

INTERNATIONAL COATINGS TEST REPORT

SCOPE OF WORK

ASTM E119-20 TESTING OF INTERNATIONAL COATINGS GROUP'S ICG FBL-100 INTUMESCENT COATING

REPORT NUMBER

G105019063SAT-001 R0

TEST DATE

06/14/22

ISSUE DATE **[REVISED DATE]**

06/21/22 N/A

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TEST REPORT FOR INTERNATIONAL COATINGS

Report No.: G105019063SAT-001 R0

Date: 06/21/22

REPORT ISSUED TO

INTERNATIONAL COATINGS GROUP

757 SE 17th Street, Suite 846

Ft. Lauderdale, FL 33316

USA

SECTION 1

SCOPE

Intertek Testing Services NA Ltd. dba Intertek Building & Construction (B&C) was contracted by International Coatings Group, 757 SE 17th Street, Suite 846, Ft. Lauderdale, FL 33316 to perform testing in accordance with ASTM E119, *Standard Fire Test Method for Fire Tests of Building Construction and Materials* on their ICG FBL-100 intumescent coating. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek test facility in Elmendorf, Texas.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

SECTION 2

SUMMARY OF TEST RESULTS

The I-joint assembly described within this test report met a fire endurance period of **65 minutes**.

For INTERTEK B&C:

COMPLETED BY:	Emmanuel Ogoe	REVIEWED BY:	Abel de Hoyos
TITLE:	Project Engineer – Building and Construction	TITLE:	Senior Project Manager – Fire Resistance
SIGNATURE:		SIGNATURE:	
DATE:	06/16/22	DATE:	06/21/22

AAA:bbb

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TEST METHOD(S)

The specimen was evaluated in general accordance with the following:

Modified* ASTM E119-20, Standard Fire Test Method for Fire Tests of Building Construction and Materials¹

*Reduced-scale ASTM E119, exterior thermocouple placement, and acceptance criteria

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. The results outlined in this report apply to the sample as received.

The test samples were received by the test facility on 4/26/22 and given Sample ID SAT2204261631-001. Construction of the assembly was done by International Coatings Group

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
48JF0082	DAQ Unit	Yokogawa	10/15/22
10361068	Thermo/Hygrometer	Omega	08/05/22
151950603	Stopwatch	Fisherbrand	08/26/22

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Aaron French	International Coatings Group
Cooper Adams	Intertek B&C
Emmanuel Ogoe	Intertek B&C

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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 the floor assembly was instrumented with a total of nine (9), 24 GA. Type K, fiberglass jacketed TCs as per Section 7.3 of ASTM E119-20. Four (4) Furnace Probes as described in Section 7.2 of ASTM E119-20 were utilized to read furnace temperatures. 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.

The fire exposure test was conducted under non-loadbearing conditions.

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:

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

where:

C=correction in the same units as I,

I=indicated fire-resistance period,

A=area above a base line of 68°F (20°C) under the curve of indicated average furnace temperature for the first three fourths of the indicated period,

AS=area above a base line of 68°F (20°C) under the standard furnace curve for the same part of the indicated period, and

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

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VARIABLE	DESCRIPTION	VALUE	UNITS
C	Correction Factor	5	seconds
I	Indicated FR Period	65	minutes
A	Area under Indicated FR Period for first 3/4 of test period	64740	°F*min
As	Area under Standard E119 Time vs. Temp. Curve for first 3/4 of test period	64608	°F*min
L	Lag Correction	3240	°F*min
FR Period	Fire-Resistance Period	65	minutes

SECTION 7

TEST SPECIMEN DESCRIPTION

Joist: 2"x10" pines cut to size and fastened 16" on center together with 9x3" all-purpose torx screws.

Subfloor: 3/4" x4" tongue and groove Red Oak, Air nailed with 2", 16-gauge nails.

Top layer floor: 5/8 CDX Plywood fastened with 9x2 1/2" all-purpose torx screws.

FBL-100 stripe/spot coated with brush in seams and cracks in wood.
Let dry overnight.

Temp and weather conditions: 87F - 90F days at 80% humidity.

20 mils WFT average of FBL-100 applied to specimen with Graco airless sprayer set at 3000 psi using a 21 tip for application. (14 mils DFT)
Allowed overnight dry time.

Applied FBL-100 at 18 mils WFT average (12.6 DFT) with spray applicator.
Allowed 7 hours of dry time.

Applied 12 mils WFT average (8.4 DFT) with spray applicator.

Finished FBL-100 spray application to specimen on 5/5/22.
A total of 35 mils DFT average was applied over three coats.

SECTION 8

TEST RESULTS

The test was initiated on June 14, 2022. The ambient temperature at the start of the test was 81.3 °F and the humidity was 79.6 %R.H.

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Observations made during the test are listed below:

FIRE-RESISTANCE TEST OBSERVATIONS	
Time (Min:Sec)	Observations
00:00	Test started at 8:39 am
00:17	Light smoke escaping sides
01:40	More smoke (moderate)
16:12	Decrease of smoke (light)
18:20	Water evaporating from red oak planks
24:15	Increase of water evaporation from red oak planks
28:15	Increase in smoke (moderate)
29:29	Smoking ceased
31:32	Light smoking
37:34	Moderate smoking
38:25	Discoloration on red oak planks
43:59	Significant discoloration on red oak planks
46:46	Significant smoking from corner of assembly
52:16	Discoloration to plywood on top
52:53	Bubbling seen on red oak
55:08	Increased smoking (heavy)
60:00	1-hr exposure met
64:34	Splitting on plywood
64:50	Popping noise heard
66:17	Dense smoke from all layers
66:44	Flaming in center of floor on unexposed side; end of test

SECTION 9

CONCLUSION

The International Coatings Group floor/ceiling assembly described within this test report met a fire endurance period of **65 minutes**, as per the specified performance requirements of ASTM E119, *Standard Fire Test Method for Fire Tests of Building Construction and Materials*¹.

