

# CHAMELEON WRAPPING AND LAMINATION LTD. TEST REPORT

#### **SCOPE OF WORK**

NFPA 285, TEST ON EXTERIOR NON-LOAD BEARING WALL ASSEMBLIES UTILIZING PVC CLADDING

## **REPORT NUMBER**

104549690SAT-002 REV.1

# TEST DATE(S)

01/14/21

ISSUE DATE

[REVISED DATE]

01/19/21

05/06/21

#### RECORD RETENTION DATE

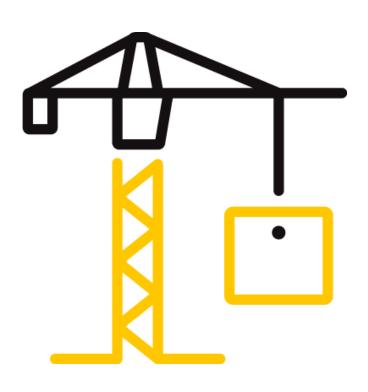
01/14/25

#### **PAGES**

33

#### **DOCUMENT CONTROL NUMBER**

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#### TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

#### **REPORT ISSUED TO**

#### CHAMELEON WRAPPING AND LAMINATION LTD

10235-184 Street Edmonton, AB T5S 2J4 CANADA

#### **SECTION 1**

#### SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by CHAMELEON WRAPPING AND LAMINATION LTD., 10235-184 Street, Edmonton, AB T5S 2J4, CANADA to perform testing in accordance with NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, on their PVC Cladding. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in Elmendorf, Texas, USA.

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.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

## **SECTION 2**

#### SUMMARY OF TEST RESULTS

The assembly described and tested in this report met the Conditions of Acceptance of NFPA 285-2019.

For INTERTEK B&C:

**COMPLETED BY:** 

Abel de Hoyos Senior Project Manager -

Fire Resistance

**SIGNATURE:** DATE:

01/15/21

**REVIEWED BY:** 

Mike Dey

TITLE:

Senior Project Engineer

**SIGNATURE:** 

DATE:

AAA:bbb

TITLE:

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#### **SECTION 3**

## **TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

**NFPA 285**, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, 2019 Edition

#### **SECTION 4**

## MATERIAL SOURCE/INSTALLATION

Samples were independently selected by a  $3^{rd}$  Party engineer for Building Science Engineering Ltd., on 12/01/20 at the Chameleon Wrapping and Laminating Ltd.'s manufacturing facility located at 10235-184 ST. NW, Edmonton, Alberta CANADA. The samples were received at the Evaluation Center on 12/29/20 and were assigned Intertek Sample ID No. SAT2012291334-001. The samples contained the mark of the inspector.

The subject test specimens are traceable samples selected from the manufacturer's facility. Intertek did not select the specimens and has not verified their composition, manufacturing techniques and quality assurance procedures.

#### **SECTION 5**

## **EQUIPMENT**

Description	Serial No.	Calibration Due Date
Stopwatch	160778695	08/12/21
DAQ Unit	99LE006	04/02/21
Thermo/Hygrometer	10361069	07/23/21

#### **SECTION 6**

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
David Smith	Element (MS Teams)
Amber Gunderson	ChamClad (MS Teams)
Tony Crimi	A.C. Consulting Solutions (MS Teams)
Hussein Elfeki	Intertek (Canada) (MS Teams)
Emmanuel Ogoe	Intertek B&C
Abel de Hoyos	Intertek B&C



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#### **SECTION 7**

#### **TEST PROCEDURE**

The wall assembly was instrumented with thermocouples (TCs) in accordance with Figures 6.1(a) and 6.1(b); Detail G, of NFPA 285-2019 test method. 18 GA, Type K TCs were used in the burn room and 24 GA, Type K were used on the exterior façade and air space. The window burner was positioned in the center of the opening and 4 in. off the exterior face of the wall assembly. Testing was performed on 01/14/2021 in accordance with NFPA 285-2019 test method. Ambient conditions were 57.3°F and 47.5% relative humidity. Video recording, digital photographs, visual observations, and data collection were performed prior, during, and after testing was completed. Temperature data was recorded every 15 seconds. The test was initiated at 09:40 a.m. with the burners on for 30 minutes. All observations are recorded in the table located in Section 8. The apparatus is under calibrated conditions when the time average temperatures and the time average heat flux readings obtained for a calibration wall match the requirements of Table 7.1.11 of NFPA 285-2019.

#### **SECTION 8**

#### TEST SPECIMEN DESCRIPTION

The CHAMELEON WRAPPING AND LAMINATION LTD., PVC Cladding System consisted of a base wall (20 GA metal studs and track (16 in. oc) R-11 Batt Insulation and 5/8 in. exterior sheathing), WRB, 1-1/2 in. 20 GA hat-channel, PVC exterior panels and aluminum trim extrusions.

<u>Base Wall</u> – 20 GA. Metal studs and track spaced 16 in. oc, with R-11 Batt insulation in stud cavities. Stud and track were secured using 1/2 in. long #8 self-tapping screws.

<u>Exterior Sheathing</u> – Georgia Pacific 4 ft. by 10 ft. by 5/8 in. thick, ASTM C1177 Compliant, DensGlass Gold Exterior Sheathing, installed with the long dimension perpendicular to the metal studs. Exterior sheathing was secured using 1-1/4 in. long #8 self-tapping screws.

<u>Air and Moisture Barrier</u> – Dupont<sup>™</sup> Tyvek<sup>®</sup> Commercial Wrap<sup>®</sup> - 5 ft. wide rolls. Air and Moisture barrier was secured using staples.

<u>Hat Channel</u> – 20 GA, 1-1/2 in. installed vertically. Hat Channel was secured using 1-1/4 in. long #8 self-tapping screws at 12 in. oc, on only one side of the hat channel.

<u>Panels</u> – Chameleon ChamClad 6 in wide PVC panels, installed horizontally and secured every 16-in. Panels were secured with 3/4 in. long, #8 pan head, self-tapping screws.

The assembly was completed on 01/13/21.

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## **SECTION 9**

#### **TEST OBSERVATIONS**

TIME	OBSERVATIONS
(Min:Sec)	
00:00	Ignition of room burner. Test started at 09:40 a.m.
01:00	Soot beginning to coat panels directly above window
01:44	Flames coming out of burn room
02:00	Window flashing beginning to deform
03:30	Buckling of flashing on header
05:00	Window burner on
06:50	Charring of panels directly above window
07:40	Panel at approximately 2 ft. above window melts apart
09:15	Melted section falling
09:40	Flare up on panels
11:00	Flaming debris falling
11:30	Panel sections directly above window opening have melted all the way up wall
15:00	Lateral melting only to window opening edges
18:00	No visible changes
20:00	Sample stable no changes
25:00	Small sections continue to fall
30:00	End of test, small area above window continues to burn

#### **SECOND FLOOR OBSERVATIONS**

TIME	OBSERVATIONS
(Min:Sec)	
00:00	Ignition of room burner. Test started at 09: 40 a.m.
05:00	Window burner lit
08:00	Light smoke, room visibility at 90%
11:30	Smoke coming from middle and right side at floor line
13:30	Smoke increasing, room visibility at 80%
17:00	Smoke decreasing, room visibility at 90%
23:00	No visible changes
28:00	No changes, smoke at a minimum
30:15	Burner off, end of test

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## **SECTION 10**

## **TEST RESULTS**

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Flames did not reach 10 ft. above the	Flames did not reach 10 ft. above the	PASS
window opening header.	window opening header.	
Flames did not reach a lateral distance	Flames did not reach a lateral distance	PASS
of 5 ft. from the vertical centerline.	of 5 ft. from the vertical centerline.	1 A33
Flames did not propagate beyond the	Flames did not propagate beyond the	PASS
limits of the first story test room.	limits of the first story test room.	PASS
No visible flaming in the second story	No visible flaming in the second story	PASS
test room	test room.	PASS
TC's 11 and 14-17	TC's 11 and 14-17 did not exceed their	PASS
(1000°F limit)	1000°F limit.	PASS
TC's 18-19, 28, and 31-40	TC's 18-19, 28, and 31-40 did not exceed	DACC
(1000°F limit)	their 1000°F Limit.	PASS
TC's 49-54	TC's 49-54 did not exceed 500°F above	DACC
(500°F above ambient)	their ambient temperatures.	PASS

The assembly described and tested in this report  $\underline{\text{met}}$  the Conditions of Acceptance of NFPA 285-2019

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## **SECTION 11**

#### **PHOTOGRAPHS**



Photo No. 1
Rear-View of Wall, Prior to Insulation and Gypsum Installation



Photo No. 2
Window Trim Installation Sans Window Flashing



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Photo No. 3 Finished View of PVC Cladding Installation



Photo No. 4
View of Wall Shortly after Start of Test



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Photo No. 5 View During Test



Photo No. 6 View During Test



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Photo No. 7
View Prior to End of Test



Photo No. 8
Post Test View



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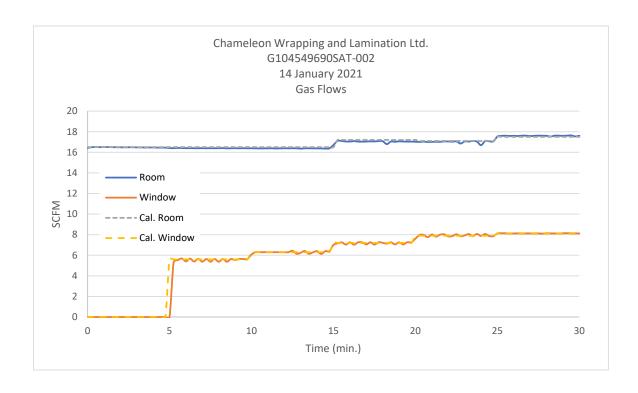
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## **SECTION 12**

#### **GRAPHS**

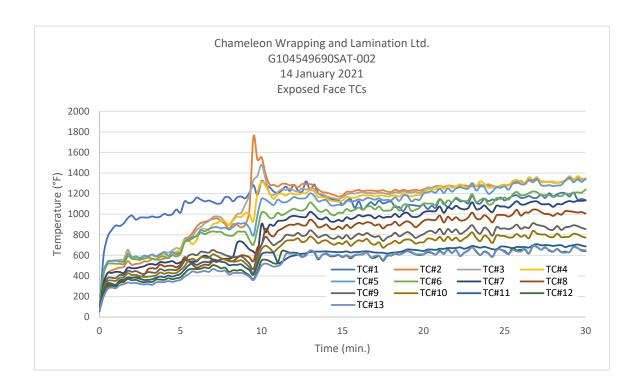




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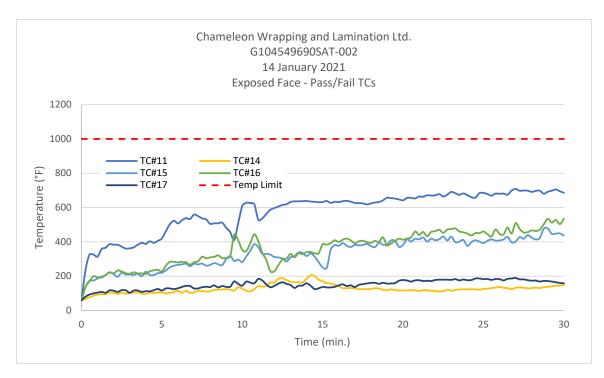




