	2011	1928	1919	1884	1948	1855
162	1779	1939	1882	2005	1924	1918	1879	1945	1850
162.5	1778	1938	1881	2003	1923	1916	1878	1943	1849
163	1777	1938	1881	2004	1923	1914	1878	1943	1849
163.5	1778	1940	1882	2006	1923	1915	1879	1944	1852
164	1781	1942	1885	2009	1926	1917	1883	1946	1855
164.5	1784	1945	1888	2012	1929	1919	1885	1949	1858
165	1786	1948	1890	2015	1933	1922	1888	1953	1860
165.5	1789	1951	1892	2018	1936	1926	1892	1956	1863
166	1792	1954	1896	2021	1938	1928	1894	1958	1867
166.5	1794	1957	1898	2024	1941	1931	1896	1961	1869
167	1796	1959	1901	2026	1943	1933	1899	1962	1871
167.5	1799	1961	1903	2028	1945	1936	1901	1965	1873
168	1801	1963	1906	2030	1948	1938	1904	1967	1876
168.5	1800	1963	1905	2028	1947	1937	1902	1967	1872
169	1795	1960	1901	2022	1944	1938	1898	1965	1865
169.5	1793	1958	1898	2020	1942	1936	1896	1964	1864
170	1792	1958	1895	2019	1941	1935	1895	1963	1861
170.5	1790	1957	1893	2017	1940	1935	1894	1962	1860
171	1789	1956	1893	2016	1939	1933	1893	1962	1859
171.5	1790	1956	1893	2016	1939	1933	1893	1962	1859
172	1791	1958	1896	2018	1940	1931	1895	1962	1862
172.5	1792	1961	1897	2020	1943	1934	1897	1965	1862
173	1794	1964	1898	2023	1945	1935	1900	1968	1863
173.5	1795	1966	1899	2024	1947	1936	1901	1969	1864
174	1796	1968	1901	2026	1948	1938	1903	1971	1865
174.5	1798	1971	1902	2028	1951	1940	1905	1973	1869



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Time (min)									
175	1800	1973	1904	2031	1953	1942	1907	1975	1871
175.5	1802	1974	1905	2031	1954	1943	1908	1976	1872
176	1804	1975	1908	2033	1955	1945	1910	1977	1874
176.5	1803	1975	1908	2032	1954	1950	1909	1977	1872
177	1804	1975	1908	2032	1954	1951	1909	1978	1872
177.5	1804	1976	1909	2032	1955	1954	1909	1978	1873
178	1803	1976	1908	2032	1954	1950	1908	1978	1870
178.5	1803	1976	1907	2031	1954	1953	1908	1978	1869
179	1803	1976	1908	2031	1954	1953	1909	1978	1871
179.5	1805	1977	1910	2033	1956	1953	1910	1979	1873
180	1806	1979	1910	2034	1956	1953	1911	1979	1873
180.5	1807	1981	1912	2035	1958	1955	1913	1981	1874
181	1809	1982	1914	2037	1960	1957	1915	1983	1876
181.5	1810	1984	1915	2039	1962	1957	1916	1984	1878
182	1811	1985	1916	2040	1962	1959	1917	1985	1880
182.5	1812	1986	1918	2041	1964	1962	1918	1987	1881
183	1813	1986	1919	2042	1964	1963	1919	1987	1881
183.5	1813	1987	1919	2042	1965	1963	1919	1988	1881
184	1814	1987	1920	2043	1965	1964	1920	1989	1882
184.5	1815	1988	1921	2044	1966	1964	1920	1989	1883
185	1816	1989	1921	2044	1966	1965	1921	1990	1883
185.5	1816	1990	1922	2044	1967	1966	1921	1990	1883
186	1816	1990	1923	2044	1967	1966	1922	1991	1885
186.5	1819	1990	1926	2047	1968	1966	1923	1992	1889
187	1820	1992	1927	2048	1970	1965	1925	1993	1890
187.5	1821	1994	1928	2049	1971	1960	1926	1995	1891
188	1822	1996	1928	2051	1973	1970	1928	1996	1891
188.5	1823	1997	1929	2052	1973	1971	1928	1997	1891
189	1823	1997	1930	2051	1973	1972	1928	1997	1891
189.5	1823	1998	1930	2051	1974	1972	1928	1998	1891
190	1824	1998	1931	2051	1974	1971	1929	1998	1892
190.5	1824	1998	1931	2052	1975	1972	1929	1998	1892
191	1824	1998	1931	2053	1976	1974	1930	1999	1891
191.5	1824	1999	1931	2053	1975	1969	1930	1999	1891
192	1825	1999	1931	2053	1975	1970	1930	2000	1892
192.5	1825	1999	1932	2053	1976	1970	1930	1999	1891
193	1825	2000	1933	2054	1977	1974	1931	2000	1893
193.5	1826	2001	1933	2055	1977	1972	1932	2001	1893
194	1827	2001	1935	2056	1977	1973	1933	2002	1895
194.5	1828	2002	1935	2056	1978	1973	1933	2002	1895
195	1828	2003	1935	2056	1978	1973	1933	2002	1894
195.5	1828	2003	1935	2056	1978	1977	1932	2002	1894
196	1827	2002	1934	2055	1978	1977	1932	2002	1893
196.5	1827	2003	1935	2056	1978	1978	1933	2002	1894
197	1827	2003	1934	2055	1978	1976	1933	2002	1893
197.5	1827	2002	1934	2055	1978	1977	1932	2002	1893
198	1828	2002	1935	2055	1978	1977	1932	2002	1895
198.5	1827	2002	1934	2055	1977	1977	1932	2001	1893
199	1827	2003	1935	2055	1978	1968	1933	2002	1894
199.5	1828	2003	1936	2056	1979	1968	1933	2003	1895



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Time (min)									
200	1829	2005	1937	2057	1979	1968	1934	2004	1896
200.5	1829	2005	1938	2058	1980	1970	1935	2004	1896
201	1830	2005	1938	2058	1980	1969	1935	2005	1896
201.5	1829	2005	1937	2057	1980	1976	1935	2004	1895
202	1830	2005	1937	2058	1981	1972	1935	2005	1896
202.5	1831	2006	1939	2059	1982	1979	1936	2006	1897
203	1831	2006	1939	2059	1982	1981	1936	2006	1898
203.5	1832	2007	1940	2059	1982	1980	1937	2007	1899
204	1832	2007	1940	2059	1982	1983	1937	2007	1899
204.5	1832	2007	1940	2060	1982	1983	1938	2007	1899
205	1833	2008	1940	2060	1983	1978	1937	2007	1899
205.5	1833	2008	1940	2060	1983	1976	1938	2007	1899
206	1834	2009	1941	2061	1984	1977	1939	2008	1901
206.5	1835	2010	1942	2062	1985	1977	1940	2009	1901
207	1836	2012	1944	2064	1987	1979	1941	2011	1904
207.5	1837	2013	1946	2065	1989	1987	1943	2013	1904
208	1838	2014	1947	2067	1990	1989	1944	2013	1905
208.5	1839	2016	1948	2068	1991	1990	1945	2015	1906
209	1840	2016	1949	2068	1992	1991	1946	2016	1907
209.5	1840	2017	1949	2069	1992	1992	1947	2017	1906
210	1840	2018	1950	2069	1992	1992	1947	2016	1907
210.5	1842	2018	1951	2070	1993	1992	1948	2017	1910
211	1842	2019	1951	2071	1993	1991	1947	2017	1908
211.5	1842	2020	1951	2070	1994	1993	1948	2018	1908
212	1843	2021	1952	2072	1995	1993	1950	2019	1910
212.5	1843	2022	1953	2072	1996	1994	1950	2019	1910
213	1844	2021	1954	2072	1996	1996	1950	2020	1911
213.5	1844	2022	1954	2073	1997	1996	1951	2021	1911
214	1845	2023	1954	2073	1997	1996	1952	2021	1911
214.5	1845	2023	1955	2073	1997	1996	1952	2022	1911
215	1845	2024	1955	2074	1998	1993	1952	2022	1912
215.5	1846	2024	1956	2074	1998	1993	1952	2023	1912
216	1846	2024	1956	2074	1999	1995	1953	2023	1912
216.5	1846	2025	1957	2075	1999	1996	1953	2023	1913
217	1847	2025	1957	2075	1999	1995	1953	2023	1913
217.5	1847	2026	1957	2076	1999	1996	1953	2024	1913
218	1847	2025	1957	2075	1999	1997	1953	2024	1914
218.5	1848	2025	1958	2076	2000	1998	1954	2024	1915
219	1848	2027	1959	2077	2001	1999	1955	2026	1915
219.5	1849	2028	1960	2077	2002	1999	1956	2026	1915
220	1849	2028	1960	2078	2002	1998	1956	2027	1916
220.5	1850	2028	1960	2077	2002	2000	1956	2026	1915
221	1849	2029	1960	2077	2002	1992	1955	2026	1915
221.5	1849	2027	1959	2077	2001	1993	1955	2026	1915
222	1849	2028	1959	2077	2001	1996	1955	2025	1915
222.5	1849	2028	1959	2077	2001	1994	1955	2026	1914
223	1849	2027	1959	2076	2001	1998	1955	2026	1914
223.5	1849	2027	1959	2076	2001	2001	1955	2026	1914
224	1849	2028	1958	2076	2000	2000	1953	2025	1913
224.5	1849	2028	1959	2077	2001	1994	1955	2025	1914



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Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)	Furnace Probe #5 (°F)	Furnace Probe #6 (°F)	Furnace Probe #7 (°F)	Furnace Probe #8 (°F)	Furnace Probe #9 (°F)
225	1849	2029	1960	2077	2002	1999	1956	2027	1915
225.5	1851	2030	1961	2079	2003	1994	1958	2028	1917
226	1853	2033	1964	2081	2006	2000	1961	2031	1921
226.5	1855	2035	1966	2084	2009	2006	1963	2033	1923
227	1857	2036	1969	2085	2010	2008	1964	2035	1924
227.5	1858	2037	1970	2087	2011	2010	1966	2036	1925
228	1858	2039	1970	2088	2012	2011	1966	2037	1925
228.5	1859	2040	1970	2089	2013	2012	1967	2037	1926
229	1859	2040	1971	2089	2014	2012	1967	2038	1926
229.5	1859	2041	1971	2089	2014	2013	1968	2038	1926
230	1860	2041	1972	2090	2014	2013	1968	2039	1928
230.5	1862	2043	1973	2091	2016	2013	1970	2040	1929
231	1862	2044	1975	2093	2017	2013	1971	2042	1930
231.5	1865	2047	1977	2095	2019	2016	1973	2043	1932
232	1866	2048	1978	2096	2020	2018	1974	2045	1933
232.5	1867	2048	1979	2097	2021	2020	1975	2046	1934
233	1867	2049	1980	2097	2021	2020	1975	2045	1933
233.5	1867	2049	1980	2097	2021	2018	1975	2046	1933
234	1867	2049	1980	2098	2022	2020	1975	2045	1934
234.5	1867	2049	1980	2097	2022	2017	1975	2046	1933
235	1868	2051	1981	2098	2023	2013	1976	2048	1933
235.5	1870	2053	1984	2101	2025	2011	1979	2049	1936
236	1871	2055	1985	2102	2027	2016	1981	2051	1938
236.5	1873	2057	1988	2104	2029	2021	1982	2053	1941
237	1875	2059	1989	2106	2031	2027	1985	2056	1942
237.5	1876	2061	1990	2108	2033	2029	1987	2057	1942
238	1877	2063	1991	2109	2034	2019	1988	2058	1944
238.5	1879	2064	1994	2110	2035	2019	1989	2060	1946
239	1879	2065	1995	2111	2036	2019	1990	2060	1947
239.5	1881	2065	1995	2111	2036	2024	1990	2060	1946
240	1880	2066	1995	2111	2036	2024	1990	2060	1946

Max Temp
Max Allw



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Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
0	66	66	65	66	66	66	66	66	66	65	66	66
0.5	66	66	65	66	66	66	66	66	66	65	66	66
1	66	66	65	66	66	66	66	66	66	65	66	66
1.5	66	66	65	66	66	66	66	66	66	65	66	66
2	66	66	65	66	66	66	66	66	66	65	66	66
2.5	66	66	66	66	66	66	66	66	66	66	66	66
3	66	66	66	66	66	66	66	66	66	66	66	66
3.5	66	66	66	66	66	66	66	66	66	66	66	66
4	66	66	66	66	66	66	66	66	66	66	66	66
4.5	66	66	66	66	66	66	66	66	66	66	66	66
5	66	66	66	66	66	66	66	66	66	66	66	66
5.5	66	66	66	66	66	66	66	66	66	66	66	66
6	66	66	66	66	66	66	66	66	66	66	66	66
6.5	66	66	66	66	66	66	66	66	66	66	66	66
7	66	66	66	66	66	66	66	66	66	66	66	66
7.5	66	66	66	66	66	66	66	66	66	66	66	66
8	66	66	66	66	66	66	66	66	66	66	66	66
8.5	66	66	66	66	66	66	66	66	66	66	66	66
9	66	66	66	66	66	66	66	66	66	66	66	66
9.5	66	66	66	66	66	66	66	66	66	66	66	66
10	66	66	66	67	67	66	66	66	66	66	66	67
10.5	66	66	66	67	67	66	67	66	66	66	66	67
11	66	66	66	67	67	66	66	66	66	66	66	67
11.5	66	66	66	67	67	66	66	66	66	66	66	67
12	66	66	66	67	67	66	67	66	67	66	66	67
12.5	66	66	66	67	67	67	67	66	67	66	67	67
13	66	66	66	67	67	66	67	66	67	66	66	67
13.5	66	66	66	67	67	67	67	66	67	66	67	67
14	66	66	66	67	67	67	67	66	67	66	67	67
14.5	67	66	66	67	67	67	67	67	67	66	67	67
15	67	66	66	67	67	67	67	67	67	66	67	67
15.5	67	66	66	67	67	67	67	67	67	66	67	67
16	67	66	66	67	67	67	67	67	67	66	67	67
16.5	67	66	66	67	67	67	67	67	67	66	67	67
17	67	66	66	67	67	67	67	67	67	66	67	67
17.5	67	67	67	67	67	67	67	67	67	67	67	67
18	67	67	67	67	67	67	67	67	67	67	67	67
18.5	67	67	67	67	67	67	67	67	67	67	67	67
19	67	67	67	67	67	67	67	67	67	67	67	67
19.5	67	67	67	67	67	67	67	67	67	67	67	67
20	67	67	67	67	67	67	67	67	67	67	67	67
20.5	67	67	67	67	67	67	67	67	67	67	67	67
21	67	67	67	67	67	67	67	67	67	67	67	67
21.5	67	67	67	67	67	67	67	67	67	67	67	67
22	67	67	67	67	67	67	67	67	67	67	67	67
22.5	67	67	67	67	67	67	67	67	67	67	67	67
23	67	67	67	67	67	67	67	67	67	67	67	67
23.5	67	67	67	67	67	67	67	67	67	67	67	67
24	67	67	67	67	67	67	67	67	67	67	67	67
24.5	67	67	67	67	67	67	67	67	67	67	67	67



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Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
25	67	67	67	67	67	67	67	67	67	67	67	67
25.5	67	67	67	67	67	67	67	67	67	67	67	67
26	67	67	67	68	67	67	67	67	67	67	67	68
26.5	67	67	67	68	67	67	67	67	67	67	67	68
27	67	67	67	68	67	67	67	67	67	67	67	68
27.5	67	67	67	68	67	67	67	67	67	67	67	68
28	67	67	67	68	67	67	67	67	68	67	67	68
28.5	67	67	67	68	68	67	67	67	68	67	67	68
29	67	67	67	68	67	67	67	67	68	67	67	68
29.5	67	67	67	68	67	67	67	67	68	67	67	68
30	68	67	67	68	68	68	68	67	68	67	68	68
30.5	68	67	67	68	68	68	68	67	68	67	68	68
31	68	68	67	68	68	68	68	67	68	67	68	68
31.5	67	67	67	68	68	68	67	67	68	67	67	68
32	68	68	67	68	68	68	68	68	68	67	68	68
32.5	68	68	67	68	68	68	68	68	68	67	68	68
33	68	68	67	68	68	68	68	68	68	67	68	68
33.5	68	68	67	68	68	68	68	68	68	67	68	68
34	68	68	68	68	68	68	68	68	68	68	68	68
34.5	68	68	68	68	68	68	68	68	68	68	68	68
35	68	68	68	68	68	68	68	68	68	68	68	68
35.5	68	68	68	68	68	68	68	68	68	68	68	68
36	68	68	68	68	68	68	68	68	68	68	68	68
36.5	68	68	68	68	68	68	68	68	68	68	68	68
37	68	68	68	68	68	68	68	68	68	68	68	68
37.5	68	68	68	68	68	68	68	68	68	68	68	68
38	68	68	68	68	68	68	68	68	68	68	68	68
38.5	68	68	68	68	68	68	68	68	68	68	68	68
39	68	68	68	69	68	68	68	68	68	68	68	69
39.5	68	68	68	68	68	68	68	68	68	68	68	68
40	68	68	68	69	68	68	68	68	68	68	68	69
40.5	68	68	68	69	68	68	68	68	68	68	68	69
41	68	68	68	69	68	68	68	68	69	68	68	69
41.5	68	68	68	69	68	68	68	68	69	68	68	69
42	68	68	68	69	68	68	68	68	69	68	68	69
42.5	68	68	68	69	68	69	68	68	69	68	68	69
43	68	68	68	69	68	69	68	68	69	68	68	69
43.5	68	68	68	69	68	68	68	68	68	68	68	69
44	68	68	68	69	68	69	68	68	69	68	68	69
44.5	68	68	68	69	68	69	68	68	69	68	68	69
45	68	68	68	69	68	69	68	68	69	68	68	69
45.5	69	69	68	69	69	69	69	68	69	68	69	69
46	69	69	68	69	69	69	69	68	69	68	69	69
46.5	69	69	68	69	69	69	69	69	69	68	69	69
47	69	69	68	69	69	69	69	69	69	68	69	69
47.5	69	69	68	69	69	69	69	69	69	68	69	69
48	69	69	68	69	69	69	69	69	69	68	69	69
48.5	69	69	68	69	69	69	69	69	69	68	69	69
49	69	69	69	69	69	69	69	69	69	69	69	69
49.5	69	69	69	69	69	69	69	69	69	69	69	69