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SECTION 10 PHOTOGRAPHS



Photo No. 1
Framing set up

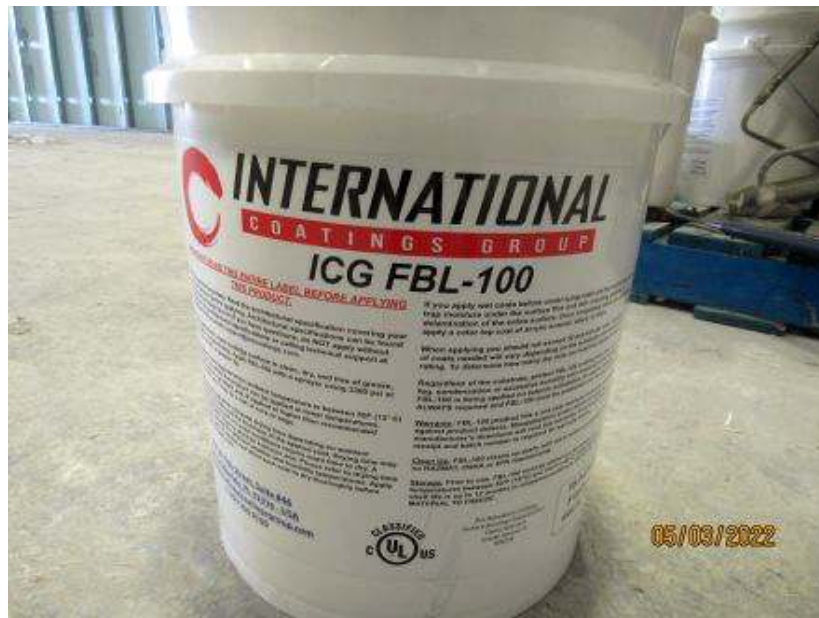


Photo No. 2
ICG FBL-100 Coating

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Photo No. 3
Red oak subfloor



Photo No. 4
Applying coating to joints

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Photo No. 5
1st application complete



Photo No. 6
Joist spacing

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Photo No. 7
Flooring thicknesses



Photo No. 8
Spraying final coating

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Photo No. 9
Assembly complete



Photo No. 10
Installing assembly into test frame

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Photo No. 11
Assembly installed into test frame



Photo No. 12
Test setup

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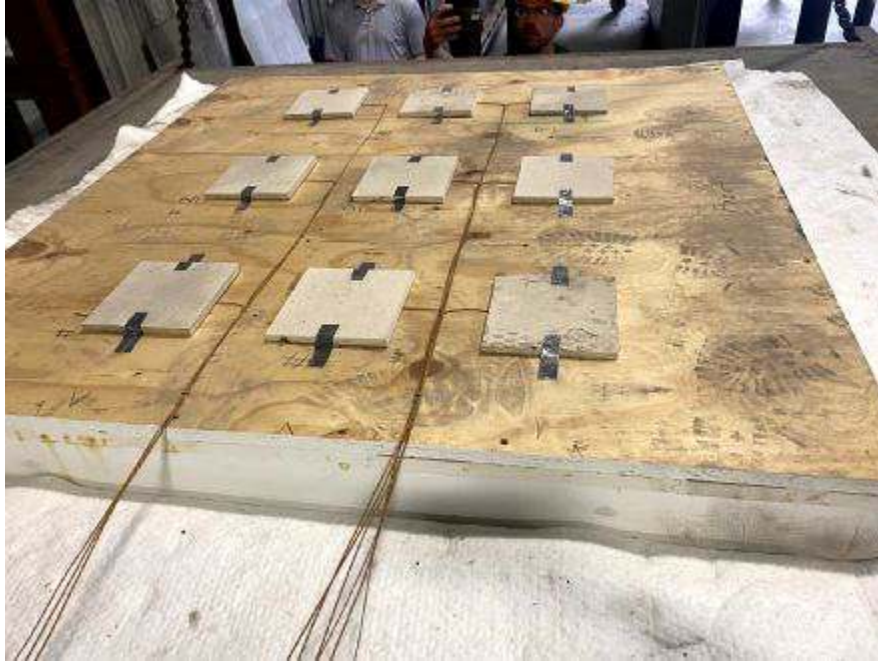


Photo No. 13
Test Started



Photo No. 14
Moisture escaping from red oak planks

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Photo No. 15
Smoking from corner



Photo No. 16
More moisture escaping

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Photo No. 17
Increased smoking from sample



Photo No. 18
Assembly framing bubbling

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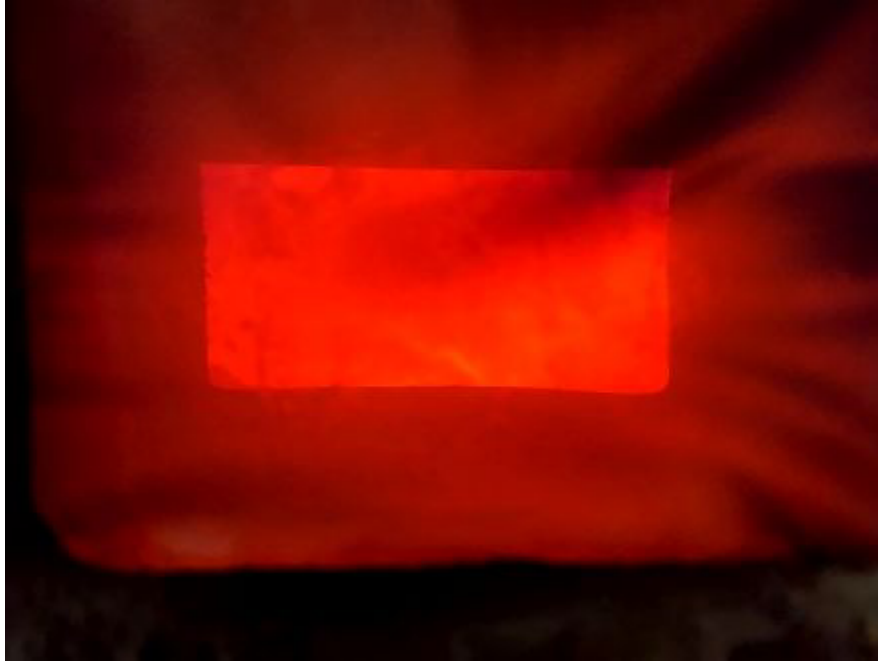


