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Client: Alpha Division of CS-Interglas Ltd Sherborne Dorset DT9 3RB	

**TEST  
REPORT**

**REPORT ON THE FIRE TESTING OF AN ALPHA  
MARITEX CLOTH REF NO. 3200/2/SP 'FIRE SCREEN'  
TEST DATE: 5 MARCH 1996**

Issue	Issued by	Date	Approved by	Date
<b>A</b>	S Pallister		M R Gardner	
(Original)	<i>S. Pallister</i>	<i>9/7/96</i>	<i>M R Gardner</i>	<i>9/7/96</i>



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Revision Sheet

Pages Affected	Section	Date	Revision Summary	Revised By
None				

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## **SUMMARY**

A fire test to BS 476 Part 20 and 22 was carried out on Alpha Maritex Cloth Ref No. 3200/2/SP, at the Faverdale Technology Centre Site, Newton Aycliffe on 5 March 1996 and followed the Cellulosic time/temperature curve detailed in BS 476, Part 20.

The pass/fail criteria detailed in BS 476, Part 20, Section 10.3 was applied.

The Alpha Maritex cloth maintain the criteria for integrity for 75 minutes test duration when a gap greater than 6mm over a distance of 150mm appeared.

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 five years old should be considered by the user. The laboratory that issued the report 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.

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## 1. INTRODUCTION

A fire test to BS 476 Part 20 and 22 was carried out on an Alpha Maritex cloth Ref No. 3200/2/SP, supplied by Alpha Division of CS-Interglas Ltd. The test followed the BS 476 Part 20 cellulosic curve.

The aim of the test was to see if the cloth could withstand a BS 476 Part 20 fire test with regards to integrity only.

The test was conducted on 5 March 1996 at the Faverdale Technology Centre site, Newton Aycliffe.

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## 2. TEST EQUIPMENT

The furnace was the 3 metre square panel furnace manufactured by Furnace Construction Company Ltd and situated at the Faverdale Technology Centre site, Newton Aycliffe.

The furnace consisted essentially of a furnace-brick lined chamber measuring approximately 3m x 3m by 1m deep internally, the front face of which is formed by the test sample secured in a mounting frame. Heating of the furnace was achieved by 14 natural gas/air burners controlled by computer. Flue damper control is also computer controlled.

The 3m x 3m exposed area of the front face was reduced around two sides and the bottom edge by 350mm, 450mm and 400mm respectively using standard fire bricks. This left an exposed area of approximately 2600mm x 2200mm.

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### 3. SAMPLE DETAILS

The sample consisted of three 1270mm wide, lengths of Alpha Maritex cloth, ref 3200/2/SP. The construction of the cloth was as follows:

Glass fabric:	415 g/m <sup>2</sup>
Silver Polyurethane Coating:	20 g/m <sup>2</sup> per side

The lengths were sewn together, with approximately 75mm overlaps, using grade S-40-1 sewing thread (stainless steel reinforced). The sections of cloth were stitched together by the customer.

The edges of the cloth along the two sides and the bottom were secured to the unexposed side of the additional fire bricks using 50 x 50mm unistrut channel. The channel was bolted to the bricks using M6 x 55 through bolts at 250mm centres; the cloth being secured between the fire bricks and the channel. At the top the cloth end was secured to the detachable furnace frame fire bricks using 50 x 50mm unistrut channel which was bolted to the bricks using M12 rawl bolts, the cloth being secured between the channel and the bricks.

Joint configuration and further sample details are contained in Appendix A.

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#### 4. INSTRUMENTATION

Nine thermocouples, 1.5mm diameter metal sheathed, type K protrude through the rear of the furnace, supported by ceramic tube insulators, and were arranged such that they were evenly distributed over the exposed face of the test sample and with their hot junctions  $100 \pm 10$ mm from its face at the start of the test.