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Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
50	69	69	69	69	69	69	69	69	69	69	69	69
50.5	69	69	69	69	69	69	69	69	69	69	69	69
51	69	69	69	69	69	69	69	69	69	69	69	69
51.5	69	69	69	70	69	69	69	69	69	69	69	70
52	69	69	69	70	69	69	69	69	69	69	69	70
52.5	69	69	69	70	69	69	69	69	69	69	69	70
53	69	69	69	70	69	69	69	69	69	69	69	70
53.5	69	69	69	70	69	69	69	69	69	69	69	70
54	69	70	69	70	70	70	69	69	70	69	70	70
54.5	69	70	69	70	70	70	69	69	70	69	70	70
55	69	70	69	70	69	70	69	69	70	69	69	70
55.5	69	70	69	70	70	70	69	69	70	69	70	70
56	69	70	69	70	70	70	69	69	70	69	70	70
56.5	70	70	69	70	70	70	69	70	70	69	70	70
57	69	70	69	70	70	70	69	69	70	69	70	70
57.5	70	70	69	70	70	70	69	70	70	69	70	70
58	70	70	69	70	70	70	69	70	70	69	70	70
58.5	70	70	69	70	70	70	69	70	70	69	70	70
59	70	70	69	70	70	70	69	70	70	69	70	70
59.5	70	70	69	70	70	70	69	70	70	69	70	70
60	70	70	69	70	70	70	70	70	70	69	70	70
60.5	70	70	69	70	70	70	70	70	70	69	70	70
61	70	70	70	70	70	70	70	70	70	70	70	70
61.5	70	70	70	70	70	70	70	70	70	70	70	70
62	70	70	69	70	70	70	70	70	70	69	70	70
62.5	70	70	70	71	70	70	70	70	70	70	70	71
63	70	70	70	70	70	70	70	70	70	70	70	70
63.5	70	70	70	70	70	70	70	70	70	70	70	70
64	70	70	70	70	70	70	70	70	70	70	70	70
64.5	70	70	70	70	70	70	70	70	70	70	70	70
65	70	70	70	70	70	70	70	70	70	70	70	70
65.5	70	70	70	71	70	70	70	70	70	70	70	71
66	70	70	70	70	70	70	70	70	70	70	70	70
66.5	70	70	70	70	70	70	70	70	70	70	70	70
67	70	70	70	71	70	71	70	70	70	70	70	71
67.5	70	70	70	71	70	71	70	70	70	70	70	71
68	70	70	70	71	70	70	70	70	70	70	70	71
68.5	70	70	70	71	70	70	70	70	70	70	70	71
69	70	70	70	71	70	70	70	70	70	70	70	71
69.5	70	70	70	71	70	71	70	70	70	70	70	71
70	70	70	70	71	70	71	70	70	70	70	70	71
70.5	70	71	70	71	70	71	70	70	71	70	70	71
71	70	71	70	71	70	71	70	70	71	70	70	71
71.5	70	71	70	71	71	71	70	70	71	70	71	71
72	70	71	70	71	70	71	70	70	71	70	70	71
72.5	71	71	70	71	71	71	70	70	71	70	71	71
73	71	71	70	71	71	71	70	70	71	70	71	71
73.5	71	71	70	71	71	71	70	70	71	70	71	71
74	71	71	70	71	71	71	70	70	71	70	71	71
74.5	71	71	70	71	71	71	70	70	71	70	71	71



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Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time (min)	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side
	TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	Min. (°F)	Avg. (°F)	Max. (°F)
75	71	71	70	71	71	71	71	71	71	70	71	71
75.5	71	71	70	71	71	71	71	71	71	70	71	71
76	71	71	70	71	71	71	71	71	71	70	71	71
76.5	71	71	70	71	71	71	71	71	71	70	71	71
77	71	71	70	71	71	71	71	71	71	70	71	71
77.5	71	71	70	71	71	71	71	71	71	70	71	71
78	71	71	71	71	71	71	71	71	71	71	71	71
78.5	71	71	71	71	71	71	71	71	71	71	71	71
79	71	71	71	72	71	71	71	71	71	71	71	72
79.5	71	71	71	72	71	71	71	71	71	71	71	72
80	71	71	71	72	71	71	71	71	71	71	71	72
80.5	71	71	71	72	71	71	71	71	71	71	71	72
81	71	71	71	72	71	72	71	71	71	71	71	72
81.5	71	72	71	72	71	72	71	71	71	71	71	72
82	71	72	71	72	71	72	71	71	71	71	71	72
82.5	71	72	71	72	71	72	71	71	71	71	71	72
83	71	72	71	72	71	72	71	71	72	71	71	72
83.5	71	72	71	72	71	72	71	71	72	71	71	72
84	71	72	71	72	71	72	71	71	72	71	71	72
84.5	71	72	71	72	71	72	71	71	72	71	71	72
85	71	72	71	72	72	72	71	71	72	71	72	72
85.5	71	72	71	72	72	72	71	71	72	71	72	72
86	72	72	71	72	72	72	71	71	72	71	72	72
86.5	72	72	71	72	72	72	71	71	72	71	72	72
87	72	72	71	72	72	72	71	71	72	71	72	72
87.5	72	72	71	72	72	72	71	71	72	71	72	72
88	72	72	71	72	72	72	71	71	72	71	72	72
88.5	72	72	71	72	72	72	71	71	72	71	72	72
89	72	72	71	72	72	72	71	71	72	71	72	72
89.5	72	72	71	72	72	72	71	71	72	71	72	72
90	72	72	71	72	72	72	71	71	72	71	72	72
90.5	72	72	71	72	72	72	71	71	72	71	72	72
91	72	72	71	72	72	72	71	71	72	71	72	72
91.5	72	72	71	72	72	72	71	71	72	71	72	72
92	72	72	71	72	72	72	71	71	72	71	72	72
92.5	72	72	71	72	72	72	71	72	72	71	72	72
93	72	72	71	72	72	72	71	71	72	71	72	72
93.5	72	72	72	72	72	72	72	72	72	72	72	72
94	72	72	72	72	72	72	71	72	72	71	72	72
94.5	72	72	72	72	72	72	72	72	72	72	72	72
95	72	72	72	72	72	72	71	72	72	71	72	72
95.5	72	72	72	72	72	72	71	72	72	71	72	72
96	72	72	72	72	72	72	72	72	72	72	72	72
96.5	72	72	72	72	72	72	72	72	72	72	72	72
97	72	72	72	72	72	72	72	72	72	72	72	72
97.5	72	72	72	73	72	72	72	72	72	72	72	73
98	72	72	72	73	72	72	72	72	72	72	72	73
98.5	72	72	72	72	72	72	72	72	72	72	72	72
99	72	72	72	72	72	72	72	72	72	72	72	72
99.5	72	73	72	73	72	73	72	72	72	72	72	73



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
100	72	73	72	73	72	73	72	72	72	72	72	73
100.5	72	73	72	73	72	73	72	72	72	72	72	73
101	72	73	72	73	72	73	72	72	72	72	72	73
101.5	72	73	72	73	72	73	72	72	72	72	72	73
102	72	73	72	73	72	73	72	72	72	72	72	73
102.5	72	72	72	73	72	72	72	72	72	72	72	73
103	72	73	72	73	72	73	72	72	72	72	72	73
103.5	72	73	72	73	72	73	72	72	72	72	72	73
104	72	73	72	73	72	73	72	72	72	72	72	73
104.5	72	73	72	73	72	73	72	72	72	72	72	73
105	72	73	72	73	72	73	72	72	72	72	72	73
105.5	72	73	72	73	72	73	72	72	72	72	72	73
106	72	73	72	73	72	73	72	72	72	72	72	73
106.5	72	73	72	73	72	73	72	72	72	72	72	73
107	72	73	72	73	72	73	72	72	72	72	72	73
107.5	72	73	72	73	73	73	72	72	72	72	72	73
108	72	73	72	73	73	73	72	72	72	72	72	73
108.5	72	73	72	73	73	73	72	72	72	72	72	73
109	72	73	72	73	73	73	72	72	72	72	72	73
109.5	73	73	73	73	73	73	72	72	72	72	73	73
110	73	73	73	73	73	73	72	72	72	72	73	73
110.5	73	73	73	73	73	73	72	72	72	72	73	73
111	73	73	73	73	73	73	72	72	72	72	73	73
111.5	73	73	73	73	73	73	72	72	73	72	73	73
112	73	73	73	73	73	73	72	72	73	72	73	73
112.5	73	73	73	73	73	73	72	72	72	72	73	73
113	73	73	73	73	73	73	72	72	72	72	73	73
113.5	73	73	73	73	73	73	72	72	73	72	73	73
114	73	73	73	73	73	73	72	72	73	72	73	73
114.5	73	74	73	73	73	73	72	73	73	72	73	74
115	73	74	73	74	73	73	73	73	73	73	73	74
115.5	73	74	73	74	73	73	73	73	73	73	73	74
116	73	74	73	74	73	73	73	73	73	73	73	74
116.5	73	74	73	74	73	73	73	73	73	73	73	74
117	73	74	73	74	73	73	72	73	73	72	73	74
117.5	73	74	73	74	73	73	73	73	73	73	73	74
118	73	74	73	74	73	73	73	73	73	73	73	74
118.5	73	74	73	74	73	73	73	73	73	73	73	74
119	73	74	73	74	74	74	73	73	73	73	73	74
119.5	73	74	73	74	73	74	73	73	73	73	73	74
120	73	74	73	74	73	74	73	73	73	73	73	74
120.5	73	74	73	74	74	74	73	73	73	73	73	74
121	73	74	73	74	74	74	73	73	73	73	73	74
121.5	73	75	73	74	74	74	73	73	73	73	74	75
122	73	75	73	74	74	74	73	73	73	73	74	75
122.5	73	75	73	74	74	74	73	73	73	73	74	75
123	73	75	73	74	74	74	73	73	73	73	74	75
123.5	73	75	73	74	74	74	73	73	73	73	74	75
124	74	75	73	74	74	74	73	73	73	73	74	75
124.5	74	75	74	74	74	74	73	73	73	73	74	75



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
125	74	75	74	74	74	74	73	73	73	73	74	75
125.5	74	75	74	74	74	74	73	73	73	73	74	75
126	74	75	74	74	74	74	73	73	73	73	74	75
126.5	74	75	74	75	74	74	73	73	73	73	74	75
127	74	75	73	74	74	74	73	73	73	73	74	75
127.5	74	75	74	75	74	74	73	73	73	73	74	75
128	74	75	74	75	74	74	73	73	73	73	74	75
128.5	74	76	74	74	74	74	73	73	73	73	74	76
129	74	76	74	75	74	74	73	73	73	73	74	76
129.5	74	76	74	75	74	74	73	73	73	73	74	76
130	74	76	74	75	74	74	73	73	73	73	74	76
130.5	74	76	74	75	74	74	73	73	73	73	74	76
131	74	76	74	75	74	74	73	73	73	73	74	76
131.5	74	76	74	75	74	74	73	73	73	73	74	76
132	74	76	74	75	74	74	73	73	73	73	74	76
132.5	74	76	74	75	74	74	73	73	73	73	74	76
133	74	76	74	75	74	74	73	73	73	73	74	76
133.5	74	76	74	75	75	74	73	73	73	73	74	76
134	74	77	74	75	75	74	73	73	73	73	74	77
134.5	74	77	74	75	75	74	73	74	73	73	74	77
135	75	77	74	75	75	74	73	74	73	73	74	77
135.5	75	77	74	75	75	74	73	74	73	73	74	77
136	75	77	74	75	75	74	73	73	73	73	74	77
136.5	75	77	74	75	75	74	73	74	74	73	75	77
137	75	77	74	75	75	74	73	74	74	73	75	77
137.5	75	77	74	75	75	74	73	74	74	73	75	77
138	75	78	74	75	75	75	74	74	74	74	75	78
138.5	75	78	74	75	75	75	74	74	74	74	75	78
139	75	78	74	75	75	75	74	74	74	74	75	78
139.5	75	78	74	75	75	75	74	74	74	74	75	78
140	75	78	74	75	75	75	74	74	74	74	75	78
140.5	75	78	75	76	75	75	74	74	74	74	75	78
141	75	78	75	76	75	75	74	74	74	74	75	78
141.5	75	78	75	76	75	75	74	74	74	74	75	78
142	75	78	75	76	75	75	74	74	74	74	75	78
142.5	76	79	75	76	75	75	74	74	74	74	75	79
143	76	79	75	76	75	75	74	74	74	74	75	79
143.5	76	79	75	76	75	75	74	74	74	74	75	79
144	76	79	75	76	76	75	74	74	74	74	75	79
144.5	76	79	75	76	75	75	74	74	74	74	75	79
145	76	79	75	76	76	75	74	74	74	74	75	79
145.5	76	80	75	76	76	75	74	74	74	74	76	80
146	76	80	75	76	76	75	74	74	74	74	76	80
146.5	76	80	75	76	76	75	74	74	74	74	76	80
147	76	80	75	76	76	75	74	74	74	74	76	80
147.5	76	80	75	76	76	75	74	74	74	74	76	80
148	76	80	75	76	76	75	74	74	74	74	76	80
148.5	76	80	75	76	76	75	74	74	74	74	76	80
149	77	81	75	76	76	76	75	75	74	74	76	81
149.5	77	81	75	76	76	76	75	75	74	74	76	81



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side
Time	TC #1	TC #2	TC #3	TC #4	TC #5	TC #6	TC #7	TC #8	TC #9	Min.	Avg.	Max.	
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
150	77	81	76	76	76	76	75	75	74	74	76	81	
150.5	77	81	76	76	76	76	75	75	74	74	76	81	
151	77	81	76	76	76	76	75	75	75	75	76	81	
151.5	77	81	76	76	76	76	75	75	75	75	76	81	
152	77	81	76	77	76	76	75	75	75	75	76	81	
152.5	78	81	76	77	76	76	75	75	75	75	77	81	
153	78	82	76	77	76	76	75	75	75	75	77	82	
153.5	78	82	76	77	76	76	75	75	75	75	77	82	
154	78	82	76	77	76	76	75	75	75	75	77	82	
154.5	78	82	76	77	77	76	75	75	75	75	77	82	
155	78	82	76	77	77	76	75	75	75	75	77	82	
155.5	78	83	76	77	77	76	75	75	75	75	77	83	
156	78	83	76	77	77	76	75	75	75	75	77	83	
156.5	79	83	76	77	77	76	75	75	75	75	77	83	
157	79	83	76	77	77	76	75	75	75	75	77	83	
157.5	79	83	76	77	77	76	75	75	75	75	77	83	
158	79	84	76	78	77	76	75	75	75	75	77	84	
158.5	79	84	77	78	77	76	75	75	75	75	77	84	
159	79	84	77	78	77	76	75	75	75	75	77	84	
159.5	80	84	77	78	77	76	75	75	75	75	78	84	
160	80	84	77	78	77	76	75	75	75	75	78	84	
160.5	80	85	77	78	77	76	75	75	75	75	78	85	
161	80	85	77	78	77	76	75	75	75	75	78	85	
161.5	80	85	77	78	78	77	76	75	75	75	78	85	
162	80	85	77	78	78	77	76	75	75	75	78	85	
162.5	80	85	77	78	78	77	76	75	75	75	78	85	
163	81	86	77	78	78	77	76	75	75	75	78	86	
163.5	81	86	77	78	78	77	76	75	75	75	78	86	
164	81	86	77	78	78	77	76	75	75	75	78	86	
164.5	81	86	77	78	78	77	76	75	75	75	78	86	
165	81	86	77	78	78	77	76	75	75	75	78	86	
165.5	81	87	77	78	78	77	76	75	75	75	78	87	
166	82	87	77	78	78	77	76	75	75	75	79	87	
166.5	82	87	77	78	78	77	76	75	75	75	79	87	
167	82	87	77	78	78	77	76	75	75	75	79	87	
167.5	82	87	77	78	78	77	76	75	75	75	79	87	
168	82	87	77	78	78	77	76	75	75	75	79	87	
168.5	83	88	78	79	78	77	76	75	75	75	79	88	
169	83	88	78	79	78	77	76	75	75	75	79	88	
169.5	83	88	78	79	79	78	77	76	75	75	79	88	
170	83	89	78	79	79	78	77	76	75	75	79	89	
170.5	84	89	78	79	79	78	77	76	75	75	80	89	
171	84	89	78	79	79	78	77	76	75	75	80	89	
171.5	84	89	78	79	79	78	77	76	75	75	80	89	
172	84	89	78	79	79	78	77	76	75	75	80	89	
172.5	84	89	78	79	79	78	77	76	75	75	80	89	
173	84	90	78	79	79	78	77	76	75	75	80	90	
173.5	85	90	78	79	79	78	77	76	75	75	80	90	
174	85	90	78	79	79	78	77	76	75	75	80	90	
174.5	85	90	78	79	79	78	77	76	75	75	80	90	