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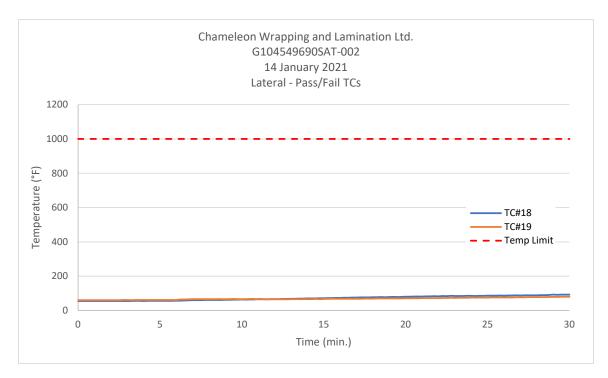




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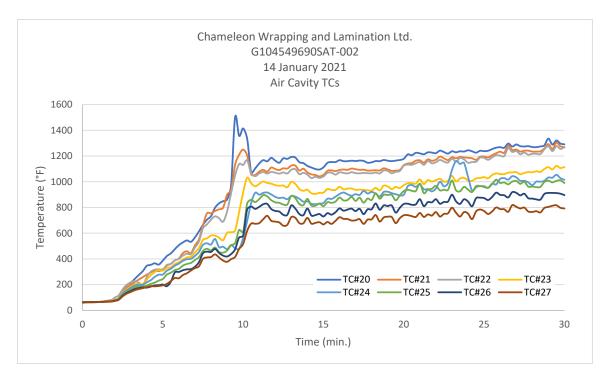




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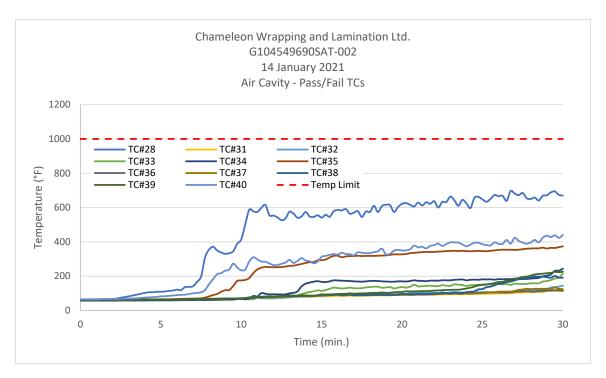




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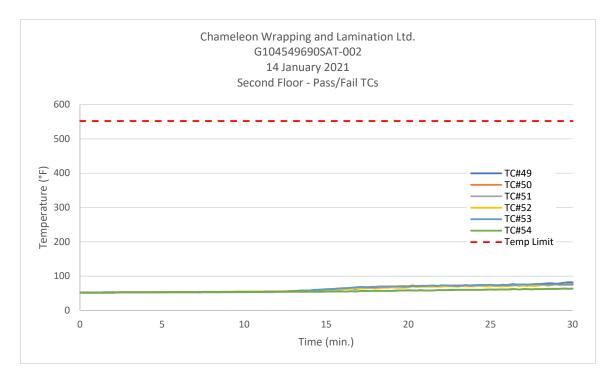




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#### **SECTION 13**

#### **NUMERICAL DATA**

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd. 14-Jan-2021

												D /		
												Pass/ Fail		
Time		TC#1	TC#2	TC#3	TC#4	TC#5	TC#6	TC#7	TC#8	TC#9	TC#10	TC#11	TC#12	TC#13
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
,,		( . ,	( . /	( . /	( ' /	( . /	( . /	١٠,	( - /	( . /	( ' /	( ' /	( - /	( . /
	0	60	56	56	55	55	55	57	60	57	58	60	59	62
	0.25	595	310	421	420	437	416	328	205	282	269	235	256	195
	0.5	777	427	540	532	536	512	428	286	377	348	325	307	272
	0.75	845	453	547	548	544	520	429	301	383	356	325	311	286
	1	890	469	547	552	550	518	440	313	379	352	314	298	280
	1.25	885	481	557	548	540	518	438	334	410	381	357	338	308
	1.5	911	488	564	554	544	517	429	342	409	388	366	352	320
	1.75	962	544	655	632	616	591	481	373	450	426	386	370	335
	2	987	508	577	570	581	567	475	380	440	408	383	358	330
	2.25	947	518	573	568	590	561	476	389	446	410	383	361	33:
	2.5	967	521	554	567	576	558	485	389	429	397	372	346	322
	2.75	968	541	590	596	596	567	494	409	418	390	361	339	317
	3	967	542	584	595	591	576	512	466	437	392	362	344	320
	3.25	978	565	603	600	609	568	516	476	433	397	368	341	313
	3.5	969	558	594	583	591	559	509	472	433	406	383	364	337
	3.75	976	558	616	594	608	584	536	511	467	432	394	364	340
	4	1003	570	632	611	631	588	530	492	451	421	388	362	340
	4.25	989	579	627	595	596	573	535	499	460	432	403	377	350
	4.5	1000	611	648	617	630	600	544	499	459	425	394	368	342
	4.75	1045	627	672	639	610	589	522	484	458	430	406	377	352
	5	1015	632	670	647	626	613	533	512	487	458	420	387	36:
	5.25	1123	757	760	739	726	726	563	583	545	494	462	424	393
	5.5	1108	778	753	740	743	757	542	547	597	552	503	461	417
	5.75	1118	822	793	709	765	778	541	507	611	565	523	468	444
		1161	879	846	751	793	784	542	481	601	551	507	466	433
		1142	914	874	846	845	820	578	496	634	581	526	470	440
		1124	925	911	858	833	805	597	511	631	578	538	483	448
		1132	941	934	843	858	823	583	507	626	576	533	475	439
	7	1117	953	972	901	870	832	559	541	652	610	559	504	467
	7.25 7.5	1102 1108	960 936	979 967	912 935	876 862	827 827	550 559	536 562	632 622	594 573	550 537	495 474	452
		1164	904	925	935	870	801	567	559	603	561	537	480	451
		1162	860	897	895	851	791	569	544	590	554	505	439	413
	8.25	1125	904	951	939	876	791	589	545	581	538	508	455	428
	8.5	1163	895	1000	974	911	828	723	574	586	542	508	452	428
	8.75	1171	872	1014	972	908	829	735	601	590	552	512	457	429
	9	1154	899	1095	1011	912	824	703	596	561	523	482	432	415
		1206		1180	1000	866	751	658	581	520	483	457	403	39:
	9.5	1282			933	793	703	637	544	467	428	411	367	359
	9.75	1187			1207	991	855	611	675	615	556	510	447	425
	10	1323		1479		1149	1014	903	702	702	658	609	548	500
	10.25	1283	1391			1141	1011	822	856	780	692	627	557	520
	10.5		1289			1114	964	897	804	737	669	626	544	507
	10.75	1220		1186	1147	1089	967	888	785	698	632	618	523	490
					1191			933	836	723	668	528	526	496
								500	500	. 23	000	520	220	,,,,



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Chameleon Wrapping and Lamination Ltd.

												Pass/		
												Fail		
Time		TC#1	TC#2	TC#3	TC#4	TC#5	TC#6	TC#7	TC#8	TC#9	TC#10		TC#12	TC#13
(min)			(°F)	(°F)						(°F)			(°F)	(°F)
		, ,					, ,		, ,		, ,	, -,		, ,
	11.25	1232	1293	1243	1198	1119	990	937	857	749	700	537	640	522
	11.5	1268	1295	1233	1181	1116	1009	945	881	797	739	563	639	612
	11.75	1226	1281	1250	1202	1138	1034	974	898	796	746	587	626	617
	12	1286	1283	1230	1194	1168	1053	984	896	792	748	597	626	614
	12.25	1230	1260	1219	1191	1154	1039	978	908	818	765	606	619	608
	12.5	1216	1294	1252	1202	1153	1034	972	892	789	728	615	587	582
	12.75	1319	1289	1238	1204	1160	1057	974	893	797	741	619	605	600
	13	1231	1292	1252	1233	1203	1114	1023	947	843	782	632	647	644
	13.25	1289	1276	1246	1220	1179	1080	998	921	815	757	636	628	634
	13.5	1205	1242	1201	1168	1125	1033	959	873	775	717	636	561	571
	13.75	1184	1215	1194	1166	1135	1023	951	880	791	739	637	605	601
	14	1170	1210	1175	1155	1137	1043	969	900	799	745	638	614	619
		1151						931	862	770	719	635	591	598
		1137					989	928	854	761	703	633	592	599
	14.75	1136	1172	1146	1120	1093	1015	945	879	784	722	631	602	606
	15	1092	1181	1165	1132	1090	1012	933	858	763	710	632	583	587
		1126						970	896	796	737	638	598	602
		1146						953	866	759	692	627	571	583
	15.75	1061						967	896	786	723	633	600	605
	16			1211				991	916	811	746	632	607	609
		1044						978	906	795	737	637	610	613
		1082						989	921	817	759	639	625	625
	16.75							986	915	793	717	634	579	581
	17			1201				960	890	778	703	627	577	592
		1132						982	901	785	726	626	594	597
		1104						966	862	740	673	624	547	557
		1116 1123						974	892	773	701	618	595	605
	18 18.25							974 1003	899 926	788 819	717 741	624 629	598 616	595 622
		1069						973	889	784	717	632	607	609
	18.75			1221				1007	915	806	744	642	626	621
	19			1212					931	826	755	657	640	641
	19.25			1209			1031	979	910	805	746	655	627	632
	19.5			1217				972	873	769	714	652	610	613
	19.75			1205		1139		984	901	788	725	647	603	610
	20			1227					935	806	727	642	610	613
	20.25		1255			1213			948	830	762	656	630	641
	20.5			1256					944	837	760	656	623	627
	20.75			1267		1209			945	817	746	653	608	609
	21	1143	1273	1276	1274	1250	1148	1075	986	857	779	664	645	635
	21.25	1106	1266	1258	1247	1207	1093	1013	919	805	739	663	614	620
	21.5	1071	1278	1276	1278	1253	1134	1067	975	855	780	671	658	650
	21.75	1114	1270	1276	1257	1219	1117	1051	942	825	746	670	623	622
	22	1149	1267	1268	1267	1249	1160	1081	970	852	771	671	651	650



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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

Max Allw

G104549690SAT-002

Chameleon Wrapping and Lamination Ltd.