An Orion Delta Multi-task data processing and logging device (0077 FAV) with an accuracy of  $0.05^{\circ}\text{C}$  was connected in parallel with the resident computer in the furnace control facility. The thermocouple results were processed and printed to paper at the following intervals:

Test Duration (mins)	Scan Interval (mins)
0 - 10	1
10 - 30	2
30 on	5



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**5. PASS/FAIL CRITERIA**

The pass/fail criteria detailed in BS 476 Part 20, Section 10.3 was applied.

Any gaps, holes or fissures than opened up in the panel during the test would be assessed for failure of integrity using 6mm and 25mm gap gauges and/or cotton pad.

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## 6. TEST PROCEDURE

The cloth sample was secured to the brick wall built into the framework which forms the front vertical face of the furnace, and the framework located to the front of the furnace.

After the thermocouples were checked for correct functioning, the furnace was ignited and controlled by software of the resident computer, such that the mean furnace temperature followed the BS 476 Part 20 Cellulosic time/temperature curve and the pressure maintained at 8.5 Pa  $\pm$ 2.

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## 7. TEST RESULTS

- 7.1 The test was conducted on 5 March 1996.
- 7.2 Observations were made during the test on the general behaviour of the fire curtain and these are given in Section 8.
- 7.3 Furnace pressure readings are also given in Section 8.
- 7.4 The Alpha Maritex cloth maintained the criteria for integrity for 75 minutes test duration.
- 7.5 A graph of mean furnace temperature against time compared to the BS 476, Part 20, Cellulosic curve, together with fire curve accuracy check data, are given in Appendix B.
- 7.6 Complete data printouts are given in Appendix C.
- 7.7 A photographic record is contained in Appendix D.

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## 8. OBSERVATIONS

<u>Time (minutes/seconds)</u>	<u>Comments</u>
0	Immediate smoking from sample.
1	Sample discolouring in exposed area.
5	Cloth bowing inwards Negative furnace pressure
15	Cloth light to mid brown in colour on the unexposed side. Furnace pressure negative
30	Smoking ceased Furnace pressure -1 Pa
35	Furnace pressure 6.5 Pa
46	Left side of right section showing signs of splitting from centre section. Furnace pressure 10 Pa
55	Furnace pressure 9.5 Pa
60	Furnace pressure 9.5 Pa Cloth bowing outwards Furnace glow showing through cloth. Cloth showing further signs of splitting at the left side of right section - approximately 5-10mm from stitching, centre 1/3 of section.
70	Centre top of centre section of cloth is showing signs of splitting just below the unistrut channel.
75	Gap has appeared along the top of the centre section of cloth just below the unistrut channel. Gap was greater than 6mm over a distance of 150mm - integrity failure.
75	Test ended.