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side
Time (min)	TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	Min. (°F)	Avg. (°F)	Max. (°F)
175	85	90	78	79	79	78	77	77	77	77	80	90
175.5	86	91	79	80	79	78	78	77	77	77	81	91
176	86	91	79	80	79	78	77	77	77	77	80	91
176.5	86	91	79	80	79	78	78	77	77	77	81	91
177	86	91	79	80	79	78	78	77	77	77	81	91
177.5	86	92	79	80	80	78	78	77	77	77	81	92
178	87	92	79	80	80	78	78	77	77	77	81	92
178.5	87	92	79	80	80	78	78	77	77	77	81	92
179	87	92	79	80	80	79	78	78	77	77	81	92
179.5	87	92	79	80	80	79	78	77	77	77	81	92
180	88	93	79	80	80	79	78	78	77	77	81	93
180.5	88	93	79	81	80	79	78	78	78	78	82	93
181	88	93	80	81	80	79	78	78	78	78	82	93
181.5	89	93	80	81	80	79	78	78	78	78	82	93
182	89	93	80	81	80	79	78	78	78	78	82	93
182.5	89	94	80	81	80	79	79	78	78	78	82	94
183	89	94	80	81	80	79	79	78	78	78	82	94
183.5	90	94	80	81	81	79	79	78	78	78	82	94
184	90	95	80	81	81	79	79	78	78	78	82	95
184.5	90	95	80	81	81	79	79	78	78	78	82	95
185	91	95	80	81	81	79	79	78	78	78	82	95
185.5	91	95	80	81	81	79	79	78	78	78	82	95
186	91	96	80	81	81	79	79	78	78	78	83	96
186.5	92	96	80	81	81	79	79	78	78	78	83	96
187	92	96	80	81	81	80	79	78	78	78	83	96
187.5	92	97	81	82	81	80	79	78	78	78	83	97
188	93	97	81	82	81	80	79	79	78	78	83	97
188.5	93	97	81	82	81	80	79	79	78	78	83	97
189	93	98	81	82	81	80	80	79	78	78	84	98
189.5	93	98	81	82	81	80	80	79	78	78	84	98
190	94	98	81	82	81	80	80	79	78	78	84	98
190.5	94	99	81	82	81	80	80	79	78	78	84	99
191	94	99	81	82	81	80	80	79	78	78	84	99
191.5	95	100	81	82	81	80	80	79	78	78	84	100
192	95	100	81	83	82	80	80	79	79	79	84	100
192.5	96	101	81	83	82	80	80	79	79	79	85	101
193	96	101	81	83	82	80	80	79	79	79	85	101
193.5	96	101	81	83	82	80	80	79	79	79	85	101
194	97	102	81	83	82	80	80	79	79	79	85	102
194.5	97	102	82	83	82	81	80	79	79	79	85	102
195	98	103	82	83	82	81	80	79	79	79	85	103
195.5	98	103	82	83	82	81	81	79	79	79	85	103
196	98	104	82	83	82	81	81	80	79	79	86	104
196.5	99	104	82	83	82	81	81	80	79	79	86	104
197	100	105	82	84	82	81	81	80	79	79	86	105
197.5	100	105	82	84	83	81	81	80	79	79	86	105
198	100	106	82	84	83	81	81	80	80	80	86	106
198.5	101	107	83	84	83	81	81	80	80	80	87	107
199	102	107	83	84	83	81	81	80	80	80	87	107
199.5	102	108	83	84	83	81	81	80	80	80	87	108



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
200	102	108	83	84	83	81	81	80	80	80	87	108
200.5	103	109	83	84	83	81	81	80	80	80	87	109
201	103	109	83	84	83	81	82	80	80	80	87	109
201.5	104	110	84	85	83	82	82	81	80	80	88	110
202	105	111	84	85	84	82	82	81	80	80	88	111
202.5	105	111	84	85	84	82	82	81	80	80	88	111
203	106	112	84	85	84	82	82	81	80	80	88	112
203.5	106	113	84	85	84	82	82	81	80	80	89	113
204	107	113	84	85	84	82	82	81	80	80	89	113
204.5	107	114	85	85	84	82	82	81	80	80	89	114
205	108	114	85	86	84	82	83	81	81	81	89	114
205.5	109	115	85	86	84	82	83	81	81	81	90	115
206	109	115	85	86	84	82	83	81	81	81	90	115
206.5	110	116	85	86	84	83	83	81	81	81	90	116
207	110	117	86	86	84	83	83	82	81	81	90	117
207.5	111	118	86	86	85	83	83	82	81	81	91	118
208	111	118	86	86	85	83	83	82	81	81	91	118
208.5	112	119	86	86	85	83	84	82	81	81	91	119
209	113	120	86	87	85	83	84	82	81	81	91	120
209.5	113	120	87	87	85	83	84	82	81	81	91	120
210	114	121	87	87	85	83	84	82	81	81	92	121
210.5	115	122	87	87	85	83	84	82	81	81	92	122
211	115	122	88	87	85	84	84	82	82	82	92	122
211.5	116	123	88	87	85	84	84	82	82	82	92	123
212	116	123	88	87	85	84	84	82	82	82	92	123
212.5	116	124	88	87	86	84	84	83	82	82	93	124
213	117	124	89	87	86	84	85	83	82	82	93	124
213.5	118	125	89	88	86	84	85	83	82	82	93	125
214	118	125	89	88	86	84	85	83	82	82	93	125
214.5	119	126	90	88	86	84	85	83	82	82	94	126
215	120	127	90	88	86	84	85	83	82	82	94	127
215.5	120	127	91	88	86	84	85	83	82	82	94	127
216	121	128	91	88	86	84	86	83	82	82	94	128
216.5	121	128	92	88	86	84	86	84	83	83	95	128
217	122	129	92	89	87	85	86	84	83	83	95	129
217.5	122	129	92	89	87	85	86	84	83	83	95	129
218	123	130	93	89	87	85	86	84	83	83	96	130
218.5	123	130	93	89	87	85	86	84	83	83	96	130
219	124	131	94	89	87	85	87	84	83	83	96	131
219.5	124	131	94	89	87	85	87	84	83	83	96	131
220	125	132	95	89	87	85	87	84	83	83	96	132
220.5	126	132	95	90	87	85	87	84	83	83	97	132
221	126	133	96	90	87	86	87	85	84	84	97	133
221.5	127	134	97	90	87	86	87	85	84	84	97	134
222	128	134	97	90	88	86	88	85	84	84	98	134
222.5	128	134	98	90	88	86	88	85	84	84	98	134
223	128	135	99	90	88	86	88	85	84	84	98	135
223.5	129	135	99	90	88	86	88	85	84	84	98	135
224	129	136	100	91	88	86	88	86	84	84	99	136
224.5	130	136	100	91	88	86	88	86	84	84	99	136



Total Quality. Assured.

16015 Shady Falls Road
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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-001

March 2, 2018

Time	Cold Side TC #1	Cold Side TC #2	Cold Side TC #3	Cold Side TC #4	Cold Side TC #5	Cold Side TC #6	Cold Side TC #7	Cold Side TC #8	Cold Side TC #9	Cold Side Min.	Cold Side Avg.	Cold Side Max.
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
225	130	137	101	91	88	86	88	86	84	84	99	137
225.5	131	137	102	91	89	87	89	86	84	84	100	137
226	131	138	103	91	89	87	89	86	85	85	100	138
226.5	132	138	103	91	89	87	89	86	85	85	100	138
227	132	139	104	91	89	87	89	86	85	85	100	139
227.5	133	139	105	92	89	87	89	86	85	85	101	139
228	133	140	105	92	89	87	90	87	85	85	101	140
228.5	134	140	106	92	89	87	90	87	85	85	101	140
229	134	141	107	92	89	87	90	87	85	85	101	141
229.5	134	142	108	92	89	87	90	87	86	86	102	142
230	135	142	109	92	90	88	91	87	86	86	102	142
230.5	135	142	110	92	90	88	91	88	86	86	102	142
231	135	143	110	92	90	88	91	88	86	86	103	143
231.5	136	143	111	92	90	88	91	88	86	86	103	143
232	137	144	112	92	90	88	91	88	86	86	103	144
232.5	137	145	113	93	90	88	91	88	86	86	103	145
233	137	145	114	93	90	88	92	88	86	86	104	145
233.5	138	146	115	93	91	88	92	89	86	86	104	146
234	138	146	116	93	90	88	92	89	86	86	104	146
234.5	139	146	116	93	91	88	92	89	86	86	104	146
235	139	147	117	93	91	89	92	89	86	86	105	147
235.5	139	147	118	93	91	89	93	89	86	86	105	147
236	140	148	119	93	91	89	93	89	87	87	105	148
236.5	140	148	120	93	91	89	93	90	87	87	106	148
237	141	149	121	94	91	89	93	90	87	87	106	149
237.5	142	149	122	94	92	89	94	90	87	87	107	149
238	142	150	123	94	92	89	94	91	87	87	107	150
238.5	143	150	124	94	92	90	94	91	88	88	107	150
239	143	151	125	94	93	90	94	91	88	88	108	151
239.5	144	151	126	94	93	90	95	92	88	88	108	151
240	144	152	127	94	93	90	95	92	88	88	108	152
Max Temp	144	152	127	94	93	90	95	92	88	88	108	152
Max Allw	316	316	315	316	316	316	316	316	316	315	316	316



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

NUMERICAL DATA (Gypsum Board Exposed)

TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
0	68	73	0	0	0.00%
0.5	161	74	3	23	-88.56%
1	254	88	9	93	-90.31%
1.5	348	134	30	210	-85.47%
2	441	218	84	373	-77.35%
2.5	534	343	191	583	-67.25%
3	627	487	364	839	-56.55%
3.5	720	643	613	1142	-46.30%
4	814	789	937	1491	-37.16%
4.5	907	902	1326	1887	-29.75%
5	1000	979	1762	2330	-24.37%
5.5	1030	1034	2231	2804	-20.41%
6	1060	1079	2725	3292	-17.21%
6.5	1090	1116	3240	3796	-14.63%
7	1120	1143	3771	4314	-12.59%
7.5	1150	1164	4314	4848	-11.01%
8	1180	1181	4866	5396	-9.83%
8.5	1210	1198	5427	5960	-8.94%
9	1240	1217	5996	6538	-8.29%
9.5	1270	1239	6576	7132	-7.79%
10	1300	1263	7168	7740	-7.40%
10.5	1317	1289	7772	8360	-7.04%
11	1328	1316	8389	8988	-6.66%
11.5	1337	1341	9019	9620	-6.24%
12	1347	1362	9661	10257	-5.81%
12.5	1356	1381	10313	10898	-5.37%
13	1364	1397	10973	11545	-4.95%
13.5	1373	1407	11641	12195	-4.55%
14	1381	1413	12312	12849	-4.18%
14.5	1388	1418	12985	13507	-3.87%
15	1396	1424	13662	14170	-3.58%
15.5	1403	1430	14342	14835	-3.33%
16	1410	1436	15024	15505	-3.10%
16.5	1417	1443	15710	16177	-2.89%
17	1424	1450	16399	16854	-2.69%
17.5	1430	1459	17093	17533	-2.51%
18	1436	1466	17790	18215	-2.34%
18.5	1442	1472	18490	18901	-2.17%
19	1448	1475	19193	19590	-2.02%
19.5	1454	1476	19897	20281	-1.89%
20	1459	1478	20601	20975	-1.78%
20.5	1465	1481	21307	21672	-1.68%
21	1470	1485	22015	22372	-1.60%
21.5	1475	1490	22725	23074	-1.52%
22	1480	1495	23437	23779	-1.44%
22.5	1485	1497	24151	24487	-1.37%
23	1490	1496	24865	25196	-1.31%
23.5	1495	1497	25580	25909	-1.27%
24	1499	1498	26294	26623	-1.24%
24.5	1504	1504	27011	27340	-1.20%

TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
25	1508	1512	27731	28059	-1.17%
25.5	1513	1521	28455	28781	-1.13%
26	1517	1529	29184	29504	-1.09%
26.5	1521	1537	29916	30230	-1.04%
27	1525	1543	30653	30957	-0.98%
27.5	1529	1548	31391	31687	-0.93%
28	1533	1552	32132	32419	-0.88%
28.5	1537	1556	32875	33153	-0.84%
29	1541	1561	33621	33888	-0.79%
29.5	1545	1565	34368	34626	-0.74%
30	1549	1565	35117	35365	-0.70%
30.5	1552	1568	35866	36106	-0.67%
31	1556	1572	36617	36850	-0.63%
31.5	1559	1577	37370	37594	-0.60%
32	1563	1581	38126	38341	-0.56%
32.5	1566	1585	38883	39089	-0.53%
33	1570	1588	39642	39839	-0.49%
33.5	1573	1588	40403	40591	-0.46%
34	1576	1584	41162	41344	-0.44%
34.5	1579	1588	41921	42099	-0.42%
35	1583	1594	42682	42856	-0.41%
35.5	1586	1598	43446	43614	-0.38%
36	1589	1602	44212	44373	-0.36%
36.5	1592	1605	44980	45135	-0.34%
37	1595	1608	45749	45897	-0.32%
37.5	1598	1611	46519	46661	-0.30%
38	1601	1614	47292	47427	-0.29%
38.5	1604	1616	48065	48194	-0.27%
39	1606	1618	48840	48963	-0.25%
39.5	1609	1621	49615	49733	-0.24%
40	1612	1623	50392	50504	-0.22%
40.5	1615	1625	51170	51277	-0.21%
41	1617	1627	51949	52051	-0.19%
41.5	1620	1628	52729	52826	-0.18%
42	1623	1631	53510	53603	-0.17%
42.5	1625	1633	54292	54381	-0.16%
43	1628	1634	55074	55160	-0.16%
43.5	1631	1636	55858	55941	-0.15%
44	1633	1638	56643	56723	-0.14%
44.5	1636	1642	57429	57506	-0.13%
45	1638	1644	58216	58290	-0.13%
45.5	1640	1647	59005	59076	-0.12%
46	1643	1648	59794	59863	-0.11%
46.5	1645	1650	60585	60651	-0.11%
47	1648	1652	61376	61440	-0.10%
47.5	1650	1654	62169	62230	-0.10%
48	1652	1655	62962	63022	-0.09%
48.5	1655	1657	63757	63815	-0.09%
49	1657	1660	64552	64608	-0.09%
49.5	1659	1662	65348	65403	-0.08%

TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
50	1661	1664	66146	66199	-0.08%
50.5	1663	1667	66945	66997	-0.08%
51	1666	1670	67745	67795	-0.07%
51.5	1668	1673	68547	68594	-0.07%
52	1670	1676	69350	69394	-0.06%
52.5	1672	1678	70155	70196	-0.06%
53	1674	1680	70961	70998	-0.05%
53.5	1676	1682	71767	71802	-0.05%
54	1678	1684	72574	72607	-0.04%
54.5	1680	1684	73382	73412	-0.04%
55	1682	1685	74191	74219	-0.04%
55.5	1684	1686	75000	75026	-0.04%
56	1686	1688	75809	75835	-0.03%
56.5	1688	1689	76619	76645	-0.03%
57	1690	1692	77431	77455	-0.03%
57.5	1692	1695	78243	78267	-0.03%
58	1694	1698	79058	79079	-0.03%
58.5	1696	1701	79873	79893	-0.02%
59	1698	1704	80690	80707	-0.02%
59.5	1700	1706	81509	81522	-0.02%
60	1701	1707	82328	82338	-0.01%
60.5	1703	1708	83148	83156	-0.01%
61	1705	1710	83968	83974	-0.01%
61.5	1707	1710	84789	84793	0.00%
62	1709	1712	85611	85612	0.00%
62.5	1710	1713	86433	86433	0.00%
63	1712	1715	87256	87255	0.00%
63.5	1714	1717	88079	88077	0.00%
64	1716	1720	88904	88901	0.00%
64.5	1717	1722	89731	89725	0.01%
65	1719	1725	90559	90550	0.01%
65.5	1721	1727	91388	91376	0.01%
66	1722	1729	92218	92203	0.02%
66.5	1724	1730	93048	93030	0.02%
67	1726	1731	93879	93859	0.02%
67.5	1727	1732	94711	94688	0.02%
68	1729	1733	95543	95518	0.03%
68.5	1731	1734	96376	96349	0.03%
69	1732	1735	97209	97181	0.03%
69.5	1734	1738	98044	98013	0.03%
70	1735	1741	98880	98847	0.03%
70.5	1737	1745	99717	99681	0.04%
71	1738	1748	100556	100515	0.04%
71.5	1740	1750	101397	101351	0.04%
72	1742	1753	102238	102187	0.05%
72.5	1743	1754	103081	103025	0.06%
73	1745	1755	103925	103863	0.06%
73.5	1746	1756	104768	104701	0.06%
74	1748	1756	105612	105541	0.07%
74.5	1749	1756	106456	106381	0.07%

