
Title:

The fire resistance performance of 2no. Horizontal linear joint seals, when tested in accordance with BS EN 1366-4:2021 and BS EN 1363-1: 2020 and 2no. Vertical linear joint seals, when tested to the general principles of BS EN 1366-4:2021 and BS EN 1363-1: 2020

Date Of Test:

15/02/2023

Issue 1 Issue Date:

24/07/2023

WF Report No:

WF 521940



Prepared for:

Timloc Building Products

Timloc House Unit 2
Ozone Business Park
Howden
DN14 7SD

Approved Body No: 1314



Test Specimen

Summary of Tested Specimen

The specimens were installed into AAC concrete slab type supporting constructions. Both vertical and horizontal construction had 2 no. apertures respectively to accommodate the 4 test specimens in total. The specimens were designated names A, B, C and D, with A / B being vertical C / D being horizontal.

The test specimens all comprised of compressed mineral wool based linear joint seals of varying widths and thicknesses, wrapped in polyethene sleeves and friction fitted within the cavity.

Detailed drawings of the test specimen and a comprehensive description of the test construction based on a detailed survey of the specimen and information supplied by the sponsor of the test are included in the Test Specimen and Schedule of Components sections of this report.

Performance Criteria and Test Results

Test results – Specimen A

Criteria	Results
Integrity	66 (sixty six) minutes*
Cotton pad	No integrity failure for this criteria
Sustained flaming	No integrity failure for this criteria
Gap gauge	No integrity failure for this criteria
Thermal Insulation	66 (sixty six) minutes*

* No failure of this test criteria was observed at termination of the test at 66 minutes

Test results – Specimen B

Criteria	Results
Integrity	66 (sixty six) minutes*
Cotton pad	No integrity failure for this criteria
Sustained flaming	No integrity failure for this criteria
Gap gauge	No integrity failure for this criteria
Thermal Insulation	66 (sixty six) minutes*

* No failure of this test criteria was observed at termination of the test at 66 minutes

Test results – Specimen C

Criteria	Results
Integrity	66 (sixty six) minutes*
Cotton pad	No integrity failure for this criteria
Sustained flaming	No integrity failure for this criteria
Gap gauge	No integrity failure for this criteria
Thermal Insulation	66 (sixty six) minutes*

* No failure of this test criteria was observed at termination of the test at 66 minutes

Test results – Specimen D



Criteria	Results
Integrity	66 (sixty six) minutes*
Cotton pad	No integrity failure for this criteria
Sustained flaming	No integrity failure for this criteria
Gap gauge	No integrity failure for this criteria
Thermal Insulation	66 (sixty six) minutes*

* No failure of this test criteria was observed at termination of the test at 66 minutes

Integrity: It is required that the test specimen of a separating element of building construction, when exposed to fire on one side, will prevent the passage of flames and hot gases through and prevent the occurrence of flames on the unexposed side.

Insulation: It is required that the maximum temperature rise shall not be greater than 180°C at any individual location. Insulation failure also occurs simultaneously with integrity failure.

Quality Management

Version	Date	Information about the report	
1	24 July 2023	Description	Initial issue
		Prepared by	
		Name	Adriano Montanino
		Signature	
		Authorised by	Fawaz Hashim
			

Signed for and on behalf of Warringtonfire Testing and Certification Limited

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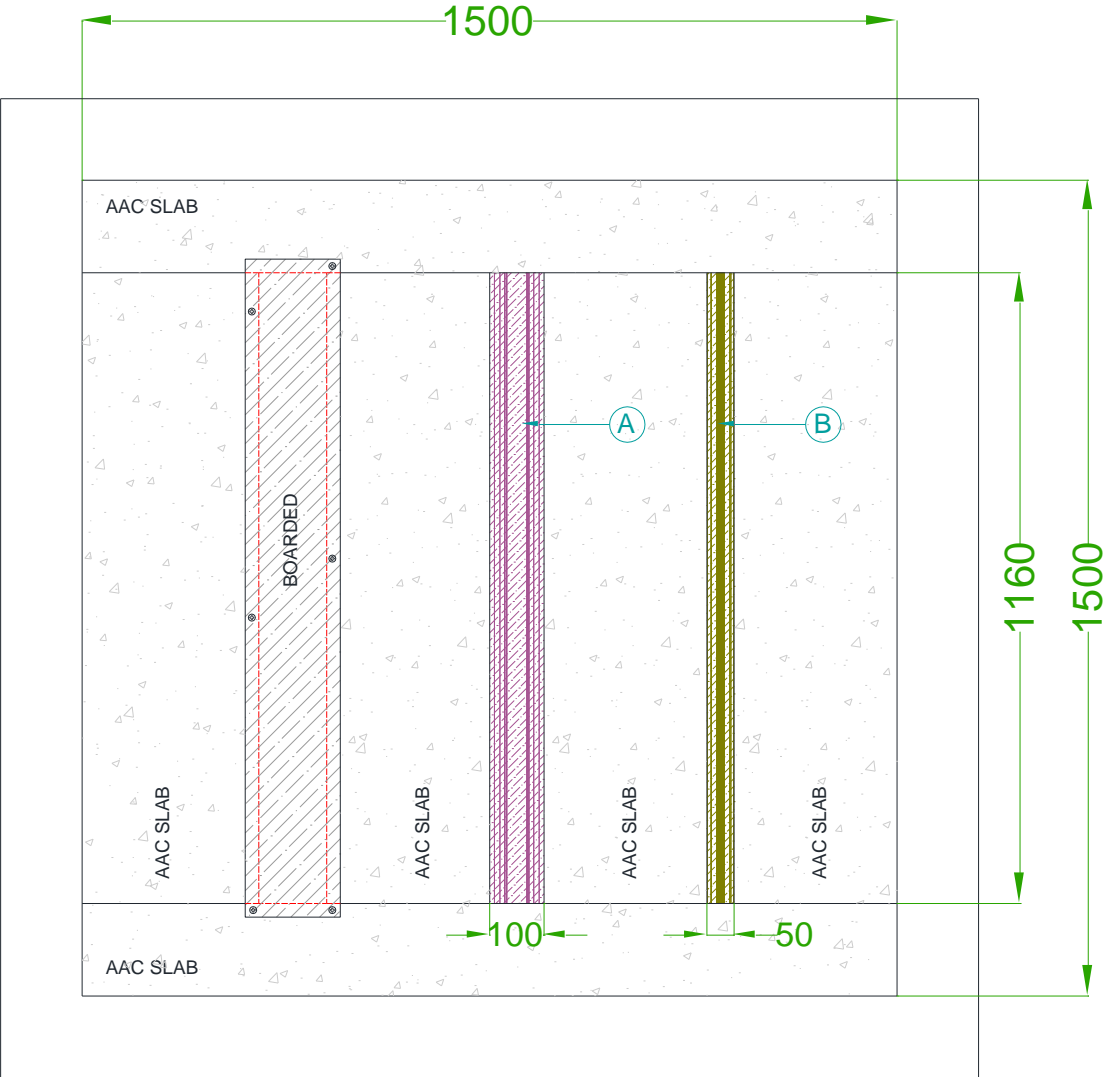
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Test Conditions