14-Jan-2021

												Pass/		
												Fail		
Time		TC#1	TC#2	TC#3	TC#4	TC#5	TC#6	TC#7	TC#8	TC#9	TC#10	TC#11	TC#12	TC#13
(min)		(°F)	(°F)	(°F)	(°F)									
	22.25	1125	1276	1288	1289	1262	1138	1057	940	809	738	678	593	594
	22.5	1128	1280	1273	1270	1251	1125	1047	941	827	761	664	624	622
	22.75	1104	1273	1263	1259	1249	1134	1059	967	860	788	675	648	644
	23	1176	1270	1283	1302	1300	1195	1116	1015	893	823	691	680	677
	23.25	1111	1270	1273	1275	1230	1117	1049	960	839	768	683	635	642
	23.5	1103	1275	1289	1318	1270	1138	1055	952	810	738	674	603	603
	23.75	1149	1280	1277	1294	1262	1151	1085	989	869	792	682	637	632
	24	1127	1275	1291	1257	1198	1095	1047	963	842	767	672	620	616
	24.25	1142	1277	1277	1259	1222	1102	1020	920	791	720	660	585	585
	24.5	1138	1267	1262	1263	1260	1157	1082	987	873	793	658	659	648
			1278						992	859	789	684	656	657
	25	1134	1274	1275	1288	1272	1162	1075	991	862	787	685	642	630
	25.25	1156	1287	1282	1276	1239	1142	1064	977	854	773	678	616	611
	25.5	1176	1299	1302	1322	1297	1190	1096	998	870	776	669	671	652
	25.75	1184	1302	1309	1332	1316	1216	1126	1042	898	807	681	649	639
	26	1158	1314	1325	1315	1293	1183	1096	986	857	780	680	655	636
	26.25	1161	1304	1304	1302	1292	1186	1095	1015	874	794	681	656	663
	26.5	1177	1328	1341	1358	1330	1204	1112	1017	866	766	675	617	620
	26.75	1159	1309	1318	1332	1327	1220	1123	1044	912	837	699	689	697
	27	1159	1336	1347	1359	1344	1213	1124	1042	896	811	708	683	678
	27.25	1191	1320	1316	1312	1284	1182	1099	1020	888	802	698	654	655
			1316							877	802	699	679	673
			1315						1000	851	779	698	645	652
	28	1173	1307	1317	1314	1274	1166	1072	983	849	778	691	636	639
	28.25	1194	1306	1305	1308	1280	1178	1099	1008	884	810	697	662	658
	28.5	1207	1313	1310	1316	1284	1174	1096	995	847	777	698	632	628
			1327							872	778	680	636	627
	29	1172	1346	1368	1365	1355	1197	1128	1028	877	781	692	630	633
			1340							892	809	698	684	680
	29.5	1144	1347	1354	1369	1339	1212	1130	1016	884	803	705	671	668
			1337							867	783	695	646	653
	30	1136	1336	1339	1341	1347	1240	1135	1005	855	772	686	641	649
Max 1	Tomn											708		
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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd. 14-Jan-2021

		Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
		Fail	Fail	Fail	Fail	Fail	Fail								
Time							TC#19								TC#27
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	0	59	57	59	58	55	60	58	60	61	63	63	64	64	64
	0.25	68		136	80	55	60	61	62	63	64	64	64	64	64
	0.5	77	173	170	93	55	60	62	63	64	65	65	65	65	65
	0.75	86	174	199	99	55	60	63	64	65	65	65	65	65	66
	1	92	-0.0	193	104	55	60	65	65	66	66	66	66	66	66
	1.25	95	196	192	108	55	60	69	69	67	68	67	67	66	67
	1.5	94	206	206	103	55	60	73	74	69	70	69	68	67	68
	1.75	104	221	223	117	55	60	78	80	73	72	71	70	69	68
	2	102	212	216	115	55	60	83	81	99	84	80	77	75	73
	2.25	96	196	233	108	55	60	94	89	117	95	91	86	84	82
	2.5	104	220	227	118	55	60	160	144	164	137	132	122	114	109
	2.75	98	209	217	117	55	61	197	179	196	164	156	143	136	130
	3	101	210	214	103	55	61	215	199	219	184	176	160	151	143
	3.25	104	207	222	116	55	60	244	220	228	202	193	179	166	157
	3.5	105	214	216	116	56	61	275	240	216	207	200	186	173	166
	3.75	98	200	216	108	56	61	304	259	194	205	200	185	178	173
	4.25	96 104	226 206	213 228	112 111	55 56	61 61	346 354	278 296	259 301	239 273	219 235	193 206	177 185	180 189
	4.25	104		234	118	56	61	366	309	317	298	261	216	194	187
	4.75	105	217	237	125	56	61	356	306	320	314	278	232	196	190
	5	105	219	228	116	56	61	387	317	320	309	279	244	201	195
	5.25	99	234	261	128	56	61	422	353	348	330	309	278	188	206
	5.5	103	251	283	128	56	61	443	362	363	336	324	293	223	228
	5.75	108	260	283	124	56	61	476	389	390	361	348	313	295	252
	6	114	266	280	129	57	61	507	404	401	374	364	323	299	250
	6.25	104	268	283	137	57	64	528	446	426	395	386	348	312	275
	6.5	114	273	281	143	58	64	544	460	441	412	398	361	319	289
	6.75	103	258	266	142	59	65	533	446	438	417	401	369	321	310
	7	105	272	281	128	60	66	567	506	489	450	424	392	339	329
	7.25	114	268	286	128	60	66	614	554	536	485	455	414	375	343
	7.5	113	273	313	135	60	66	665	662	639	549	510	463	444	401
	7.75 8	110 112		304 309	138 136	61 61	66 66	705 732	755 755	669 705	560 582	522	479 466	457 454	412 415
	8.25	120		312	146	61	66	798	773	732	581	512 556	489	478	436
	8.5	121		321	134	61	66	832	786	717	566	492	454	447	412
	8.75	122		305	142	61	66	849	798	690	546	496	449	426	388
	9	124	299	306	137	62	66	862	900	769	603	477	465	419	378
	9.25	120	317	316	138	62	66	973	939	911	608	508	507	438	399
	9.5	116	288	442	169	63	67	1502	1133	1050	621	484	523	475	416
	9.75	135	296	408	154	63	66	1357	1210	1138	764	480	626	567	478
	10	127	282	352	144	64	66	1415	1251	1131	917	563	612	582	517
	10.25	115	315	346	168	63	66	1335	1205	1167	1031	694	831	784	619
	10.5	110	348	392	162	64	67	1074	1058	1068	989	836	860	807	675
	10.75	124	386	444	158	64	67	1104	1054	1044	965	915	842	789	674
	11	142	368	402	184	66	65	1142	1079	1065	984	900	865	805	679



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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd. 14-Jan-2021

		Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
		Fail	Fail	Fail	Fail	Fail	Fail								
Time		TC#14	TC#15	TC#16	TC#17	TC#18	TC#19	TC#20	TC#21	TC#22	TC#23	TC#24	TC#25	TC#26	TC#27
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	11.25		329	335	174	66	65	1168	1093	1076	1002	914	896	825	709
	11.5		330		151	65	65	1159	1079	1064	991	917	886	828	736
	11.75		325	228		66	65	1186	1111	1077	985	902	857	788	697
	12		311	229	143	66	65	1164	1099	1071	974	883	840	773	691
	12.25		309		156		65	1148	1091	1064	969	874	836	768	684
	12.5		302		164	67		1182	1105	1073	971	877	823	743	659
	12.75		285	302		67		1178	1103	1065	957	865	823	743	666
	13		309				66	1193	1126	1094	999	890	890	816	726
	13.25		317				66	1188	1126	1098	983	885	872	791	720
	13.5		338			69		1152	1088	1059	943	868	827	749	679
	13.75			327	145	69		1145	1102	1070	930	846	818	740	678
	14		317					1123	1073	1055	938	848	867	792	720
	14.25		333	341		70		1111	1058	1029	911	829	815	737	675
	14.5		313	333	124 129	70 71		1099	1053 1042	1040 1030	906	826 830	814 831	741 749	681 686
	14.75 15		281 250	334 386	137		66 67	1095 1112	1054	1042	914 916	835	810	730	669
	15.25		247	383	134	72		1147	1085	1042	944	869	841	756	688
	15.5		353	392		72		1154	1089	1009	937	867	836	744	673
	15.75		381	409	137	73	68	1153	1083	1056	937	884	846	763	697
	16		377	399			68	1168	1092	1074	961	905	877	793	725
	16.25		392				68	1160	1096	1069	941	917	855	775	712
	16.5		377	419			68	1160	1093	1065	947	903	858	784	711
	16.75		370		146		68	1164	1103	1075	948	892	882	791	699
	17		382		136		68	1161	1098	1067	937	904	851	772	701
	17.25		379		149		68	1165	1093	1066	939	898	876	790	710
	17.5		382					1162	1094	1069	936	929	837	748	673
	17.75		388	398	157	76	69	1148	1087	1067	934	909	870	786	707
	18	126	375	394	160	77	69	1151	1088	1066	932	921	858	786	708
	18.25	129	369	405	161	77	70	1161	1090	1072	953	909	910	831	742
	18.5	128	394	400	155	78	70	1160	1088	1065	933	886	868	782	691
	18.75	120	383	426	161	77	70	1169	1105	1088	970	921	899	816	723
	19	117	382	380	156	78	70	1164	1096	1085	964	923	897	811	729
	19.25	123	408	390	157	79	70	1160	1085	1066	944	912	898	815	726
	19.5	118	405	405	159	78	70	1165	1087	1078	960	904	856	760	679
	19.75	117	370	418	173	79	70	1169	1092	1084	951	895	894	797	717
	20	116	382	412	177	80	71	1179	1129	1125	974	900	928	827	740
	20.25	117	415	419	174	80	71	1213	1142	1134	989	966	937	829	741
	20.5	118	401	426	168	81	71	1206	1146	1132	989	975	930	821	733
	20.75		418	460	175	81	71	1225	1164	1144	986	961	928	824	727
	21		414	440	176			1221	1167	1154	1018	981	985	864	758
	21.25		425	457				1214	1149	1132	982	942		810	727
	21.5		401	432		82		1229	1175	1162	1013	943	939	842	747
	21.75		418				72	1227	1163	1144	1002	926	946	840	738
	22	113	409	461	177	82	72	1222	1172	1152	1013	948	968	864	765



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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

G104549690SAT-002	Chameleon Wrapping and Lamination Ltd.	14-Jan-2021

	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
	Fail	Fail	Fail	Fail	Fail	Fail								
Time	TC#14	TC#15	TC#16	TC#17	TC#18	TC#19	TC#20	TC#21	TC#22	TC#23	TC#24	TC#25	TC#26	TC#27
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
22.	25 111	415	470	179	84	73	1242	1196	1170	1023	1001	933	829	730
22	.5 113	431	452	179	83	73	1231	1182	1157	1001	965	938	843	751
22.			471	179	85	74		1169	1150	1008		937	846	755
	23 115	430	474	178	84	73	1237	1191	1180	1046	1093	1010	899	799
23.	25 119	398	478	182	84	74	1229	1183	1157	1003	1161	934	848	760
23		401		175	84	74		1193	1185	1025	1139		828	730
23.				180	85	74		1189	1174	1031			864	765
	123			176	85	75	1245	1187	1148	1010			846	753
24.				177	84	75	1237	1183	1154	1008			809	710
24				186	85	75	1226	1171	1156	1026			872	770
24.				186	85	75	1241	1195	1188	1030			876	785
	<b>25</b> 126			182	86	75	1238	1196	1186	1036			873	773
25.				183	86	76	1241	1190	1171	1027			858	750
25				178	86	76		1207	1190	1053			882	770
25.				183	87	76		1222	1207	1065			915	801
	26 137			182	86	76		1234	1203	1060		991	898	788
26.				175	87	76		1226	1200	1060		995	895	787
26				184	87	76	1297	1281	1262	1071		980	878	767
26.				186	88	77	1274	1247	1232	1073	1044	1001	919	819
27.	27 132 25 134			189 181	87 88	77 77	1290 1277	1251 1235	1240 1214	1075 1058	1035 1008	1006 984	914 894	806 793
27				181	88	78		1242	1214	1069		1000	907	800
27.				176	88	78	1277	1242	1211	1075	996	962	872	769
	28 130			173	88	78	1270	1235	1218	1073			869	766
28.				174	89	78		1235	1218	1082			863	772
28				168	89	78		1237	1216	1077			861	762
28.				172	90	79		1259	1253	1100		998	905	797
	29 137			171	92	79	1336	1293	1277	1114		1009	913	805
29.				168	91	79	1289	1254	1239	1096		995	913	814
29				164	92	80	1321	1305	1277	1124	1055	1007	912	818
29.				160	92	80	1297	1276	1256	1107	1029		907	798
	30 148			158	92			1270	1268	1115	1016	990	896	793
Max Tem	205	478	534	189	92	80								
Max Allw	1000	1000	1000	1000	1000	1000								



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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd.