Photo No. 19
Flaming inside furnace



Photo No. 20
Continued smoking from sample

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Photo No. 21
Flaming on unexposed side



Photo No. 22
Hole burned through sample

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Photo No. 23
Exposed side flaming



Photo No. 24
Exposed side post-test

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DATA (GRAPHS AND TABULAR)

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International Coatings Group

June 14, 2022

Time (min)	E119 Std Average (°F)	Furnace Average (°F)	Integration of Furnace Average (°F•min)	Integration of E119 Std Average (°F•min)	Error (%)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)
0	68	85	0	0	0.00	86	85	84	85
0.5	161	86	9	23	-53.98	87	86	85	87
1	254	105	23	93	-76.31	108	105	99	109
1.5	348	164	56	210	-75.94	179	159	138	180
2	441	269	130	373	-68.36	311	251	205	310
2.5	534	426	270	583	-57.34	499	383	305	516
3	627	617	497	839	-44.34	706	544	443	773
3.5	720	794	815	1142	-31.49	889	705	598	983
4	814	932	1213	1491	-20.77	1021	845	743	1120
4.5	907	1029	1669	1887	-12.93	1111	951	856	1197
5	1000	1089	2164	2330	-7.89	1164	1023	936	1234
5.5	1030	1130	2685	2804	-4.77	1196	1076	994	1252
6	1060	1155	3222	3292	-2.49	1213	1112	1036	1258
6.5	1090	1159	3767	3796	-0.96	1208	1126	1055	1245
7	1120	1150	4310	4314	-0.16	1193	1125	1060	1223
7.5	1150	1136	4847	4848	0.04	1173	1116	1057	1198
8	1180	1125	5378	5396	-0.23	1158	1107	1052	1181
8.5	1210	1155	5914	5960	-0.70	1190	1134	1081	1213
9	1240	1210	6471	6538	-1.02	1248	1181	1128	1283
9.5	1270	1267	7056	7132	-1.09	1304	1230	1176	1357
10	1300	1318	7669	7740	-0.98	1358	1276	1223	1416
10.5	1317	1362	8305	8360	-0.76	1405	1315	1266	1463
11	1328	1398	8961	8988	-0.40	1441	1351	1305	1494
11.5	1337	1411	9629	9620	0.01	1445	1376	1332	1490
12	1347	1402	10298	10257	0.35	1428	1380	1336	1463
12.5	1356	1383	10960	10898	0.55	1402	1371	1329	1430
13	1364	1362	11612	11545	0.60	1375	1355	1317	1399
13.5	1373	1339	12253	12195	0.51	1348	1337	1301	1369
14	1381	1328	12886	12849	0.33	1333	1331	1294	1353
14.5	1388	1334	13517	13507	0.11	1337	1340	1302	1356
15	1396	1357	14156	14170	-0.08	1361	1361	1322	1382
15.5	1403	1392	14809	14835	-0.18	1397	1395	1347	1428
16	1410	1426	15480	15505	-0.19	1431	1426	1374	1473
16.5	1417	1447	16164	16177	-0.11	1451	1447	1399	1490
17	1424	1457	16856	16854	-0.01	1461	1461	1414	1492
17.5	1430	1462	17551	17533	0.08	1467	1469	1422	1489
18	1436	1467	18249	18215	0.17	1472	1477	1428	1489
18.5	1442	1469	18949	18901	0.24	1474	1481	1433	1488
19	1448	1471	19650	19590	0.30	1474	1484	1436	1489
19.5	1454	1472	20352	20281	0.34	1473	1487	1439	1488
20	1459	1473	21054	20975	0.37	1473	1488	1440	1489
20.5	1465	1473	21756	21672	0.38	1471	1489	1442	1489
21	1470	1473	22459	22372	0.39	1471	1489	1443	1489
21.5	1475	1474	23161	23074	0.38	1471	1490	1447	1489
22	1480	1477	23865	23779	0.36	1473	1492	1450	1491
22.5	1485	1479	24570	24487	0.34	1475	1495	1452	1493
23	1490	1483	25276	25196	0.32	1480	1500	1455	1496
23.5	1495	1488	25985	25909	0.29	1486	1506	1460	1499
24	1499	1495	26697	26623	0.27	1493	1513	1466	1506
24.5	1504	1502	27412	27340	0.26	1501	1520	1474	1514