Standard	BS EN 1366-4: 2021, Fire resistance tests for service installations Part 4: Linear Joint Seals and BS EN 1363-1: 2020, Fire resistance tests Part 1: General requirements.
Deviations from test method	<p>The horizontal test construction was tested at a higher pressure than that specified in BS EN 1366-4: 2021, the standard required a maximum pressure of 20Pa at a height 100mm below the lowest part of the construction. The test was ran to a pressure of 17.1Pa at a height of 1m, equating to 23.6Pa at a height 100mm below the lowest part of the test construction. This deviation was agreed between the test sponsor and laboratory in advance of the test.</p> <p>Due to the design of the vertical test construction protruding in to the furnace opening, it was not possible to apply plate thermocouples, so there is no furnace temperature data that is applicable to the vertical test construction. As such it was not possible to test the vertical construction under the requirements of UKAS accreditation.</p>
Sampling	Warringtonfire was not involved in factory sampling of the products and materials used for the test specimen described in this report, and as such the results of this test apply to the sample as received.
Supporting Construction	Warringtonfire provided an autoclaved aerated concrete slab type supporting construction as defined in clause 7.3.2 of BSEN 1366-4:2021.
Installation	The components were received during the month of February. The specimens were installed directly into the supporting construction by representatives of by representatives of the client with the assistance of Warringtonfire , as necessary.
Induced Movement	The scope of this test did not include an induced movement to the installed sample, and hence it was not conducted.
Conditioning	Warringtonfire stored the specimens in climatic conditions approximate to those expected in normal service, and used the guidelines of Annex F.1 of BS EN 1363 – 1: 2020 to establish a suitable conditioned level where possible.
Ambient Temperature	The ambient air temperature in the vicinity of the test construction was 15°C at the start of the test with a maximum variation of -1°C during the test.
Furnace	The furnace was controlled so that its mean temperature of the horizontal test construction complied with the requirements of BS EN 1363-1: 2020 Clause 5.1 using five plate thermometers, distributed over a plane 100±50 mm from the surface of the test construction.
Thermocouples	<p>Thermocouples were provided to monitor the unexposed surface of the specimen at the positions described in BSEN 1366-4:2021. The output of all instrumentation was recorded at no less than one minute intervals. The locations and reference numbers of the various unexposed surface thermocouples are shown in Figure 1.</p> <p>A roving thermocouple was available to monitor any positions suspected of being at a greater temperature than indicated by fixed position thermocouples</p>
Furnace Pressure	After the first 5 minutes of the test, the furnace pressure was maintained at 17.1±5Pa and after 10 minutes was maintained at 17.1±3Pa with respect to atmosphere, equating to 15Pa at mid height of the vertical construction and 23.6Pa 100mm below the lowest part of the horizontal construction.

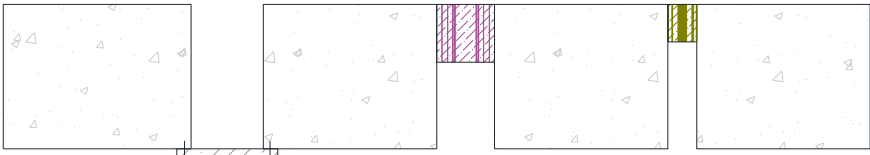
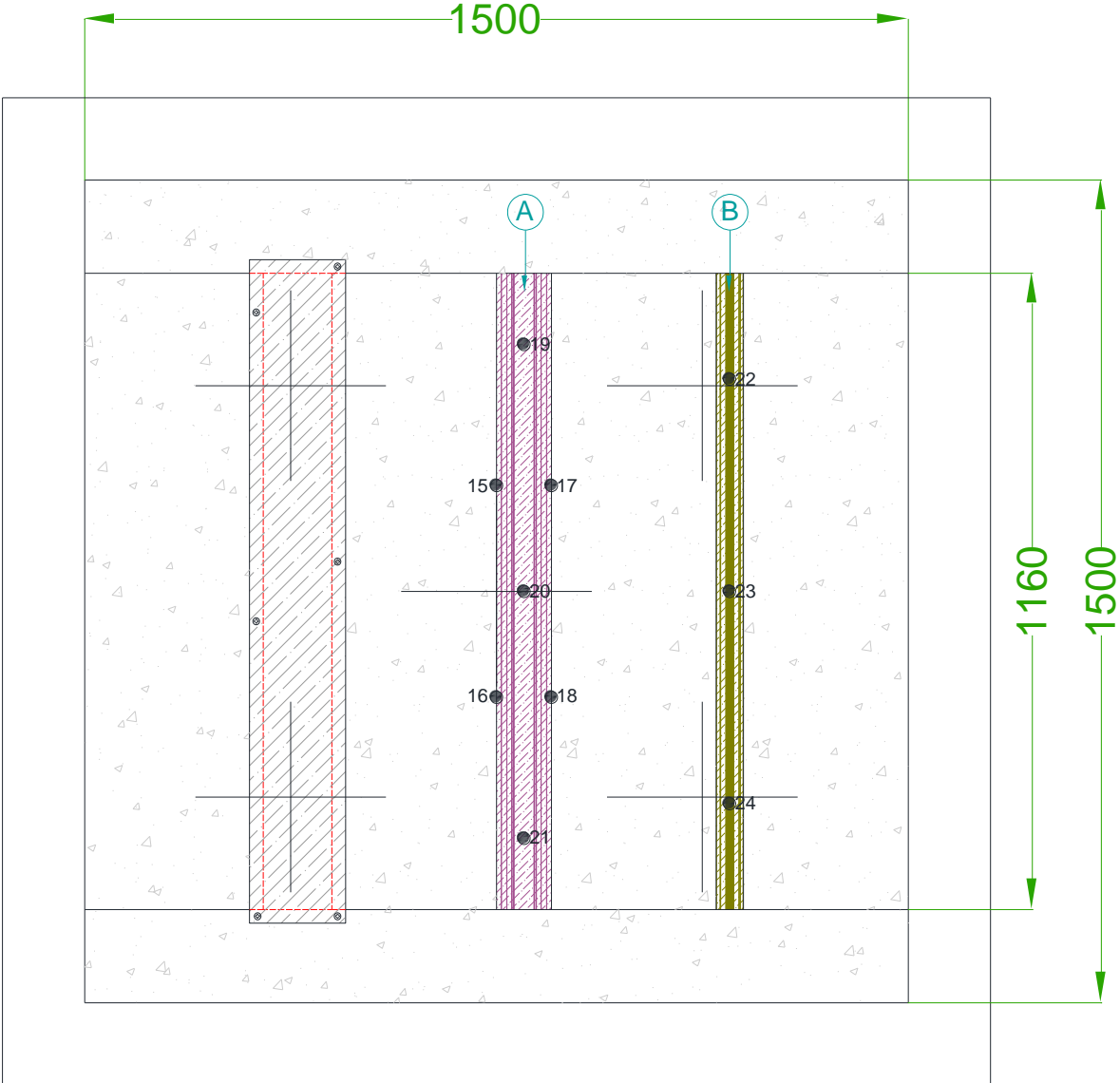
Test Specimen Drawings