		Pass/			Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
		Fail			Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Time		TC#28	TC#29	TC#30				TC#34	TC#35		TC#37	TC#38		TC#40
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
		` '			•		` '				, ,	, ,	• •	• •
	0	64	64	65	58	58	59	58	60	61	62	62	62	65
	0.25	64	64	64	57	58	59	58	60	61	62	62	62	65
	0.5	64	66	64	57	58	59	58	60	61	62	62	63	65
	0.75	65	68	65	57	58	59	58	60	61	62	62	63	65
	1	65	69	66	58	58	59	58	60	61	62	62	63	65
	1.25	65	70	67	58	58	59	58	60	61	62	62	63	66
	1.5	66	69			58	59		60	61			63	
	1.75	66	69				59		60	62				
	2		71			58	59		60	62				
	2.25	69	79				59		60	61				
	2.5	74	102		58	59	59		61					
	2.75	78	123				59		61					
	3		138				59		63	62				
	3.25	87	149				59		63					
	3.5	92	156				60		63	62				
	3.75 4	97	161				60		63	62				
	4.25		168 176		58 59	59	60 60		64 64	63				
	4.25	106 106	182			59 59	60		64	63 63				
	4.75	100	181				60		64	63				
	5	109	174				60		65	63				
	5.25	110	173				60		65	63				
	5.5	114	169				60		65	63				
	5.75	116	171				61		66	63				
	6	121	178				61		67	63				
	6.25	118	223	134	60	60	61		68	64	64	65	65	
	6.5	136	258	139	60	61	61	61	68	64			66	92
	6.75	137	272	157	60	61	61	61	69	65	65	66	66	96
	7	141	286	173	61	62	62	61	69	66	66	66	67	100
	7.25	166	298	195	61	62	62	62	70	66	66	67	67	102
	7.5	197	357	221	61	62	62	62	71	66	67	67	68	106
	7.75	310	385	219	61	62	62	62	75	67	67	67	68	119
	8		392				63		82					
	8.25	371	408				63		90	68				
	8.5	350	393	213			63		96	68				
	8.75	338	375	204			63	63	109	68				
	9	330	374				64		118					
	9.25	334	387			64	64		119	69				
	9.5	345	396			64	64		143	69				
	9.75	389	438 455	245 255	68 67	69 67	68 67		172 175	70 70				
	10 10.25	414 503	535	317			66		175	70				
	10.25	588	669				66		189	74				
	10.5	578	672				68		218					
	11	574	643		76		75	82	239					
		5,4	043	720	/0	//	, 5	32	233	13	13	/0	13	230



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# TEST REPORT FOR CHAMELEON WRAPPING AND LAMINATION LTD.

Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd.

		Pass/			Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
		Fail			Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Time		TC#28						TC#34			TC#37		TC#39	
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	11.25	599	671	440	73	73	77	101	249	75	74	76	80	285
	11.25	615	692	425	73	73		98		80	79	80	82	
	11.75	555	643	430	71	71		94		80	79	80	82	
	12	553	647	439	71	71		95	252	80	79	80	81	
	12.25	543		422	74	74	10.00	94		81	80	81	83	265
	12.5	526		410	73	73		94		81	81	83	85	
	12.75	536		411	75	75	79	94	256	82	81	84	87	
	13	576		437	76	77		100		84	82		88	
	13.25	564	644	426	80	80		103		83	82		87	
	13.5	540		404	80	80		112		83	82		87	
	13.75	548	-	411	81	82		141		84	82		88	
	14	574		424	80	82		156		84	83		88	
	14.25	548		412	80	82		163	281	84	83	85	87	
	14.5	545	607	405	82	85	111	168	282	85	83	85	87	275
	14.75	555	634	418	82	86	117	171	292	89	86	88	89	285
	15	541	609	406	81	84	114	167	293	92	90	92	94	313
	15.25	558	623	413	82	86	119	166	297	92	90	91	93	318
	15.5	546	599	406	84	89	126	170	309	92	90	91	94	324
	15.75	578	634	421	85	90	133	176	318	93	90	92	95	329
	16	586	640	422	86	90	130	175	319	93	91	93	96	325
	16.25	583	641	425	85	89	128	174	310	90	88	91	97	336
	16.5	591	659	436	85	90	129	173	315	91	89	91	97	329
	16.75	564	618	418	87	94	133	172	317	92	91	93	100	328
	17	570		424	86	92		170		90	88		98	
	17.25	579		434	86	94		169		90	88		99	
	17.5	545		416	86	91		168		90	88			
	17.75	577	631	433	87	93		170		90	88	91	100	
	18	574		430	87	93		172		91	89	92		
	18.25	610		449	88	95	138	173		92	90	92		340
	18.5 18.75	574 609		434 448	89 89	94 96		172 170		91 92	89 89	92 92		345 360
	19	616		455	89	95	134	169		91	89			327
	19.25	614		457	89	95	136	168		91	89	91		330
	19.5	574		439	89	94		168		92	90		104	349
	19.75	603	645	447	90	96		170		93	90		108	353
	20	622		454	90	98		170		94	92		108	
	20.25	626		459	90	97		169		94	92			
	20.5	616		449	93	102		172		93	90		111	
	20.75	606		451	93	103		176		93	91	95	112	
	21	629		459	93	104		173		95	92			
	21.25	612		456	92	104		173	340	94	92		113	371
	21.5	631	675	466	93	106	143	171	341	94	92	96	113	362
	21.75	622		460	93	103	144	174		95	93	97	114	376
	22	637	684	475	93	104	142	174	341	95	93	99	116	381



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Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd.

	-	Pass/			D/	D/	Pass/	Pass/	Pass/	Pass/	Pass/	D/	Pass/	Dans /
		Pass/ Fail			Pass/ Fail	Pass/ Fail	Fail	Fail	Fail	Fail	Fail	Pass/ Fail	Fail	Pass/ Fail
Time			TC#29	TC#30				TC#34	TC#35	TC#36	TC#37			TC#40
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
(min)		(7)	( r)	( r)	( )	( )	( )	( r)	( )	( )	( r)	( )	( )	( r)
	22.25	600	621	442	93	102	141	174	343	98	96	100	117	390
	22.5	633	670			106		176	344	97			118	
	22.75	632	676		95	103		176	346	100			120	387
	23	664	705		95	106		176	347	97			120	397
	23.25	642	690		95	108		179	348	101	-		121	
	23.5	610				106			346	98			121	
	23.75	645	687		95	105	148	181	348	98		102	124	
	24	624	658	465	96	105	142	176	346	101	99	107	128	374
	24.25	597	635	456	96	105	147	179	345	100	98	109	133	384
	24.5	657	700	482	98	105	148	180	346	99	98	112	139	395
	24.75	662	700	488	98	107	149	179	347	101	100	123	146	394
	25	647	674	478	98	107	151	182	346	101	101	125	149	386
	25.25	634	667	473	98	108	153	181	345	103	103	136	151	381
	25.5	650	680	475	98	106	152	182	348	105	106	139	155	379
	25.75	673	712	493	99	107	151	180	350	105	106	147	160	397
	26	666	710	490	99	109	154	183	353	105	109	155	166	388
	26.25	669	716	498	100	110	152	182	354	104	109	158	166	388
	26.5	639	671	475	100	109	154	183	354	104	110	166	174	411
	26.75	697	746	514	101	110	149	183	354	105	109	168	175	389
	27	682	725	506	103	114	156	186	353	108	113	175	183	423
	27.25	672	716	503	104	114	154	186	354	110	120	182	189	406
	27.5	685	730	511	105	116	154	184	357	110	122	183	195	396
	27.75	654	689	490	106	116	155	184	360	112	126	190	197	389
	28	650	689	490	107	117	158	186	361	110	124	192	203	396
	28.25	658	698	490	107	119	158	188	362	110	126	198	210	411
	28.5	641	667	479	108	117	158	190	362	113	126	197	213	397
	28.75	669	693		108	119		199	366	113	126	197	214	424
	29	671	689			124		203	361	115			217	436
	29.25	688	724			134	177	210	365	115			219	428
	29.5	694	729			136		231	364	118			225	438
	29.75	674	703			139		232	369	117			223	423
	30	670	703	507	113	145	215	244	374	115	124	191	226	440
Max	Temn	697			116	145	215	244	374	118	133	201	226	440
Max		1000			1000	1000		1000	1000			1	1000	1000



