



PROFESSIONAL FIRE SAFETY TESTING

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**Australian Standard 1530
Methods for fire tests on building
materials, components and
structures, Part 1- 1994:
Combustibility Test for Materials.**

**Fire Test Report AS 1530.1
Yuanda Australia
Project 308 Exhibition St.
Melbourne 3000**

**Aluminium Alloy 6063 6061
5005 and 3003**

TEST REPORT

IGNL-4081-01R I01 R00

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SPONSOR

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1 ALUMINIUM ALLOY 6063

1.1 TEST SUMMARY

SPONSOR:	Yuanda Australia Pty Ltd		
ADDRESS:	Unit 503, 447 Kent Street Sydney, NSW 2000		
SAMPLE IDENTIFICATION:	Silver aluminium discs		
TRADE NAME:	Aluminium alloy 6063		
DATE RECEIVED:	18.05.2020		
DESCRIPTION OF MATERIAL:	The sponsor described the material as Anodised AA15 aluminium alloy with a nominal mass per unit area of 8.1kg/m ² and a nominal thickness of 3mm. The colour of the specimen is silver and the end use being multiple purpose in building façade. .		
CONSTRUCTION OF TEST SPECIMEN:	The test specimens are cylindrical, and each have – (a). Nominal diameter: 44.12 mm (b). Nominal height: 52.85 mm (a). Nominal volume: 80.75 cm ³ (c). Nominal mass: 212.93 g (d). Colour: Silver		
TEST METHOD:	Five (5) specimens were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials. The test apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative material was used to fill the annular space between the furnace tubes, as specified in clause 4.2 of ISO 1182:2010. Appendix A4 of AS 1530.1:1994 permits the use of only the furnace thermocouple for evaluating combustibility of thermally unstable materials and this is considered in this test.		
OBSERVATIONS:	None of the tested specimens ignited during the test. The tests was ended without the furnace thermocouple reaching equilibrium due to phase change of the specimen as it melted. This presented a risk of dislodging from the specimen holder.		
TEST RESULTS:	Mean furnace thermocouple temperature rise ΔT_f : 4.93 °C Mean specimen centre thermocouple temperature rise ΔT_c : 6.25 °C Mean specimen surface thermocouple temperature rise ΔT_s : 4.15 °C Mean duration of sustained flaming: 0 seconds Mean mass loss: 0.14 %		
COMBUSTIBILITY:	The material is NOT deemed COMBUSTIBLE according to the test criteria specified in clause 3.4 of as 1530.1- 1994.		

These test results relate only to the behaviour of the test specimens of the material under the conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

1.2 TEST CALCULATIONS

Parameter	Symbol or expression	Unit symbol	Results					Arithmetic (Mean)	Standard Deviation
			1	2	3	4	5		
Atmospheric temperature	-	°C	17.10	18.10	19.20	20.10	20.30		
Humidity	-	%RH	60.00	48.40	47.90	46.60	45.20		
Height	h	mm	53.00	52.84	52.58	52.97	52.88	52.85	0.17
Diameter	d	mm	43.90	44.06	44.51	43.86	44.25	44.12	0.27
Initial specimen volume	V	cm ³	80.18	80.52	81.77	79.99	81.28	80.75	0.75
Initial specimen mass	msi	g	213.17	213.22	211.65	213.34	213.33	212.94	0.73
Density	r	kg/m ³	2658.59	2647.93	2588.29	2667.08	2624.61	2637.30	31.69
Sample holder weight	w	g	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final specimen mass	msf	g	212.87	212.95	211.37	213.02	213.04	212.65	0.72
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	0.14	0.13	0.13	0.15	0.14	0.14	0.01
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	650.20	674.40	683.40	688.60	688.10	676.94	16.00
Maximum furnace thermocouple temperature	Tfm	°C	685.30	684.10	689.40	694.30	692.60	689.14	4.44
Final furnace thermocouple temperature	Tff	°C	682.25	673.15	682.09	693.15	690.39	684.21	7.88
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	3.05	10.95	7.31	1.15	2.21	4.93	4.10
Maximum specimen centre thermocouple temperature	Tcm	°C	679.80	682.10	682.40	686.10	684.00	682.88	2.34
Final specimen centre thermocouple temperature	Tcf	°C	673.77	680.99	676.60	677.70	674.10	676.63	2.95
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	6.03	1.11	5.80	8.40	9.90	6.25	3.34
Maximum specimen surface thermocouple temperature	Tsm	°C	670.40	722.30	712.50	727.00	705.50	707.54	22.39
Final specimen surface thermocouple temperature	Tsf	°C	668.85	721.89	705.04	726.53	694.64	703.39	23.18
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	1.55	0.41	7.46	0.47	10.86	4.15	4.75
Test duration	t	min	29.80	25.50	26.93	34.80	31.38	29.68	3.68

1.3 TEST RESULT GRAPHS

FIGURE 1:

SPECIMEN 1 – TEST GRAPH

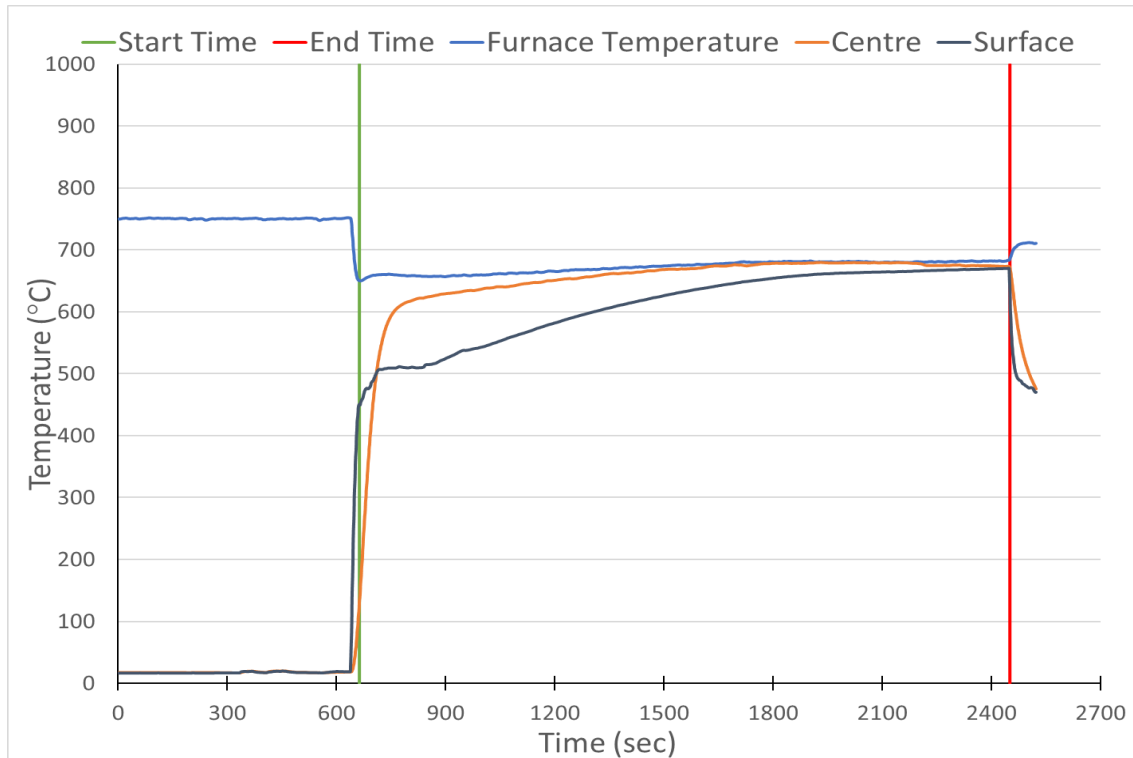


FIGURE 2:

SPECIMEN 2 – TEST GRAPH

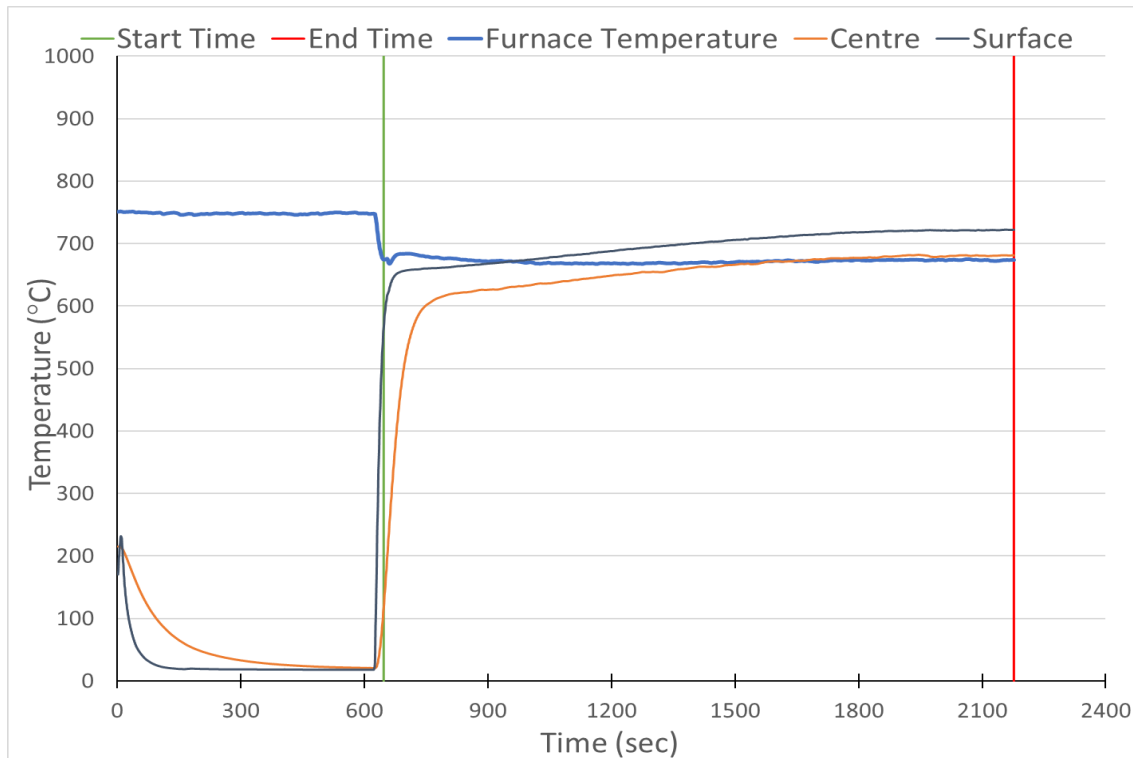


FIGURE 3:

SPECIMEN 3 – TEST GRAPH

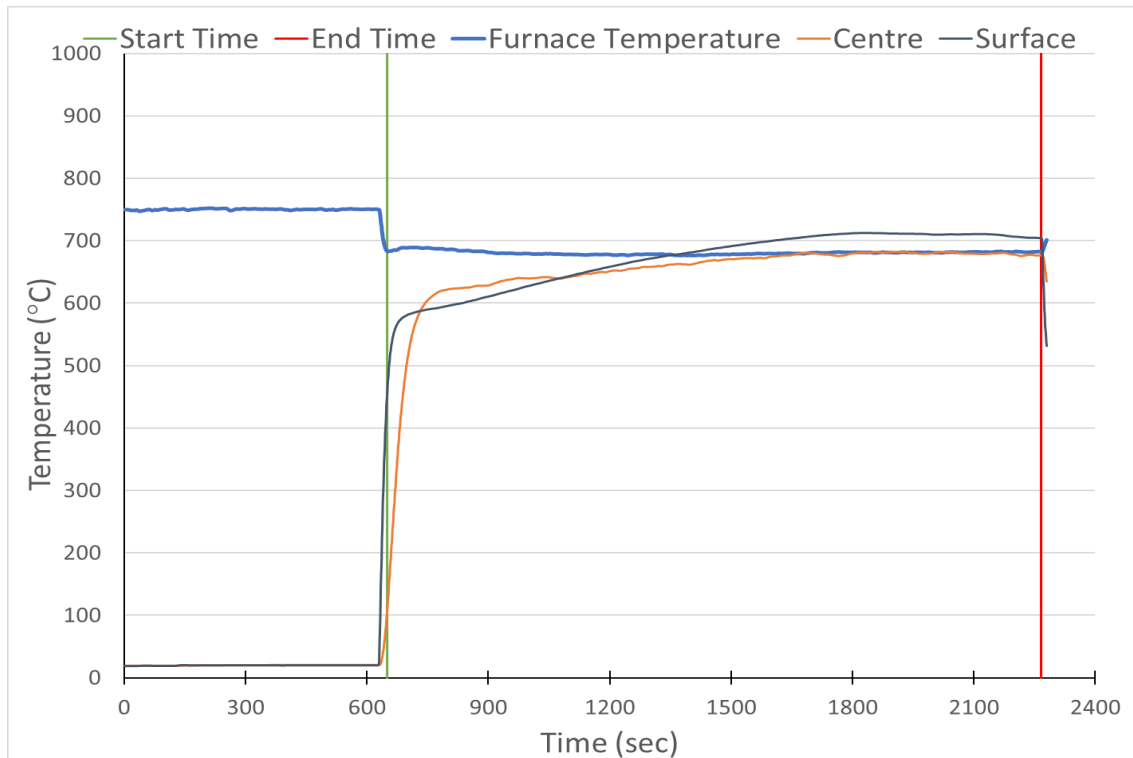


FIGURE 4:

SPECIMEN 4 – TEST GRAPH

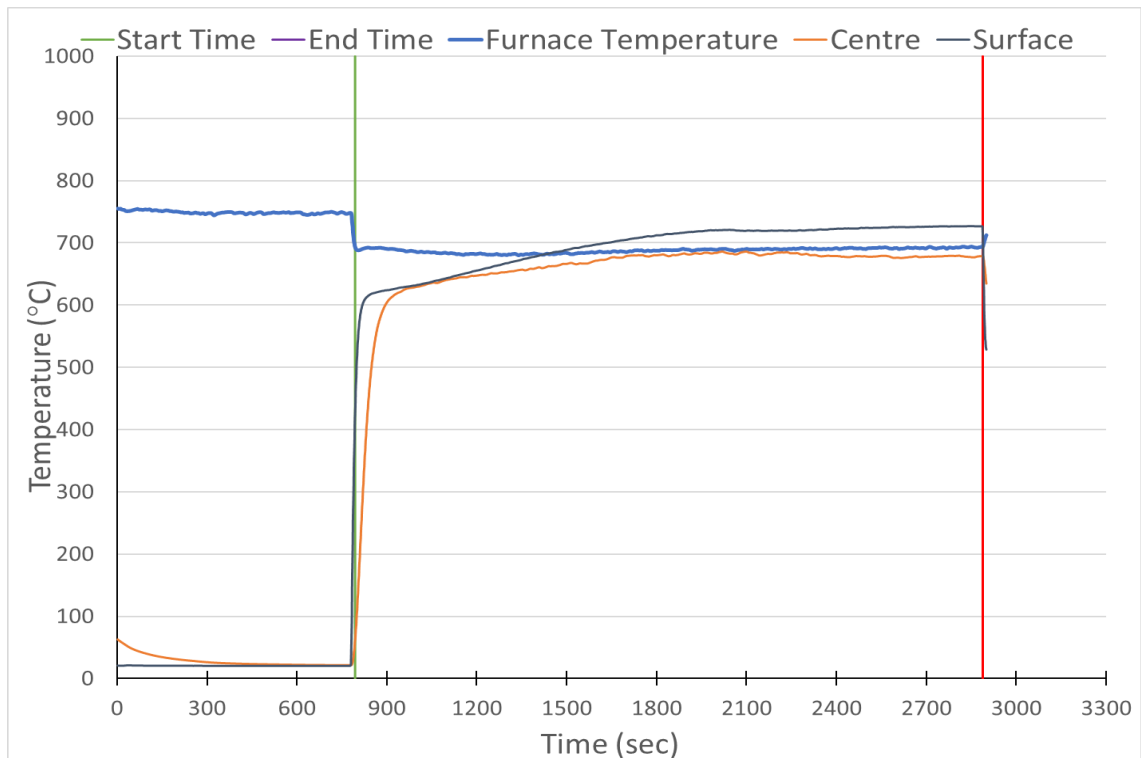
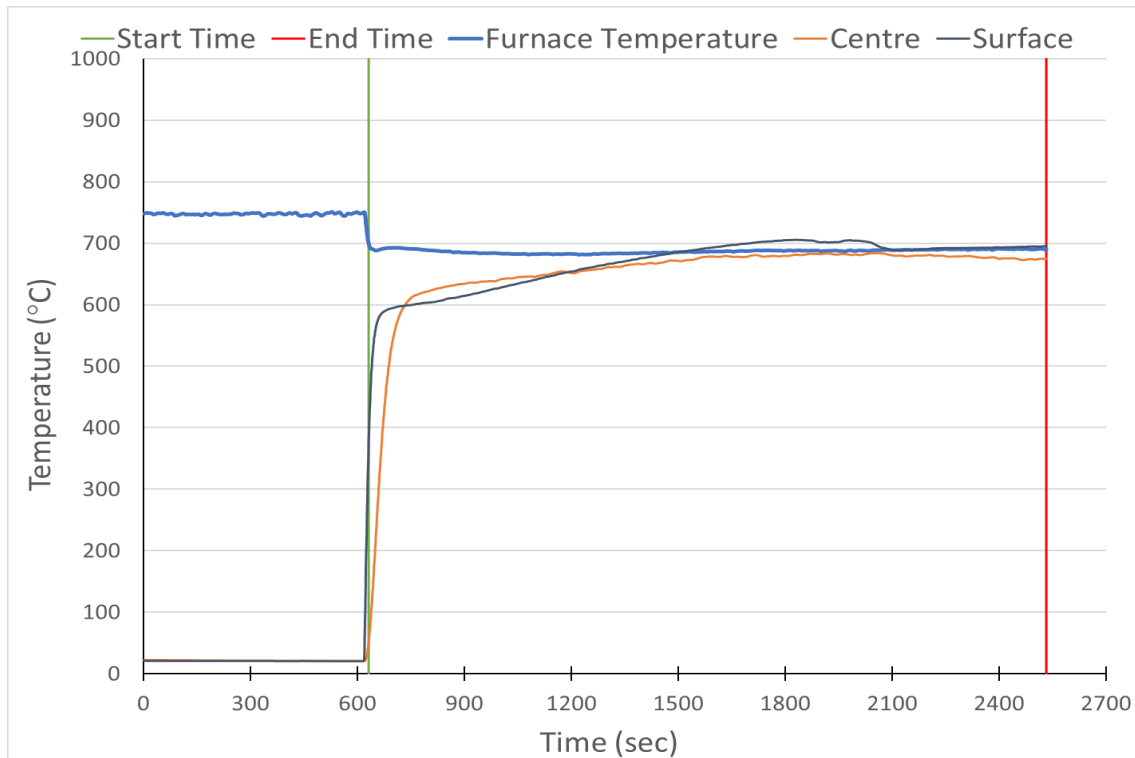


FIGURE 5:

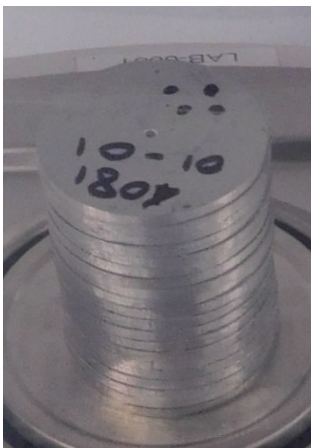
SPECIMEN 5 – TEST GRAPH



1.4 TEST IMAGES

FIGURE 6:

SPECIMEN 4 IMAGE BEFORE AND AFTER TEST



2 ALUMINIUM ALLOY 6061

2.1 TEST SUMMARY

SPONSOR:	Yuanda Australia Pty Ltd
ADDRESS:	Unit 503, 447 Kent Street Sydney NSW 2000
SAMPLE IDENTIFICATION:	Silver aluminium discs
TRADE NAME:	Aluminium alloy 6061
DATE RECEIVED:	18.05.2020
DESCRIPTION OF MATERIAL:	The sponsor described the material as Anodised AA25 aluminium alloy with a nominal mass per unit area of 8.1kg/m ² and a nominal thickness of 3mm. The colour of the specimen is silver and the end use being multiple purpose in building façade.
CONSTRUCTION OF TEST SPECIMEN:	The test specimen is cylindrical, and has – (a). Nominal diameter: 43.65 mm (b). Nominal height: 50.67 mm (c). Nominal volume: 75.79 cm ³ (d). Nominal mass: 207.36 g (e). Colour: Silver
TEST METHOD:	One (1) specimen was tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials. The test apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative insulating material was used to fill the annular space between the furnace tubes, as specified in clause 4.2 of ISO 1182:2010. Appendix A4 of AS 1530.1:1994 permits the use of only the furnace thermocouple for evaluating combustibility of thermally unstable materials and this is considered in this test. The testing of a single specimen is outside the methodology for minimum number of specimens. As a result, this test certificate is based on an indication of performance for a single specimen and shall be used for observation purposes only.
OBSERVATIONS:	None of the tested specimens ignited during the test. The tests was ended without the furnace thermocouple reaching equilibrium due to phase change of the specimen as it melted. This presented a risk of dislodging from the specimen holder.
TEST RESULTS:	Mean furnace thermocouple temperature rise ΔT_f : 2.6 °C Mean specimen centre thermocouple temperature rise ΔT_c : 2.4 °C Mean specimen surface thermocouple temperature rise ΔT_s : 15.54 °C Mean duration of sustained flaming: 0 seconds Mean mass loss: -0.04 %
COMBUSTIBILITY:	The material is NOT deemed COMBUSTIBLE according to the test criteria specified in clause 3.4 of as 1530.1- 1994.

These test results relate only to the behaviour of the test specimens of the material under the conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

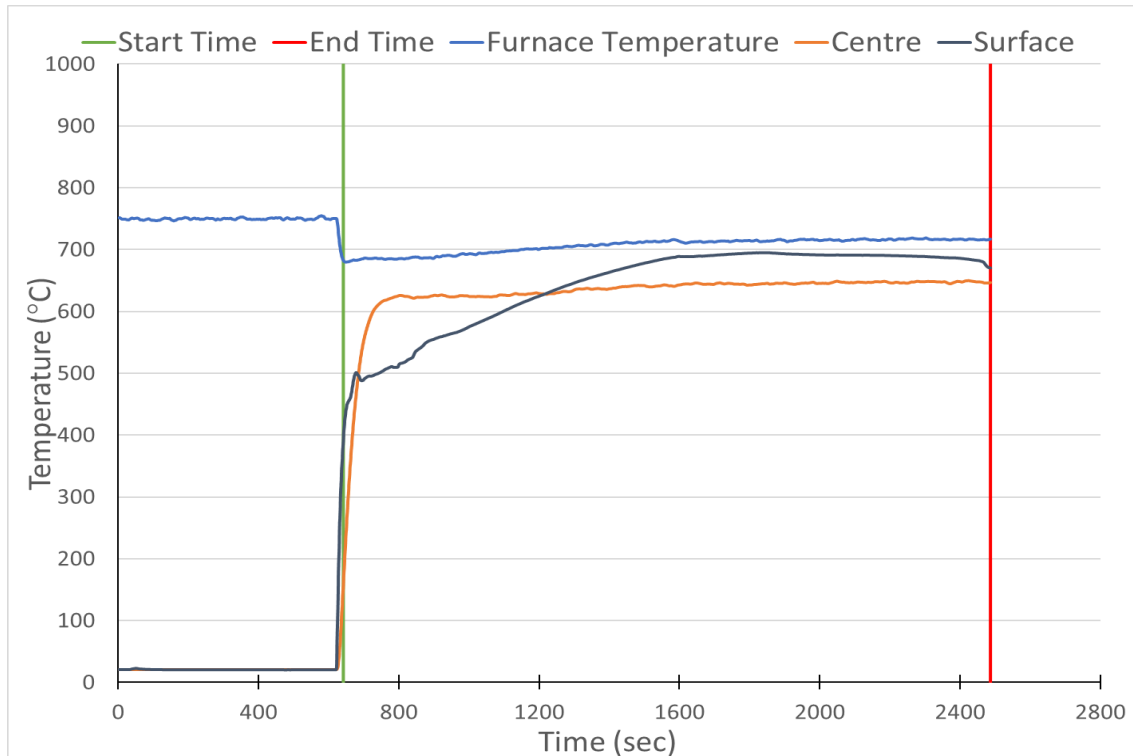
2.2 TEST CALCULATIONS

Parameter	Symbol or expression	Unit symbol	Results					Arithmetic (Mean)	Standard Deviation
			1	2	3	4	5		
Atmospheric temperature	-	°C	19.70						
Humidity	-	%RH	62.60						
Height	h	mm	50.67					50.67	0.00
Diameter	d	mm	43.65					43.65	0.00
Initial specimen volume	V	cm ³	75.79					75.79	0.00
Initial specimen mass	msi	g	207.36					207.36	0.00
Density	r	kg/m ³	2736.12					2736.12	0.00
Sample holder weight	w	g	0.00					0.00	0.00
Final specimen mass	msf	g	207.44					207.44	0.00
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	-0.04					-0.04	0.00
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00					0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	682.80					682.80	0.00
Maximum furnace thermocouple temperature	Tfm	°C	718.80					718.80	0.00
Final furnace thermocouple temperature	Tff	°C	716.20					716.20	0.00
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	2.60					2.60	0.00
Maximum specimen centre thermocouple temperature	Tcm	°C	649.80					649.80	0.00
Final specimen centre thermocouple temperature	Tcf	°C	647.40					647.40	0.00
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	2.40					2.40	0.00
Maximum specimen surface thermocouple temperature	Tsm	°C	695.00					695.00	0.00
Final specimen surface thermocouple temperature	Tsf	°C	679.46					679.46	0.00
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	15.54					15.54	0.00
Test duration	t	min	30.75					30.75	0.00

2.3 TEST RESULT GRAPHS

FIGURE 7:

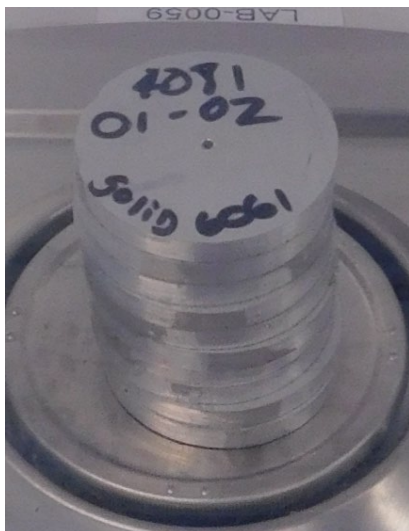
SPECIMEN 1 – TEST GRAPH



2.4 TEST IMAGES

FIGURE 8:

SPECIMEN 1 IMAGE BEFORE AND AFTER TEST



3 ALUMINIUM ALLOY 5005

3.1 TEST SUMMARY

SPONSOR:	Yuanda Australia Pty Ltd
ADDRESS:	Unit 503, 447 Kent Street Sydney NSW 2000
SAMPLE IDENTIFICATION:	Silver aluminium discs
TRADE NAME:	Aluminium alloy 5005
DATE RECEIVED:	18.05.2020
DESCRIPTION OF MATERIAL:	The sponsor described the material as Precoated aluminium extrusion with a nominal mass per unit area of 8.1kg/m ² and a nominal thickness of 3mm. The colour of the specimen is silver and the end use being multiple purpose in building façade.
CONSTRUCTION OF TEST SPECIMEN:	The test specimen is cylindrical, and has – (a). Nominal diameter: 44.45 mm (b). Nominal height: 50.71 mm (f). Nominal volume: 78.65 cm ³ (c). Nominal mass: 209.65 g (d). Colour: Gold
TEST METHOD:	One (1) specimen was tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials. The test apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative insulating material was used to fill the annular space between the furnace tubes, as specified in clause 4.2 of ISO 1182:2010. Appendix A4 of AS 1530.1:1994 permits the use of only the furnace thermocouple for evaluating combustibility of thermally unstable materials and this is considered in this test. The testing of a single specimen is outside the methodology for minimum number of specimens. As a result, this test certificate is based on an indication of performance for a single specimen and shall be used for observation purposes only.
OBSERVATIONS:	None of the tested specimens ignited during the test. The tests was ended without the furnace thermocouple reaching equilibrium due to phase change of the specimen as it melted. This presented a risk of dislodging from the specimen holder.
TEST RESULTS:	Mean furnace thermocouple temperature rise ΔT_f : 25.71 °C Mean specimen centre thermocouple temperature rise ΔT_c : 3.6 °C Mean specimen surface thermocouple temperature rise ΔT_s : 8.65 °C Mean duration of sustained flaming: 0 seconds Mean mass loss: 3.35 %
COMBUSTIBILITY:	The material is NOT deemed COMBUSTIBLE according to the test criteria specified in clause 3.4 of as 1530.1- 1994.

These test results relate only to the behaviour of the test specimens of the material under the conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

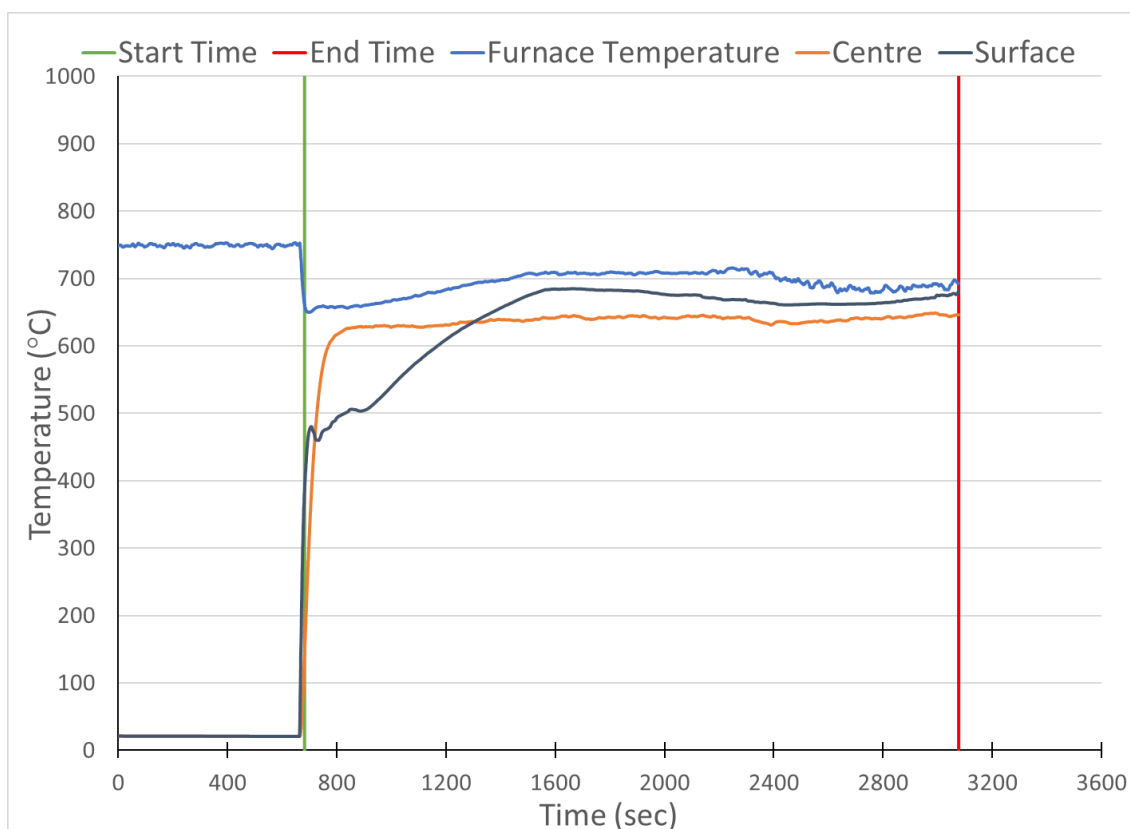
3.2 TEST CALCULATIONS

Parameter	Symbol or expression	Unit symbol	Results					Arithmetic (Mean)	Standard Deviation
			1	2	3	4	5		
Atmospheric temperature	-	°C	19.70						
Humidity	-	%RH	34.70						
Height	h	mm	50.71					50.71	0.00
Diameter	d	mm	44.45					44.45	0.00
Initial specimen volume	V	cm ³	78.65					78.65	0.00
Initial specimen mass	msi	g	209.65					209.65	0.00
Density	r	kg/m ³	2665.56					2665.56	0.00
Sample holder weight	w	g	0.00					0.00	0.00
Final specimen mass	msf	g	202.63					202.63	0.00
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	3.35					3.35	0.00
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00					0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	651.30					651.30	0.00
Maximum furnace thermocouple temperature	Tfm	°C	715.80					715.80	0.00
Final furnace thermocouple temperature	Tff	°C	690.09					690.09	0.00
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	25.71					25.71	0.00
Maximum specimen centre thermocouple temperature	Tcm	°C	648.90					648.90	0.00
Final specimen centre thermocouple temperature	Tcf	°C	645.30					645.30	0.00
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	3.60					3.60	0.00
Maximum specimen surface thermocouple temperature	Tsm	°C	685.00					685.00	0.00
Final specimen surface thermocouple temperature	Tsf	°C	676.35					676.35	0.00
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	8.65					8.65	0.00
Test duration	t	min	39.78					39.78	0.00

3.3 TEST RESULT GRAPHS

FIGURE 9:

SPECIMEN 1 – TEST GRAPH



3.4 TEST IMAGES

FIGURE 10:

SPECIMEN 1 IMAGE BEFORE AND AFTER TEST



4 ALUMINIUM ALLOY 3003

4.1 TEST SUMMARY

SPONSOR:	Yuanda Australia Pty Ltd		
ADDRESS:	Unit 503, 447 Kent Street Sydney NSW 2000		
SAMPLE IDENTIFICATION:	Silver aluminium discs		
TRADE NAME:	Aluminium alloy 3003		
DATE RECEIVED:	18.05.2020		
DESCRIPTION OF MATERIAL:	The sponsor described the material as Precoated aluminium extrusion with a nominal mass per unit area of 8.1kg/m ² and a nominal thickness of 3mm. The colour of the specimen is silver and the end use being multiple purpose in building façade.		
CONSTRUCTION OF TEST SPECIMEN:	The test specimens are cylindrical, and have – (a). Nominal diameter: 44.45 mm (b). Nominal height: 51.07 mm (g). Nominal volume: 79.22 cm³ (c). Nominal mass: 211.04 g (d). Colour: Silver		
TEST METHOD:	Five (5) specimens were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials. The test apparatus is constructed in accordance with the requirements of ISO 1182:2010 which has been verified to be equivalent to the apparatus requirements of AS 1530.1:1994 with the exception that a suitable alternative material was used to fill the annular space between the furnace tubes, as specified in clause 4.2 of ISO 1182:2010. Appendix A4 of AS 1530.1:1994 permits the use of only the furnace thermocouple for evaluating combustibility of thermally unstable materials and this is considered in this test.		
OBSERVATIONS:	None of the tested specimens ignited during the test. The tests was ended without the furnace thermocouple reaching equilibrium due to phase change of the specimen as it melted. This presented a risk of dislodging from the specimen holder.		
TEST RESULTS:	Mean furnace thermocouple temperature rise ΔT_f: 2.05 °C Mean specimen centre thermocouple temperature rise ΔT_c: 4.14 °C Mean specimen surface thermocouple temperature rise ΔT_s: 16.91 °C Mean duration of sustained flaming: 0 seconds Mean mass loss: 0.08 %		
COMBUSTIBILITY:	The material is NOT deemed COMBUSTIBLE according to the test criteria specified in clause 3.4 of as 1530.1- 1994.		

These test results relate only to the behaviour of the test specimens of the material under the conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

4.2 TEST CALCULATIONS

Parameter	Symbol or expression	Unit symbol	Results					Arithmetic (Mean)	Standard Deviation
			1	2	3	4	5		
Atmospheric temperature	-	°C	16.80	17.70	18.60	17.80	17.90		
Humidity	-	%RH	48.40	46.40	46.30	49.80	50.40		
Height	h	mm	51.42	50.95	51.69	50.37	50.90	51.07	0.51
Diameter	d	mm	44.00	44.74	44.43	44.44	44.66	44.45	0.29
Initial specimen volume	V	cm ³	78.15	80.06	80.10	78.09	79.69	79.22	1.02
Initial specimen mass	msi	g	211.32	211.11	210.99	210.86	210.90	211.04	0.19
Density	r	kg/m ³	2704.17	2636.96	2634.10	2700.25	2646.38	2664.37	34.87
Sample holder weight	w	g	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Final specimen mass	msf	g	211.32	211.11	211.00	210.87	210.73	211.01	0.23
Mass loss	$\Delta m = (msi - msf) / msi * 100$	%	0.00	0.00	0.00	0.00	0.08	0.08	0.04
Total duration of sustained flaming	Cumulative total of duration of flaming	s	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Initial furnace thermocouple temperature	Tfi	°C	642.60	647.50	649.20	634.90	646.00	644.04	5.66
Maximum furnace thermocouple temperature	Tfm	°C	693.30	699.30	704.10	703.70	713.40	702.76	7.37
Final furnace thermocouple temperature	Tff	°C	691.72	698.36	702.81	702.41	708.26	700.71	6.14
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	1.58	0.94	1.29	1.29	5.14	2.05	1.74
Maximum specimen centre thermocouple temperature	Tcm	°C	684.60	692.10	683.30	685.90	700.90	689.36	7.28
Final specimen centre thermocouple temperature	Tcf	°C	681.33	687.19	677.47	683.67	696.46	685.22	7.21
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	3.27	4.91	5.83	2.23	4.44	4.14	1.41
Maximum specimen surface thermocouple temperature	Tsm	°C	695.90	693.20	696.60	685.30	691.30	692.46	4.53
Final specimen surface thermocouple temperature	Tsf	°C	686.33	672.97	672.23	682.05	664.18	675.55	8.74
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{sm} - T_{sf}$	°C	9.57	20.23	24.37	3.25	27.12	16.91	10.14
Test duration	t	min	33.37	31.98	30.88	31.32	41.48	33.81	4.39

4.3 TEST RESULT GRAPHS

FIGURE 11:

SPECIMEN 1 – TEST GRAPH

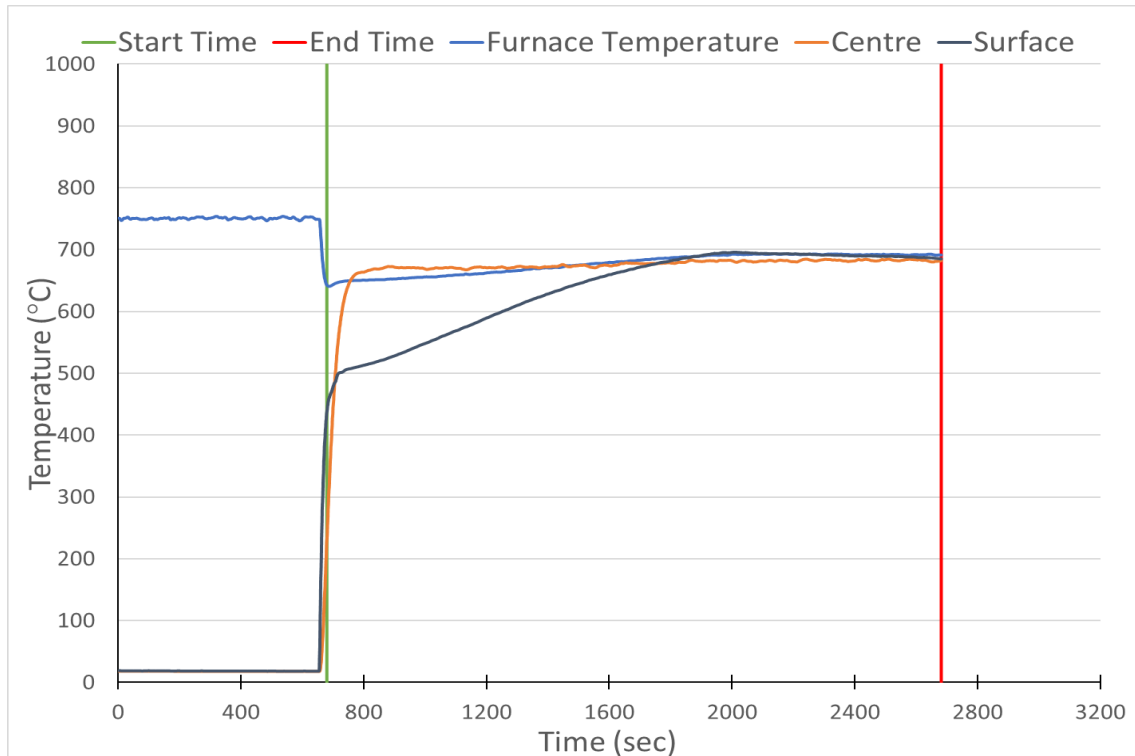


FIGURE 12:

SPECIMEN 2 – TEST GRAPH

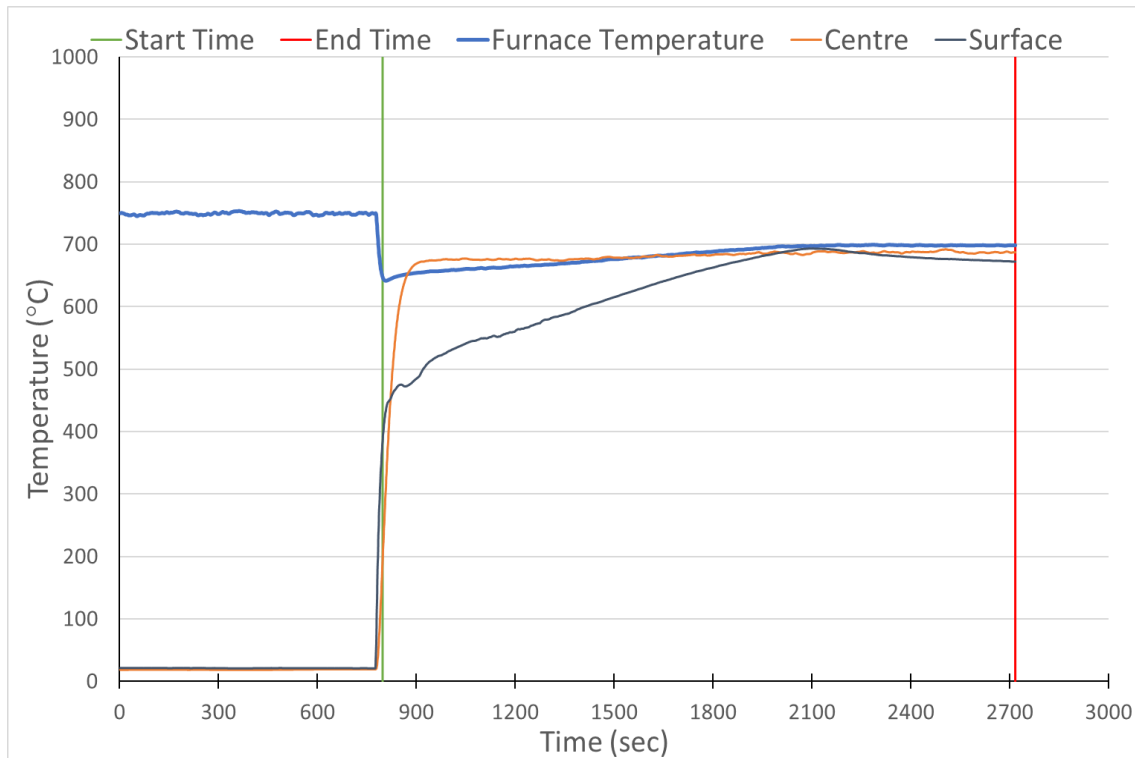


FIGURE 13:

SPECIMEN 3 – TEST GRAPH

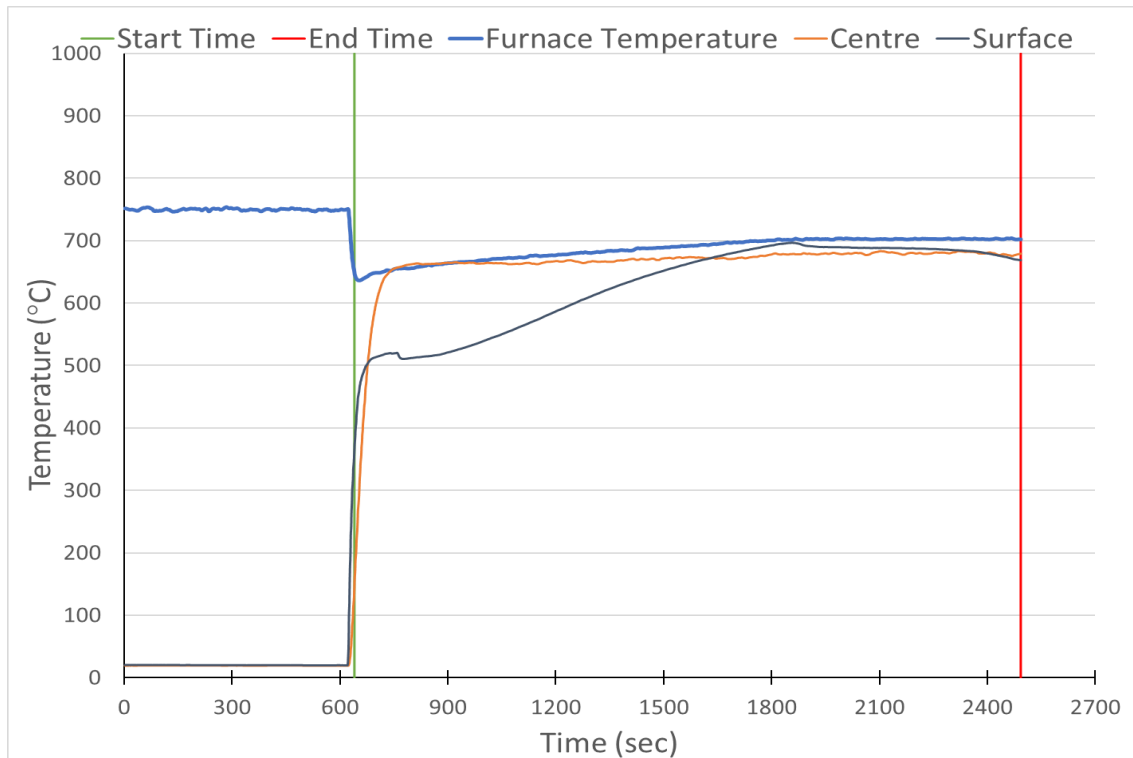


FIGURE 14:

SPECIMEN 4 – TEST GRAPH

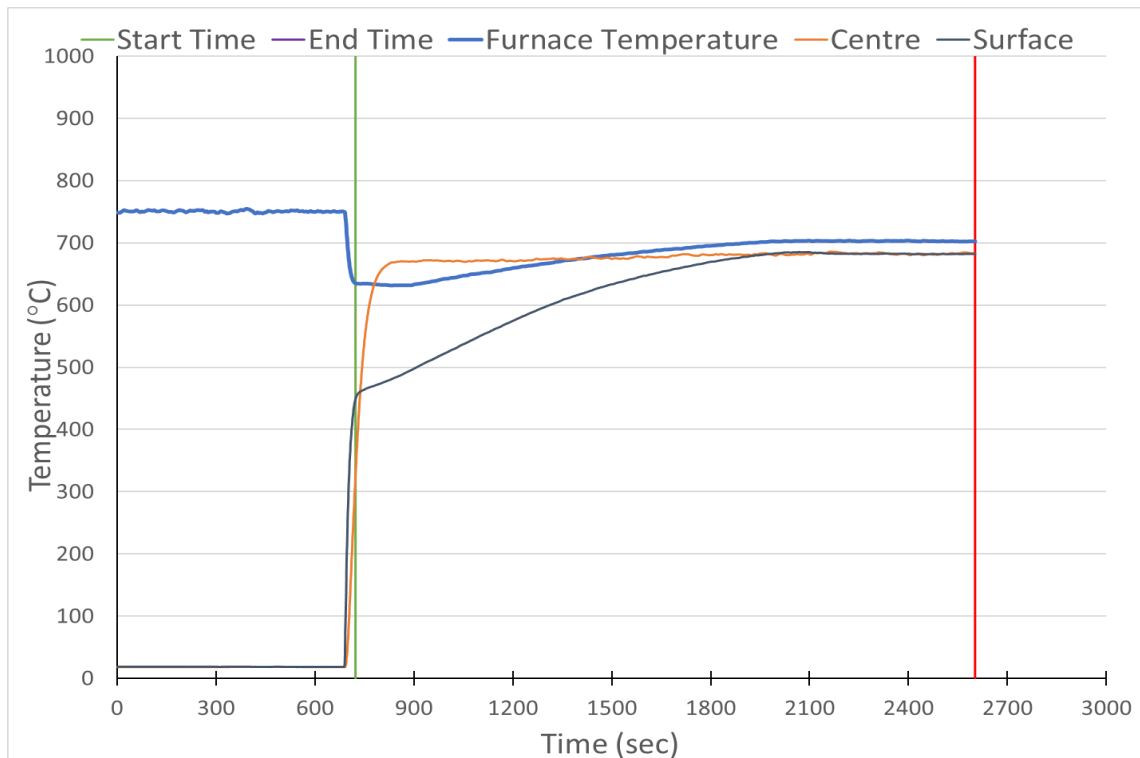
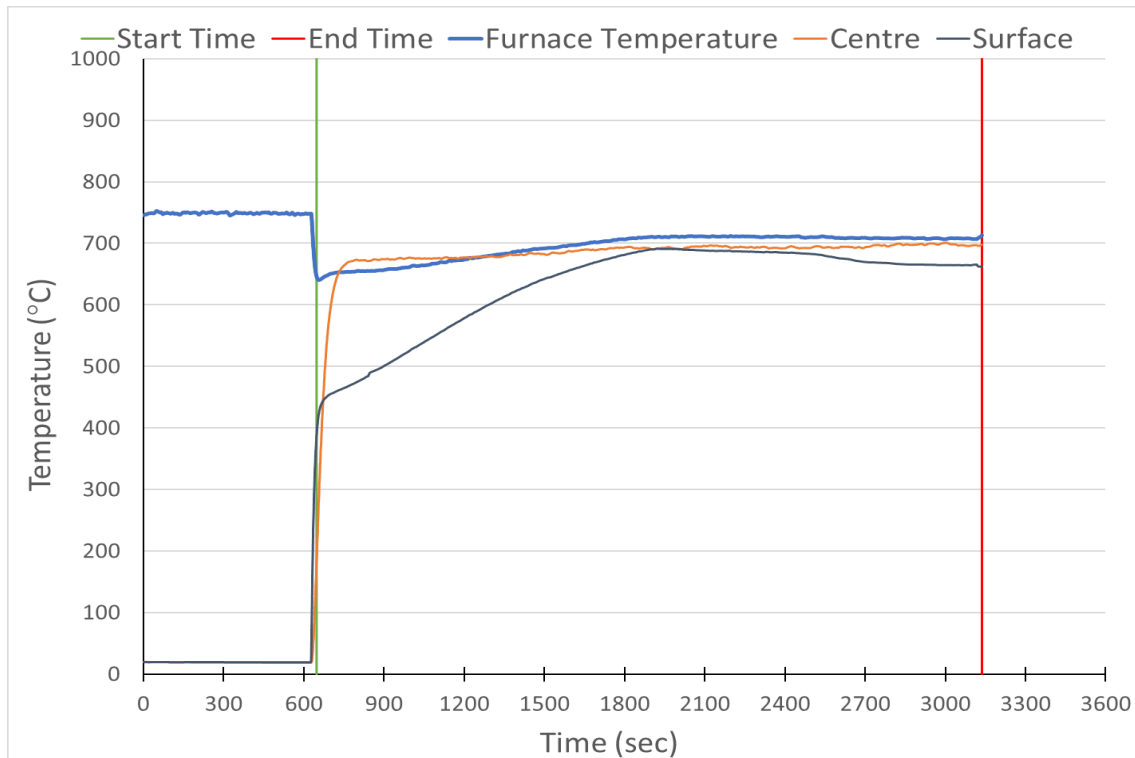


FIGURE 15:

SPECIMEN 5 – TEST GRAPH



4.4 TEST IMAGES

FIGURE 16:

SPECIMEN 4 IMAGE BEFORE AND AFTER TEST



5 CRITERIA OF COMBUSTIBILITY

Clause 3.4 of AS 1530.1:1994 (R2016) defines a combustible material as one for which; the duration of sustained flaming – as determined by summing the individual durations of flaming of 5 seconds or longer for all the samples and dividing by five, is greater than zero, or the arithmetic mean of the temperature rise of the furnace thermocouple exceeds 50°C or the arithmetic mean of the specimen surface thermocouple temperature rise exceeds 50°C.

Appendix A4 of AS 1530.1:1994 specifies that for thermally unstable materials, which are materials that melt or shrink at the test temperatures, the information recorded by the specimen thermocouples may not be relevant and regulating authorities may choose not to use the information.

Decision rule

Any measurement of the furnace temperature resulting in a temperature rise of 50°C or more is taken to meet the temperature rise criteria for combustibility.

Any sustained flaming of 5 seconds or longer for all the samples and dividing by five, is greater than zero is taken to meet the sustained flaming criteria for combustibility.

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