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## APPENDIX A

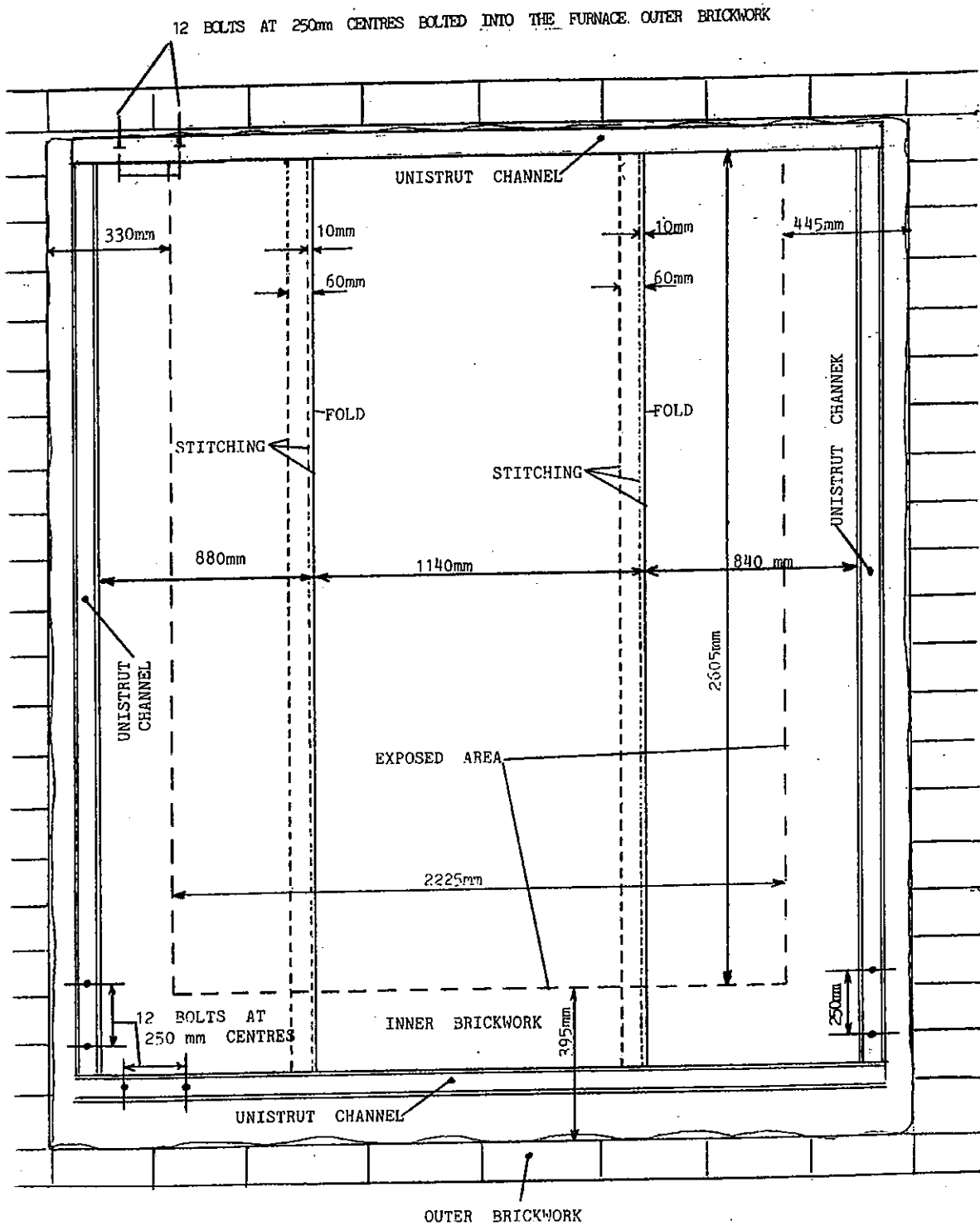
### 1. Sample Details

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#### **APPENDIX B**

1. Graph of mean furnace temperature against time compared to the BS 476 Part 20 Cellulosic time/temperature curve.
2. Fire curve accuracy check data.

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Simpson's Rule Numerical Integration					
	TEST DATA		BS 476 Pt 20(1987)		
Time, min.	Temp.	Cum. °C-min.	Temp.	Cum. °C-min.	limits
0	31		20		
1	421		349		
2	453		445		
3	455		502		
4	457		544		
5	539		576		
6	574		603		
7	590		626		
8	615		645		
9	637		663		4544
10	664	5154	678	5346	
12	691		705		6148
14	718		728		
16	742		748		
18	755		766		
20	774		781		
22	793		796		
24	803		809		
26	812		820		
28	825		832		18756
30	839	20486	842	20840	
35	864		865		22923
40	876		885		
45	903		902		36577
50	912	38105	918	38503	
55	932		932		40428
60	943		945		
65	954		957		54522
70	966	56951	968	57392	
75	980		979		60262