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										Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
										Fail	Fail	Fail	Fail	Fail	Fail
Time		TC#41	TC#42	TC#43	TC#44	TC#45	TC#46	TC#47	TC#48	TC#49	TC#50	TC#51	TC#52	TC#53	TC#54
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)							
	0	74	88	84	66	66	68	65	63	52	52	51	52	52	52
	0.25	754	798	665	454	425	528	521	442	52		51		52	52
	0.5	1092	1167	1005	786	756	859	837	755	52		51		52	
	0.75	1158	1285	1041	898	904	977	950	910	52		51		52	
	1	1206	1318	1071	949	965	1015	1011	956	52		51			
	1.25	1227	1294	1094	992	996	1035	1032	966	52		51			
	1.5	1256	1328	1118	1017	1023	1059	1089	998	52		51		53	
	1.75	1296	1343	1127	1036	1047	1138	1200	1117	52		51		53	52
	2	1312	1360	1149	1052	1067	1126	1117	1082	52		51		53	
	2.25	1305	1367	1176	1066	1077	1118	1110	1055	52	52	52		53	52
	2.5	1329	1379	1180	1089	1084	1128	1127	1054	52		52		53	
	2.75	1336	1393	1182	1095	1101	1141	1140	1073	52		52		53	
	3	1349	1399	1199	1102	1116	1145	1151	1084	52		52		53	
	3.25	1361 1380	1421 1452	1219	1109	1127	1167	1159	1084	52 52		52 52		53	
	3.75	1370	1452	1234 1245	1117 1131	1140 1150	1189 1199	1167 1182	1093 1103	52		52		53 53	
	3./5	1407	1513	1257	1141	1150	1217	1182	1111	52		52		53	
	4.25	1389	1513	1257	1141	1167	1225	1193	1111	52		52		53	
	4.25	1424	1511	1286	1161	1180	1225	1205	1135	52		52		53	53
	4.75	1439	1515	1297	1164	1184	1237	1220	1141	53		52		53	
	5	1445	1494	1286	1182	1189	1246	1232	1147	53	53	53		53	53
	5.25	1461	1516	1310	1184	1209	1251	1225	1156	53	53	52		53	
	5.5	1449	1525	1322	1197	1212	1260	1232	1168	53	53	53		53	
	5.75	1481	1530	1331	1204	1217	1274	1246	1174	53	53	53		53	
	6	1454	1548	1344	1209	1223	1275	1257	1189	53	53	53		53	
	6.25	1486	1577	1351	1223	1234	1287	1267	1189	53	53	53		53	53
	6.5	1493	1565	1341	1233	1240	1292	1266	1202	53		53	53	53	53
	6.75	1510	1532	1368	1238	1249		1267	1196	53	53	53	53	53	53
	7	1465	1581	1360	1243	1251	1306	1282	1203	53	53	53	53	53	54
	7.25	1484	1588	1374	1248	1258	1312	1282	1202	53	53	52	53	54	53
	7.5	1537	1566	1370	1247	1256	1306	1286	1201	53	53	53	54	54	54
	7.75	1478	1547	1372	1244	1259	1305	1281	1215	53	53	53	54	54	54
	8	1521	1515	1391	1250	1266	1293	1284	1216	53	53	53	54	54	54
	8.25	1499	1594	1379	1245	1271	1321	1297	1225	53	53	53	54	54	54
	8.5	1526	1593	1392	1248	1280	1318	1287	1221	53	53	53		54	
	8.75	1506	1586	1387	1255	1279	1320	1290	1219	54	53	53	54	54	54
	9	1507	1598	1386	1252	1278	1333	1305	1228	54	53	53		54	
	9.25	1498	1583	1381	1256	1285	1331	1303	1231	54	53	53		54	
	9.5	1537	1606	1397	1261	1296	1340	1307	1238	54	54	53		54	
	9.75	1480	1536	1397	1263	1305	1349	1329	1256	54		53		54	
	10	1513	1493	1381	1263	1308	1366	1356	1302	53	54	53		54	
	10.25	1531	1504	1412	1275	1312	1381	1391	1339	54	54	53		54	51.5
	10.5	1516	1569	1387	1280	1282	1403	1385	1372	54	54	53		54	54
	10.75	1532	1611	1395	1301	1266	1400	1412	1385	55	54	53		54	
	11	1536	1627	1356	1297	1264	1467	1430	1375	54	54	53	55	54	54



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Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd.