Figure 1 – General elevation of the test construction - Specimen A & B



Do not scale. All dimensions are in mm

Figure 2 – Thermocouple Locations - Specimen A & B

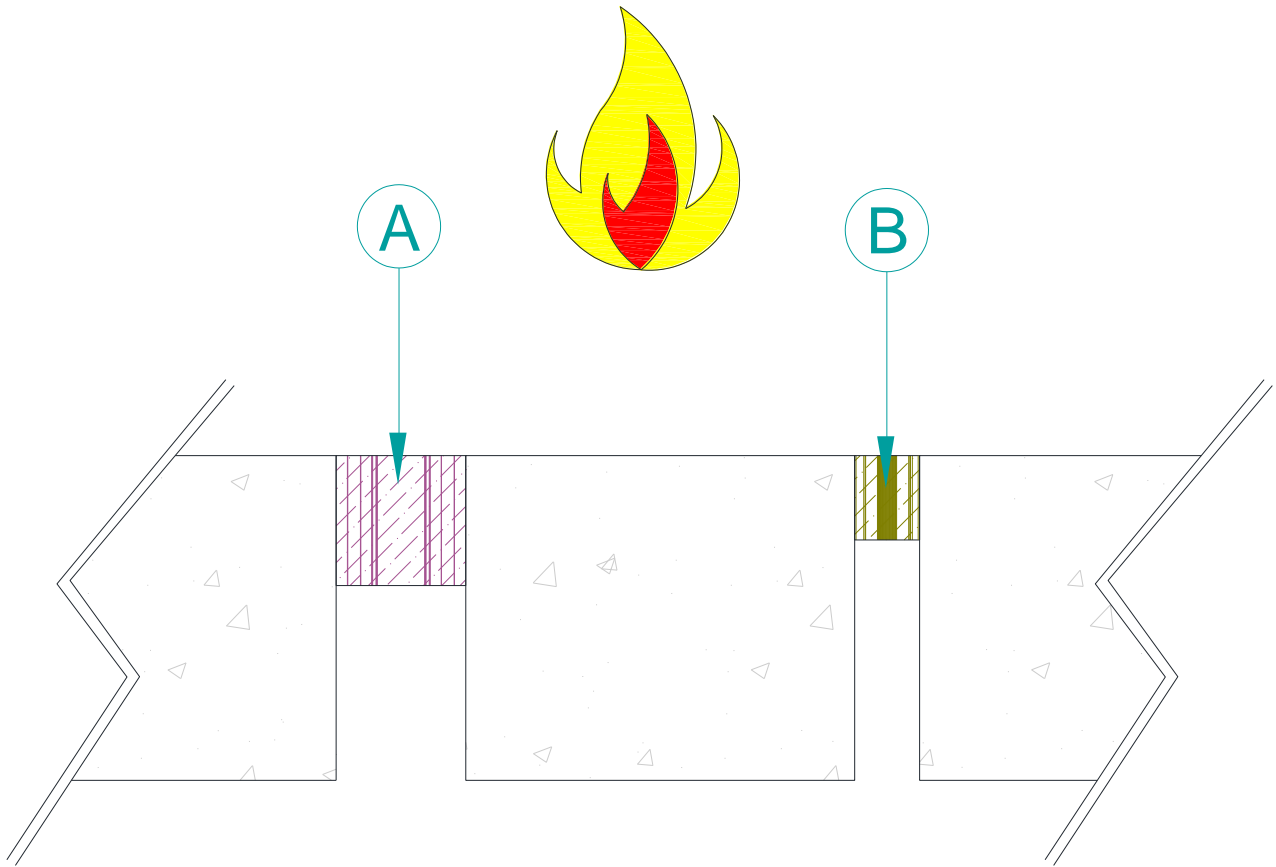


- ⊕ : Furnace Thermocouples
- : Unexposed Face Thermocouples

Viewed From Unexposed Face

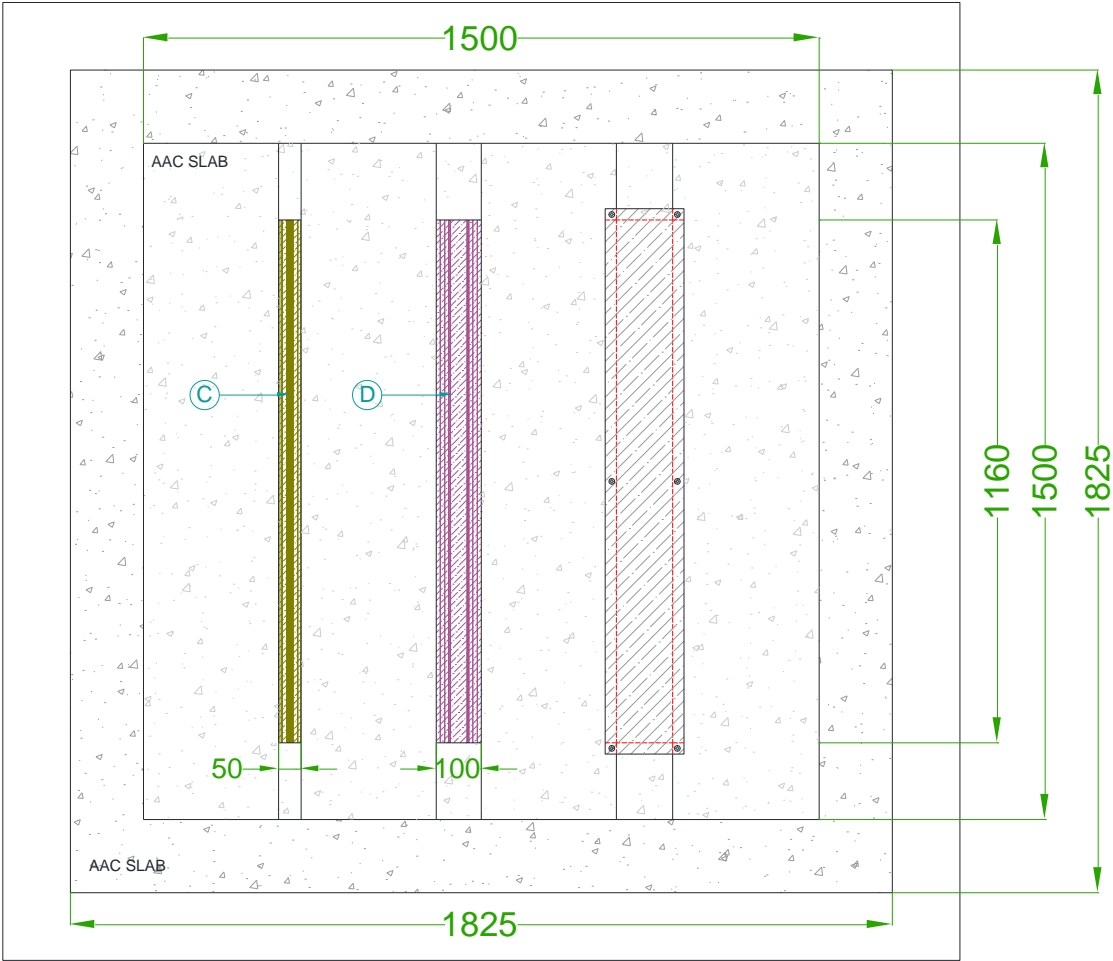
Do not scale. All dimensions are in mm

Figure 3 – Typical cross-section of horizontal construction – Specimen A & B



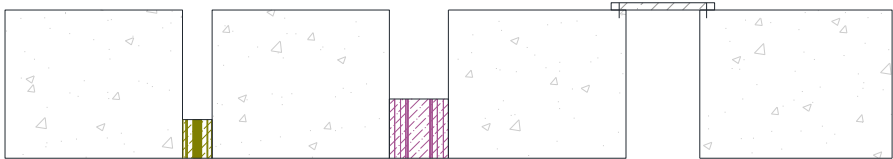
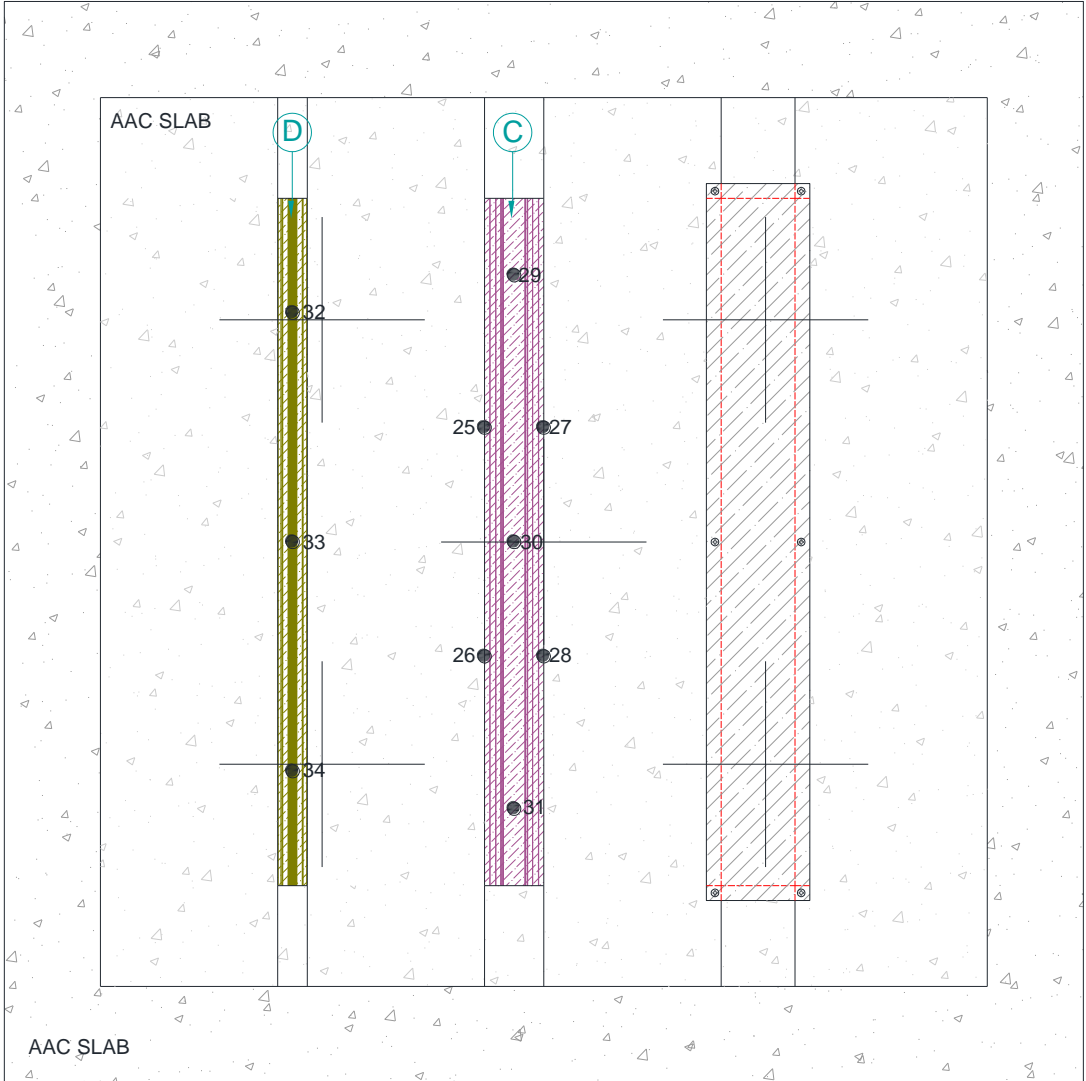
Do not scale. All dimensions are in mm