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**APPENDIX C**

Complete data printouts of thermocouple results

Channel No.	Location
1 - 9	Furnace
10	Ambient

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RUN 10:01:33 05-03

\*\*\*\*\*

SCAN (MINS) 0

FURNACE 31.2012

AMBIENT 10.9598

S T 6 10:09:39.7  
C 001 0035.2 deC  
C 002 0025.0 deC  
C 003 0031.2 deC  
C 004 0017.2 deC  
C 005 0034.1 deC  
C 006 0056.6 deC  
C 007 0042.2 deC  
C 008 0026.6 deC  
C 009 0018.7 deC  
C 010 0010.9 deC  
D T 6

\*\*\*\*\*

SCAN (MINS) 1.00000

FURNACE 421.158

AMBIENT 10.8095

S T 6 10:10:40.2  
C 001 0465.8 deC  
C 002 0473.5 deC  
C 003 0537.7 deC  
C 004 0461.6 deC  
C 005 0431.4 deC  
C 006 0348.3 deC  
C 007 0486.3 deC  
C 008 0429.8 deC  
C 009 0156.2 deC  
C 010 0010.8 deC  
D T 6

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SCAN (MINS) 2.00000

FURNACE 453.052

AMBIENT 11.0134

S T 6 10:11:39.7

C 001 0553.8 deC  
C 002 0493.4 deC  
C 003 0620.7 deC  
C 004 0509.7 deC  
C 005 0448.3 deC  
C 006 0398.7 deC  
C 007 0465.2 deC  
C 008 0418.4 deC  
C 009 0169.2 deC  
C 010 0011.0 deC

D T 6

\*\*\*\*\*

SCAN (MINS) 3.00000

FURNACE 454.869

AMBIENT 11.2945

S T 6 10:12:39.7

C 001 0551.1 deC  
C 002 0469.4 deC  
C 003 0616.6 deC  
C 004 0544.1 deC  
C 005 0447.4 deC  
C 006 0365.7 deC  
C 007 0487.5 deC  
C 008 0427.7 deC  
C 009 0180.5 deC  
C 010 0011.2 deC

D T 6

\*\*\*\*\*

SCAN (MINS) 4.00000

FURNACE 456.947

AMBIENT 11.1286

S T 6 10:13:39.7

C 001 0527.7 deC  
C 002 0488.3 deC  
C 003 0627.5 deC  
C 004 0501.4 deC  
C 005 0457.0 deC  
C 006 0404.0 deC  
C 007 0473.9 deC  
C 008 0432.9 deC  
C 009 0206.1 deC  
C 010 0011.1 deC

D T 6

\*\*\*\*\*

SCAN (MINS) 5.00000

FURNACE 538.610

AMBIENT 10.9837

S T 6 10:14:39.7

C 001 0641.4 deC  
C 002 0550.0 deC  
C 003 0601.0 deC  
C 004 0625.6 deC  
C 005 0536.9 deC  
C 006 0502.2 deC  
C 007 0565.5 deC  
C 008 0540.9 deC  
C 009 0288.8 deC  
C 010 0010.9 deC