Time (min)  Temp (F)											Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
Time																
	Time		TC#41	TC#42	TC#43	TC#44	TC#45	TC#46	TC#47	TC#48						ALCOHOL: N
11.25 1571 1598 1354 1271 1262 1487 1439 1401 54 54 53 55 55 55 54 11.75 1561 1573 1361 1281 1254 1468 1457 1409 55 55 55 53 55 55 55 54 11.75 1587 1593 1371 1299 1255 1465 1486 1430 55 55 55 53 55 55 55 12.25 1461 1524 1395 1323 1262 1462 1490 1435 55 55 55 54 55 55 55 55 12.25 1654 1524 1395 1323 1262 1462 1490 1435 55 55 55 54 55 55 55 55 12.25 1654 1524 1395 1323 1262 1462 1490 1435 55 55 55 54 55 55 55 54 55 12.75 1599 1592 1376 1301 1266 1497 1494 1473 56 56 54 56 55 55 55 13 1504 1566 1381 1301 1268 1494 1510 1458 57 56 54 56 55 55 55 13 1505 1507 1301 1262 1510 1475 1454 57 56 54 56 55 55 13.55 1589 1567 1367 1292 1262 1510 1475 1454 57 56 54 56 56 55 13.55 1589 1589 1587 1375 1260 1469 1466 1437 38 57 56 54 56 56 56 13.75 1595 1596 1377 1302 1260 1491 1466 1437 58 57 56 54 56 56 56 13.75 1501 1375 1561 1374 1316 1261 1500 1468 1420 58 57 54 58 58 58 14 14 1567 1586 1377 1307 1261 1488 1476 1487 1387 139 1414 1567 1586 1377 1307 1468 1476 1437 59 58 54 58 58 55 14.25 1505 1557 1408 1364 1281 1428 1451 1377 60 60 59 54 59 60 55 14.55 1537 1500 1458 1354 1281 1428 1451 1377 60 60 59 54 59 60 55 15.55 1559 1594 1501 1475 1481 1371 60 61 64 55 61 62 55 15.75 1596 1553 1519 1387 1314 1465 1437 1317 60 61 64 55 61 62 55 15.75 1590 1553 1519 1387 1314 1465 1439 1410 61 62 55 61 62 55 61 62 55 15.75 1590 1553 1519 1387 1314 1465 1481 1479 1424 62 63 55 61 62 55 61 62 55 15.75 1590 1593 1517 1398 1324 1478 1495 1446 1449 61 64 65 55 61 62 55 15.75 1590 1594 1517 1398 1329 1475 1488 1411 64 66 69 57 66 67 57 17.75 1596 1573 1596 1551 1561 1409 1342 1459 1473 1431 1410 61 64 67 67 57 67 70 57 66 69 57 18.5 1590 1571 1585 1411 1353 1456 1461 1426 64 68 56 64 68 57 17.75 1573 1561 1561 1570 1370 1448 1448 1449 1449 1449 66 69 77 65 66 67 57 18.5 1590 1571 1585 1411 1393 1454 1469 1419 65 68 70 57 64 67 70 77 67 70 77 67 70 77 65 69 57 1485 1590 1571 1585 1561 1407 1374 1461 1467 1412 67 70 57 66 69 57 64 67 57 1485 1490 1490 1406 1407 1624 1495 1440 1407 1624 1495 1440 1407 1624 1495 1490 1400 77 72 58 69 77 58 69 7																
11.5   1561   1573   1361   1281   1254   1468   1457   1409   55   55   53   55   55   54   11.75   1587   1599   1397   1317   1291   1255   1465   1480   55   55   55   55   55   55   12.25   1641   1524   1395   1322   1267   1481   1500   1489   55   55   55   55   55   55   12.75   1599   1592   1376   1311   1267   1487   1494   1473   56   56   54   56   55   55   55   12.75   1599   1592   1376   1311   1268   1497   1494   1473   56   56   54   56   55   55   55   13.25   1599   1592   1376   1311   1268   1494   1510   1458   57   56   54   56   55   55   13.25   1599   1567   1367   1392   1262   1491   1466   1437   58   57   56   54   56   55   55   13.55   1589   1567   1367   1302   1260   1491   1466   1437   58   57   56   54   57   57   55   13.57   1575   1561   1374   1316   1261   1500   1468   1420   58   57   54   58   58   58   14   1567   1586   1377   1317   1261   1488   1476   1427   58   58   57   54   58   58   58   14.25   1560   1545   1398   1324   1268   1460   1476   1437   59   58   54   58   58   55   14.75   1537   1529   1430   1345   1272   1443   1464   1409   60   59   54   59   60   55   15.25   1596   1553   1519   1387   1314   1465   1483   1410   61   62   55   61   62   55   15.55   1502   1554   1524   1398   1325   1478   1495   1409   61   64   55   56   62   65   55   15.75   1502   1554   1524   1398   1325   1478   1495   1409   61   64   55   56   62   65   55   15.75   1590   1559   1551   1566   1423   1393   1324   1478   1495   1409   61   64   55   56   62   65   55   16.25   1590   1549   1517   1398   1322   1475   1488   1411   64   65   55   62   64   65   55   16.25   1590   1549   1517   1398   1325   1471   1486   1409   61   64   65   55   62   64   65   55   16.25   1590   1549   1517   1398   1322   1478   1495   1407   62   65   55   62   65   55   17.75   1548   1591   1553   1407   1370   1443   1454   1411   64   66   65   65   65   65   65   65	,					•						, ,	• •	•	•	
11.75   1587   1593   1371   1299   1255   1465   1486   1430   55   55   53   55   55   55     12   1576   1579   1377   1311   1257   1453   1487   1443   545   55   54   55   55   55     12.55   1641   1524   1395   1332   1262   1462   1490   1435   55   55   54   55   55   55     12.75   1599   1592   1376   1301   1266   1497   1494   1473   56   56   54   56   55   55     13   1504   1566   1381   1301   1268   1494   1510   1458   57   56   54   56   55   55     13.25   1595   1567   1367   1292   1262   1510   1475   1454   57   56   54   57   57   57   55     13.5   1589   1564   1377   1302   1260   1491   1466   1437   58   57   54   57   57   55     14   1567   1586   1377   1317   1261   1488   1476   1427   58   58   54   58   58   55     14.25   1560   1545   1398   1324   1281   1428   1476   1427   58   58   54   59   60   55     14.75   1537   1500   1458   1354   1281   1428   1451   1377   60   60   54   60   61   55     15.25   1596   1535   1519   1387   1314   1465   1439   1410   61   62   55   61   62   55     15.25   1596   1535   1519   1387   1314   1465   1439   1410   61   62   55   61   62   55     15.25   1596   1535   1519   1387   1314   1465   1439   1410   61   62   55   61   62   55     15.25   1590   1538   1519   1387   1314   1465   1439   1410   61   62   55   61   62   55      15.25   1590   1534   1517   1398   1329   1475   1488   1411   64   65   55   62   64   55      16.5   1599   1554   1551   1566   1424   1360   1469   1419   63   68   56   64   68   56   64   68   56      17.5   1579   1546   1553   1407   1375   1465   1465   1479   1419   66   69   57   66   69   57      18.5   1550   1615   1561   1407   1375   1465   1461   1426   64   68   56   64   68   56   67   57      18.5   1550   1615   1561   1407   1375   1465   1471   1488   1411   66   69   57   66   69   57      18.5   1550   1615   1561   1407   1379   1445   1459   1442   66   67   57   66   69   57      18.5   1550   1615   1561   1407   1379   1465   1465   1471   1473   60   67   57   66		11.25	1571	1598	1354	1271	1262	1487	1439	1401	54	54	53	55	55	54
12 1576 1579 1377 1311 1257 1453 1497 1443 54 55 54 55 55 55 55 122.5 1641 1524 1395 1323 1262 1462 1490 1435 55 55 55 54 55 55 55 55 122.5 1654 1525 1391 1322 1267 1481 1500 1459 55 55 55 54 56 55 55 55 122.75 1599 1592 1376 1301 1266 1497 1494 1473 56 56 56 54 56 55 55 55 13 1504 1566 1381 1301 1268 1494 1510 1458 57 56 54 56 56 56 56 56 13 1505 1595 1567 1367 1292 1262 1510 1475 1454 57 56 54 57 57 55 13.5 1595 1567 1367 1292 1262 1510 1475 1454 57 56 54 57 57 55 13.5 1595 1564 1377 1302 1260 1491 1466 1437 58 57 54 57 57 55 13.5 1575 1561 1374 1316 1261 1500 1468 1420 58 57 54 58 58 58 58 14 1567 1586 1377 1317 1261 1488 1476 1427 58 58 54 58 58 58 14 1567 1586 1377 1317 1261 1488 1476 1427 58 58 54 59 60 55 14.5 1557 1529 1430 1458 1272 1443 1464 1409 60 59 54 59 60 55 14.5 1557 1529 1430 1458 1272 1443 1464 1409 60 59 54 59 60 55 1557 1561 1374 1316 1261 1500 1488 1451 1377 60 60 54 60 61 55 60 62 55 1557 1408 1398 1324 1268 1460 1476 1437 59 58 54 59 60 55 155.5 1500 1458 1354 1289 1427 1431 1371 60 60 54 60 61 55 60 62 55 155.5 1500 1545 1398 1324 1268 1475 1435 1464 1409 60 59 54 59 60 55 155.5 1557 1408 1398 1325 1474 1479 1424 62 63 55 56 62 55 61 62 55 15.5 1500 1549 1517 1398 1325 1474 1479 1424 62 63 55 56 62 55 61 62 55 15.5 1500 1549 1517 1398 1325 1471 1486 1409 61 64 55 56 62 55 61 62 55 15.5 1590 1554 1511 1398 1325 1475 1488 1411 64 65 55 60 63 66 56 65 67 55 1502 1554 1521 1409 1342 1459 1473 1431 64 66 66 67 55 60 65 55 62 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 67 57 57 58 148.5 1500 1575 1575 1566 1423 1370 1454 1469 1410 66 69 57 66 67 57 57 148.5 1500 1575 1575 1551 1566 1423 1370 1454 1469 1410 66 69 57 66 67 57 57 148.5 1500 1576 1413 1384 1455 1461 1466 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 64 68 56 67 57 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58		11.5	1561	1573	1361	1281	1254	1468	1457	1409	55	55	53	55	55	54
12.25		11.75	1587	1593	1371	1299	1255	1465	1486	1430	55	55	53	55	55	55
12.5		12	1576	1579	1377	1311	1257	1453	1497	1443	54	55	54	55	55	55
12.75   1599   1592   1376   1301   1266   1497   1494   1473   56   56   54   56   55   55     13   1604   1566   1381   1301   1268   1494   1510   1458   57   56   54   56   56   56   55     13.5   1595   1567   1367   1292   1262   1510   1475   1454   57   56   54   57   57   55     13.5   1589   1564   1377   1302   1260   1491   1466   1437   58   57   54   57   57   55     13.75   1575   1561   1374   1316   1261   1500   1468   1420   58   57   54   58   58   58     14   1567   1586   1377   1317   1261   1488   1476   1427   58   58   54   58   58   58     14.5   1557   1529   1430   1345   1272   1443   1464   1409   60   59   54   59   60   55     14.5   1557   1529   1430   1345   1272   1443   1464   1409   60   59   54   59   60   55     14.75   1537   1500   1458   1354   1281   1428   1451   1377   60   60   54   60   61   55     15.2   1556   1553   1519   1387   1314   1465   1483   1410   61   62   55   61   62   55     15.5   1502   1553   1519   1387   1314   1465   1483   1410   61   62   55   61   62   55     15.5   1502   1553   1519   1387   1314   1465   1483   1410   61   62   55   61   62   55     16.5   1590   1549   1517   1398   1325   1471   1486   1409   61   64   55   61   62   55     16.5   1599   1554   1521   1409   1342   1478   1495   1407   62   65   55   62   64   55     16.75   1599   1552   1541   1416   1348   1448   1469   1415   63   67   56   63   66   63     17.5   1596   1572   1566   1424   1360   1441   1469   1419   65   68   56   64   68   56     17.5   1596   1572   1566   1424   1360   1441   1469   1410   66   69   57   66   69   57     18.75   1588   1591   1553   1407   1374   1465   1420   66   69   57   66   69   57     18.75   1589   1551   1566   1424   1380   1441   1469   1410   66   69   57   66   69   57     18.75   1589   1581   1566   1424   1360   1441   1469   1410   66   69   57   66   69   57     18.75   1589   1581   1566   1424   1386   1465   1473   1426   64   68   56   66   67   67     18.75   1589   1580   1587   1407   1374   1461		12.25	1641	1524	1395	1323	1262	1462	1490	1435	55	55	54	55	55	54
13         1604         1566         1381         1301         1268         1494         1510         1458         57         56         54         56         56         55         55           13.25         1589         1564         1377         1302         1260         1491         1466         1437         58         57         54         57         57         55           13.75         1575         1561         1374         1316         1261         1500         1468         1420         58         57         54         58         58         58         58         58         58         58         58         58         58         58         58         58         58         58         58         58         58         58         59         60         55           14.5         1557         1550         1546         1384         1281         1428         1451         137         60         60         54         59         60         55           14.5         1557         1550         1557         1515         1528         1381         1381         1381         1381         1381         1381         1381													54	56		
13.25   1595   1567   1367   1292   1262   1510   1475   1454   57   56   54   57   57   55     13.5   1589   1564   1377   1302   1260   1491   1466   1437   58   57   54   57   57   55     13.75   1575   1561   1374   1316   1261   1500   1468   1420   58   57   54   58   58   55     14   1567   1586   1377   1317   1261   1488   1476   1427   58   58   58   58   58   58     14.25   1560   1545   1398   1324   1268   1460   1476   1437   59   58   54   59   60   55     14.5   1557   1529   1430   1345   1272   1443   1464   1409   60   59   54   59   60   55     14.75   1537   1500   1458   1384   1281   1428   1451   1377   60   60   54   60   61   55     15   1528   1541   1475   1358   1289   1427   1431   1371   60   61   55   60   62   55     15.25   1596   1553   1519   1387   1314   1465   1438   1410   61   62   55   61   62   55     15.75   1579   1546   1524   1398   1325   1471   1486   1409   61   64   55   61   62   55     16   1575   1594   1508   1393   1324   1478   1495   1407   62   65   55   62   64   55     16.25   1590   1549   1517   1398   1329   1475   1488   1411   64   65   55   62   64   55     16.75   1599   1554   1511   1409   1342   1459   1473   1431   64   66   66   65   63   66   65     17   1573   1501   1566   1424   1360   1441   1469   1419   65   68   56   64   68   56     17.75   1596   1572   1566   1423   1370   1443   1469   1419   65   68   56   64   68   56     17.75   1588   1591   1553   1407   1371   1459   1461   1462   66   69   57   66   67   57     18.5   1560   1634   1535   1407   1371   1459   1461   1462   69   71   58   66   69   57     19.5   1550   1615   1561   1407   1374   1461   1467   1412   67   70   57   66   69   57     19.5   1580   1634   1587   1406   1401   1654   1473   1488   1442   69   71   58   66   70   58     19.5   1571   1645   1567   1405   1399   1406   1488   1442   69   71   58   66   70   58     19.5   1560   1634   1558   1407   1379   1465   1467   1412   67   70   57   66   69   57     19.5   1560   1634   1558   1407																
13.5   1589   1564   1377   1302   1260   1491   1466   1437   58   57   54   57   57   55    13.75   1575   1561   1374   1316   1261   1500   1468   1420   58   57   54   58   58   58    14   1567   1586   1377   1317   1261   1488   1476   1427   58   58   54   58   58   55    14.25   1560   1545   1398   1324   1268   1460   1476   1437   59   58   54   59   60   55    14.55   1557   1529   1430   1345   1272   1443   1464   1409   60   59   54   59   60   55    14.75   1537   1500   1458   1358   1289   1427   1431   1371   60   61   55   60   61   55    15.28   1541   1475   1358   1289   1427   1431   1371   60   61   55   60   62   55    15.25   1596   1553   1519   1387   1314   1465   1483   1410   61   62   55   61   62   55    15.75   1579   1546   1524   1398   1325   1471   1486   1409   61   64   55   61   62   55    16.25   1590   1549   1517   1398   1329   1475   1488   1411   64   65   55   62   64   55    16.25   1590   1549   1517   1398   1329   1475   1488   1411   64   65   55   62   64   55    16.75   1599   1552   1541   1416   1348   1448   1469   1415   63   67   56   65   67   55    17.15   1596   1572   1566   1423   1370   1454   1469   1410   66   69   57   66   67   57    18.25   1550   1615   1551   1407   1374   1451   1469   1410   66   69   57   66   67   57    18.25   1550   1634   1535   1407   1374   1451   1467   1412   67   70   57   66   69   57    18.25   1550   1634   1535   1407   1374   1461   1467   1412   67   70   57   66   69   57    18.25   1550   1634   1535   1407   1374   1461   1467   1412   67   70   57   66   69   57    18.25   1560   1634   1535   1407   1374   1461   1467   1412   67   70   57   66   69   57    19.25   1560   1634   1555   1410   1390   1487   1488   1442   68   71   58   66   70   58    19.75   1576   1674   1561   1407   1374   1461   1467   1412   67   70   57   66   69   57    19.25   1560   1634   1567   1418   1386   1465   1477   1423   67   70   57   66   69   57    19.25   1568   1616   1567   1418   1386   1465   1477   1423																
13.75         1575         1561         1374         1316         1261         1500         1468         1420         58         57         54         58         58         55           14         1567         1586         1377         1317         1261         1488         1476         1427         58         58         54         58         59         60         55         60         60         55         58         54         59         60         55         58         54         58         58         58         58         58         58         58         58         58         50         60         72         58         69         72         58         69         72         58         60         62         58         60         62         58         60         62         55         60         62         55         60         62         55         61																
14         1567         1586         1377         1317         1261         1488         1476         1427         58         58         54         58         58         55           14.25         1560         1545         1398         1324         1268         1460         1476         1437         59         58         54         59         60         55           14.75         1527         1529         1430         1345         1272         1443         1464         1409         60         59         54         59         60         65           15.75         1528         1541         1475         1358         1289         1427         1431         1371         60         61         55         60         62         55           15.75         1590         1553         1519         1387         1314         1465         1483         1410         61         62         55         61         62         55           15.75         1579         1546         1524         1398         1325         1471         1479         1424         62         63         55         61         62         55 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>																
14.25         1560         1545         1398         1324         1268         1460         1476         1437         59         58         54         59         60         55           14.5         1557         1529         1430         1345         1272         1443         1464         1409         60         59         54         59         60         55           14.75         1537         1500         1458         1354         1281         1428         1451         1377         60         60         54         60         62         55           15.25         1596         1553         1519         1387         1314         1465         1483         1410         61         62         55         61         62         55           15.5         1602         1557         1578         1579         1546         1524         1398         1325         1471         1486         1409         61         64         55         61         62         55           16.25         1599         1549         1517         1398         1329         1475         1488         1411         64         65         55         62																
14.5         1557         1529         1430         1345         1272         1443         1464         1409         60         59         54         59         60         65           14.75         1537         1500         1458         1354         1281         1428         1451         1377         60         60         54         60         61         55           15         1528         1541         1475         1358         1289         1427         1431         1371         60         61         55         60         62         55           15.75         1596         1553         1519         1387         1314         1465         1483         1410         61         62         55         61         62         55           15.75         1579         1546         1524         1398         1325         1471         1486         1409         61         64         55         61         62         55           16         1575         1534         1521         1499         1342         1459         1475         1488         1411         64         65         55         62         65         55																
14.75       1537       1500       1458       1354       1281       1428       1451       1377       60       60       54       60       61       55         15       1528       1541       1475       1358       1289       1427       1431       1371       60       61       55       60       62       55         15.5       1596       1553       1519       1387       1314       1465       1483       1410       61       62       55       61       62       55         15.75       1579       1546       1524       1398       1325       1471       1486       1409       61       64       55       61       64       55         16       1575       1534       1508       1393       1324       1478       1495       1407       62       65       55       62       64       55         16.25       1590       1549       1517       1398       1329       1475       1488       1411       64       65       55       62       65       55         16.25       1590       1552       1541       1416       1348       1469       1411       64																