Figure 4 – General elevation of the test construction - Specimen C & D



Do not scale. All dimensions are in mm

Figure 5 – Thermocouple Locations - Specimen C & D

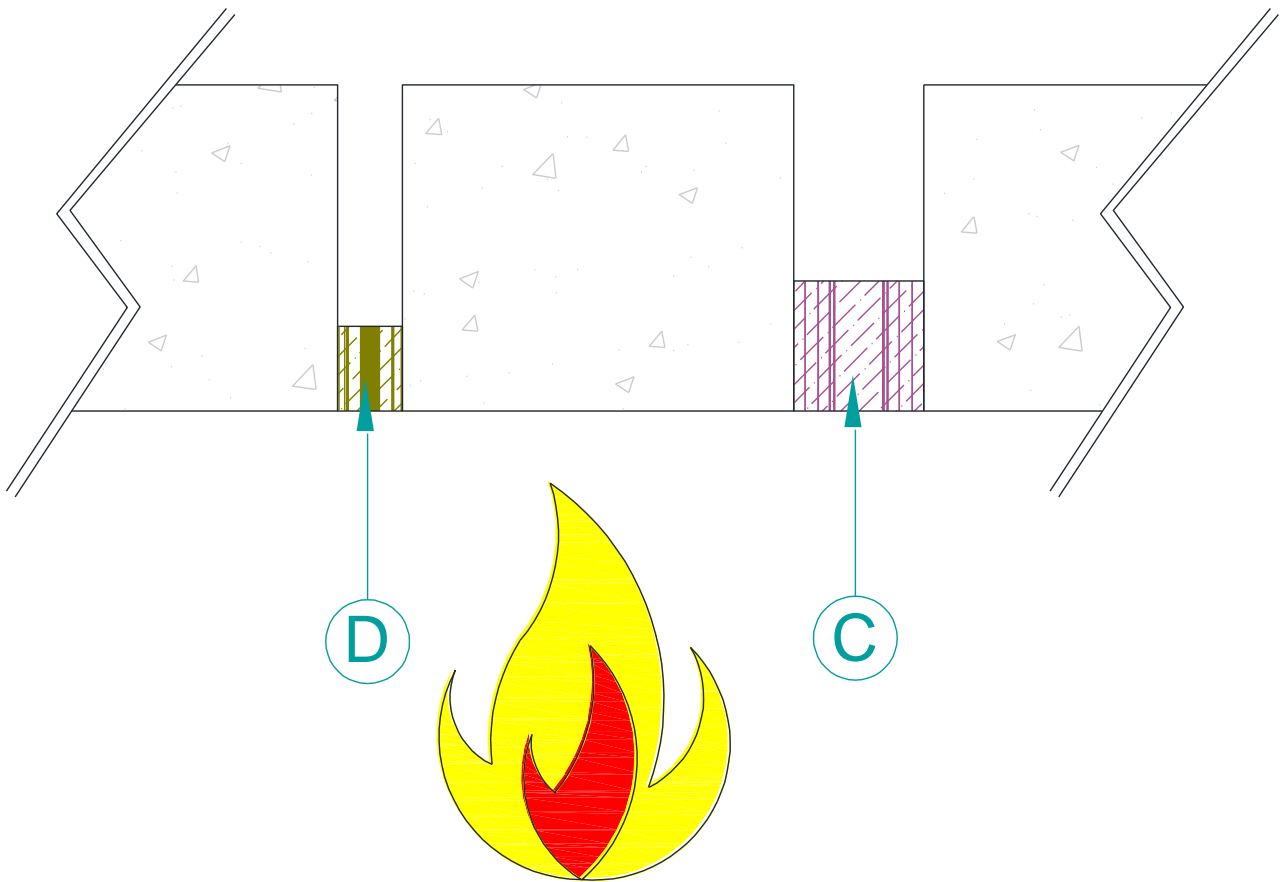


- ⊕ : Furnace Thermocouples
- : Unexposed Face Thermocouples

Viewed From Unexposed Face

Do not scale. All dimensions are in mm

Figure 6 – Typical cross-section of horizontal construction – Specimen C & D



Do not scale. All dimensions are in mm

Schedule of Components

(Refer to Figures 1 to 6)
(All values are nominal unless stated otherwise)
* Stated by sponsor, not verified by laboratory