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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 (%)	Furnace Probe #1 (°F)	Furnace Probe #2 (°F)	Furnace Probe #3 (°F)	Furnace Probe #4 (°F)
25	1508	1512	28131	28059	0.25	1510	1529	1484	1524
25.5	1513	1521	28855	28781	0.25	1520	1537	1492	1536
26	1517	1527	29584	29504	0.26	1529	1539	1500	1541
26.5	1521	1528	30313	30230	0.27	1530	1538	1500	1542
27	1525	1526	31043	30957	0.27	1528	1534	1500	1542
27.5	1529	1523	31771	31687	0.26	1524	1528	1500	1539
28	1533	1524	32498	32419	0.25	1521	1531	1503	1539
28.5	1537	1529	33227	33153	0.23	1526	1541	1508	1540
29	1541	1542	33961	33888	0.21	1539	1554	1520	1553
29.5	1545	1557	34702	34626	0.21	1556	1566	1536	1571
30	1549	1570	35450	35365	0.23	1570	1575	1551	1584
30.5	1552	1571	36201	36106	0.26	1572	1576	1550	1587
31	1556	1565	36951	36850	0.27	1566	1568	1542	1584
31.5	1559	1563	37699	37594	0.28	1564	1565	1539	1583
32	1563	1563	38446	38341	0.27	1563	1570	1539	1581
32.5	1566	1567	39195	39089	0.27	1566	1576	1543	1584
33	1570	1574	39946	39839	0.27	1573	1583	1549	1591
33.5	1573	1581	40701	40591	0.27	1581	1588	1558	1597
34	1576	1587	41459	41344	0.27	1587	1592	1562	1605
34.5	1579	1587	42218	42099	0.28	1588	1590	1562	1608
35	1583	1587	42978	42856	0.28	1588	1589	1562	1609
35.5	1586	1591	43738	43614	0.28	1593	1588	1562	1619
36	1589	1592	44500	44373	0.28	1596	1589	1563	1620
36.5	1592	1596	45263	45135	0.28	1602	1591	1565	1624
37	1595	1598	46027	45897	0.28	1605	1592	1568	1627
37.5	1598	1601	46793	46661	0.28	1607	1596	1572	1627
38	1601	1603	47559	47427	0.28	1609	1599	1575	1627
38.5	1604	1609	48328	48194	0.28	1618	1606	1580	1632
39	1606	1612	49100	48963	0.28	1622	1611	1581	1634
39.5	1609	1613	49872	49733	0.28	1622	1612	1582	1634
40	1612	1612	50644	50504	0.28	1620	1612	1582	1633
40.5	1615	1613	51416	51277	0.27	1621	1612	1585	1635
41	1617	1609	52188	52051	0.27	1615	1607	1582	1632
41.5	1620	1606	52957	52826	0.25	1613	1604	1579	1628
42	1623	1609	53727	53603	0.23	1613	1609	1582	1630
42.5	1625	1611	54498	54381	0.22	1612	1615	1585	1630
43	1628	1622	55272	55160	0.20	1627	1624	1596	1642
43.5	1631	1643	56054	55941	0.20	1652	1641	1613	1664
44	1633	1660	56846	56723	0.21	1668	1657	1630	1684
44.5	1636	1659	57641	57506	0.23	1663	1660	1635	1678
45	1638	1645	58433	58290	0.25	1648	1645	1622	1665
45.5	1640	1628	59217	59076	0.24	1633	1626	1604	1647
46	1643	1617	59995	59863	0.23	1622	1616	1592	1638
46.5	1645	1622	60770	60651	0.20	1627	1625	1597	1640
47	1648	1639	61552	61440	0.18	1646	1640	1613	1658
47.5	1650	1656	62341	62230	0.18	1663	1656	1628	1676
48	1652	1665	63138	63022	0.18	1672	1665	1636	1685
48.5	1655	1672	63938	63815	0.19	1677	1673	1644	1692
49	1657	1675	64740	64608	0.20	1679	1677	1648	1695
49.5	1659	1670	65542	65403	0.21	1672	1674	1645	1687

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50	1661	1663	66341	66199	0.22	1665	1670	1639	1677
50.5	1663	1668	67140	66997	0.21	1671	1674	1644	1682
51	1666	1681	67943	67795	0.22	1688	1683	1655	1698
51.5	1668	1688	68751	68594	0.23	1693	1690	1661	1706
52	1670	1684	69560	69394	0.24	1687	1688	1659	1701
52.5	1672	1676	70366	70196	0.24	1679	1683	1652	1691
53	1674	1672	71169	70998	0.24	1672	1681	1649	1685
53.5	1676	1668	71970	71802	0.24	1667	1677	1646	1681
54	1678	1665	72769	72607	0.23	1664	1674	1644	1676
54.5	1680	1661	73566	73412	0.21	1660	1671	1640	1672
55	1682	1666	74364	74219	0.20	1665	1677	1644	1678
55.5	1684	1680	75166	75026	0.19	1682	1687	1656	1694
56	1686	1696	75976	75835	0.19	1702	1700	1670	1712
56.5	1688	1706	76793	76645	0.19	1711	1709	1679	1723
57	1690	1709	77612	77455	0.20	1713	1714	1683	1727
57.5	1692	1709	78433	78267	0.21	1710	1715	1684	1726
58	1694	1709	79253	79079	0.22	1713	1714	1681	1729
58.5	1696	1721	80077	79893	0.23	1733	1708	1684	1759
59	1698	1736	80907	80707	0.24	1754	1711	1698	1782
59.5	1700	1744	81743	81522	0.27	1761	1717	1709	1789
60	1701	1747	82582	82338	0.29	1758	1724	1723	1781

Max Temp
Max Allowed

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60.5	1703	1746	83421	83156	0.31	1761	1724	1720	1778
61	1705	1745	84260	83974	0.34	1757	1720	1725	1779
61.5	1707	1750	85099	84793	0.36	1759	1723	1734	1783
62	1709	1758	85942	85612	0.38	1766	1731	1743	1792
62.5	1710	1763	86789	86433	0.41	1772	1739	1749	1792
63	1712	1755	87634	87255	0.43	1760	1743	1747	1770
63.5	1714	1729	88471	88077	0.45	1732	1720	1723	1740
64	1716	1697	89293	88901	0.45	1702	1686	1689	1709
64.5	1717	1667	90100	89725	0.43	1675	1654	1658	1679
65	1719	1644	90894	90550	0.39	1658	1630	1630	1659
65.5	1721	1658	91685	91376	0.35	1674	1645	1638	1673
66	1722	1681	92486	92203	0.31	1698	1666	1656	1705
66.5	1724	1709	93299	93030	0.29	1728	1681	1673	1752