D T 6

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SCAN (MINS) 6.00000

FURNACE 574.132

AMBIENT 11.0457

S T 6 10:15:40.2

C 001 00689 deC

C 002 0555.7 deC

C 003 0609.6 deC

C 004 0644.7 deC

C 005 0569.3 deC

C 006 0588.5 deC

C 007 0593.9 deC

C 008 0602.2 deC

C 009 0340.1 deC

C 010 0011.0 deC

D T 6

\*\*\*\*\*

SCAN (MINS) 7.00000

FURNACE 589.725

AMBIENT 11.0968

S T 6 10:16:39.7

C 001 00649 deC

C 002 0574.9 deC

C 003 0636.5 deC

C 004 0646.1 deC

C 005 0579.4 deC

C 006 0610.2 deC

C 007 0599.1 deC

C 008 0617.9 deC

C 009 0389.0 deC

C 010 0011.0 deC

D T 6

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SCAN (MINS) 8.00000

FURNACE 615.015

AMBIENT 11.0927

S T 6 10:17:39.7

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C 002 0581.4 deC

C 003 0639.7 deC

C 004 00671 deC

C 005 0591.0 deC

C 006 0639.3 deC

C 007 0621.9 deC

C 008 0638.2 deC

C 009 0452.3 deC

C 010 0011.0 deC

D T 6

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SCAN (MINS) 9.00000

FURNACE 637.494

AMBIENT 10.9211

S T 6 10:18:39.7

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C 002 0602.7 deC

C 003 00655 deC

C 004 00685 deC

C 005 0613.6 deC

C 006 00671 deC

C 007 0629.3 deC

C 008 00675 deC

C 009 0506.1 deC

C 010 0010.9 deC

D T 6

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SCAN (MINS) 10.0000

FURNACE 663.587

AMBIENT 11.2913

S T 7 10:19:39.7

C 001 00724 deC

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C 003 00677 deC

C 004 00712 deC

C 005 0625.4 deC

C 006 00683 deC

C 007 00659 deC

C 008 00692 deC

C 009 0551.6 deC

C 010 0011.2 deC

D T 7

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SCAN (MINS) 12.0000

FURNACE 691.410

AMBIENT 11.1894

S T 7 10:21:39.7

C 001 00738 deC

C 002 00684 deC

C 003 00691 deC

C 004 00734 deC

C 005 0644.9 deC

C 006 00712 deC

C 007 00696 deC

C 008 00726 deC

C 009 0613.5 deC

C 010 0011.1 deC

D T 7

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SCAN (MINS) 14.0000

FURNACE 717.933

AMBIENT 11.8011

S T 7 10:23:39.7

C 001 00753 deC

C 002 00703 deC

C 003 00731 deC

C 004 00747 deC

C 005 00678 deC

C 006 00725 deC

C 007 00711 deC

C 008 00741 deC

C 009 00669 deC

C 010 0011.8 deC

D T 7

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SCAN (MINS) 18.0000

FURNACE 741.556

AMBIENT 11.8824

S T 7 10:25:39.7

C 001 00779 deC

C 002 00740 deC

C 003 00757 deC

C 004 00772 deC

C 005 00694 deC

C 006 00724 deC

C 007 00746 deC

C 008 00762 deC

C 009 00692 deC

C 010 0011.8 deC

D T 7

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SCAN (MINS) 18.0000

FURNACE 755.288

AMBIENT 12.0175

S T 7 10:27:39.7

C 001 00789 deC

C 002 00754 deC

C 003 00777 deC

C 004 00785 deC

C 005 00720 deC

C 006 00739 deC

C 007 00759 deC

C 008 00767 deC

C 009 00720 deC

C 010 0012.0 deC

D T 7

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SCAN (MINS) 20.0000

FURNACE 773.693

AMBIENT 12.1446

S T 7 10:29:39.7

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C 003 00777 deC