Supporting Construction

Vertical construction		Detail	
Supporting construction type	Autoclaved Aerated Concrete Slabs		
Overall nominal dimensions	Width	1500mm	
	Height	1500mm	
	Depth	250mm	
Aperture dimensions	Width		Height
	Specimen A	100mm	1160mm
	Specimen B	50mm	1160mm
	Blanked off aperture 1	125mm	1160mm
Horizontal construction		Detail	
Supporting construction type	Autoclaved Aerated Concrete Slabs		
Overall nominal dimensions	Width	1825mm	
	Length	1825mm	
	Depth	250mm	
Aperture dimensions	Width		Length
	Specimen C	100mm	1160mm
	Specimen D	50mm	1160mm
	Blanked off aperture 2	125mm	1160mm

Specimen A

1. Linear Joint Seal		Description
Manufacturer	:	Timloc Building Products*
Reference	:	FRSTOP100 Stop Sock Masonry 60min - 100mm Cavity*
Material		
Body	:	Rockwool RWA45 Mineral wool insulation*
Film	:	Polythene sleeve- 35 micron thickness*
Batch Reference / Number	:	SAMPLE*
Density	:	45kg/m ³ *
Overall section size		
Width (uncompressed)	:	110mm*
Width (compressed)	:	100mm
Thickness	:	100mm*
Fixing method to supporting construction	:	Compression fit into cavity

Specimen B

2. Linear Joint Seal		Description
Manufacturer	:	Timloc Building Products*
Reference	:	FRSTOP50 Stop Sock Masonry 60min - 50mm Cavity*
Material		
Body	:	Rockwool RWA45 Mineral wool insulation*
Film	:	Polythene sleeve- 35 micron thickness*
Batch Reference / Number	:	SAMPLE*
Density	:	45kg/m ³ *
Overall section size		
Width (uncompressed)	:	65mm*
Width (compressed)	:	50mm
Thickness	:	65mm*
Fixing method to supporting construction	:	Compression fit into cavity

Specimen C

3. Linear Joint Seal		Description
Manufacturer	:	Timloc Building Products*
Reference	:	FRSTOP100 Stop Sock Masonry 60min - 100mm Cavity*
Material		
Body	:	Rockwool RWA45 Mineral wool insulation *
Film	:	Polythene sleeve- 35 micron thickness*
Batch Reference / Number	:	SAMPLE*
Density	:	45kg/m ³ *
Overall section size		
Width (uncompressed)	:	110mm*
Width (compressed)	:	100mm
Thickness	:	100mm*
Fixing method to supporting construction	:	Compression fit into cavity*

Specimen D

1. Linear Joint Seal		Description
Manufacturer	:	Timloc Building Products*
Reference	:	FRSTOP50 Stop Sock Masonry 60min - 50mm Cavity*
Material		
Body	:	Rockwool RWA45 - Mineral wool insulation*
Film	:	Polythene sleeve- 35 micron thickness*
Batch Reference / Number	:	SAMPLE*
Density	:	45kg/m ³ *
Overall section size		
Width (uncompressed)	:	65mm*
Width (compressed)	:	50mm
Thickness	:	65mm*
Fixing method to supporting construction	:	Compression fit into cavity*

Test Observations

Time		All observations are from the unexposed face unless noted otherwise.
mins	secs	
00	00	The test has started.
02	23	Specimen B. There is smoke issuing.
08	16	Specimen D. There is a gap visible approximately 10mm wide at the far end.
10	31	Specimen D. There is a gap visible approximately 8mm wide at the near end.
10	49	Specimen B. There is a gap visible at the bottom.
11	35	Specimen B. A 25mm gap gauge test was performed at the bottom. No failure.
13	01	Specimen D. A 25mm gap gauge test was performed at the front end. No failure.
13	25	Specimen B. There is an increase in smoke issuing.
20	00	There is no visible change.
30	00	There is no visible change.
40	00	There is no visible change.
41	25	Specimen A. There is a gap visible at the top.
42	00	Specimen A. A cotton pad test was performed at the top which did not ignite the cotton pad. No failure.
42	07	Specimen D. There is smoke issuing at the middle.
43	01	Specimen C. There is smoke issuing at the middle.
50	06	Specimen A. The plastic cover is melting at the top of the seal.
50	09	Specimen C. The plastic cover is melting.
56	51	There is no visible change.
59	25	Specimen D. There is an increase in smoke issuing at the middle.
66	00	Test terminated.

Test Photographs

The unexposed face prior to testing



Test Photographs

The unexposed face after a test duration of 10 minutes



Test Photographs

The unexposed face after a test duration of 20 minutes



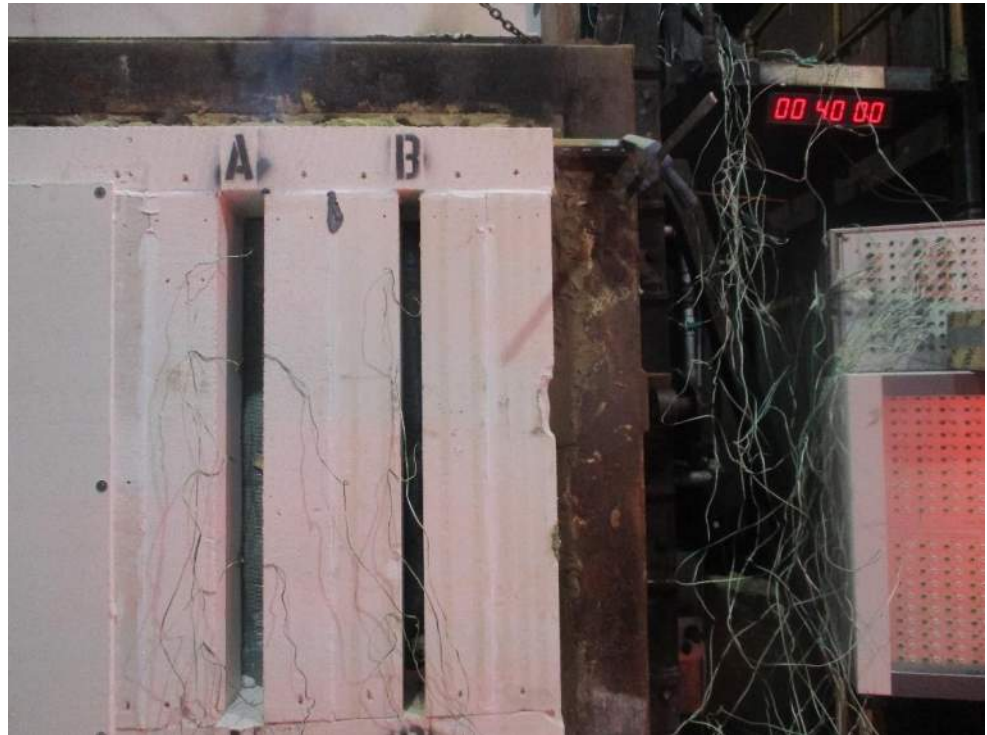
Test Photographs

The unexposed face after a test duration of 30 minutes



Test Photographs

The unexposed face after a test duration of 40 minutes



Test Photographs

The unexposed face after a test duration of 50 minutes



Test Photographs

The unexposed face after a test duration of 60 minutes



Test Photographs

The unexposed face after a test duration of 66 minutes 1 second



Temperature Data

Mean Furnace Temperature, Together With The Temperature/Time Relationship Specified In BS EN 1363-1: 2020