Max Temp

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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 Average (°F)
0	84	84	83	83	83	83	83	83	83	83
0.5	84	84	83	83	83	83	83	83	83	83
1	84	84	83	83	83	83	83	83	83	83
1.5	84	84	83	83	83	83	83	83	83	83
2	84	84	83	83	83	83	83	83	83	83
2.5	84	84	83	83	83	83	83	83	83	83
3	84	84	83	83	83	83	83	83	83	83
3.5	84	84	84	83	83	83	83	83	83	83
4	84	84	84	83	84	83	83	83	83	83
4.5	84	84	84	83	84	83	83	83	83	83
5	84	84	84	83	84	83	83	83	83	83
5.5	84	84	84	83	84	83	83	83	83	83
6	84	84	84	83	84	83	83	83	83	83
6.5	84	84	84	83	84	83	83	83	83	83
7	84	84	84	83	83	83	83	83	83	83
7.5	84	84	84	83	84	83	83	83	83	83
8	84	84	84	84	84	84	84	83	83	84
8.5	84	84	84	84	84	84	84	84	84	84
9	85	85	84	84	84	84	84	84	84	84
9.5	85	85	84	84	84	84	84	84	84	84
10	85	85	85	84	84	85	85	85	84	85
10.5	85	86	85	85	85	85	85	85	84	85
11	86	86	85	85	85	86	86	86	85	86
11.5	86	87	86	86	85	87	87	86	85	86
12	87	88	86	86	86	87	87	87	86	87
12.5	87	89	87	87	86	88	88	87	86	87
13	88	89	87	87	87	88	89	88	87	88
13.5	88	90	88	88	87	89	90	89	87	88
14	89	92	89	88	88	90	91	90	88	89
14.5	90	92	89	89	88	91	92	91	89	90
15	90	93	90	90	89	92	92	92	89	91
15.5	92	95	91	90	89	92	93	93	90	92
16	92	96	92	91	90	93	95	94	91	93
16.5	93	97	93	92	91	94	96	95	92	94
17	94	99	94	93	92	95	97	96	92	95
17.5	95	100	95	94	93	96	98	97	93	96
18	96	101	96	95	93	97	99	98	94	97
18.5	97	103	97	95	94	98	100	99	95	98
19	98	104	98	97	95	99	102	101	96	99
19.5	100	106	99	97	96	100	103	102	97	100
20	100	107	100	98	97	101	104	103	98	101
20.5	102	109	101	99	98	103	105	104	99	102
21	103	111	102	100	99	104	107	105	100	103
21.5	104	112	104	101	101	105	108	107	102	105
22	105	114	105	102	102	107	109	108	103	106
22.5	106	116	107	103	103	109	110	109	104	107
23	108	117	109	104	105	110	112	111	105	109
23.5	109	119	110	105	107	112	113	112	107	110
24	110	121	112	106	109	114	115	113	108	112
24.5	112	123	114	107	110	116	116	115	110	114

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International Coatings Group

June 14, 2022

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 Average (°F)
25	113	124	116	108	112	117	118	116	111	115
25.5	114	126	117	109	114	119	119	118	112	116
26	115	128	119	111	116	121	121	119	114	118
26.5	117	129	121	112	117	122	123	121	115	120
27	118	131	123	113	119	124	124	122	116	121
27.5	119	132	124	115	120	126	126	124	118	123
28	121	134	126	116	122	127	127	126	119	124
28.5	122	135	128	117	123	129	129	127	121	126
29	123	136	129	119	124	130	130	129	122	127
29.5	125	138	131	120	126	132	132	130	124	129
30	126	139	133	122	127	134	133	132	125	130
30.5	128	140	134	123	128	135	134	133	126	131
31	129	142	135	125	129	136	136	134	128	133
31.5	130	143	137	126	131	137	137	136	129	134
32	132	144	138	128	132	139	138	137	130	135
32.5	133	145	140	129	133	140	139	139	131	137
33	134	146	141	131	134	141	141	140	133	138
33.5	136	147	142	132	135	142	142	141	134	139
34	137	149	144	133	136	144	143	143	135	140
34.5	138	149	145	135	137	145	144	144	137	142
35	139	150	146	136	138	146	145	146	138	143
35.5	141	151	147	137	138	147	146	147	139	144
36	142	153	148	139	139	148	148	148	140	145
36.5	144	154	149	140	140	150	149	150	142	146
37	145	155	151	141	141	151	150	151	143	148
37.5	146	156	152	142	142	152	151	153	144	149
38	148	157	153	144	143	153	152	154	146	150
38.5	149	158	154	145	144	154	153	156	147	151
39	150	159	155	146	145	155	155	157	148	152
39.5	152	160	157	147	146	156	156	159	150	154
40	153	161	158	149	147	157	157	160	151	155
40.5	154	162	159	150	147	158	159	161	152	156
41	156	163	160	151	148	159	160	163	154	157
41.5	157	164	161	152	149	160	161	164	155	158
42	158	165	163	153	150	161	163	165	156	159
42.5	159	166	163	154	150	163	164	166	157	160
43	161	166	165	156	151	163	165	167	159	161
43.5	162	167	165	157	152	165	166	168	160	162
44	163	168	166	158	153	166	168	169	161	164
44.5	165	169	168	159	154	167	169	170	162	165
45	166	170	168	160	154	168	170	171	163	166
45.5	167	171	169	161	155	169	171	172	165	167
46	169	172	170	163	156	171	173	174	166	168
46.5	170	173	171	164	157	173	174	175	168	169
47	171	174	172	165	158	175	176	176	169	171
47.5	173	176	173	167	159	177	177	177	170	172
48	174	177	174	168	160	179	179	178	172	173
48.5	175	178	175	170	161	181	180	179	173	175
49	176	179	176	171	162	183	182	180	175	176
49.5	178	180	177	173	164	185	183	181	177	178