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Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
75	1751	1757	107301	107222	0.07%
75.5	1752	1758	108145	108063	0.08%
76	1753	1758	108990	108906	0.08%
76.5	1755	1759	109836	109749	0.08%
77	1756	1760	110682	110593	0.08%
77.5	1758	1760	111528	111437	0.08%
78	1759	1762	112374	112282	0.08%
78.5	1761	1763	113221	113128	0.08%
79	1762	1764	114069	113975	0.08%
79.5	1763	1765	114917	114822	0.08%
80	1765	1765	115765	115670	0.08%
80.5	1766	1766	116614	116519	0.08%
81	1768	1766	117463	117369	0.08%
81.5	1769	1766	118312	118219	0.08%
82	1770	1767	119162	119069	0.08%
82.5	1772	1767	120011	119921	0.08%
83	1773	1768	120861	120773	0.07%
83.5	1774	1768	121711	121626	0.07%
84	1776	1769	122561	122479	0.07%
84.5	1777	1771	123412	123333	0.06%
85	1778	1774	124264	124188	0.06%
85.5	1779	1777	125118	125043	0.06%
86	1781	1778	125973	125899	0.06%
86.5	1782	1780	126828	126756	0.06%
87	1783	1781	127685	127613	0.06%
87.5	1785	1783	128542	128471	0.05%
88	1786	1784	129399	129330	0.05%
88.5	1787	1785	130258	130189	0.05%
89	1788	1786	131117	131049	0.05%
89.5	1789	1787	131976	131909	0.05%
90	1791	1788	132836	132770	0.05%
90.5	1792	1789	133696	133632	0.05%
91	1793	1791	134557	134494	0.05%
91.5	1794	1792	135419	135357	0.05%
92	1796	1795	136282	136221	0.04%
92.5	1797	1797	137146	137085	0.04%
93	1798	1798	138010	137950	0.04%
93.5	1799	1799	138876	138815	0.04%
94	1800	1801	139742	139681	0.04%
94.5	1801	1801	140608	140547	0.04%
95	1803	1801	141475	141414	0.04%
95.5	1804	1802	142341	142282	0.04%
96	1805	1803	143208	143150	0.04%
96.5	1806	1803	144076	144019	0.04%
97	1807	1804	144944	144888	0.04%
97.5	1808	1805	145812	145758	0.04%
98	1809	1807	146681	146628	0.04%
98.5	1811	1808	147551	147499	0.03%
99	1812	1809	148421	148371	0.03%
99.5	1813	1809	149291	149243	0.03%



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March 5, 2018

Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
100	1814	1810	150162	150116	0.03%
100.5	1815	1809	151033	150989	0.03%
101	1816	1809	151903	151863	0.03%
101.5	1817	1809	152774	152737	0.02%
102	1818	1810	153645	153612	0.02%
102.5	1819	1813	154517	154487	0.02%
103	1820	1814	155389	155363	0.02%
103.5	1822	1816	156263	156240	0.01%
104	1823	1817	157137	157117	0.01%
104.5	1824	1820	158013	157995	0.01%
105	1825	1822	158889	158873	0.01%
105.5	1826	1823	159766	159751	0.01%
106	1827	1824	160644	160630	0.01%
106.5	1828	1825	161522	161510	0.01%
107	1829	1825	162401	162390	0.01%
107.5	1830	1826	163280	163271	0.01%
108	1831	1826	164159	164152	0.00%
108.5	1832	1827	165038	165034	0.00%
109	1833	1828	165917	165916	0.00%
109.5	1834	1828	166797	166799	0.00%
110	1835	1830	167678	167682	0.00%
110.5	1836	1833	168559	168566	0.00%
111	1836	1835	169442	169450	0.00%
111.5	1837	1838	170327	170334	0.00%
112	1838	1840	171212	171218	0.00%
112.5	1838	1841	172098	172103	0.00%
113	1839	1841	172985	172989	0.00%
113.5	1839	1842	173872	173874	0.00%
114	1840	1843	174759	174760	0.00%
114.5	1841	1843	175646	175646	0.00%
115	1841	1844	176534	176533	0.00%
115.5	1842	1844	177422	177420	0.00%
116	1843	1845	178310	178307	0.00%
116.5	1843	1845	179199	179194	0.00%
117	1844	1846	180088	180082	0.00%
117.5	1844	1847	180977	180970	0.00%
118	1845	1848	181866	181858	0.00%
118.5	1846	1849	182756	182747	0.01%
119	1846	1849	183647	183636	0.01%
119.5	1847	1849	184537	184525	0.01%
120	1848	1849	185428	185415	0.01%
120.5	1848	1849	186318	186305	0.01%
121	1849	1849	187208	187195	0.01%
121.5	1850	1849	188099	188086	0.01%
122	1850	1850	188989	188977	0.01%
122.5	1851	1850	189880	189868	0.01%
123	1851	1851	190772	190760	0.01%
123.5	1852	1852	191663	191652	0.01%
124	1853	1853	192555	192544	0.01%
124.5	1853	1854	193448	193436	0.01%



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
125	1854	1855	194341	194329	0.01%
125.5	1855	1855	195234	195222	0.01%
126	1855	1855	196128	196115	0.01%
126.5	1856	1855	197022	197009	0.01%
127	1856	1856	197916	197903	0.01%
127.5	1857	1856	198809	198798	0.01%
128	1858	1856	199703	199692	0.01%
128.5	1858	1856	200597	200587	0.01%
129	1859	1857	201492	201483	0.00%
129.5	1860	1857	202386	202378	0.00%
130	1860	1858	203281	203274	0.00%
130.5	1861	1859	204176	204170	0.00%
131	1861	1862	205073	205067	0.00%
131.5	1862	1863	205970	205964	0.00%
132	1863	1865	206868	206861	0.00%
132.5	1863	1865	207767	207759	0.00%
133	1864	1866	208665	208656	0.00%
133.5	1865	1866	209564	209554	0.00%
134	1865	1867	210464	210453	0.01%
134.5	1866	1868	211363	211352	0.01%
135	1866	1868	212263	212251	0.01%
135.5	1867	1869	213163	213150	0.01%
136	1868	1869	214064	214050	0.01%
136.5	1868	1870	214965	214950	0.01%
137	1869	1872	215866	215850	0.01%
137.5	1870	1873	216768	216751	0.01%
138	1870	1873	217671	217652	0.01%
138.5	1871	1874	218573	218553	0.01%
139	1871	1873	219476	219455	0.01%
139.5	1872	1874	220379	220357	0.01%
140	1873	1874	221282	221259	0.01%
140.5	1873	1874	222184	222161	0.01%
141	1874	1874	223087	223064	0.01%
141.5	1875	1874	223990	223967	0.01%
142	1875	1874	224893	224871	0.01%
142.5	1876	1875	225797	225775	0.01%
143	1877	1876	226700	226679	0.01%
143.5	1877	1877	227605	227583	0.01%
144	1878	1878	228510	228488	0.01%
144.5	1878	1879	229415	229393	0.01%
145	1879	1880	230321	230298	0.01%
145.5	1880	1880	231227	231204	0.01%
146	1880	1880	232133	232110	0.01%
146.5	1881	1879	233038	233016	0.01%
147	1882	1880	233944	233923	0.01%
147.5	1882	1879	234850	234830	0.01%
148	1883	1880	235755	235737	0.01%
148.5	1883	1880	236661	236645	0.01%
149	1884	1880	237567	237552	0.01%
149.5	1885	1880	238473	238461	0.01%



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Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
150	1885	1881	239379	239369	0.00%
150.5	1886	1884	240287	240278	0.00%
151	1887	1885	241195	241187	0.00%
151.5	1887	1885	242103	242097	0.00%
152	1888	1886	243012	243006	0.00%
152.5	1888	1886	243921	243916	0.00%
153	1889	1887	244830	244827	0.00%
153.5	1890	1887	245740	245738	0.00%
154	1890	1887	246649	246649	0.00%
154.5	1891	1887	247559	247560	0.00%
155	1892	1887	248468	248471	0.00%
155.5	1892	1888	249378	249383	0.00%
156	1893	1889	250289	250296	0.00%
156.5	1893	1890	251199	251208	0.00%
157	1894	1891	252111	252121	0.00%
157.5	1895	1892	253022	253034	0.00%
158	1895	1892	253934	253948	-0.01%
158.5	1896	1892	254846	254862	-0.01%
159	1897	1892	255758	255776	-0.01%
159.5	1897	1892	256670	256690	-0.01%
160	1898	1892	257583	257605	-0.01%
160.5	1899	1893	258495	258520	-0.01%
161	1899	1894	259408	259436	-0.01%
161.5	1900	1897	260321	260351	-0.01%
162	1900	1900	261236	261268	-0.01%
162.5	1901	1903	262153	262184	-0.01%
163	1902	1906	263071	263101	-0.01%
163.5	1902	1908	263990	264018	-0.01%
164	1903	1910	264911	264935	-0.01%
164.5	1904	1910	265832	265852	-0.01%
165	1904	1911	266753	266770	-0.01%
165.5	1905	1912	267675	267689	-0.01%
166	1905	1913	268597	268607	0.00%
166.5	1906	1913	269520	269526	0.00%
167	1907	1913	270442	270445	0.00%
167.5	1907	1913	271365	271365	0.00%
168	1908	1913	272288	272285	0.00%
168.5	1909	1914	273210	273205	0.00%
169	1909	1914	274134	274125	0.00%
169.5	1910	1915	275057	275046	0.00%
170	1910	1916	275981	275967	0.01%
170.5	1911	1915	276905	276888	0.01%
171	1912	1916	277828	277810	0.01%
171.5	1912	1916	278752	278732	0.01%
172	1913	1916	279676	279654	0.01%
172.5	1914	1916	280600	280577	0.01%
173	1914	1916	281524	281500	0.01%
173.5	1915	1915	282448	282423	0.01%
174	1915	1915	283371	283347	0.01%
174.5	1916	1915	284295	284271	0.01%



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175	1917	1916	285218	285195	0.01%
175.5	1917	1917	286143	286119	0.01%
176	1918	1919	287068	287044	0.01%
176.5	1919	1919	287993	287969	0.01%
177	1919	1920	288919	288895	0.01%
177.5	1920	1920	289845	289821	0.01%
178	1921	1919	290770	290747	0.01%
178.5	1921	1919	291696	291673	0.01%
179	1922	1919	292622	292600	0.01%
179.5	1922	1920	293547	293527	0.01%
180	1923	1919	294473	294454	0.01%
180.5	1924	1920	295399	295382	0.01%
181	1924	1920	296325	296310	0.01%
181.5	1925	1921	297251	297238	0.00%
182	1926	1923	298178	298167	0.00%
182.5	1926	1924	299106	299096	0.00%
183	1927	1924	300034	300025	0.00%
183.5	1927	1925	300962	300955	0.00%
184	1928	1925	301890	301884	0.00%
184.5	1929	1926	302819	302815	0.00%
185	1929	1927	303748	303745	0.00%
185.5	1930	1927	304677	304676	0.00%
186	1931	1927	305607	305607	0.00%
186.5	1931	1926	306536	306539	0.00%
187	1932	1926	307465	307470	0.00%
187.5	1932	1926	308394	308402	0.00%
188	1933	1927	309324	309335	0.00%
188.5	1934	1929	310254	310267	0.00%
189	1934	1929	311184	311200	-0.01%
189.5	1935	1930	312115	312134	-0.01%
190	1936	1930	313046	313067	-0.01%
190.5	1936	1931	313977	314001	-0.01%
191	1937	1931	314909	314936	-0.01%
191.5	1937	1930	315840	315870	-0.01%
192	1938	1930	316771	316805	-0.01%
192.5	1939	1930	317702	317740	-0.01%
193	1939	1930	318633	318676	-0.01%
193.5	1940	1930	319564	319612	-0.01%
194	1941	1931	320495	320548	-0.02%
194.5	1941	1931	321427	321484	-0.02%
195	1942	1932	322359	322421	-0.02%
195.5	1943	1935	323291	323358	-0.02%
196	1943	1937	324225	324296	-0.02%
196.5	1944	1938	325160	325233	-0.02%
197	1944	1938	326095	326171	-0.02%
197.5	1945	1939	327031	327110	-0.02%
198	1946	1940	327966	328048	-0.02%
198.5	1946	1941	328903	328987	-0.03%
199	1947	1942	329839	329927	-0.03%
199.5	1948	1943	330777	330866	-0.03%



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Time (min)	E119 Std Average (iF)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)
200	1948	1944	331714	331806	-0.03%
200.5	1949	1945	332653	332746	-0.03%
201	1949	1947	333592	333687	-0.03%
201.5	1950	1948	334532	334628	-0.03%
202	1951	1949	335472	335569	-0.03%
202.5	1951	1951	336413	336511	-0.03%
203	1952	1951	337354	337452	-0.03%
203.5	1953	1951	338296	338394	-0.03%
204	1953	1950	339237	339337	-0.03%
204.5	1954	1950	340178	340280	-0.03%
205	1954	1950	341119	341223	-0.03%
205.5	1955	1950	342060	342166	-0.03%
206	1956	1950	343001	343110	-0.03%
206.5	1956	1951	343942	344054	-0.03%
207	1957	1953	344884	344998	-0.03%
207.5	1958	1954	345827	345943	-0.03%
208	1958	1955	346770	346888	-0.03%
208.5	1959	1955	347714	347833	-0.03%
209	1959	1957	348658	348779	-0.03%
209.5	1960	1958	349602	349724	-0.03%
210	1961	1959	350547	350671	-0.04%
210.5	1961	1959	351493	351617	-0.04%
211	1962	1960	352439	352564	-0.04%
211.5	1963	1960	353385	353511	-0.04%
212	1963	1961	354331	354459	-0.04%
212.5	1964	1962	355278	355406	-0.04%
213	1964	1962	356225	356354	-0.04%
213.5	1965	1962	357172	357303	-0.04%
214	1966	1963	358119	358252	-0.04%
214.5	1966	1963	359067	359201	-0.04%
215	1967	1965	360015	360150	-0.04%
215.5	1968	1967	360964	361100	-0.04%
216	1968	1968	361914	362050	-0.04%
216.5	1969	1970	362864	363000	-0.04%
217	1970	1972	363815	363951	-0.04%
217.5	1970	1974	364768	364901	-0.04%
218	1971	1975	365721	365853	-0.04%
218.5	1971	1976	366675	366804	-0.04%
219	1972	1978	367629	367756	-0.03%
219.5	1973	1979	368584	368708	-0.03%
220	1973	1981	369540	369661	-0.03%
220.5	1974	1983	370497	370614	-0.03%
221	1975	1983	371455	371567	-0.03%
221.5	1975	1982	372412	372520	-0.03%
222	1976	1982	373369	373474	-0.03%
222.5	1976	1982	374326	374428	-0.03%
223	1977	1982	375283	375382	-0.03%
223.5	1978	1982	376241	376337	-0.03%
224	1978	1982	377198	377292	-0.02%
224.5	1979	1982	378155	378247	-0.02%



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225	1980	1983	379112	379203	-0.02%
225.5	1980	1983	380070	380159	-0.02%
226	1981	1983	381027	381115	-0.02%
226.5	1981	1985	381985	382072	-0.02%
227	1982	1987	382944	383029	-0.02%
227.5	1983	1987	383904	383986	-0.02%
228	1983	1987	384863	384943	-0.02%
228.5	1984	1987	385823	385901	-0.02%
229	1985	1987	386783	386859	-0.02%
229.5	1985	1987	387742	387818	-0.02%
230	1986	1987	388702	388777	-0.02%
230.5	1986	1987	389662	389736	-0.02%
231	1987	1987	390621	390695	-0.02%
231.5	1988	1987	391581	391655	-0.02%
232	1988	1989	392541	392615	-0.02%
232.5	1989	1991	393502	393575	-0.02%
233	1990	1993	394464	394536	-0.02%
233.5	1990	1995	395427	395497	-0.02%
234	1991	1995	396390	396458	-0.02%
234.5	1992	1996	397354	397420	-0.02%
235	1992	1996	398318	398382	-0.02%
235.5	1993	1995	399282	399344	-0.02%
236	1993	1995	400245	400306	-0.02%
236.5	1994	1995	401208	401269	-0.02%
237	1995	1995	402172	402232	-0.02%
237.5	1995	1995	403135	403196	-0.02%
238	1996	1995	404099	404160	-0.02%
238.5	1997	1996	405062	405124	-0.02%
239	1997	1997	406027	406088	-0.02%
239.5	1998	1999	406991	407053	-0.02%
240	1998	2000	407957	408018	-0.01%

Max Temp.

Max Allw.