Time (min)	Mean Furnace (°C)	ISO834 (°C)
0	20	20
1	182	349
2	284	445
3	446	502
4	532	544
5	597	576
6	655	603
7	683	626
8	701	645
9	717	663
10	728	678
11	739	693
12	750	705
13	759	717
14	768	728
15	758	739
16	757	748
17	760	757
18	765	766
19	770	774
20	775	781
21	781	789
22	783	796
23	788	802
24	793	809
25	797	815
26	803	820
27	807	826
28	810	831
29	821	837
30	824	842
31	855	847
32	870	851
33	880	856

Time (min)	Mean Furnace (°C)	ISO834 (°C)
34	887	860
35	886	865
36	890	869
37	875	873
38	868	877
39	866	881
40	876	885
41	889	888
42	896	892
43	902	896
44	907	899
45	911	902
46	917	906
47	920	909
48	924	912
49	923	915
50	918	918
51	916	921
52	918	924
53	919	927
54	919	930
55	925	932
56	927	935
57	926	938
58	934	940
59	941	943
60	945	945
61	950	948
62	952	950
63	955	953
64	959	955
65	961	957
66	964	960

Individual Temperatures Recorded On The Unexposed Face Of Specimen A

Time (min)	Chan 15 °C	Chan 16 °C	Chan 17 °C	Chan 18 °C	Chan 19 °C	Chan 20 °C	Chan 21 °C
0	13	13	13	13	14	14	13
1	12	12	12	12	13	13	12
2	13	13	13	13	14	14	13
3	13	13	13	13	14	14	13
4	13	13	13	13	14	14	13
5	13	13	13	13	14	14	13
6	13	13	13	13	14	14	13
7	13	12	13	12	15	14	13
8	13	13	13	13	15	15	14
9	13	12	13	13	16	15	14
10	13	13	13	13	16	16	15
11	13	13	13	13	17	17	15
12	13	13	13	13	18	18	16
13	13	13	14	13	19	20	16
14	13	13	14	14	19	21	15
15	14	14	14	14	20	22	14
16	14	14	14	14	21	23	14
17	14	14	14	14	22	24	13
18	14	14	15	14	22	25	13
19	14	14	15	15	23	26	13
20	15	15	15	15	24	27	13
21	15	15	15	15	25	29	13
22	15	15	15	15	26	30	13
23	15	15	16	16	27	32	14
24	16	16	16	16	28	33	14
25	16	16	16	16	29	35	14
26	16	16	16	17	30	36	14
27	17	17	17	17	30	38	14
28	17	17	17	18	31	39	14
29	17	18	17	18	32	40	14
30	18	18	18	18	33	42	14
31	18	18	18	19	33	43	14
32	18	18	18	19	34	44	14
33	18	19	18	20	35	45	14
34	19	19	18	20	36	46	14
35	19	20	19	21	36	48	14
36	19	20	19	21	37	49	14
37	20	20	19	22	38	51	14
38	20	21	20	23	39	53	15
39	20	21	20	23	40	55	15
40	21	22	21	24	41	56	15

Time (min)	Chan 15 °C	Chan 16 °C	Chan 17 °C	Chan 18 °C	Chan 19 °C	Chan 20 °C	Chan 21 °C
41	21	22	21	24	42	57	15
42	22	23	21	25	43	58	15
43	22	23	22	26	40	58	15
44	22	23	22	26	34	59	15
45	23	24	22	27	30	59	15
46	23	24	22	27	26	59	15
47	23	24	23	28	24	60	15
48	24	24	23	28	22	61	15
49	24	25	23	29	22	62	16
50	24	25	24	29	21	63	16
51	25	26	24	30	20	64	16
52	25	26	24	30	20	64	16
53	26	27	25	31	20	65	16
54	26	27	25	31	20	66	16
55	27	28	26	32	20	67	17
56	27	28	26	33	20	67	17
57	27	29	26	33	20	67	17
58	28	29	26	33	19	67	17
59	28	29	27	34	19	67	16
60	28	29	27	34	19	67	16
61	29	30	27	35	19	67	17
62	29	30	28	35	19	67	16
63	29	30	28	35	19	68	16
64	30	30	28	36	19	68	17
65	30	31	29	36	19	69	17
66	30	31	29	37	19	69	17

Individual Temperatures Recorded On The Unexposed Face Of Specimen B

Time (min)	Chan 22 °C	Chan 23 °C	Chan 24 °C
0	13	#	13
1	12	#	13
2	14	#	17
3	15	#	19
4	16	#	20
5	17	#	20
6	19	#	22
7	20	#	24
8	22	#	28
9	23	#	28
10	24	#	30
11	25	#	31
12	26	#	34
13	27	#	35
14	28	#	37
15	30	#	45
16	31	#	45
17	32	#	45
18	33	#	46
19	34	#	46
20	36	#	48
21	37	#	50
22	38	#	55
23	40	#	58
24	41	#	61
25	42	#	61
26	43	#	63
27	44	#	64
28	47	#	69
29	48	#	73
30	49	#	75
31	50	#	76
32	50	#	80
33	51	#	81

Time (min)	Chan 22 °C	Chan 23 °C	Chan 24 °C
34	53	#	84
35	54	#	87
36	55	#	93
37	57	#	103
38	57	#	101
39	57	#	100
40	59	#	100
41	61	#	102
42	62	#	103
43	62	#	101
44	62	#	102
45	63	#	104
46	64	#	107
47	65	#	107
48	66	#	109
49	67	#	114
50	68	#	115
51	68	#	115
52	69	#	117
53	70	#	120
54	71	#	129
55	72	#	132
56	72	#	132
57	72	#	136
58	72	#	134
59	72	#	136
60	72	#	137
61	73	#	139
62	73	#	141
63	74	#	142
64	74	#	144
65	75	#	142
66	76	#	148

Thermocouple number 23 malfunctioned from the start of the test, the affected data has been omitted.

Individual Temperatures Recorded On The Unexposed Face Of Specimen C

Time (min)	Chan 25 °C	Chan 26 °C	Chan 27 °C	Chan 28 °C	Chan 29 °C	Chan 30 °C	Chan 31 °C
0	12	12	12	12	12	12	12
1	12	12	12	12	11	11	11
2	12	13	12	13	12	12	19
3	13	13	12	13	15	15	27
4	13	14	13	14	29	29	32
5	13	14	13	14	43	47	40
6	14	14	14	14	51	55	44
7	14	14	14	15	56	59	46
8	14	14	14	15	58	61	48
9	14	15	14	15	60	63	49
10	14	15	15	15	63	66	50
11	15	15	15	15	65	68	51
12	15	15	15	16	67	71	54
13	15	15	16	16	70	73	56
14	16	16	16	16	73	75	58
15	16	16	16	17	75	76	60
16	16	16	16	17	76	77	61
17	16	16	17	17	77	78	62
18	17	17	17	17	79	78	64
19	17	17	17	17	80	78	64
20	17	17	17	18	81	78	65
21	17	17	17	18	82	79	66
22	17	17	18	18	84	80	67
23	17	17	18	18	84	80	67
24	17	18	18	18	85	81	68
25	18	18	18	19	86	82	69
26	18	18	18	19	87	83	69
27	18	18	18	19	88	84	70
28	18	18	19	19	89	86	70
29	18	18	19	19	91	88	71
30	18	18	19	19	93	90	72
31	19	19	19	20	96	93	72
32	19	19	19	20	99	95	73
33	19	19	19	20	102	97	74
34	19	19	19	20	104	99	74
35	19	19	20	20	106	102	75
36	19	19	20	20	107	105	76
37	20	19	20	20	108	106	78
38	20	19	21	20	109	107	80
39	21	19	21	20	110	108	82
40	20	20	21	21	110	109	85