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C 005 00743 deC

C 006 00752 deC

C 007 00782 deC

C 008 00789 deC

C 009 00756 deC

C 010 0012.1 deC

D T 7

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SCAN (MINS) 22.0000

FURNACE 792.876

AMBIENT 12.6479

S T 7 10:31:39.7

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C 004 00792 deC

C 005 00764 deC

C 006 00772 deC

C 007 00794 deC

C 008 00805 deC

C 009 00777 deC

C 010 0012.6 deC

D T 7

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SCAN (MINS) 24.0000

FURNACE 803.225

AMBIENT 13.0321

S T 7 10:33:39.7

C 001 00826 deC

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C 003 00803 deC

C 004 00820 deC

C 005 00786 deC

C 006 00799 deC

C 007 00804 deC

C 008 00817 deC

C 009 00774 deC

C 010 0013.0 deC

D T 7

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FURNACE      812.255      AMBIENT      13.1745
AMBIENT      13.1745
S T 7 10:35:39.7
C 001 00837    deC
C 002 00816    deC
C 003 00811    deC
C 004 00823    deC
C 005 00795    deC
C 006 00774    deC
C 007 00827    deC
C 008 00827    deC
C 009 00800    deC
C 010 0013.1   deC
D T 7
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AMBIENT      13.7783
S T 7 10:37:39.7
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C 002 00841    deC
C 003 00820    deC
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C 005 00807    deC
C 006 00804    deC
C 007 00834    deC
C 008 00844    deC
C 009 00811    deC
C 010 0013.7   deC
D T 7
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FURNACE      838.964      AMBIENT      14.3020
AMBIENT      14.3020
S T 8 10:39:39.7
C 001 00834    deC
C 002 00864    deC
C 003 00824    deC
C 004 00834    deC
C 005 00849    deC
C 006 00817    deC
C 007 00846    deC
C 008 00863    deC
C 009 00822    deC
C 010 0014.3   deC
D T 8
*****

SCAN (MINS) 40.0000      FURNACE      876.297      AMBIENT      15.8761
FURNACE      876.297      AMBIENT      15.8761
AMBIENT      15.8761
S T 8 10:49:39.7
C 001 00878    deC
C 002 00902    deC
C 003 00869    deC
C 004 00894    deC
C 005 00909    deC
C 006 00857    deC
C 007 00863    deC
C 008 00898    deC
C 009 00810    deC
C 010 0015.8   deC
D T 8
*****

SCAN (MINS) 35.0000      FURNACE      863.574      AMBIENT      14.1743
FURNACE      863.574      AMBIENT      14.1743
AMBIENT      14.1743
S T 8 10:44:39.7
C 001 00882    deC
C 002 00895    deC
C 003 00848    deC
C 004 00870    deC
C 005 00870    deC
C 006 00839    deC
C 007 00878    deC
C 008 00870    deC
C 009 00816    deC
C 010 0014.1   deC
D T 8
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SCAN (MINS) 45.0000      FURNACE      902.944      AMBIENT      18.0642
FURNACE      902.944      AMBIENT      18.0642
AMBIENT      18.0642
S T 8 10:54:40.3
C 001 00904    deC
C 002 00930    deC
C 003 00889    deC
C 004 00912    deC
C 005 00956    deC
C 006 00884    deC
C 007 00879    deC
C 008 00924    deC
C 009 00843    deC
C 010 0018.0   deC
D T 8
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SCAN (MINS) 50.0000