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Time (min)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)	Furnace Probe #5 (°F)	Furnace Probe #6 (°F)	Furnace Probe #7 (°F)	Furnace Probe #8 (°F)	Furnace Probe #9 (°F)
0	73	73	73	73	73	73	73	73	73
0.5	74	73	74	73	74	73	74	74	74
1	83	86	95	84	92	82	97	88	83
1.5	114	130	158	125	146	114	179	125	115
2	180	214	254	208	253	172	300	206	174
2.5	290	319	360	332	393	264	470	377	285
3	432	444	476	482	523	381	645	553	450
3.5	570	588	637	662	662	507	807	720	636
4	702	734	769	835	802	633	937	867	818
4.5	810	859	876	958	918	749	1021	976	955
5	881	947	941	1039	998	842	1070	1048	1044
5.5	932	1009	991	1099	1051	914	1105	1097	1104
6	973	1058	1032	1151	1103	972	1135	1136	1151
6.5	1007	1097	1068	1193	1143	1023	1161	1166	1187
7	1035	1127	1095	1222	1174	1067	1177	1187	1207
7.5	1057	1149	1114	1245	1195	1102	1188	1203	1219
8	1075	1167	1132	1264	1214	1131	1199	1217	1228
8.5	1092	1186	1149	1283	1232	1158	1211	1232	1239
9	1108	1206	1167	1304	1251	1183	1228	1249	1254
9.5	1126	1228	1190	1330	1274	1209	1249	1271	1274
10	1146	1252	1214	1356	1298	1238	1271	1294	1296
10.5	1167	1279	1241	1386	1326	1266	1299	1320	1320
11	1190	1307	1266	1416	1355	1296	1325	1347	1345
11.5	1212	1332	1289	1443	1381	1325	1349	1371	1365
12	1232	1355	1309	1466	1405	1352	1368	1392	1381
12.5	1252	1374	1326	1487	1424	1375	1386	1409	1396
13	1267	1391	1343	1505	1440	1396	1401	1425	1408
13.5	1277	1402	1353	1515	1449	1414	1407	1435	1411
14	1283	1408	1360	1521	1454	1426	1412	1441	1413
14.5	1287	1415	1364	1525	1460	1436	1416	1448	1413
15	1291	1422	1369	1531	1466	1447	1421	1455	1415
15.5	1296	1430	1375	1537	1472	1454	1428	1462	1419
16	1301	1437	1379	1544	1478	1463	1434	1469	1423
16.5	1307	1445	1385	1551	1484	1471	1440	1476	1427
17	1313	1453	1392	1560	1490	1478	1448	1485	1434
17.5	1320	1462	1401	1570	1498	1485	1457	1494	1440
18	1326	1471	1408	1576	1506	1495	1464	1503	1444
18.5	1333	1478	1413	1583	1511	1502	1469	1509	1448
19	1337	1482	1416	1585	1514	1508	1472	1514	1450
19.5	1338	1485	1418	1585	1515	1510	1472	1516	1447
20	1341	1489	1420	1585	1517	1513	1473	1518	1447
20.5	1344	1492	1425	1589	1519	1517	1476	1522	1448
21	1347	1496	1431	1593	1523	1519	1480	1526	1452
21.5	1352	1502	1436	1597	1527	1522	1484	1531	1455
22	1358	1507	1443	1604	1531	1528	1490	1537	1460
22.5	1359	1508	1438	1606	1535	1532	1494	1545	1458
23	1358	1502	1431	1605	1536	1536	1495	1548	1454
23.5	1359	1499	1431	1603	1539	1539	1497	1552	1454
24	1361	1499	1433	1598	1539	1542	1498	1556	1459
24.5	1367	1510	1443	1604	1540	1546	1500	1560	1466



Total Quality. Assured.

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Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)	Furnace Probe #5 (°F)	Furnace Probe #6 (°F)	Furnace Probe #7 (°F)	Furnace Probe #8 (°F)	Furnace Probe #9 (°F)
25	1375	1523	1453	1613	1546	1553	1507	1566	1476
25.5	1383	1534	1462	1622	1554	1559	1515	1571	1487
26	1391	1544	1472	1631	1561	1567	1523	1579	1494
26.5	1398	1553	1481	1640	1569	1574	1531	1588	1501
27	1405	1560	1488	1645	1576	1579	1537	1595	1505
27.5	1410	1565	1493	1650	1580	1586	1540	1601	1508
28	1414	1571	1496	1653	1584	1590	1543	1606	1510
28.5	1418	1575	1500	1657	1588	1594	1547	1611	1515
29	1423	1580	1506	1662	1593	1599	1552	1615	1519
29.5	1427	1583	1509	1666	1597	1602	1556	1619	1524
30	1429	1579	1511	1663	1597	1605	1557	1620	1525
30.5	1431	1581	1514	1664	1599	1608	1560	1624	1527
31	1435	1586	1519	1669	1604	1610	1565	1629	1532
31.5	1440	1592	1524	1675	1608	1614	1569	1635	1536
32	1444	1597	1528	1679	1613	1619	1573	1639	1539
32.5	1448	1601	1532	1682	1617	1622	1577	1643	1543
33	1452	1605	1535	1686	1620	1624	1581	1646	1546
33.5	1453	1606	1537	1687	1619	1625	1577	1644	1548
34	1452	1604	1534	1681	1613	1622	1569	1637	1545
34.5	1455	1608	1539	1686	1617	1626	1574	1642	1542
35	1460	1616	1544	1692	1624	1630	1581	1650	1545
35.5	1465	1621	1549	1697	1629	1633	1586	1657	1547
36	1469	1625	1553	1700	1633	1637	1589	1660	1549
36.5	1472	1628	1556	1703	1636	1641	1592	1664	1552
37	1476	1632	1559	1705	1638	1646	1594	1666	1555
37.5	1479	1635	1562	1708	1642	1647	1598	1669	1559
38	1483	1637	1565	1711	1644	1650	1600	1673	1561
38.5	1485	1640	1566	1713	1646	1653	1602	1676	1563
39	1488	1643	1568	1715	1648	1655	1604	1678	1565
39.5	1490	1645	1571	1717	1650	1658	1606	1681	1567
40	1492	1648	1574	1719	1652	1660	1608	1684	1570
40.5	1494	1650	1576	1721	1655	1662	1611	1685	1573
41	1496	1652	1578	1722	1656	1663	1613	1687	1574
41.5	1497	1653	1580	1724	1657	1664	1614	1689	1576
42	1499	1656	1582	1725	1660	1666	1618	1691	1579
42.5	1500	1658	1584	1726	1662	1670	1619	1694	1581
43	1502	1660	1586	1728	1664	1669	1620	1695	1582
43.5	1504	1662	1587	1730	1666	1672	1623	1698	1584
44	1507	1665	1590	1732	1668	1673	1625	1700	1586
44.5	1510	1669	1593	1735	1670	1675	1628	1704	1590
45	1512	1672	1596	1738	1674	1677	1630	1706	1591
45.5	1515	1674	1599	1740	1676	1680	1633	1709	1593
46	1516	1675	1601	1742	1677	1682	1634	1710	1595
46.5	1519	1678	1603	1745	1680	1682	1637	1712	1597
47	1521	1680	1605	1746	1682	1685	1639	1714	1599
47.5	1523	1683	1607	1748	1683	1688	1640	1716	1599
48	1524	1684	1608	1749	1685	1689	1641	1717	1601
48.5	1526	1686	1611	1751	1686	1690	1643	1720	1603
49	1528	1688	1613	1754	1688	1694	1645	1722	1605
49.5	1530	1690	1616	1756	1691	1696	1648	1724	1607

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ECO Building Systems Corp.

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50	1533	1693	1618	1759	1693	1698	1650	1727	1609
50.5	1536	1696	1620	1761	1696	1700	1653	1729	1612
51	1538	1699	1624	1764	1700	1703	1657	1733	1616
51.5	1541	1702	1627	1767	1702	1707	1659	1735	1619
52	1544	1705	1629	1770	1705	1709	1663	1738	1623
52.5	1546	1706	1632	1773	1707	1711	1664	1741	1625
53	1548	1708	1634	1774	1709	1711	1666	1743	1626
53.5	1550	1710	1636	1776	1711	1711	1668	1745	1629
54	1553	1713	1638	1779	1712	1713	1669	1746	1630
54.5	1554	1714	1639	1779	1713	1714	1669	1748	1629
55	1555	1714	1640	1780	1714	1715	1670	1749	1629
55.5	1556	1715	1642	1781	1715	1716	1672	1750	1631
56	1557	1717	1644	1782	1716	1717	1673	1751	1633
56.5	1559	1718	1646	1784	1718	1718	1674	1753	1634
57	1561	1721	1648	1786	1720	1724	1677	1755	1636
57.5	1563	1724	1651	1789	1723	1727	1680	1758	1639
58	1566	1727	1654	1792	1725	1729	1682	1761	1642
58.5	1569	1730	1657	1796	1728	1731	1686	1765	1646
59	1572	1733	1660	1799	1731	1734	1689	1767	1649
59.5	1574	1735	1662	1801	1733	1736	1690	1770	1649
60	1576	1737	1664	1802	1735	1738	1691	1771	1650
60.5	1577	1739	1665	1803	1736	1739	1692	1772	1651
61	1579	1740	1667	1805	1737	1740	1693	1773	1652
61.5	1580	1740	1668	1805	1738	1742	1694	1774	1653
62	1581	1742	1669	1807	1739	1742	1696	1776	1654
62.5	1582	1743	1670	1807	1740	1743	1697	1776	1655
63	1584	1744	1672	1810	1741	1745	1700	1778	1658
63.5	1586	1747	1675	1812	1743	1743	1702	1781	1660
64	1590	1749	1677	1816	1746	1746	1705	1783	1664
64.5	1592	1752	1681	1819	1749	1747	1708	1786	1667
65	1595	1756	1684	1822	1752	1749	1710	1789	1668
65.5	1597	1758	1685	1823	1755	1752	1712	1792	1670
66	1599	1759	1687	1824	1757	1755	1713	1793	1672
66.5	1600	1760	1688	1825	1758	1755	1714	1794	1672
67	1601	1761	1689	1825	1759	1758	1715	1795	1674
67.5	1602	1763	1691	1827	1759	1759	1716	1796	1675
68	1604	1765	1692	1828	1760	1759	1718	1797	1675
68.5	1605	1765	1693	1830	1761	1760	1718	1798	1676
69	1605	1766	1694	1831	1762	1763	1719	1800	1678
69.5	1608	1768	1696	1833	1764	1764	1723	1802	1682
70	1611	1771	1700	1838	1767	1766	1726	1805	1688
70.5	1614	1774	1704	1841	1770	1768	1730	1808	1693
71	1617	1777	1707	1844	1773	1770	1733	1811	1696
71.5	1620	1780	1710	1846	1776	1774	1736	1815	1697
72	1622	1782	1713	1849	1779	1777	1738	1817	1701
72.5	1623	1783	1714	1850	1780	1781	1739	1819	1701
73	1624	1784	1714	1850	1781	1782	1740	1819	1700
73.5	1626	1785	1715	1851	1781	1782	1740	1820	1701
74	1626	1785	1716	1851	1782	1782	1740	1820	1701
74.5	1626	1785	1716	1852	1782	1783	1741	1821	1702

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75	1627	1786	1718	1853	1783	1783	1742	1821	1702
75.5	1628	1786	1718	1854	1783	1783	1742	1822	1704
76	1629	1787	1719	1854	1784	1783	1743	1822	1704
76.5	1629	1788	1720	1854	1785	1784	1744	1823	1705
77	1630	1789	1720	1855	1786	1784	1745	1823	1705
77.5	1630	1790	1721	1856	1786	1784	1745	1825	1705
78	1632	1791	1722	1857	1788	1785	1746	1826	1707
78.5	1633	1792	1724	1857	1789	1786	1748	1827	1708
79	1634	1793	1725	1859	1790	1787	1749	1828	1709
79.5	1635	1794	1726	1860	1791	1788	1750	1829	1710
80	1636	1794	1726	1861	1791	1789	1750	1830	1711
80.5	1637	1795	1727	1861	1792	1789	1751	1830	1712
81	1637	1795	1727	1861	1793	1791	1751	1830	1711
81.5	1638	1795	1728	1862	1792	1791	1751	1830	1711
82	1638	1796	1728	1862	1792	1791	1752	1831	1712
82.5	1638	1796	1729	1862	1793	1792	1752	1831	1712
83	1638	1797	1730	1863	1793	1793	1752	1832	1712
83.5	1639	1798	1730	1864	1794	1792	1753	1832	1713
84	1640	1799	1731	1865	1794	1795	1753	1833	1714
84.5	1641	1800	1732	1866	1796	1794	1756	1835	1716
85	1643	1803	1735	1869	1799	1797	1759	1838	1719
85.5	1646	1806	1738	1872	1802	1800	1762	1841	1722
86	1648	1808	1740	1874	1804	1801	1764	1843	1724
86.5	1650	1810	1741	1876	1805	1803	1765	1845	1724
87	1652	1811	1743	1878	1806	1803	1765	1846	1727
87.5	1653	1812	1744	1879	1807	1804	1767	1848	1730
88	1655	1814	1746	1881	1809	1805	1769	1849	1731
88.5	1655	1815	1747	1881	1810	1811	1770	1849	1730
89	1656	1815	1748	1881	1811	1813	1771	1850	1731
89.5	1657	1816	1749	1883	1811	1813	1771	1851	1732
90	1658	1817	1750	1884	1813	1813	1773	1852	1734
90.5	1659	1818	1751	1885	1813	1814	1773	1853	1736
91	1661	1820	1753	1887	1816	1816	1776	1855	1736
91.5	1662	1822	1755	1889	1817	1816	1777	1856	1738
92	1664	1825	1756	1891	1820	1819	1780	1859	1740
92.5	1665	1826	1758	1893	1822	1820	1782	1861	1743
93	1667	1828	1760	1895	1823	1819	1783	1863	1744
93.5	1669	1829	1762	1897	1823	1820	1783	1864	1745
94	1670	1831	1763	1898	1825	1822	1785	1865	1746
94.5	1671	1831	1764	1898	1827	1821	1786	1866	1747
95	1671	1831	1764	1897	1827	1822	1786	1866	1746
95.5	1672	1831	1765	1899	1826	1822	1786	1866	1748
96	1672	1833	1766	1899	1828	1824	1787	1867	1749
96.5	1673	1833	1766	1900	1828	1827	1788	1868	1748
97	1673	1834	1767	1900	1829	1826	1788	1868	1749
97.5	1675	1836	1768	1902	1830	1828	1790	1869	1751
98	1676	1837	1770	1903	1832	1829	1791	1871	1752
98.5	1677	1838	1771	1905	1832	1829	1792	1873	1752
99	1678	1839	1772	1905	1834	1830	1794	1874	1753
99.5	1679	1840	1772	1906	1834	1830	1794	1875	1753



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

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100	1679	1840	1773	1906	1835	1830	1794	1875	1754
100.5	1679	1840	1772	1905	1835	1831	1794	1874	1754
101	1679	1840	1773	1905	1834	1831	1794	1874	1754
101.5	1679	1839	1772	1905	1834	1831	1793	1874	1752
102	1680	1842	1774	1907	1835	1832	1794	1876	1754
102.5	1682	1844	1776	1909	1837	1834	1797	1877	1757
103	1684	1845	1778	1911	1838	1835	1799	1879	1759
103.5	1685	1847	1779	1914	1840	1837	1800	1882	1760
104	1687	1848	1780	1915	1841	1839	1802	1882	1763
104.5	1689	1851	1783	1918	1844	1841	1805	1885	1765
105	1690	1853	1785	1919	1846	1843	1806	1887	1766
105.5	1692	1854	1787	1921	1847	1844	1807	1888	1767
106	1694	1856	1788	1922	1849	1844	1808	1889	1768
106.5	1694	1857	1789	1922	1850	1846	1809	1890	1769
107	1694	1857	1790	1922	1850	1846	1809	1890	1768
107.5	1695	1858	1790	1923	1851	1847	1810	1891	1769
108	1695	1857	1790	1923	1850	1847	1810	1891	1769
108.5	1696	1858	1791	1924	1851	1848	1811	1892	1770
109	1697	1859	1793	1924	1852	1847	1812	1893	1771
109.5	1698	1861	1793	1926	1852	1847	1812	1894	1772
110	1699	1862	1795	1928	1854	1848	1814	1895	1773
110.5	1701	1865	1798	1930	1857	1852	1818	1898	1776
111	1703	1867	1801	1933	1860	1855	1820	1900	1779
111.5	1706	1870	1803	1935	1862	1858	1822	1903	1783
112	1708	1872	1805	1937	1864	1860	1824	1904	1783
112.5	1709	1874	1806	1938	1865	1860	1825	1906	1784
113	1710	1874	1806	1939	1865	1862	1824	1907	1784
113.5	1711	1875	1808	1940	1866	1863	1826	1907	1785
114	1712	1876	1808	1941	1866	1863	1826	1908	1785
114.5	1712	1877	1809	1941	1867	1864	1826	1908	1785
115	1713	1877	1810	1942	1867	1864	1826	1909	1786
115.5	1713	1878	1810	1943	1868	1864	1827	1909	1786
116	1714	1878	1811	1942	1869	1865	1828	1910	1786
116.5	1714	1878	1811	1942	1869	1865	1828	1910	1787
117	1715	1879	1812	1943	1869	1866	1829	1911	1787
117.5	1715	1881	1813	1943	1871	1867	1830	1912	1789
118	1716	1882	1814	1944	1872	1867	1832	1913	1790
118.5	1717	1882	1815	1945	1872	1870	1832	1914	1790
119	1717	1883	1816	1946	1873	1869	1832	1914	1790
119.5	1717	1883	1815	1945	1873	1871	1832	1914	1791
120	1718	1882	1815	1945	1872	1869	1832	1914	1791
120.5	1718	1883	1816	1945	1872	1869	1831	1914	1791
121	1718	1883	1816	1945	1872	1870	1831	1914	1791
121.5	1718	1884	1815	1945	1872	1870	1831	1915	1790
122	1718	1884	1817	1946	1872	1871	1832	1915	1792
122.5	1719	1885	1817	1946	1873	1871	1832	1915	1791
123	1719	1885	1818	1946	1874	1872	1834	1916	1792
123.5	1720	1886	1819	1947	1875	1872	1835	1917	1794
124	1721	1887	1820	1948	1876	1873	1836	1918	1795
124.5	1722	1888	1821	1950	1877	1874	1836	1919	1796