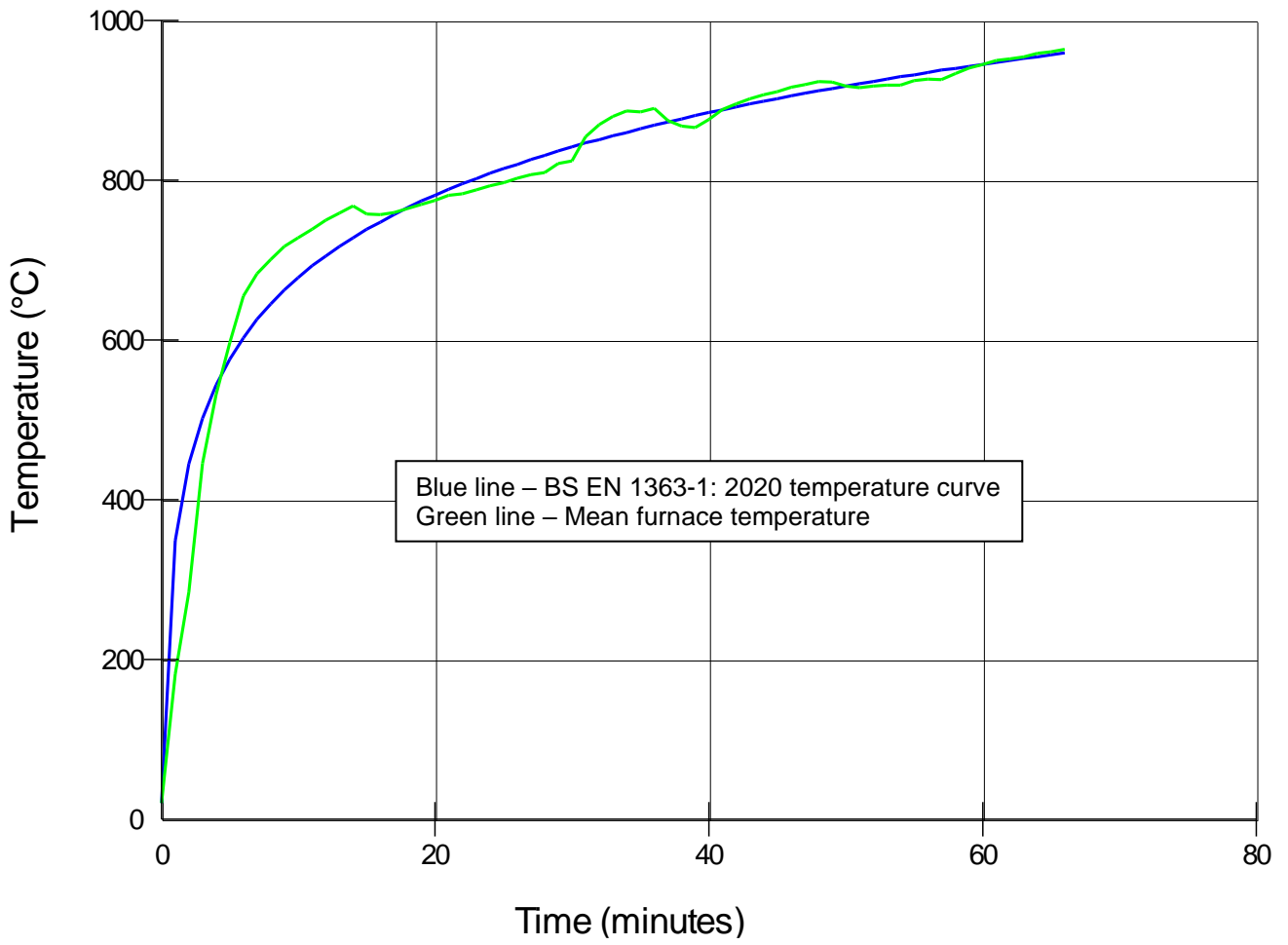
Time (min)	Chan 25 °C	Chan 26 °C	Chan 27 °C	Chan 28 °C	Chan 29 °C	Chan 30 °C	Chan 31 °C
41	20	20	21	21	111	110	86
42	21	20	22	21	111	109	87
43	21	20	22	21	113	110	88
44	22	20	22	21	114	110	89
45	21	21	22	22	116	111	91
46	22	20	22	22	119	110	92
47	22	21	23	22	120	111	93
48	22	21	23	22	121	112	94
49	23	21	23	22	122	112	94
50	23	21	23	22	123	113	95
51	23	21	24	22	123	114	96
52	23	21	24	22	122	115	98
53	22	22	23	23	122	117	106
54	22	22	23	24	122	118	109
55	23	23	24	24	123	119	111
56	23	23	24	24	124	120	110
57	23	23	24	24	125	122	108
58	23	23	24	24	127	124	109
59	23	23	24	24	128	126	109
60	24	23	24	24	130	128	108
61	23	24	24	25	131	130	108
62	23	24	24	25	132	131	108
63	24	24	24	25	133	133	106
64	24	24	25	25	134	134	100
65	24	24	25	25	134	136	97
66	24	24	25	25	136	137	93