FURNACE 911.853

AMBIENT 18.9698

S T 8 10:59:39.7

C 001 00923 deC

C 002 00937 deC

C 003 00915 deC

C 004 00912 deC

C 005 00927 deC

C 006 00888 deC

C 007 00913 deC

C 008 00935 deC

C 009 00858 deC

C 010 0018.9 deC

D T 8

\*\*\*\*\*

SCAN (MINS) 55.0000

FURNACE 931.951

AMBIENT 18.4242

S T 8 11:04:39.7

C 001 00929 deC

C 002 00963 deC

C 003 00923 deC

C 004 00935 deC

C 005 00967 deC

C 006 00929 deC

C 007 00905 deC

C 008 00940 deC

C 009 00890 deC

C 010 0018.4 deC

D T 8

\*\*\*\*\*

SCAN (MINS) 60.0000

FURNACE 943.261

AMBIENT 20.1284

S T 8 11:09:39.7

C 001 00963 deC

C 002 00965 deC

C 003 00934 deC

C 004 00959 deC

C 005 00948 deC

C 006 00915 deC

C 007 00974 deC

C 008 00935 deC

C 009 00892 deC

C 010 0020.1 deC

D T 8

\*\*\*\*\*

SCAN (MINS) 65.0000

FURNACE 954.433

AMBIENT 20.7299

S T 8 11:14:39.7

C 001 00972 deC

C 002 00982 deC

C 003 00961 deC

C 004 00944 deC

C 005 00978 deC

C 006 00932 deC

C 007 00947 deC

C 008 00968 deC

C 009 00911 deC

C 010 0020.7 deC

D T 8

\*\*\*\*\*

SCAN (MINS) 70.0000

FURNACE 965.868

AMBIENT 21.7362

S T 8 11:19:39.7  
C 001 00997 deC  
C 002 00998 deC  
C 003 00959 deC  
C 004 00974 deC  
C 005 00972 deC  
C 006 00942 deC  
C 007 00978 deC  
C 008 00960 deC  
C 009 00922 deC  
C 010 0021.7 deC  
D T 8

\*\*\*\*\*

SCAN (MINS) 75.0000

FURNACE 979.553

AMBIENT 22.1873

S T 8 11:24:39.7  
C 001 01001 deC  
C 002 01009 deC  
C 003 00974 deC  
C 004 00998 deC  
C 005 00977 deC  
C 006 00946 deC  
C 007 01007 deC  
C 008 00971 deC  
C 009 00918 deC  
C 010 0022.1 deC  
D T 8

HALT 11:27:37 05-03

<b>TEST RECORD</b>	<b>FAVERDALE TECHNOLOGY CENTRE LTD</b>
ABSTRACT No: 310329	RIG NAME: Alpha Maritex Fire Curtain
TEST SPECIFICATION: BS476 Part 20 (Cellulosic Fire Curtains)	SIGNATURE: <i>D. Johnson</i>
DATE: 5/3/96	ISSUE <input type="checkbox"/>



<b>REPORT ON THE FIRE TESTING OF AN ALPHA MARITEX CLOTH REF NO. 3200/2/SP 'FIRE SCREEN'. TEST DATE: 5 MARCH 1996</b>	<b>Document No. FTCR/96/0038</b>	
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## **APPENDIX D**

### **Photographic Record**

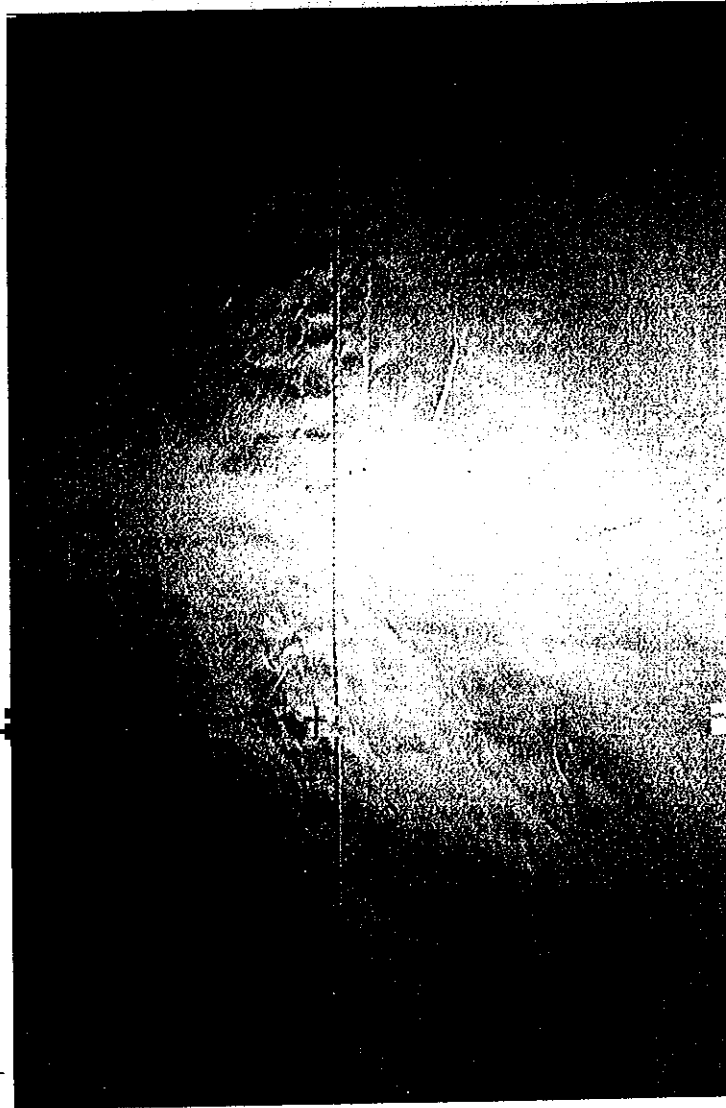
Frame 1	Unexposed face showing stitching arrangement
Frame 2	Unexposed face at the start of the test
Frame 3	Unexposed face after 14 minutes test duration
Frame 4	Unexposed face after 30 minutes test duration
Frame 5	Unexposed face after 60 minutes test duration
Frame 6	Unexposed face after 60 minutes test duration showing close up of right joint
Frame 7	Unexposed face after 75 minutes test duration
Frame 8	Close up of the area of failure at centre top edge