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125	1724	1889	1822	1950	1878	1874	1837	1921	1797
125.5	1724	1890	1822	1950	1879	1875	1839	1921	1797
126	1724	1890	1822	1951	1879	1875	1839	1922	1797
126.5	1724	1890	1823	1950	1879	1876	1839	1921	1797
127	1724	1890	1823	1951	1879	1876	1839	1921	1798
127.5	1725	1890	1823	1952	1879	1876	1839	1921	1798
128	1725	1890	1824	1951	1879	1876	1839	1921	1798
128.5	1725	1890	1824	1951	1880	1876	1840	1922	1799
129	1726	1891	1825	1952	1881	1877	1840	1923	1799
129.5	1726	1892	1825	1952	1881	1877	1841	1923	1800
130	1727	1893	1826	1953	1881	1876	1841	1923	1800
130.5	1728	1894	1827	1955	1883	1876	1843	1925	1802
131	1730	1897	1830	1957	1886	1879	1846	1927	1804
131.5	1732	1899	1831	1958	1888	1882	1847	1929	1805
132	1733	1900	1833	1960	1888	1883	1848	1930	1807
132.5	1734	1901	1833	1961	1889	1883	1849	1931	1807
133	1734	1902	1834	1962	1890	1884	1849	1932	1807
133.5	1735	1902	1834	1962	1890	1884	1850	1933	1808
134	1736	1902	1835	1962	1891	1885	1850	1933	1809
134.5	1736	1902	1835	1963	1891	1886	1851	1934	1810
135	1737	1903	1836	1964	1891	1885	1850	1933	1809
135.5	1737	1904	1837	1964	1892	1886	1852	1934	1811
136	1738	1905	1837	1965	1892	1886	1852	1935	1812
136.5	1739	1906	1839	1966	1894	1887	1854	1937	1812
137	1740	1907	1840	1968	1895	1889	1855	1938	1813
137.5	1741	1908	1841	1968	1896	1890	1856	1939	1814
138	1742	1909	1841	1969	1896	1891	1856	1939	1815
138.5	1743	1909	1841	1969	1897	1892	1856	1940	1815
139	1743	1909	1842	1969	1896	1891	1856	1939	1815
139.5	1743	1909	1842	1969	1897	1891	1856	1940	1815
140	1743	1909	1842	1970	1897	1891	1856	1940	1815
140.5	1743	1910	1842	1969	1897	1890	1856	1940	1815
141	1743	1910	1842	1970	1897	1891	1856	1940	1815
141.5	1743	1910	1843	1970	1897	1891	1857	1941	1815
142	1743	1911	1843	1970	1898	1892	1857	1941	1815
142.5	1744	1911	1844	1971	1898	1892	1858	1941	1816
143	1745	1912	1845	1972	1899	1892	1859	1942	1817
143.5	1746	1913	1847	1974	1901	1893	1860	1944	1818
144	1747	1915	1847	1974	1902	1894	1861	1945	1820
144.5	1748	1915	1848	1974	1903	1896	1863	1946	1820
145	1748	1916	1849	1975	1903	1897	1863	1947	1821
145.5	1748	1915	1849	1975	1904	1897	1863	1947	1821
146	1748	1916	1849	1975	1904	1894	1863	1947	1820
146.5	1748	1915	1848	1975	1903	1895	1862	1947	1820
147	1749	1916	1849	1975	1903	1895	1862	1946	1821
147.5	1749	1915	1849	1975	1903	1895	1862	1947	1820
148	1749	1916	1849	1975	1903	1896	1863	1947	1820
148.5	1748	1916	1848	1975	1903	1896	1862	1947	1821
149	1749	1916	1849	1975	1903	1896	1863	1947	1820
149.5	1749	1916	1850	1976	1904	1895	1863	1947	1821



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ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)	Furnace Probe #5 (°F)	Furnace Probe #6 (°F)	Furnace Probe #7 (°F)	Furnace Probe #8 (°F)	Furnace Probe #9 (°F)
150	1750	1918	1851	1977	1905	1895	1864	1949	1823
150.5	1752	1920	1853	1979	1907	1898	1867	1950	1826
151	1753	1921	1854	1981	1909	1900	1868	1952	1826
151.5	1754	1922	1855	1981	1909	1900	1868	1952	1826
152	1754	1922	1855	1981	1910	1902	1869	1953	1826
152.5	1755	1923	1855	1982	1910	1902	1869	1954	1827
153	1756	1923	1856	1982	1910	1902	1869	1954	1827
153.5	1756	1924	1857	1983	1910	1902	1869	1954	1828
154	1756	1924	1857	1982	1911	1904	1869	1954	1827
154.5	1756	1924	1857	1983	1911	1904	1869	1955	1827
155	1756	1924	1857	1983	1911	1903	1869	1954	1827
155.5	1757	1925	1858	1983	1912	1903	1871	1955	1828
156	1757	1926	1859	1984	1913	1905	1872	1957	1830
156.5	1758	1927	1859	1985	1913	1905	1872	1957	1832
157	1760	1929	1861	1987	1915	1905	1874	1959	1832
157.5	1760	1930	1861	1987	1915	1907	1874	1959	1832
158	1761	1930	1862	1988	1915	1907	1874	1960	1833
158.5	1761	1930	1862	1988	1915	1906	1874	1959	1832
159	1761	1930	1862	1988	1915	1906	1874	1960	1833
159.5	1762	1930	1863	1988	1915	1907	1875	1959	1832
160	1761	1930	1863	1987	1916	1908	1875	1960	1831
160.5	1761	1930	1863	1988	1916	1907	1875	1961	1833
161	1763	1932	1864	1990	1917	1907	1876	1963	1834
161.5	1765	1935	1867	1993	1919	1909	1879	1965	1837
162	1768	1938	1870	1996	1923	1911	1883	1967	1842
162.5	1770	1941	1873	2000	1926	1915	1886	1970	1844
163	1773	1945	1875	2003	1929	1917	1888	1974	1846
163.5	1775	1947	1878	2005	1932	1921	1890	1976	1848
164	1777	1948	1880	2006	1934	1923	1893	1978	1849
164.5	1777	1950	1880	2007	1935	1924	1893	1979	1849
165	1778	1951	1881	2008	1935	1926	1893	1980	1849
165.5	1779	1952	1882	2009	1936	1927	1894	1981	1850
166	1780	1952	1883	2009	1936	1927	1894	1981	1851
166.5	1780	1952	1883	2009	1937	1927	1894	1981	1852
167	1780	1953	1884	2010	1937	1928	1895	1982	1852
167.5	1780	1953	1884	2010	1936	1928	1895	1982	1852
168	1780	1953	1884	2009	1937	1928	1895	1982	1852
168.5	1781	1954	1885	2010	1938	1928	1896	1982	1852
169	1781	1955	1885	2010	1938	1928	1897	1983	1853
169.5	1782	1956	1886	2011	1939	1929	1898	1984	1853
170	1783	1956	1887	2011	1939	1929	1898	1984	1855
170.5	1783	1956	1887	2011	1939	1929	1897	1984	1853
171	1784	1956	1887	2011	1939	1929	1897	1984	1853
171.5	1784	1957	1887	2011	1939	1930	1897	1985	1853
172	1783	1956	1887	2011	1939	1929	1897	1984	1854
172.5	1784	1956	1887	2011	1939	1930	1897	1985	1853
173	1784	1956	1887	2011	1939	1929	1897	1984	1854
173.5	1783	1956	1888	2011	1938	1929	1897	1984	1853
174	1783	1956	1887	2010	1938	1929	1896	1984	1852
174.5	1783	1956	1887	2010	1938	1928	1896	1984	1852



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175	1784	1958	1888	2011	1939	1928	1898	1985	1853
175.5	1785	1959	1889	2013	1940	1929	1899	1986	1855
176	1786	1960	1890	2015	1941	1930	1900	1987	1858
176.5	1787	1961	1891	2015	1942	1930	1901	1988	1858
177	1787	1961	1891	2015	1943	1932	1902	1989	1858
177.5	1787	1961	1892	2014	1943	1932	1901	1989	1857
178	1787	1961	1892	2015	1942	1931	1900	1988	1857
178.5	1787	1961	1892	2015	1942	1931	1900	1988	1857
179	1788	1961	1892	2015	1942	1931	1900	1988	1857
179.5	1788	1962	1893	2015	1942	1931	1900	1989	1856
180	1788	1962	1892	2015	1942	1931	1900	1989	1856
180.5	1788	1962	1893	2015	1943	1932	1901	1989	1857
181	1788	1962	1893	2015	1943	1931	1901	1989	1858
181.5	1789	1963	1894	2017	1944	1932	1902	1990	1859
182	1791	1965	1895	2018	1946	1933	1904	1992	1860
182.5	1792	1966	1897	2019	1946	1934	1905	1992	1862
183	1792	1966	1897	2020	1947	1934	1906	1993	1863
183.5	1793	1967	1898	2020	1948	1935	1906	1993	1863
184	1793	1967	1898	2020	1948	1935	1907	1994	1863
184.5	1794	1968	1899	2021	1950	1933	1908	1995	1863
185	1795	1969	1900	2022	1950	1936	1908	1995	1864
185.5	1795	1969	1900	2022	1950	1938	1908	1996	1864
186	1795	1969	1900	2021	1950	1938	1908	1996	1865
186.5	1795	1969	1900	2020	1949	1938	1907	1995	1863
187	1794	1969	1899	2020	1949	1938	1907	1995	1862
187.5	1795	1969	1900	2021	1949	1935	1908	1995	1863
188	1795	1970	1900	2022	1951	1938	1909	1996	1865
188.5	1797	1972	1902	2023	1952	1939	1910	1997	1866
189	1797	1972	1903	2024	1952	1940	1911	1999	1867
189.5	1799	1973	1903	2025	1953	1941	1912	1999	1868
190	1799	1973	1904	2025	1953	1941	1912	1999	1868
190.5	1799	1973	1904	2025	1954	1941	1912	1999	1868
191	1799	1974	1904	2025	1953	1942	1912	1999	1868
191.5	1799	1974	1904	2025	1953	1937	1911	2000	1867
192	1799	1974	1903	2025	1953	1942	1911	1999	1867
192.5	1798	1973	1904	2024	1953	1941	1911	1999	1867
193	1798	1973	1904	2024	1953	1939	1911	2000	1867
193.5	1798	1973	1903	2024	1953	1942	1911	1999	1867
194	1799	1974	1904	2025	1953	1941	1911	2000	1868
194.5	1799	1975	1905	2025	1954	1941	1912	2000	1870
195	1800	1976	1906	2026	1955	1943	1913	2002	1870
195.5	1802	1979	1908	2029	1958	1945	1916	2005	1873
196	1805	1981	1910	2032	1960	1947	1918	2007	1875
196.5	1805	1982	1911	2032	1961	1949	1919	2008	1875
197	1806	1983	1912	2033	1961	1949	1919	2008	1875
197.5	1807	1983	1913	2034	1962	1949	1919	2009	1876
198	1807	1984	1913	2033	1963	1950	1920	2010	1877
198.5	1808	1985	1915	2035	1964	1950	1921	2011	1878
199	1809	1987	1916	2037	1965	1951	1923	2012	1879
199.5	1810	1988	1917	2038	1966	1952	1924	2013	1880



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200	1811	1989	1919	2038	1967	1954	1925	2014	1881
200.5	1812	1990	1920	2040	1968	1953	1926	2015	1883
201	1813	1992	1921	2041	1970	1954	1929	2017	1884
201.5	1815	1994	1922	2043	1972	1957	1930	2018	1885
202	1816	1995	1923	2044	1972	1958	1931	2019	1886
202.5	1817	1996	1925	2045	1974	1959	1932	2021	1887
203	1817	1996	1926	2045	1974	1958	1932	2021	1887
203.5	1817	1997	1926	2045	1974	1959	1931	2020	1887
204	1817	1996	1925	2044	1973	1956	1931	2020	1887
204.5	1817	1996	1925	2044	1973	1957	1930	2020	1886
205	1817	1996	1926	2044	1972	1956	1931	2020	1886
205.5	1818	1997	1926	2044	1973	1955	1931	2021	1887
206	1818	1997	1926	2045	1973	1954	1931	2021	1888
206.5	1819	1998	1927	2046	1975	1954	1932	2022	1889
207	1820	2000	1928	2047	1975	1959	1933	2023	1890
207.5	1821	2001	1929	2049	1977	1959	1935	2024	1891
208	1822	2001	1930	2050	1978	1959	1936	2025	1892
208.5	1823	2002	1931	2050	1978	1959	1936	2026	1893
209	1824	2004	1933	2051	1980	1961	1939	2027	1894
209.5	1825	2005	1933	2052	1981	1962	1939	2028	1895
210	1826	2006	1934	2053	1982	1962	1940	2029	1896
210.5	1826	2007	1935	2054	1983	1963	1940	2030	1896
211	1827	2007	1936	2055	1983	1963	1941	2030	1897
211.5	1827	2007	1936	2055	1984	1964	1942	2031	1897
212	1828	2008	1937	2055	1984	1965	1942	2032	1897
212.5	1828	2009	1938	2056	1985	1965	1943	2032	1899
213	1829	2010	1939	2056	1985	1964	1944	2032	1899
213.5	1829	2010	1939	2057	1985	1965	1943	2034	1899
214	1830	2011	1940	2057	1986	1964	1944	2034	1900
214.5	1830	2012	1940	2058	1987	1964	1945	2035	1900
215	1832	2014	1942	2061	1988	1964	1947	2036	1902
215.5	1834	2016	1945	2063	1990	1966	1948	2038	1904
216	1834	2017	1945	2063	1991	1967	1950	2039	1905
216.5	1836	2019	1947	2065	1993	1968	1952	2041	1906
217	1838	2022	1949	2068	1995	1971	1953	2043	1908
217.5	1840	2024	1951	2069	1997	1975	1955	2045	1910
218	1841	2025	1952	2071	1998	1974	1956	2046	1910
218.5	1842	2026	1953	2071	1999	1975	1958	2048	1911
219	1843	2027	1954	2073	2001	1978	1960	2049	1913
219.5	1844	2029	1956	2075	2001	1980	1960	2050	1915
220	1847	2031	1959	2077	2004	1983	1963	2052	1917
220.5	1848	2033	1960	2077	2005	1985	1963	2054	1918
221	1849	2033	1960	2078	2005	1986	1963	2054	1917
221.5	1848	2033	1959	2076	2005	1985	1963	2053	1917
222	1848	2033	1960	2077	2005	1985	1963	2053	1917
222.5	1849	2033	1960	2077	2005	1985	1963	2054	1916
223	1849	2033	1960	2076	2005	1985	1963	2055	1916
223.5	1849	2033	1960	2076	2005	1984	1963	2054	1916
224	1849	2033	1960	2076	2005	1985	1963	2054	1916
224.5	1849	2033	1960	2076	2005	1986	1963	2054	1916



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225	1849	2033	1961	2076	2006	1986	1963	2054	1917
225.5	1849	2034	1961	2076	2005	1986	1963	2055	1917
226	1850	2034	1961	2077	2006	1985	1964	2055	1918
226.5	1852	2036	1964	2080	2008	1983	1966	2057	1921
227	1853	2037	1966	2081	2010	1985	1968	2058	1923
227.5	1853	2038	1966	2081	2010	1985	1968	2060	1923
228	1854	2039	1967	2082	2010	1984	1968	2060	1923
228.5	1854	2038	1967	2081	2011	1984	1969	2059	1923
229	1854	2038	1967	2081	2011	1983	1969	2060	1923
229.5	1854	2038	1967	2081	2011	1984	1969	2060	1923
230	1854	2039	1966	2081	2011	1984	1969	2059	1922
230.5	1854	2039	1966	2082	2011	1984	1969	2059	1922
231	1854	2039	1967	2081	2010	1983	1968	2059	1922
231.5	1854	2039	1968	2082	2011	1983	1969	2059	1922
232	1855	2041	1969	2083	2012	1983	1971	2061	1924
232.5	1857	2043	1971	2086	2014	1986	1973	2064	1927
233	1859	2045	1972	2088	2016	1987	1975	2065	1929
233.5	1861	2047	1974	2089	2018	1988	1977	2067	1931
234	1862	2048	1975	2090	2018	1988	1977	2067	1931
234.5	1862	2048	1976	2090	2019	1990	1977	2068	1932
235	1862	2048	1976	2090	2019	1990	1977	2068	1931
235.5	1862	2048	1975	2090	2018	1989	1976	2067	1929
236	1862	2048	1975	2089	2017	1989	1976	2066	1929
236.5	1862	2048	1975	2089	2018	1991	1976	2067	1929
237	1862	2048	1975	2089	2018	1991	1976	2067	1930
237.5	1862	2048	1975	2088	2018	1990	1976	2067	1928
238	1862	2048	1975	2088	2019	1991	1977	2067	1930
238.5	1862	2049	1976	2089	2019	1990	1977	2068	1930
239	1863	2050	1978	2090	2020	1990	1979	2069	1931
239.5	1865	2052	1979	2093	2023	1990	1982	2072	1935
240	1867	2053	1981	2095	2024	1991	1982	2073	1936

Max Temp.

Max Allw.