15 1528 1541 1475 1358 1289 1427 1431 1371 60 61 55 60 62 55 15.25 1596 1553 1519 1387 1314 1465 1483 1410 61 62 55 61 62 55 15.5 1557 1408 1326 1474 1479 1424 62 63 55 61 62 55 15.75 1579 1546 1524 1398 1325 1471 1486 1409 61 64 55 61 64 55 61 64 55 16. 1575 1579 1546 1524 1398 1325 1471 1486 1409 61 64 55 62 65 55 62 64 55 16.25 1590 1549 1517 1398 1329 1475 1488 1411 64 65 55 62 65 55 62 64 65 16.5 1592 1554 1521 1409 1342 1459 1473 1431 64 66 56 63 66 56 63 66 56 16.75 1599 1552 1541 1416 1348 1448 1469 1415 63 67 56 65 67 55 17 1573 1601 1555 1411 1353 1456 1461 1426 64 68 56 64 68 56 17.25 1575 1551 1566 1424 1360 1441 1469 1419 65 68 56 64 68 56 17.55 1590 1572 1566 1423 1370 1454 1469 1420 66 68 56 65 65 67 57 17.75 1548 1591 1553 1407 1370 1443 1459 1400 66 69 57 64 67 57 18.25 1550 1615 1561 1407 1374 1461 1467 1412 67 70 57 65 69 57 18.25 1550 1634 1535 1407 1375 1465 1462 1415 67 70 57 66 69 57 18.25 1550 1634 1535 1407 1375 1465 1462 1415 67 70 57 66 69 57 18.25 1550 1634 1535 1407 1375 1465 1462 1415 67 70 57 66 69 57 18.25 1550 1634 1535 1407 1375 1465 1462 1415 67 70 57 66 69 57 19.25 1569 1634 1567 1413 1384 1458 1473 1453 68 70 57 66 69 57 19.25 1569 1634 1567 1418 1386 1465 1477 1423 67 70 57 66 69 57 19.25 1569 1634 1567 1418 1386 1465 1477 1423 67 70 57 66 70 58 19.55 1551 1561 1561 1407 1379 1487 1488 1442 68 71 58 66 70 58 19.55 1551 1561 1567 1405 1392 1489 1488 1421 69 71 58 66 70 58 19.55 1552 1653 1541 1411 1390 1487 1488 1442 68 71 58 66 70 58 19.55 1552 1653 1541 1411 1390 1487 1488 1442 68 71 58 66 70 58 19.55 1550 1564 1567 1405 1392 1489 1488 1426 69 71 58 69 71 58 69 71 58 20.55 1568 1716 1549 1409 1406 1612 1488 1430 71 72 58 69 71 58 20.55 1568 1716 1549 1409 1406 1612 1488 1430 71 72 58 69 71 58 20.55 1568 1716 1549 1409 1406 1612 1488 1430 71 72 58 69 71 58 20.55 1550 1566 1764 1561 1404 1407 1624 1495 1430 71 72 58 69 71 58 20.55 1575 1708 1536 1399 1414 1628 1488 1424 70 72 58 69 71 58 20.55 1553 1507 1508 1708 1536 1399 1414 1628 1488 1424 70 72 58 69 72 58 20.55 1550 155																
15.25       1596       1553       1519       1387       1314       1465       1483       1410       61       62       55       61       62       55         15.5       1602       1555       1557       1408       1326       1474       1479       1424       62       63       55       61       62       55         15.75       1579       1546       1524       1398       1325       1471       1486       1409       61       64       55       61       64       55         16.75       1534       1508       1393       1324       1478       1495       1407       62       65       55       62       64       55         16.5       1590       1549       1517       1398       1329       1475       1488       1411       64       65       55       62       65       55       62       65       55       62       64       58       66       66       66       66       66       66       66       66       66       66       66       66       66       66       66       67       55         16.57       1599       1552       1541       14																
15.5         1602         1555         1557         1408         1326         1474         1479         1424         62         63         55         61         62         55           15.75         1579         1546         1524         1398         1325         1471         1486         1409         61         64         55         61         64         55           16         1575         1534         1508         1393         1324         1478         1495         1407         62         65         55         62         64         55           16.25         1590         1549         1517         1398         1329         1475         1488         1411         64         65         55         62         65         55           16.5         1590         1552         1541         1409         1342         1459         1415         63         67         56         65         67         55           16.75         1599         1552         1541         1416         1348         1448         1469         1415         63         67         56         65         67         57           17.5																
15.75         1579         1546         1524         1398         1325         1471         1486         1409         61         64         55         61         64         55           16         1575         1534         1508         1393         1324         1478         1495         1407         62         65         55         62         64         55           16.25         1590         1549         1517         1398         1329         1475         1488         1411         64         65         55         62         65         55           16.75         1590         1552         1541         1409         1342         1459         1473         1431         64         66         56         63         66         56           16.75         1579         1552         1541         1469         1441         169         1415         63         67         56         65         67         55           17.75         1556         1555         1411         1360         1441         1469         1419         66         68         56         64         68         56           17.75         1548 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>																
16       1575       1534       1508       1393       1324       1478       1495       1407       62       65       55       62       64       55         16.25       1590       1549       1517       1398       1329       1475       1488       1411       64       65       55       62       65       55         16.5       1592       1554       1521       1409       1342       1459       1473       1431       64       66       56       63       66       56         16.75       1599       1552       1541       1416       1348       1448       1469       1415       63       67       56       65       67       55         17       1573       1601       1555       1411       1353       1456       1461       1426       64       68       56       64       68       56         17.25       1551       1566       1424       1360       1441       1469       1410       65       68       56       64       68       57         17.75       1584       1591       1553       1407       1371       1459       1464       1420       66																
16.25       1590       1549       1517       1398       1329       1475       1488       1411       64       65       55       62       65       55         16.5       1592       1554       1521       1409       1342       1459       1473       1431       64       66       56       63       66       56         16.75       1599       1552       1541       1416       1348       1448       1469       1415       63       67       56       65       67       55         17       1573       1601       1555       1411       1353       1456       1461       1426       64       68       56       64       68       56         17.5       1596       1572       1566       1424       1360       1441       1469       1420       66       68       56       65       67       57         17.5       1596       1572       1566       1423       1370       1443       1454       1411       66       69       57       66       67       57         18.75       1558       1553       1407       1371       1459       1464       1420       66																
16.5       1592       1554       1521       1409       1342       1459       1473       1431       64       66       56       63       66       56         16.75       1599       1552       1541       1416       1348       1448       1469       1415       63       67       56       65       67       55         17       1573       1601       1555       1411       1353       1456       1461       1426       64       68       56       64       68       56         17.25       1575       1551       1566       1424       1360       1441       1469       1419       65       68       56       64       68       57         17.5       1596       1572       1566       1423       1370       1454       1469       1420       66       68       56       65       67       57         18.75       1548       1591       1553       1407       1370       1443       1454       1411       66       69       57       66       67       57         18.25       1550       1615       1561       1407       1374       1461       1467       1412																
16.75         1599         1552         1541         1416         1348         1448         1469         1415         63         67         56         65         67         55           17         1573         1601         1555         1411         1353         1456         1461         1426         64         68         56         64         68         56           17.25         1575         1551         1566         1424         1360         1441         1469         1419         65         68         56         64         68         57           17.5         1596         1572         1566         1423         1370         1443         1454         1411         66         69         57         66         67         57           18         1567         1626         1553         1407         1371         1459         1464         1420         66         69         57         64         67         57           18.25         1550         1615         1561         1407         1374         1461         1467         1412         67         70         57         65         69         57           18																
17 1573 1601 1555 1411 1353 1456 1461 1426 64 68 56 64 68 56 177.25 1575 1551 1566 1424 1360 1441 1469 1419 65 68 56 64 68 57 17.5 1596 1572 1566 1423 1370 1454 1469 1420 66 68 56 65 67 57 17.75 1548 1591 1553 1407 1370 1443 1454 1411 66 69 57 66 67 57 18 1567 1626 1553 1407 1371 1459 1464 1420 66 69 57 64 67 57 18.25 1550 1615 1561 1407 1374 1461 1467 1412 67 70 57 65 69 57 18.5 1560 1634 1535 1407 1375 1465 1462 1415 67 70 57 66 69 57 18.75 1553 1607 1576 1413 1384 1458 1473 1453 68 70 57 66 69 57 19.25 1559 1634 1580 1420 1381 1452 1461 1443 68 70 57 66 69 57 19.25 1569 1634 1580 1420 1381 1452 1461 1443 68 70 57 66 70 58 19.75 1551 1645 1567 1418 1386 1465 1477 1423 67 70 57 66 70 58 19.75 1571 1645 1567 1405 1392 1489 1488 1421 69 71 58 66 70 58 20.25 1562 1695 1554 1406 1401 1654 1487 1426 69 71 58 66 70 58 20.25 1562 1695 1554 1406 1401 1654 1487 1426 69 71 58 68 71 58 66 70 58 20.25 1568 1716 1549 1409 1406 1612 1488 1436 71 71 58 68 71 58 68 71 58 20.75 1570 1674 1561 1404 1407 1624 1495 1430 71 72 58 69 71 58 20.75 1570 1674 1561 1404 1407 1624 1495 1430 71 72 58 69 71 58 20.75 1570 1674 1561 1404 1407 1624 1495 1430 71 72 58 69 71 58 21.25 1575 1708 1536 1399 1414 1628 1488 1424 70 72 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58 21.55 1583 1691 1544 1413 1629 1492 1430 70 70 73 58 69 72 58 21.55 1583 1691 1544 1414 1628 1488 1424 70 70 72 58 69 72 58 21.55 1583 1691 1544 1414 1628 1488 1424 70 70 72 58 69 72 58 21.55 1583 1691 1544 1414 1628 1488 1424 70 70 72 58 69 7																
17.25       1575       1551       1566       1424       1360       1441       1469       1419       65       68       56       64       68       57         17.5       1596       1572       1566       1423       1370       1454       1469       1420       66       68       56       65       67       57         17.75       1548       1591       1553       1407       1370       1443       1454       1411       66       69       57       66       67       57         18       1567       1626       1553       1407       1371       1459       1464       1420       66       69       57       64       67       57         18.25       1550       1615       1561       1407       1374       1461       1467       1412       67       70       57       65       69       57         18.5       1560       1634       1535       1407       1375       1465       1462       1415       67       70       57       66       69       57         18.75       1583       1610       1580       1420       1381       1452       1461       1443				1601							64	68	56	64	68	56
17.75       1548       1591       1553       1407       1370       1443       1454       1411       66       69       57       66       67       57         18       1567       1626       1553       1407       1371       1459       1464       1420       66       69       57       64       67       57         18.25       1550       1615       1561       1407       1374       1461       1467       1412       67       70       57       65       69       57         18.5       1560       1634       1535       1407       1375       1465       1462       1415       67       70       57       66       69       57         18.75       1553       1607       1576       1413       1384       1458       1473       1453       68       70       57       66       69       57         19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       67       70       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423		17.25	1575	1551	1566	1424	1360	1441	1469	1419	65	68	56	64	68	57
18       1567       1626       1553       1407       1371       1459       1464       1420       66       69       57       64       67       57         18.25       1550       1615       1561       1407       1374       1461       1467       1412       67       70       57       65       69       57         18.5       1560       1634       1535       1407       1375       1465       1462       1415       67       70       57       66       69       57         18.75       1553       1607       1576       1413       1384       1458       1473       1453       68       70       57       66       69       57         19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       66       69       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442		17.5	1596	1572	1566	1423	1370	1454	1469	1420	66	68	56	65	67	57
18.25       1550       1615       1561       1407       1374       1461       1467       1412       67       70       57       65       69       57         18.5       1560       1634       1535       1407       1375       1465       1462       1415       67       70       57       66       69       57         18.75       1553       1607       1576       1413       1384       1458       1473       1453       68       70       57       66       69       57         19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       66       69       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421		17.75	1548	1591	1553	1407	1370	1443	1454	1411	66	69	57	66	67	57
18.5       1560       1634       1535       1407       1375       1465       1462       1415       67       70       57       66       69       57         18.75       1553       1607       1576       1413       1384       1458       1473       1453       68       70       57       66       69       57         19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       67       70       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20.25       1562       1695       1554       1406       1401       1654       1487       1426		18	1567	1626	1553	1407	1371	1459	1464	1420	66	69	57	64	67	57
18.75       1553       1607       1576       1413       1384       1458       1473       1453       68       70       57       66       69       57         19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       67       70       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       67       70       59         20.25       1562       1695       1554       1406       1401       1654       1487       1426		18.25	1550	1615	1561	1407	1374	1461	1467	1412	67	70	57	65	69	57
19       1583       1610       1580       1420       1381       1452       1461       1443       68       70       57       67       70       57         19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       67       70       59         20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436		18.5	1560	1634	1535	1407	1375	1465	1462	1415	67			66	69	57
19.25       1569       1634       1567       1418       1386       1465       1477       1423       67       70       57       66       70       58         19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       66       69       58         20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436       71       71       58       68       71       58         20.75       1570       1674       1561       1404       1407       1624       1495       1430																
19.5       1552       1653       1541       1411       1390       1487       1488       1442       68       71       58       66       70       58         19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       67       70       59         20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436       71       71       58       68       71       58         20.75       1570       1674       1561       1404       1407       1624       1495       1430       71       72       58       69       71       58         21       1592       1666       1543       1402       1407       1631       1485       1420																
19.75       1571       1645       1567       1405       1392       1489       1488       1421       69       71       58       66       69       58         20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       67       70       59         20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436       71       71       58       68       71       58         20.75       1570       1674       1561       1404       1407       1624       1495       1430       71       72       58       69       71       59         21       1592       1666       1543       1402       1407       1631       1485       1420       70       72       58       69       71       58         21.25       1575       1708       1536       1399       1414       1628       1488       1424																
20       1578       1671       1558       1407       1399       1506       1487       1426       69       71       58       67       70       59         20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436       71       71       58       68       71       58         20.75       1570       1674       1561       1404       1407       1624       1495       1430       71       72       58       69       71       59         21       1592       1666       1543       1402       1407       1631       1485       1420       70       72       58       69       71       58         21.25       1575       1708       1536       1399       1414       1628       1488       1424       70       72       58       69       72       58         21.5       1583       1691       1543       1402       1413       1629       1492       1430																
20.25       1562       1695       1554       1406       1401       1654       1487       1426       71       73       58       70       70       58         20.5       1568       1716       1549       1409       1406       1612       1488       1436       71       71       58       68       71       58         20.75       1570       1674       1561       1404       1407       1624       1495       1430       71       72       58       69       71       59         21       1592       1666       1543       1402       1407       1631       1485       1420       70       72       58       69       71       58         21.25       1575       1708       1536       1399       1414       1628       1488       1424       70       72       58       69       72       58         21.5       1583       1691       1543       1402       1413       1629       1492       1430       70       73       58       69       72       58																
20.5     1568     1716     1549     1409     1406     1612     1488     1436     71     71     58     68     71     58       20.75     1570     1674     1561     1404     1407     1624     1495     1430     71     72     58     69     71     59       21     1592     1666     1543     1402     1407     1631     1485     1420     70     72     58     69     71     58       21.25     1575     1708     1536     1399     1414     1628     1488     1424     70     72     58     69     72     58       21.5     1583     1691     1543     1402     1413     1629     1492     1430     70     73     58     69     72     58																
20.75     1570     1674     1561     1404     1407     1624     1495     1430     71     72     58     69     71     59       21     1592     1666     1543     1402     1407     1631     1485     1420     70     72     58     69     71     58       21.25     1575     1708     1536     1399     1414     1628     1488     1424     70     72     58     69     72     58       21.5     1583     1691     1543     1402     1413     1629     1492     1430     70     73     58     69     72     58																
21     1592     1666     1543     1402     1407     1631     1485     1420     70     72     58     69     71     58       21.25     1575     1708     1536     1399     1414     1628     1488     1424     70     72     58     69     72     58       21.5     1583     1691     1543     1402     1413     1629     1492     1430     70     73     58     69     72     58																
<b>21.25</b> 1575 1708 1536 1399 1414 1628 1488 1424 70 72 58 69 72 58 <b>21.5</b> 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58																
<b>21.5</b> 1583 1691 1543 1402 1413 1629 1492 1430 70 73 58 69 72 58																
<b>21.75</b> 1604 1686 1543 1405 1418 1631 1499 1419 71 72 59 69 71 59																