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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 Average (°F)
50	179	181	178	175	165	187	185	182	178	179
50.5	180	182	179	177	166	189	186	183	180	180
51	181	183	180	179	168	191	188	184	182	182
51.5	182	184	181	181	169	193	189	185	183	183
52	183	185	182	183	171	195	191	186	185	185
52.5	184	186	183	185	174	196	192	187	187	186
53	186	187	184	187	177	198	194	188	188	188
53.5	187	188	185	188	179	200	195	189	189	189
54	188	190	186	189	181	201	195	190	191	190
54.5	189	191	188	190	184	202	196	191	192	191
55	190	192	189	191	186	203	197	191	193	192
55.5	192	193	190	193	188	204	198	192	193	194
56	193	195	192	194	190	205	199	193	194	195
56.5	194	196	193	195	191	206	200	194	195	196
57	196	197	194	196	192	207	200	195	195	197
57.5	197	199	195	198	193	208	201	196	196	198
58	198	200	196	199	194	209	202	197	196	199
58.5	199	201	197	201	195	210	202	198	197	200
59	200	203	198	203	196	213	203	200	198	202
59.5	201	205	199	204	198	216	204	201	199	203
60	202	207	201	206	200	219	204	203	200	205
Max Temp	202	207	201	206	200	219	204	203	200	205
Max Allowed	409	409	408	408	408	408	408	408	408	333

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International Coatings Group

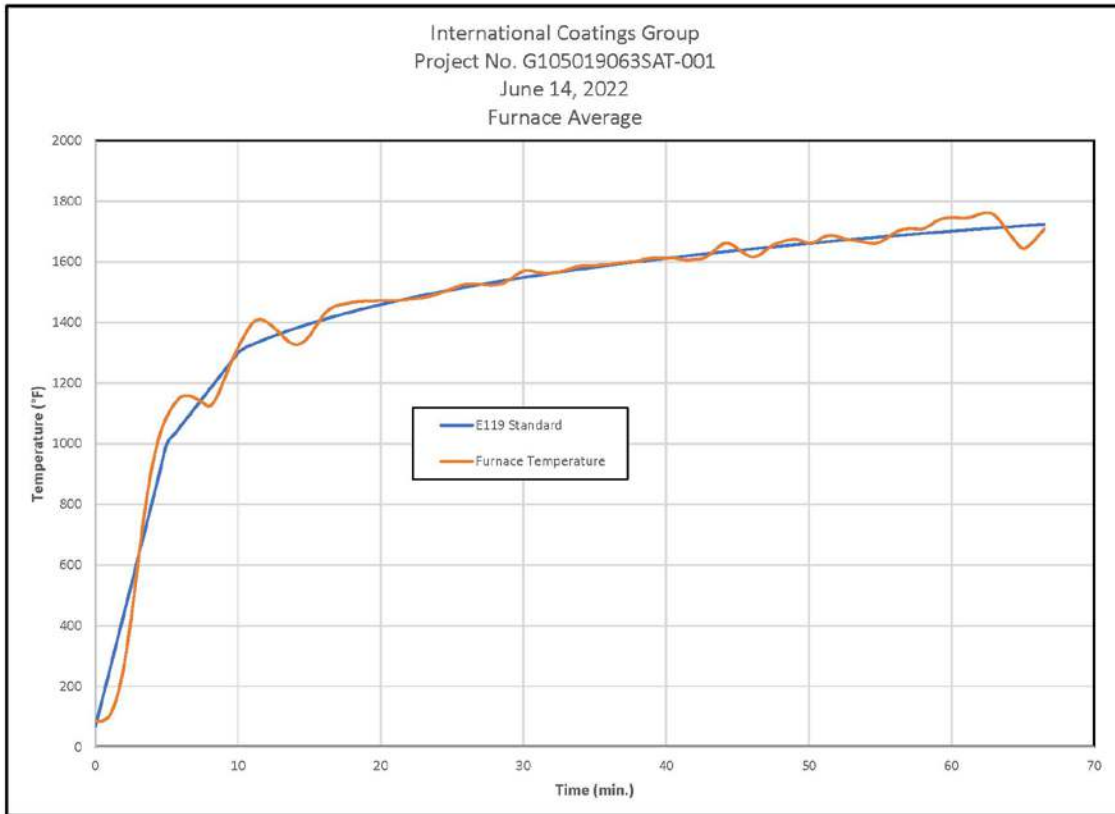
June 14, 2022

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 Average (°F)
60.5	203	211	202	208	202	220	205	204	200	206
61	204	213	203	211	206	221	205	206	200	208
61.5	205	219	205	213	209	221	206	208	201	210
62	208	225	206	217	214	222	206	210	202	212
62.5	210	229	209	221	220	224	207	212	203	215
63	214	235	211	226	227	228	208	215	204	219
63.5	217	245	213	233	235	233	209	220	205	223
64	220	264	216	241	248	240	210	227	207	230
64.5	223	296	221	253	268	250	211	240	210	241
65	229	344	227	271	299	264	213	267	214	259
65.5	236	406	238	297	343	281	213	296	219	281
66	248	574	254	331	398	301	215	337	227	321
66.5	266	922	274	374	567	325	216	415	239	400
Max Temp	266	922	274	374	567	325	216	415	239	400