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0	71	71	71	71	71	71	71	71	72	71	71	72
0.5	71	71	71	71	71	71	71	71	72	71	71	72
1	71	71	71	71	71	71	71	71	72	71	71	72
1.5	71	71	71	71	71	71	71	71	72	71	71	72
2	71	71	71	71	71	71	71	71	72	71	71	72
2.5	71	71	71	71	71	71	71	71	72	71	71	72
3	71	71	71	71	71	71	71	71	72	71	71	72
3.5	71	71	71	71	71	71	71	71	72	71	71	72
4	71	71	71	71	71	71	71	71	72	71	71	72
4.5	71	71	71	71	71	71	71	71	72	71	71	72
5	71	71	71	71	71	71	71	71	72	71	71	72
5.5	71	71	71	71	71	71	71	71	72	71	71	72
6	71	71	71	71	71	71	71	71	72	71	71	72
6.5	71	71	71	71	71	71	71	71	72	71	71	72
7	71	71	71	71	71	71	71	71	72	71	71	72
7.5	71	71	71	71	71	71	71	71	72	71	71	72
8	71	71	71	71	71	71	71	71	72	71	71	72
8.5	71	71	71	71	71	71	71	71	72	71	71	72
9	71	71	71	71	71	71	71	71	72	71	71	72
9.5	71	71	71	71	71	71	71	71	72	71	71	72
10	71	71	71	71	71	71	71	71	72	71	71	72
10.5	71	71	71	71	71	71	71	71	72	71	71	72
11	71	71	71	71	71	71	71	71	72	71	71	72
11.5	71	71	71	71	71	71	71	71	72	71	71	72
12	71	71	71	71	71	71	71	71	72	71	71	72
12.5	71	71	71	71	71	71	71	71	72	71	71	72
13	71	71	71	71	71	71	71	71	72	71	71	72
13.5	71	71	71	71	71	71	71	71	72	71	71	72
14	71	71	71	71	71	71	71	71	72	71	71	72
14.5	71	71	71	71	71	71	71	71	72	71	71	72
15	71	71	71	71	71	71	71	71	72	71	71	72
15.5	71	71	71	71	71	71	71	71	72	71	71	72
16	71	71	71	71	71	71	71	71	72	71	71	72
16.5	71	71	71	71	71	71	71	71	72	71	71	72
17	71	71	71	71	71	71	71	71	72	71	71	72
17.5	71	71	71	71	71	71	71	71	72	71	71	72
18	71	71	71	71	71	71	71	71	72	71	71	72
18.5	71	71	71	71	71	71	71	71	72	71	71	72
19	71	71	71	71	71	71	71	71	72	71	71	72
19.5	72	71	71	71	71	71	72	72	72	71	72	72
20	71	71	71	71	71	71	71	72	72	71	71	72
20.5	71	71	71	71	71	71	71	72	72	71	71	72
21	71	71	71	71	71	71	71	72	72	71	71	72
21.5	72	71	71	71	71	72	72	72	72	71	72	72
22	72	71	71	71	71	72	72	72	72	71	72	72
22.5	72	71	71	71	71	72	72	72	72	71	72	72
23	72	71	71	71	71	72	72	72	72	71	72	72
23.5	72	71	71	72	71	72	72	72	72	71	72	72
24	72	71	72	72	71	72	72	72	72	71	72	72
24.5	72	71	71	71	71	72	72	72	72	71	72	72



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25	72	72	72	72	72	72	72	72	72	72	72	72
25.5	72	72	72	72	72	72	72	72	72	72	72	72
26	72	72	72	72	72	72	72	72	72	72	72	72
26.5	72	72	72	72	72	72	72	72	72	72	72	72
27	72	72	72	72	72	72	72	72	72	72	72	72
27.5	72	72	72	72	72	72	72	72	72	72	72	72
28	72	72	72	72	72	72	72	72	72	72	72	72
28.5	72	72	72	72	72	72	72	72	72	72	72	72
29	72	72	72	72	72	72	72	72	72	72	72	72
29.5	72	72	72	72	72	72	72	72	72	72	72	72
30	72	72	72	72	72	72	72	72	72	72	72	72
30.5	72	72	72	72	72	72	72	72	72	72	72	72
31	72	72	72	72	72	72	72	72	72	72	72	72
31.5	72	72	72	72	72	72	72	72	72	72	72	72
32	72	72	72	72	72	72	72	72	72	72	72	72
32.5	72	72	72	72	72	72	72	72	72	72	72	72
33	72	72	72	72	72	72	72	72	72	72	72	72
33.5	72	72	72	72	72	72	72	72	72	72	72	72
34	72	72	72	72	72	72	72	72	72	72	72	72
34.5	72	72	72	72	72	72	72	72	72	72	72	72
35	72	72	72	72	72	72	72	72	72	72	72	72
35.5	72	72	72	72	72	72	72	72	72	72	72	72
36	72	72	72	72	72	72	72	72	72	72	72	72
36.5	72	72	72	72	72	72	72	72	72	72	72	72
37	72	72	72	72	72	72	72	72	72	72	72	72
37.5	72	72	72	72	72	72	72	72	72	72	72	72
38	72	72	72	72	72	72	72	72	72	72	72	72
38.5	72	72	72	72	72	72	72	72	72	72	72	72
39	72	72	72	72	72	72	72	72	72	72	72	72
39.5	72	72	72	72	72	72	72	72	72	72	72	72
40	72	72	72	72	72	72	72	72	72	72	72	72
40.5	72	72	72	72	72	72	72	72	72	72	72	72
41	72	72	72	72	72	72	72	72	72	72	72	72
41.5	72	72	72	72	72	72	72	72	72	72	72	72
42	72	72	72	72	72	72	72	72	72	72	72	72
42.5	72	72	72	72	72	72	72	72	72	72	72	72
43	72	72	72	72	72	72	72	72	72	72	72	72
43.5	72	72	72	72	72	72	72	72	72	72	72	72
44	72	72	72	72	72	72	72	72	72	72	72	72
44.5	72	72	72	72	72	72	72	72	72	72	72	72
45	72	72	72	72	72	72	72	72	72	72	72	72
45.5	72	72	72	72	72	72	72	72	72	72	72	72
46	72	72	72	72	72	72	72	72	73	72	72	73
46.5	72	72	72	72	72	72	72	72	73	72	72	73
47	72	72	72	72	72	72	72	72	72	72	72	72
47.5	72	72	72	72	72	72	72	72	72	72	72	72
48	72	72	72	72	72	72	72	72	72	72	72	72
48.5	72	72	72	72	72	72	72	72	72	72	72	72
49	72	72	72	72	72	72	72	72	72	72	72	72
49.5	72	72	72	72	72	72	72	72	73	72	72	73



Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

Telephone: 210-635-8100
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www.intertek.com/building

TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
	TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	Min. (°F)	Avg. (°F)	Max. (°F)
50	72	72	72	72	72	72	72	72	73	72	72	73
50.5	72	72	72	72	72	72	72	72	73	72	72	73
51	72	72	72	72	72	72	72	72	73	72	72	73
51.5	72	72	72	72	72	72	72	72	73	72	72	73
52	73	72	72	72	72	72	72	73	73	72	72	73
52.5	72	72	72	72	72	72	72	72	73	72	72	73
53	72	72	72	72	72	72	72	72	73	72	72	73
53.5	72	72	72	72	72	73	72	73	73	72	72	73
54	72	72	72	72	72	72	72	72	73	72	72	73
54.5	72	72	72	72	72	72	72	72	73	72	72	73
55	72	72	72	72	72	72	72	72	73	72	72	73
55.5	72	72	72	72	72	72	72	72	73	72	72	73
56	73	72	72	72	72	72	72	73	73	72	72	73
56.5	72	72	72	72	72	72	72	72	73	72	72	73
57	73	72	72	72	72	72	72	73	73	72	72	73
57.5	73	72	72	72	72	72	72	72	73	72	72	73
58	73	72	72	72	72	72	72	73	73	72	72	73
58.5	72	72	72	72	72	72	72	72	73	72	72	73
59	72	72	72	72	72	72	72	72	73	72	72	73
59.5	73	72	72	72	72	72	72	72	73	72	72	73
60	73	72	72	72	72	72	72	73	73	72	72	73
60.5	73	72	72	72	72	72	72	72	73	72	72	73
61	73	72	72	72	72	72	72	73	73	72	72	73
61.5	73	72	72	72	72	72	72	72	73	72	72	73
62	73	73	73	73	72	73	73	73	73	72	73	73
62.5	73	73	73	73	72	73	73	73	73	72	73	73
63	73	73	73	73	72	73	73	73	73	72	73	73
63.5	73	73	73	73	73	73	73	73	73	73	73	73
64	73	73	73	73	72	73	73	73	73	72	73	73
64.5	73	73	73	73	72	73	73	73	73	72	73	73
65	73	73	73	73	73	73	73	73	73	73	73	73
65.5	73	73	73	73	73	73	73	73	73	73	73	73
66	73	73	73	73	73	73	73	73	73	73	73	73
66.5	73	73	73	73	73	73	73	73	73	73	73	73
67	73	73	73	73	73	73	73	73	73	73	73	73
67.5	73	73	73	73	73	73	73	73	73	73	73	73
68	73	73	73	73	73	73	73	73	73	73	73	73
68.5	73	73	73	73	73	73	73	73	73	73	73	73
69	73	73	73	73	73	73	73	73	73	73	73	73
69.5	73	73	73	73	73	73	73	73	73	73	73	73
70	73	73	73	73	73	73	73	73	73	73	73	73
70.5	73	73	73	73	73	73	73	73	73	73	73	73
71	73	73	73	73	73	73	73	73	73	73	73	73
71.5	73	73	73	73	73	73	73	73	73	73	73	73
72	73	73	73	73	73	73	73	73	73	73	73	73
72.5	73	73	73	73	73	73	73	73	73	73	73	73
73	73	73	73	73	73	73	73	73	73	73	73	73
73.5	73	73	73	73	73	73	73	73	73	73	73	73
74	73	73	73	73	73	73	73	73	73	73	73	73
74.5	73	74	73	73	73	73	73	73	73	73	73	74



Total Quality. Assured.

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Elmendorf, Texas 78112

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
75	73	73	73	73	73	73	73	73	73	73	73	73
75.5	73	73	73	73	73	73	73	73	73	73	73	73
76	73	74	73	73	73	73	73	73	73	73	73	74
76.5	74	74	73	73	73	73	73	73	73	73	73	74
77	74	74	73	73	73	73	73	73	73	73	73	74
77.5	74	74	73	73	73	73	73	73	73	73	73	74
78	74	74	73	73	73	73	73	73	73	73	73	74
78.5	74	74	73	73	73	73	73	73	73	73	73	74
79	74	74	73	73	73	73	73	73	73	73	73	74
79.5	74	74	73	73	73	73	73	73	73	73	73	74
80	74	74	73	73	73	73	73	73	73	73	73	74
80.5	74	74	73	73	73	73	73	73	73	73	73	74
81	74	74	73	73	73	73	73	73	73	73	73	74
81.5	74	75	73	73	73	73	73	73	73	73	73	75
82	74	75	73	73	73	73	73	73	73	73	73	75
82.5	74	75	73	73	73	73	73	73	73	73	73	75
83	75	75	73	73	73	73	73	73	73	73	73	75
83.5	74	75	73	73	73	73	73	73	73	73	73	75
84	75	75	73	73	73	73	73	73	73	73	73	75
84.5	75	75	73	73	73	73	73	73	73	73	73	75
85	75	75	73	73	73	73	73	73	73	73	73	75
85.5	75	75	73	73	73	73	73	73	73	73	73	75
86	75	75	73	73	73	73	73	73	73	73	73	75
86.5	75	76	73	73	73	73	73	73	73	73	73	76
87	75	76	73	73	73	73	73	73	73	73	73	76
87.5	75	76	73	73	73	73	73	73	73	73	73	76
88	75	76	73	73	73	73	73	73	73	73	73	76
88.5	75	76	73	73	73	73	73	73	73	73	73	76
89	76	76	73	73	73	73	73	73	73	73	73	76
89.5	76	76	74	73	73	73	73	73	73	73	73	76
90	76	76	74	73	73	73	73	73	73	73	73	76
90.5	76	76	74	73	73	73	73	73	73	73	73	76
91	76	76	74	73	73	73	73	73	73	73	73	76
91.5	76	77	74	73	73	73	73	73	73	73	73	77
92	76	77	74	73	73	73	73	73	73	73	73	77
92.5	76	77	74	73	73	73	73	73	73	73	73	77
93	76	77	74	73	73	73	73	73	73	73	73	77
93.5	77	77	74	74	73	74	73	74	74	73	74	77
94	76	77	74	73	73	73	73	73	74	73	74	77
94.5	77	77	74	74	73	73	73	73	74	73	74	77
95	77	77	74	74	73	74	73	74	74	73	74	77
95.5	77	77	74	74	73	74	73	74	74	73	74	77
96	77	78	74	74	73	74	73	74	74	73	75	78
96.5	77	78	74	74	73	74	74	74	74	73	75	78
97	77	78	74	74	73	74	74	74	74	73	75	78
97.5	77	78	74	74	73	74	73	74	74	73	74	78
98	77	78	74	73	73	73	73	74	74	73	74	78
98.5	77	78	74	74	73	73	73	74	74	73	74	78
99	78	78	74	74	73	74	73	74	74	73	75	78
99.5	78	78	74	74	73	74	73	74	74	73	75	78



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
100	78	78	74	74	73	74	73	74	74	73	75	78
100.5	78	79	74	74	73	74	74	74	74	73	75	79
101	78	79	74	74	73	73	73	74	74	73	75	79
101.5	78	79	74	74	74	74	74	74	74	74	75	79
102	78	79	74	74	74	74	74	74	74	74	75	79
102.5	78	79	75	74	74	74	74	74	74	74	75	79
103	78	79	75	74	74	74	74	74	74	74	75	79
103.5	79	79	75	74	74	74	74	74	74	74	75	79
104	79	79	75	74	74	74	74	74	74	74	75	79
104.5	79	80	75	74	74	74	74	74	74	74	75	80
105	79	80	75	74	74	74	74	74	74	74	75	80
105.5	79	80	75	74	74	74	74	74	74	74	75	80
106	79	80	75	74	74	74	74	74	74	74	75	80
106.5	79	80	75	74	74	74	74	74	74	74	75	80
107	79	80	75	74	74	74	74	74	74	74	75	80
107.5	79	80	75	74	74	74	74	74	74	74	75	80
108	80	80	75	74	74	74	74	74	74	74	75	80
108.5	80	81	75	74	74	74	74	74	74	74	76	81
109	80	81	76	74	74	74	74	74	74	74	76	81
109.5	80	81	76	74	74	74	74	74	74	74	76	81
110	80	81	76	74	74	74	74	74	74	74	76	81
110.5	80	81	76	74	74	74	74	74	74	74	76	81
111	80	81	76	74	74	74	74	74	74	74	76	81
111.5	80	81	76	74	74	74	74	74	74	74	76	81
112	81	81	76	74	74	74	74	74	74	74	76	81
112.5	81	82	76	74	74	74	74	74	74	74	76	82
113	81	82	76	74	74	74	74	74	75	74	76	82
113.5	81	82	76	74	74	74	74	74	74	74	76	82
114	81	82	76	74	74	74	74	74	74	74	76	82
114.5	81	82	76	74	74	74	74	74	74	74	76	82
115	81	82	76	74	74	74	74	74	74	74	76	82
115.5	81	82	76	74	74	74	74	74	74	74	76	82
116	82	83	77	74	74	74	74	74	74	74	76	83
116.5	82	83	77	74	74	74	74	74	74	74	76	83
117	82	83	77	74	74	74	74	74	74	74	76	83
117.5	82	83	77	74	74	74	74	74	74	74	76	83
118	82	83	77	74	74	74	74	74	74	74	76	83
118.5	82	83	77	74	74	74	74	74	74	74	76	83
119	82	83	77	74	74	74	74	74	74	74	76	83
119.5	82	83	77	74	74	74	74	74	74	74	76	83
120	82	83	77	74	74	74	74	74	74	74	76	83
120.5	83	84	77	74	74	74	74	75	74	74	77	84
121	83	84	77	74	74	74	74	74	74	74	76	84
121.5	83	84	78	74	74	74	74	75	75	74	77	84
122	83	84	78	74	74	74	74	75	75	74	77	84
122.5	83	84	78	74	74	74	74	74	74	74	77	84
123	83	84	78	75	74	74	74	75	75	74	77	84
123.5	83	84	78	75	74	74	74	75	75	74	77	84
124	84	85	78	75	74	74	74	75	75	74	77	85
124.5	84	85	78	75	74	74	74	75	75	74	77	85



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
125	84	85	78	75	74	74	74	75	75	74	77	85
125.5	84	85	78	75	75	74	74	75	75	74	77	85
126	84	85	78	75	75	74	74	75	75	74	77	85
126.5	84	85	79	75	75	75	74	75	75	74	77	85
127	84	85	79	75	75	75	74	75	75	74	77	85
127.5	84	86	79	75	75	75	74	75	75	74	78	86
128	85	86	79	75	75	75	74	75	75	74	78	86
128.5	85	86	79	75	75	75	74	75	75	74	78	86
129	85	86	79	75	75	75	74	75	75	74	78	86
129.5	85	86	79	75	75	75	74	75	75	74	78	86
130	85	86	79	75	75	75	74	75	75	74	78	86
130.5	85	86	79	75	75	75	74	75	75	74	78	86
131	85	86	79	75	75	75	74	75	75	74	78	86
131.5	85	87	80	75	75	75	75	75	75	75	78	87
132	86	87	80	75	75	75	75	75	75	75	78	87
132.5	86	87	80	75	75	75	75	75	75	75	78	87
133	86	87	80	75	75	75	75	75	75	75	78	87
133.5	86	87	80	75	75	75	75	75	75	75	78	87
134	86	87	80	75	75	75	75	75	75	75	78	87
134.5	86	87	80	75	75	75	75	75	75	75	78	87
135	87	88	81	75	75	75	75	75	75	75	78	88
135.5	87	88	81	75	75	75	75	75	75	75	78	88
136	87	88	81	75	75	75	75	75	75	75	78	88
136.5	87	88	81	75	75	75	75	75	75	75	78	88
137	87	88	81	75	75	75	75	75	75	75	78	88
137.5	87	88	81	75	75	75	75	75	75	75	78	88
138	87	89	81	76	75	75	75	75	75	75	79	89
138.5	87	89	82	76	75	75	75	76	75	75	79	89
139	88	89	82	75	75	75	75	75	75	75	79	89
139.5	88	89	82	75	75	75	75	75	75	75	79	89
140	88	89	82	76	75	75	75	76	75	75	79	89
140.5	88	89	82	75	75	75	75	75	75	75	79	89
141	88	89	82	75	75	75	75	75	75	75	79	89
141.5	88	90	82	76	76	75	75	76	75	75	79	90
142	88	90	83	76	75	75	75	75	75	75	79	90
142.5	89	90	83	76	75	75	75	75	75	75	79	90
143	89	90	83	76	75	75	75	76	75	75	79	90
143.5	89	90	83	76	76	75	75	76	75	75	79	90
144	89	90	83	76	76	75	75	76	75	75	79	90
144.5	89	91	84	76	76	75	75	76	75	75	80	91
145	89	91	84	76	76	75	75	76	75	75	80	91
145.5	90	91	84	76	76	75	75	76	75	75	80	91
146	90	91	84	76	76	76	75	76	75	75	80	91
146.5	90	91	84	76	76	75	75	76	75	75	80	91
147	90	91	84	76	76	76	75	76	75	75	80	91
147.5	90	92	84	76	76	76	75	76	75	75	80	92
148	90	92	85	76	76	76	75	76	75	75	80	92
148.5	91	92	85	76	76	76	75	76	75	75	80	92
149	91	92	85	76	76	76	75	76	75	75	80	92
149.5	91	92	85	76	76	76	75	76	75	75	80	92