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Report No.: 104549690SAT-002\_REV.1

Date: 01/19/21

G104549690SAT-002 Chameleon Wrapping and Lamination Ltd. 14-Jan-2021

										Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
										Fail	Fail	Fail	Fail	Fail	Fail
Time					TC#44							TC#51			
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	22.25	1500	1740	1540	1.405	1421	1620	1500	1.422	72	70		70	72	
	22.25		1740	1540 1553		1421	1639		1423	73 72			70		
	22.75		1714	1522	1407 1401	1426 1417	1643	1501 1493	1418 1417	72			70		
	23		1666 1682	1548	1401	1417	1627 1633	1509	1417	72			70 69		
	23.25		1709	1562		1411	1628	1509	1440	73			71		
	23.5		1726	1560	1417	1420	1627	1506	1429	72			70		
	23.75		1742	1553	1415	1426	1527	1507	1447	73			70		
	24		1717	1542		1426	1529	1509	1431	73			70		
	24.25		1701	1553	1411	1431	1533	1512	1427	74			72		
	24.5		1726	1532	1411	1434	1621	1504	1431	74			71		
	24.75		1703	1545	1417	1436	1614	1517	1444	73			70		
	25		1712		1423	1434	1526	1514	1446	74			70		
	25.25		1774	1583	1434	1460	1627	1539	1468	73			71		
	25.5		1781	1606	1442	1469	1631	1551	1481	73			70		
	25.75		1780	1596	1448	1476	1617	1569	1492	75	74		70		
	26		1808	1597	1451	1478	1639	1570	1484	74	75	61	71	73	
	26.25	1665	1794	1630	1458	1485	1634	1570	1490	76	73	61	71	75	62
	26.5	1642	1784	1614	1461	1486	1636	1581	1508	76	74	62	73	74	62
	26.75	1632	1787	1628	1467	1480	1638	1572	1504	75	75	61	71	75	61
	27	1626	1776	1616	1462	1483	1653	1581	1492	75	74	62	72	76	62
	27.25	1665	1793	1614	1465	1482	1605	1581	1491	75	75	62	71	75	62
	27.5	1665	1789	1608	1472	1485	1602	1580	1502	76	75	62	72	76	61
	27.75	1649	1759	1609	1470	1491	1611	1587	1503	77	75	62	71	76	62
	28	1660	1749	1606	1474	1489	1606	1575	1502	77	75	62	73	76	62
	28.25	1654	1780	1600	1471	1486	1602	1568	1510	78	75	62	74	76	62
	28.5	1647	1772	1609	1475	1487	1603	1583	1503	79	76	62	72	75	63
	28.75		1806	1619	1476	1500	1604	1579	1506	79	75	62	74	76	
	29		1775	1610	1463	1506	1648	1613	1511	78	76		76	76	
	29.25		1762		1464	1513	1669	1598	1529	79			73	-	
	29.5		1734	1584	1457	1513	1625	1611	1524	81			78		
	29.75		1747	1604	1458	1512	1629	1591	1508	82			77		
	30	1653	1790	1618	1470	1514	1634	1593	1537	82	75	63	78	77	64
Max 1	Гетр									82	76	63	78	77	64
Max A	Allw									552	552	551	552	552	552



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#### **SECTION 14**

#### **DRAWINGS**

The "As-Built" drawings for the Chameleon Wrapping and Lamination Ltd.; Sheet Nos. 0.0.2 and dated 12/15/2020; 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.

\*Note – Drawing shows the use of Galvanized 38 × 35 mm Z-Bar but, 20 GA, 1-1/2 in., tall hatchannel was used in its place.

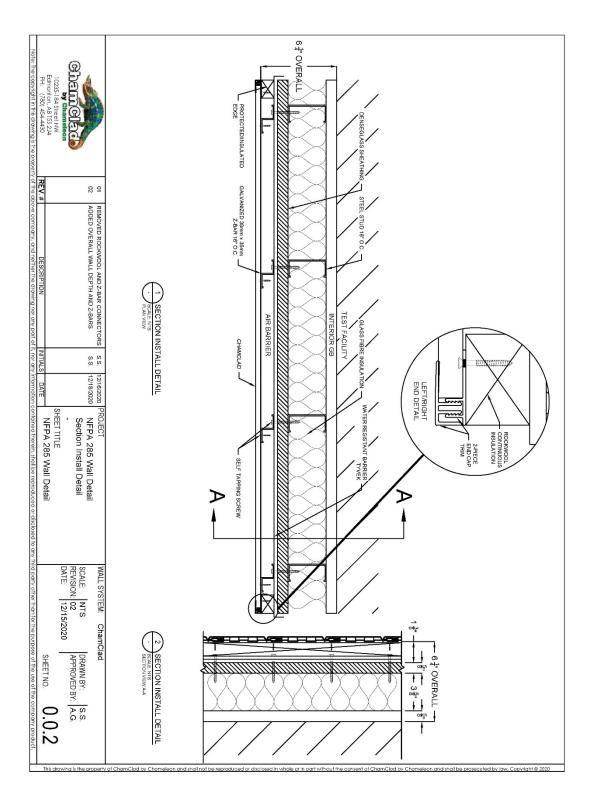
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## **SECTION 15**

## **REVISION LOG**

<b>REVISION</b> #	DATE	SECTION	REVISION
0	01/19/21	N/A	Original Report Issue
1	05/06/21	All	Revised to change report ownership. Changed name throughout report.  Mtudy