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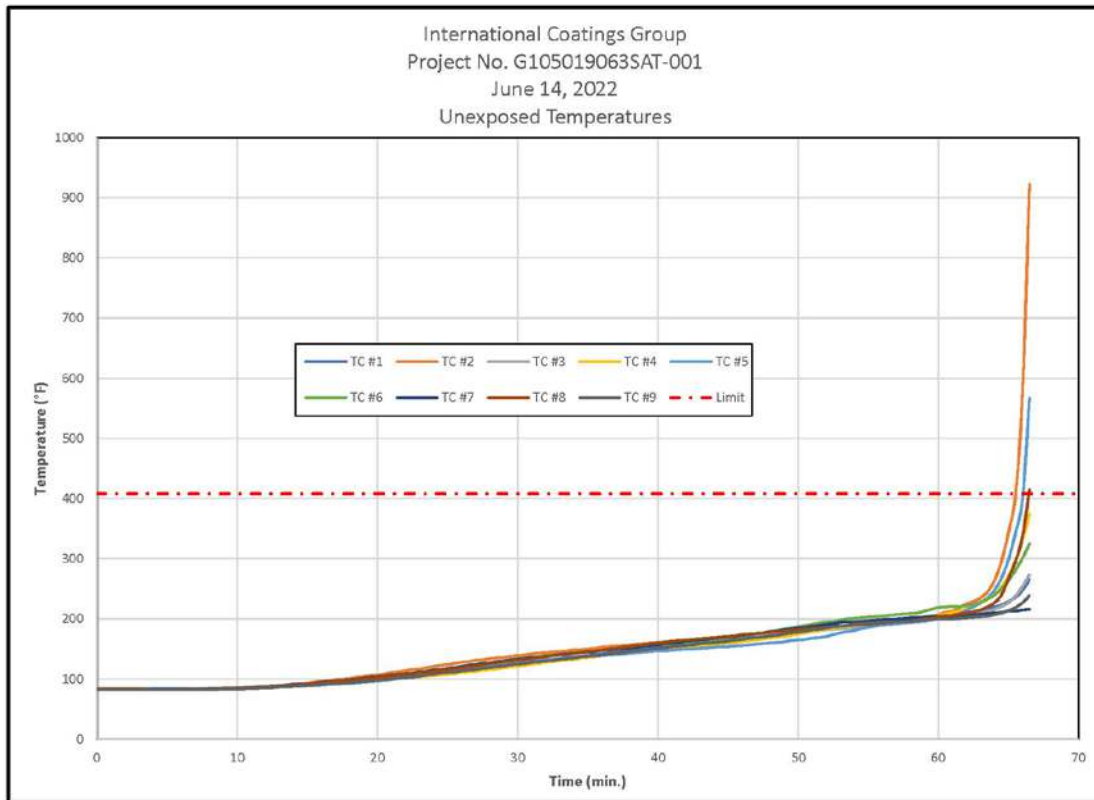
Date: 06/21/22



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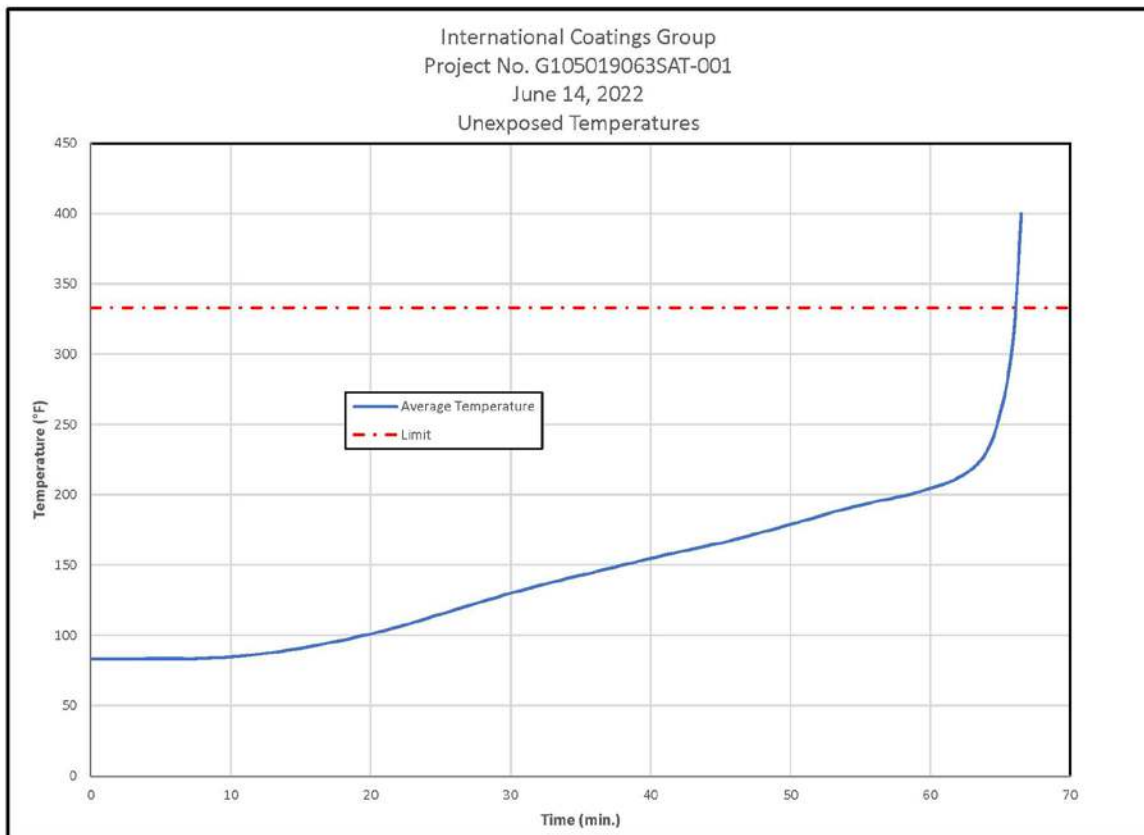
Date: 06/21/22



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Total Quality. Assured.