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
150	91	92	85	76	76	76	75	76	75	75	80	92
150.5	92	93	86	76	76	76	75	76	75	75	81	93
151	92	93	86	76	76	76	75	76	75	75	81	93
151.5	92	93	86	76	76	76	75	76	75	75	81	93
152	92	93	86	76	76	76	75	76	76	75	81	93
152.5	92	93	87	76	76	76	75	76	76	75	81	93
153	92	94	87	76	76	76	75	76	75	75	81	94
153.5	93	94	87	76	76	76	75	76	76	75	81	94
154	93	94	87	76	76	76	75	76	76	75	81	94
154.5	93	94	88	76	76	76	75	76	76	75	81	94
155	93	94	88	76	76	76	75	76	76	75	81	94
155.5	93	95	88	76	76	76	75	76	76	75	81	95
156	94	95	88	76	76	76	75	76	76	75	81	95
156.5	94	95	89	76	76	76	75	76	76	75	81	95
157	94	95	89	77	76	76	76	76	76	76	82	95
157.5	94	96	89	77	76	76	76	76	76	76	82	96
158	94	96	90	77	76	76	76	76	76	76	82	96
158.5	95	96	90	77	76	76	76	76	76	76	82	96
159	95	97	90	77	76	76	76	76	76	76	82	97
159.5	95	97	91	77	76	76	76	76	76	76	82	97
160	95	97	91	77	76	76	76	76	76	76	82	97
160.5	96	97	91	77	77	76	76	76	76	76	82	97
161	96	98	92	77	77	76	76	76	76	76	83	98
161.5	96	98	92	77	77	76	76	76	76	76	83	98
162	97	98	93	77	77	76	76	76	76	76	83	98
162.5	97	99	93	77	77	76	76	76	76	76	83	99
163	97	99	93	77	77	76	76	76	76	76	83	99
163.5	97	99	94	77	77	76	76	76	76	76	83	99
164	98	100	94	77	77	76	76	76	76	76	83	100
164.5	98	100	94	77	77	76	76	76	76	76	83	100
165	98	100	95	77	77	76	76	76	76	76	83	100
165.5	98	101	95	77	77	76	76	76	76	76	84	101
166	99	101	96	77	77	76	76	76	76	76	84	101
166.5	99	102	96	77	77	76	76	77	76	76	84	102
167	99	102	97	77	77	76	76	77	76	76	84	102
167.5	100	102	97	77	77	76	76	77	76	76	84	102
168	100	103	98	77	77	76	76	77	76	76	84	103
168.5	100	103	98	77	77	76	76	77	76	76	84	103
169	101	104	99	78	77	77	76	77	76	76	85	104
169.5	101	105	99	78	77	76	76	77	76	76	85	105
170	101	105	100	78	77	76	76	77	76	76	85	105
170.5	102	106	100	78	77	77	76	77	76	76	85	106
171	102	106	101	78	77	77	76	77	76	76	86	106
171.5	102	107	101	78	77	77	76	77	76	76	86	107
172	103	108	102	78	77	77	76	77	76	76	86	108
172.5	103	108	102	78	77	77	76	77	76	76	86	108
173	104	109	103	78	77	77	76	77	76	76	86	109
173.5	104	110	104	78	77	77	76	77	76	76	87	110
174	105	110	104	78	78	77	76	77	76	76	87	110
174.5	105	111	105	78	77	77	76	77	76	76	87	111



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
175	106	112	106	78	78	77	76	77	76	76	87	112
175.5	106	113	106	78	78	77	76	77	76	76	87	113
176	107	114	107	78	78	77	76	77	76	76	88	114
176.5	107	115	108	79	78	77	76	77	76	76	88	115
177	108	116	108	79	78	77	76	77	76	76	88	116
177.5	108	117	109	79	78	77	76	77	76	76	89	117
178	109	118	110	79	78	77	76	77	76	76	89	118
178.5	110	119	110	79	78	77	76	77	76	76	89	119
179	110	120	111	79	78	77	76	77	76	76	89	120
179.5	111	121	112	79	78	77	76	77	76	76	90	121
180	112	122	113	79	78	77	76	77	76	76	90	122
180.5	112	123	113	79	78	77	76	77	76	76	90	123
181	113	124	114	79	78	77	76	77	76	76	90	124
181.5	114	126	115	79	78	77	76	77	76	76	91	126
182	114	127	115	80	78	78	77	77	77	77	91	127
182.5	115	128	116	80	78	78	76	77	77	76	92	128
183	116	130	117	80	78	78	76	77	76	76	92	130
183.5	117	131	118	80	79	78	77	78	77	77	93	131
184	117	132	119	80	78	78	77	78	77	77	93	132
184.5	118	134	120	80	79	78	77	78	77	77	93	134
185	119	135	121	80	79	78	77	78	77	77	94	135
185.5	120	136	121	81	79	78	77	78	77	77	94	136
186	121	138	122	81	79	78	77	78	77	77	95	138
186.5	122	139	123	81	79	78	77	78	77	77	95	139
187	123	141	124	81	79	78	77	78	77	77	95	141
187.5	124	142	125	82	79	78	77	78	77	77	96	142
188	124	143	126	82	79	78	77	78	77	77	96	143
188.5	125	144	127	82	79	78	77	78	77	77	96	144
189	126	146	128	82	79	78	77	78	77	77	97	146
189.5	127	147	129	83	79	78	77	78	77	77	97	147
190	128	148	129	83	79	78	77	78	77	77	97	148
190.5	129	150	130	84	79	78	77	78	77	77	98	150
191	130	151	131	84	80	78	77	78	77	77	98	151
191.5	131	152	132	85	79	78	77	78	77	77	99	152
192	132	153	133	85	80	78	77	78	77	77	99	153
192.5	133	154	134	86	80	78	77	78	77	77	100	154
193	134	155	135	86	80	78	77	78	77	77	100	155
193.5	135	156	135	87	80	78	77	78	77	77	100	156
194	136	158	136	87	80	78	77	78	77	77	101	158
194.5	137	159	137	88	80	79	77	78	77	77	101	159
195	138	159	138	89	80	79	77	78	77	77	102	159
195.5	139	161	139	89	80	79	77	78	77	77	102	161
196	140	162	140	90	80	79	78	78	77	77	103	162
196.5	141	163	141	91	80	79	78	78	78	78	103	163
197	142	164	142	92	80	79	78	78	78	78	104	164
197.5	143	164	142	92	80	79	78	78	78	78	104	164
198	144	165	143	93	80	79	78	78	78	78	104	165
198.5	145	166	144	94	81	79	78	79	78	78	105	166
199	146	167	145	95	80	79	78	78	78	78	105	167
199.5	147	168	146	96	81	79	78	79	78	78	106	168



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side	Cold Side
	TC #1 (°F)	TC #2 (°F)	TC #3 (°F)	TC #4 (°F)	TC #5 (°F)	TC #6 (°F)	TC #7 (°F)	TC #8 (°F)	TC #9 (°F)	Min. (°F)	Avg. (°F)	Max. (°F)
200	148	169	147	97	81	79	78	79	78	78	106	169
200.5	149	170	147	97	81	79	78	79	78	78	106	170
201	150	170	148	98	81	79	78	79	78	78	107	170
201.5	151	171	149	99	81	79	78	79	78	78	107	171
202	152	172	150	100	81	79	78	79	78	78	108	172
202.5	153	172	150	101	81	79	78	79	78	78	108	172
203	154	173	151	102	81	79	78	79	78	78	108	173
203.5	155	174	152	103	81	79	78	79	78	78	109	174
204	156	174	153	105	81	80	78	79	78	78	109	174
204.5	156	175	153	106	81	80	78	79	78	78	110	175
205	157	175	154	107	81	80	78	79	78	78	110	175
205.5	158	176	155	108	81	80	78	79	78	78	110	176
206	159	177	156	110	82	80	78	79	78	78	111	177
206.5	160	177	157	111	82	80	78	79	78	78	111	177
207	161	178	157	112	82	80	78	79	78	78	112	178
207.5	161	178	158	114	82	80	78	79	78	78	112	178
208	162	179	158	115	82	80	78	79	78	78	112	179
208.5	163	179	159	117	82	80	78	79	78	78	113	179
209	163	180	160	119	82	80	78	79	78	78	113	180
209.5	164	180	161	120	82	80	78	79	78	78	114	180
210	165	180	161	122	82	80	78	79	78	78	114	180
210.5	165	181	162	123	83	80	78	79	78	78	114	181
211	166	181	163	125	83	80	78	80	78	78	115	181
211.5	167	182	163	127	83	80	79	80	78	78	115	182
212	167	181	164	129	83	80	78	79	78	78	115	181
212.5	168	182	164	130	83	80	79	80	78	78	116	182
213	168	182	165	132	83	80	79	80	78	78	116	182
213.5	169	183	166	134	84	81	79	80	79	79	117	183
214	170	183	166	135	84	81	79	80	79	79	117	183
214.5	170	183	167	137	84	81	79	80	79	79	118	183
215	170	183	167	138	84	81	79	80	79	79	118	183
215.5	171	184	168	139	84	81	79	80	79	79	118	184
216	171	184	168	141	84	81	79	80	79	79	119	184
216.5	172	184	169	142	85	81	79	80	79	79	119	184
217	172	184	169	144	85	81	79	80	79	79	119	184
217.5	172	184	170	145	85	81	79	80	79	79	119	184
218	173	185	170	146	85	81	79	80	79	79	120	185
218.5	173	185	171	148	86	81	79	80	79	79	120	185
219	174	185	171	149	86	81	79	80	79	79	120	185
219.5	174	185	172	150	86	81	79	80	79	79	121	185
220	174	186	172	151	86	82	79	80	79	79	121	186
220.5	175	186	173	153	87	82	79	80	79	79	122	186
221	175	186	173	153	87	82	80	80	79	79	122	186
221.5	176	186	174	155	88	82	80	80	79	79	122	186
222	176	186	174	156	89	82	80	81	80	80	123	186
222.5	177	186	174	157	90	82	80	81	80	80	123	186
223	177	187	175	158	91	82	80	81	80	80	123	187
223.5	177	187	175	159	92	82	80	81	80	80	124	187
224	177	187	176	159	93	82	80	81	80	80	124	187
224.5	178	187	176	160	95	83	80	81	80	80	124	187



Total Quality. Assured.

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TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

ECO Building Systems Corp.

G103254480SAT-002

March 5, 2018

Time (min)	Cold Side TC #1 (°F)	Cold Side TC #2 (°F)	Cold Side TC #3 (°F)	Cold Side TC #4 (°F)	Cold Side TC #5 (°F)	Cold Side TC #6 (°F)	Cold Side TC #7 (°F)	Cold Side TC #8 (°F)	Cold Side TC #9 (°F)	Cold Side Min. (°F)	Cold Side Avg. (°F)	Cold Side Max. (°F)
225	178	187	176	161	96	83	80	81	80	80	125	187
225.5	178	187	176	162	98	83	80	81	80	80	125	187
226	179	188	177	162	100	83	80	81	80	80	126	188
226.5	179	187	177	163	101	83	80	81	80	80	126	187
227	179	187	177	164	103	83	80	81	80	80	126	187
227.5	180	188	178	165	105	83	80	81	80	80	127	188
228	180	188	178	165	107	84	80	81	80	80	127	188
228.5	180	188	178	166	109	84	80	81	80	80	127	188
229	180	188	179	166	111	84	80	81	80	80	128	188
229.5	180	188	179	167	113	84	80	81	80	80	128	188
230	181	188	179	167	115	84	81	81	80	80	128	188
230.5	181	188	179	168	117	85	81	81	80	80	129	188
231	181	188	179	168	119	85	81	82	80	80	129	188
231.5	181	188	180	168	121	85	81	82	80	80	130	188
232	181	188	180	169	123	85	81	82	80	80	130	188
232.5	181	188	180	169	124	86	81	82	81	81	130	188
233	181	188	180	170	126	86	81	82	81	81	131	188
233.5	182	188	180	170	128	86	81	82	81	81	131	188
234	182	189	181	171	130	87	81	82	81	81	132	189
234.5	182	189	181	171	132	87	81	82	81	81	132	189
235	182	189	181	171	133	88	81	82	81	81	132	189
235.5	182	189	181	171	135	88	81	82	81	81	132	189
236	182	189	181	172	137	89	81	82	81	81	133	189
236.5	183	189	182	172	138	90	81	83	81	81	133	189
237	183	189	182	172	140	90	81	83	81	81	133	189
237.5	183	189	182	173	141	91	82	83	81	81	134	189
238	183	189	182	173	143	92	81	83	81	81	134	189
238.5	183	189	182	173	144	93	81	83	81	81	134	189
239	183	189	183	174	146	94	82	83	81	81	135	189
239.5	183	189	183	174	147	95	82	83	82	82	135	189
240	183	189	183	174	149	96	82	83	82	82	136	189
Max Temp.	183	189	183	174	149	96	82	83	82	82	136	189
Max Allw.	321	321	321	321	321	321	321	321	322	321	321	322



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Date: 03/16/18

SECTION 12

DRAWINGS

The test specimen drawings which follow have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

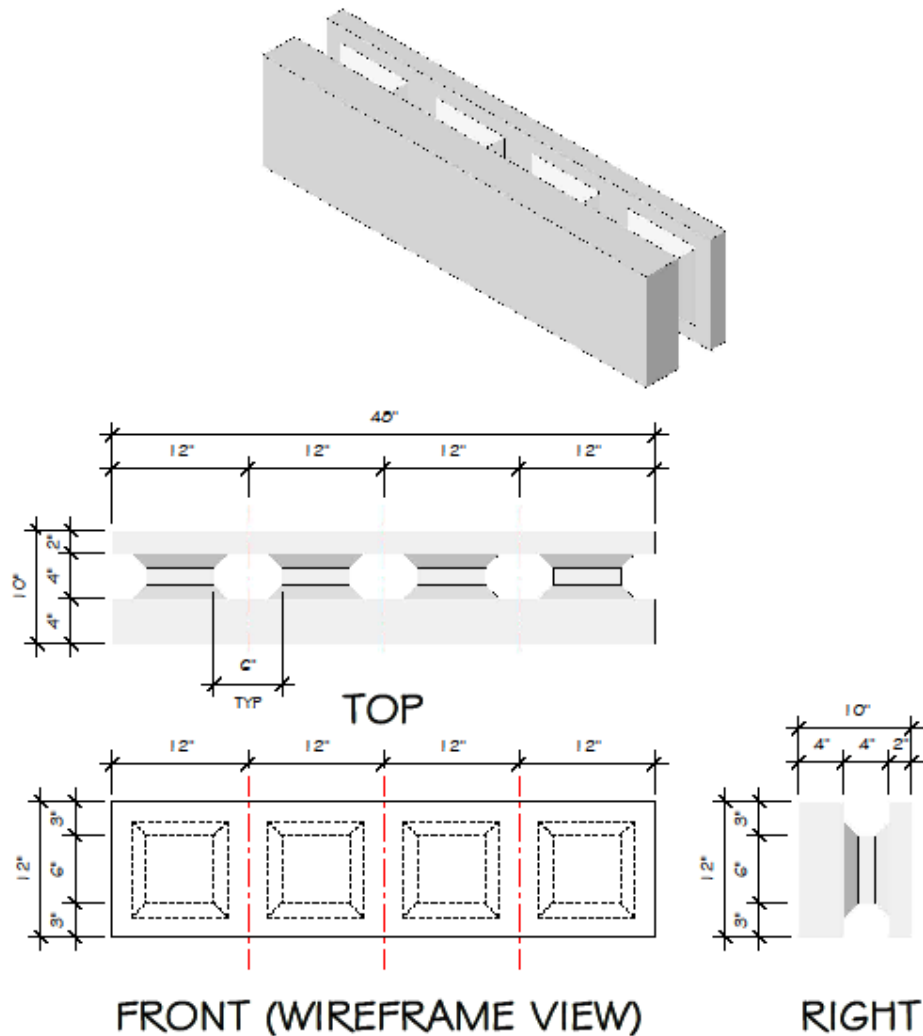
TEST REPORT FOR ECO BUILDING SYSTEMS CORP.

Report No.: 103254480SAT-001

Date: 03/16/18

Eco Building Systems Corp.™

**EBS 10 INCH ASYMMETRIC
BLOCK SPECIFICATIONS**





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SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/16/18	N/A	Original Report Issue