Individual Temperatures Recorded On The Unexposed Face Of Specimen D

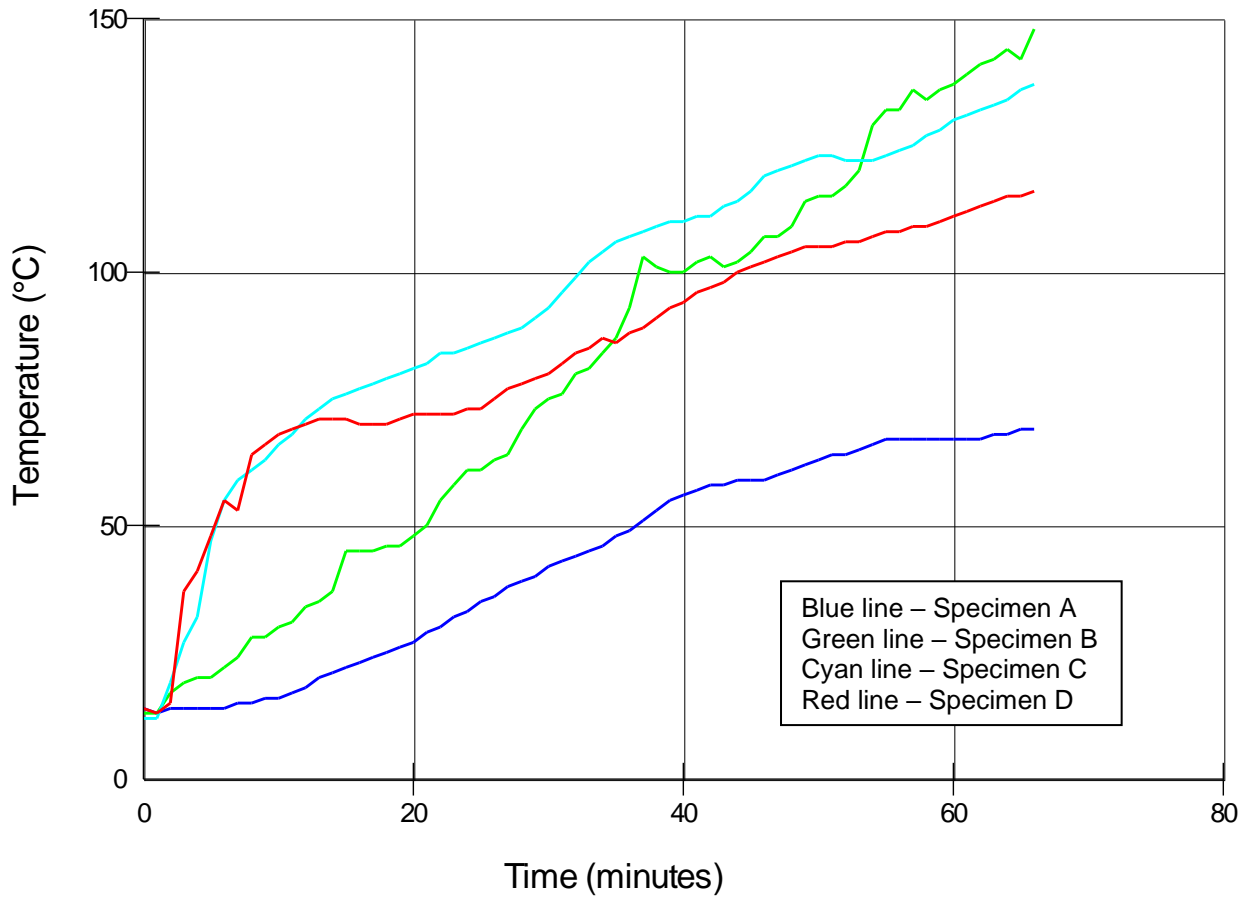
Time (min)	Chan 32 °C	Chan 33 °C	Chan 34 °C
0	14	11	11
1	13	11	11
2	14	12	15
3	14	19	37
4	14	26	41
5	14	32	48
6	14	36	55
7	14	40	53
8	15	43	64
9	14	46	66
10	14	50	68
11	15	54	69
12	15	57	70
13	15	59	71
14	15	60	71
15	15	61	71
16	15	62	70
17	15	63	70
18	15	63	70
19	16	64	71
20	16	65	72
21	16	65	72
22	16	66	72
23	16	66	72
24	17	66	73
25	17	67	73
26	17	67	75
27	17	68	77
28	17	68	78
29	17	68	79
30	18	69	80
31	18	69	82
32	18	70	84
33	18	71	85

Time (min)	Chan 32 °C	Chan 33 °C	Chan 34 °C
34	18	72	87
35	18	73	86
36	19	74	88
37	19	75	89
38	19	75	91
39	19	77	93
40	19	77	94
41	20	77	96
42	20	78	97
43	20	78	98
44	20	79	100
45	21	79	101
46	21	79	102
47	21	80	103
48	21	80	104
49	22	81	105
50	22	80	105
51	22	80	105
52	22	80	106
53	22	80	106
54	22	81	107
55	23	82	108
56	23	83	108
57	23	83	109
58	24	82	109
59	24	82	110
60	24	82	111
61	24	83	112
62	25	84	113
63	25	86	114
64	25	87	115
65	25	88	115
66	26	88	116

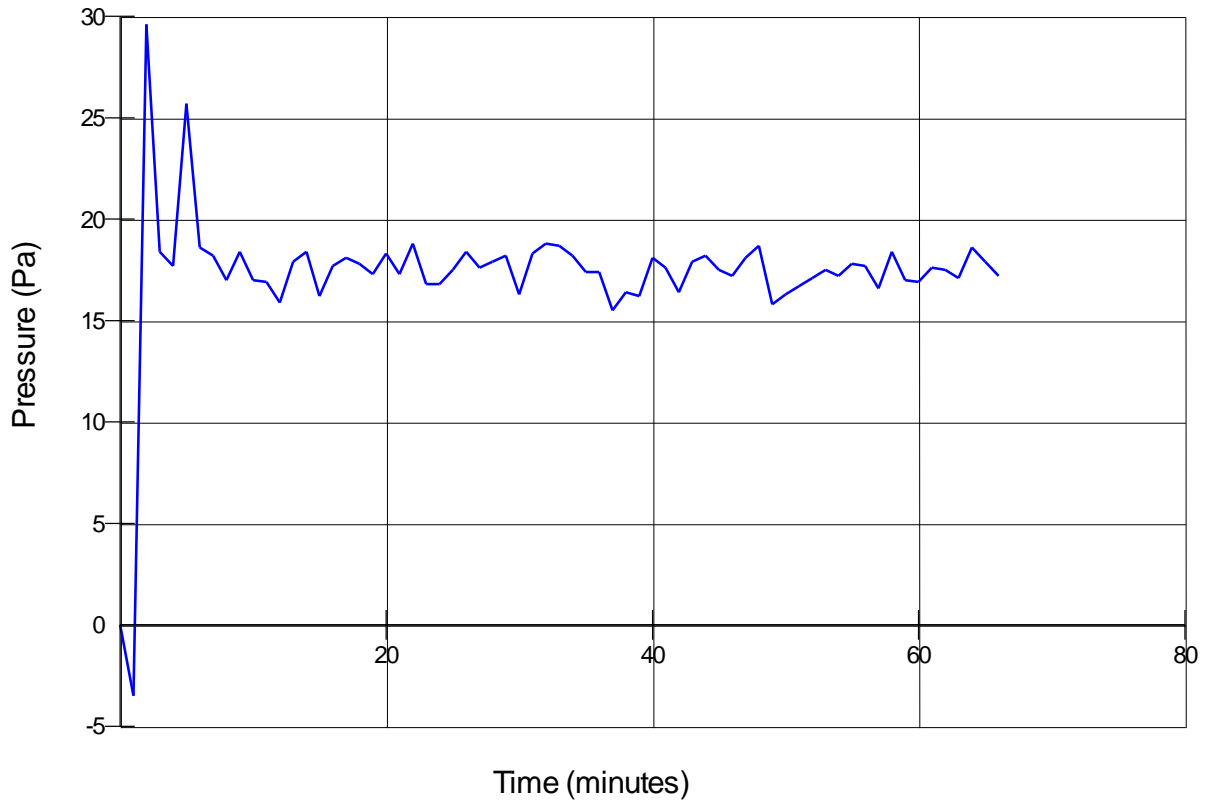
Graph Showing Mean Furnace Temperature, Together With The Temperature/Time Relationship Specified In BS EN 1363-1: 2020



Graph Showing Maximum Temperatures Recorded On The Unexposed Surface Of Both Test Constructions



Graph Showing Recorded Furnace Pressure At 1.0 m From The Furnace Floor



On-going Implications

Limitations

This report details the method of construction, the test conditions and the results obtained when the specific element of construction described herein was tested following the procedures outlined in BS EN 1363-1, using the test method stated in BS EN 1366-4: 2021, Fire resistance test for service installations – Part 4: Linear joint seals.

Any significant deviation with respect to size, construction details, loads, stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

The results only relate to the behaviour of the element of construction under the particular conditions of test; they are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. Warringtonfire will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result.

EGOLF

Certain aspects of some fire test specifications are open to different interpretations. EGOLF have identified a number of such areas and have agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Resolutions are applicable to this test they have been followed.

Field of Direct Application

BS EN 1363-1:2020, Fire resistance tests - Part 1: General requirements, states within Section 12.1, Clause v) that “The field of direct application of the results taken from the appropriate standard (or the test method) for the specimen being evaluated, either in the form of the full text from the appropriate standard or only those clauses which are relevant for the specimen tested” shall be included within the test report. The full text of the field of direct application for the results of the specimen being evaluated herein, can be found within the appropriate test standard, which is referenced on the front cover of this report.