16015 Shady Falls Road
Elmendorf, Texas 78112

Telephone: 210-635-8100
Facsimile: 210-635-8101
www.intertek.com/building

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SECTION 12

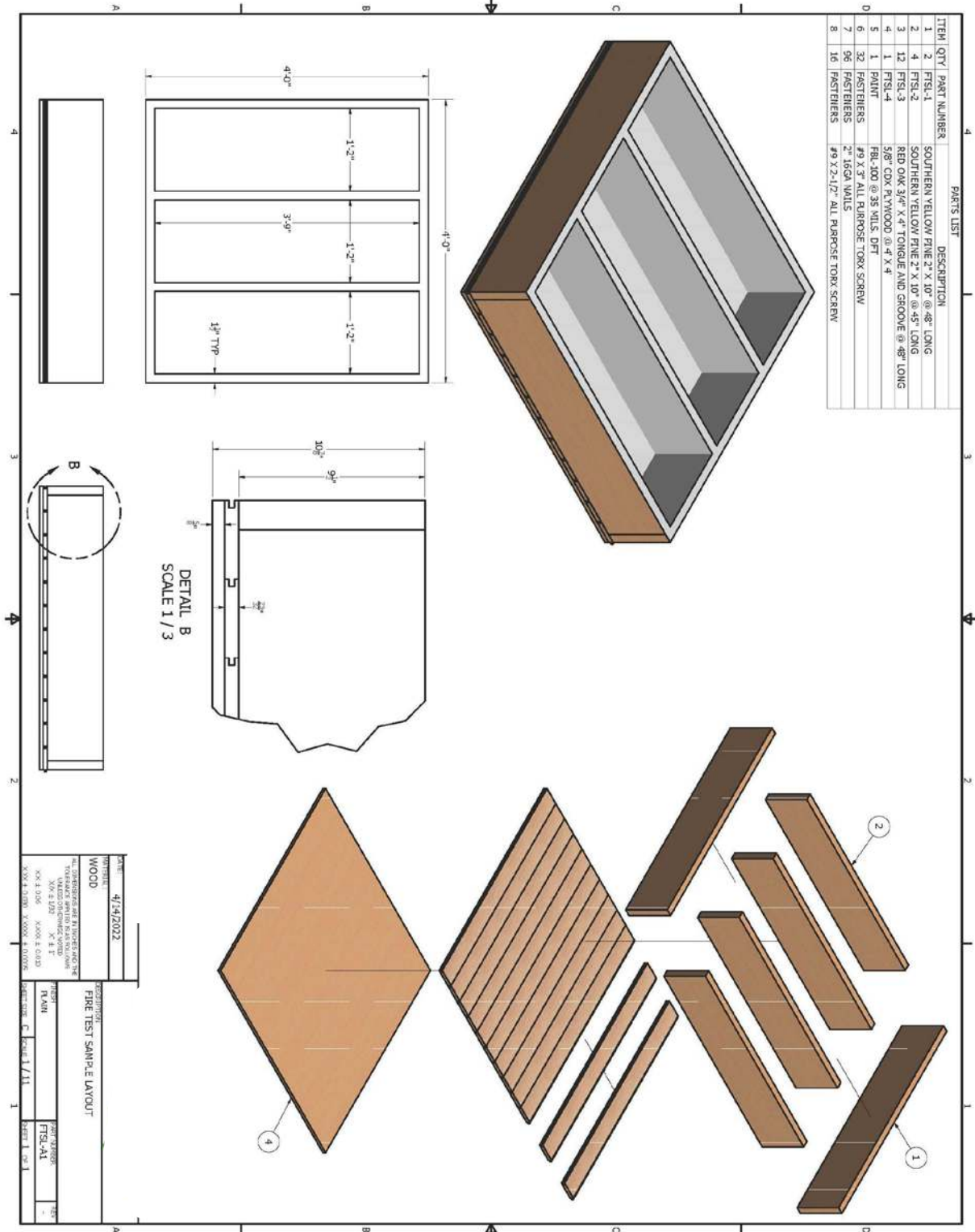
DRAWINGS

The "As-Built" drawings for the International Coatings Group; Sheet No. 1 of 1 and dated 4/14/2022; which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

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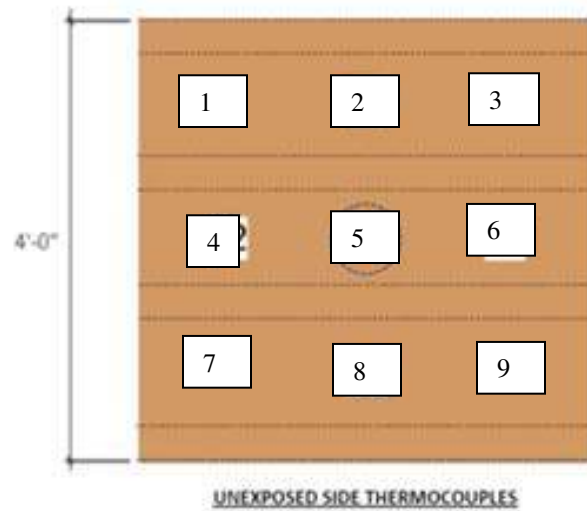


FIG. 1. – THERMOCOUPLE LAYOUT



Total Quality. Assured.

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SECTION 13

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	06/21/22	N/A	Original Report Issue