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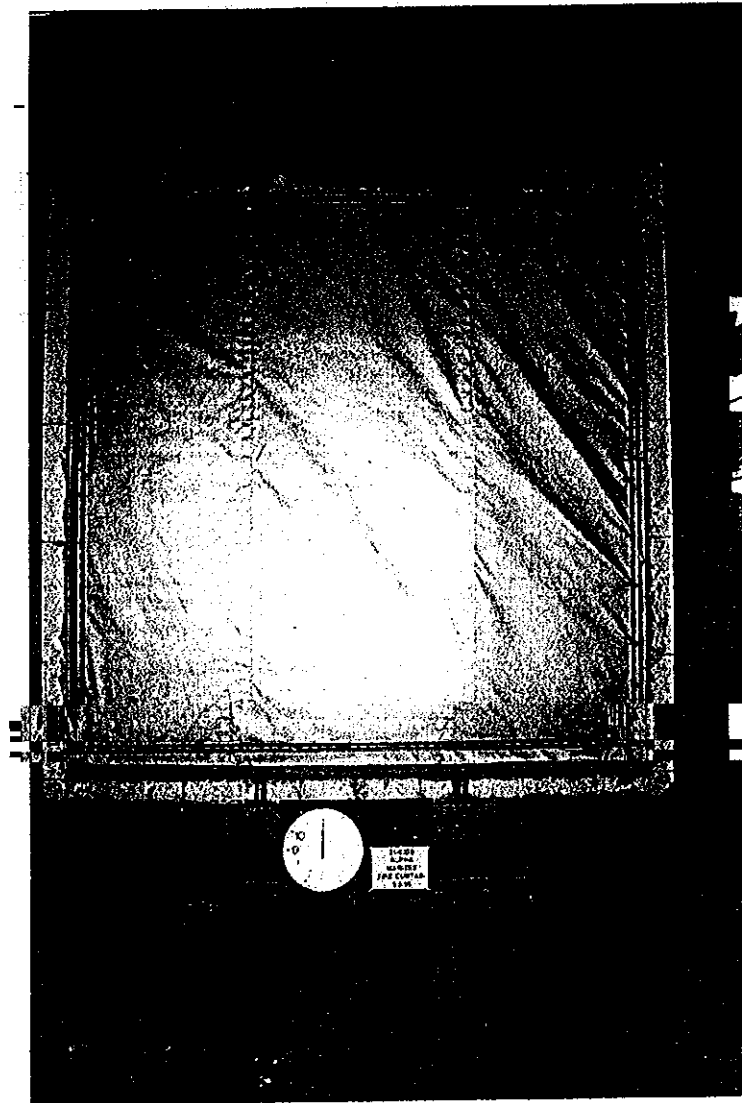
Frame 1 Unexposed face showing stitching arrangement

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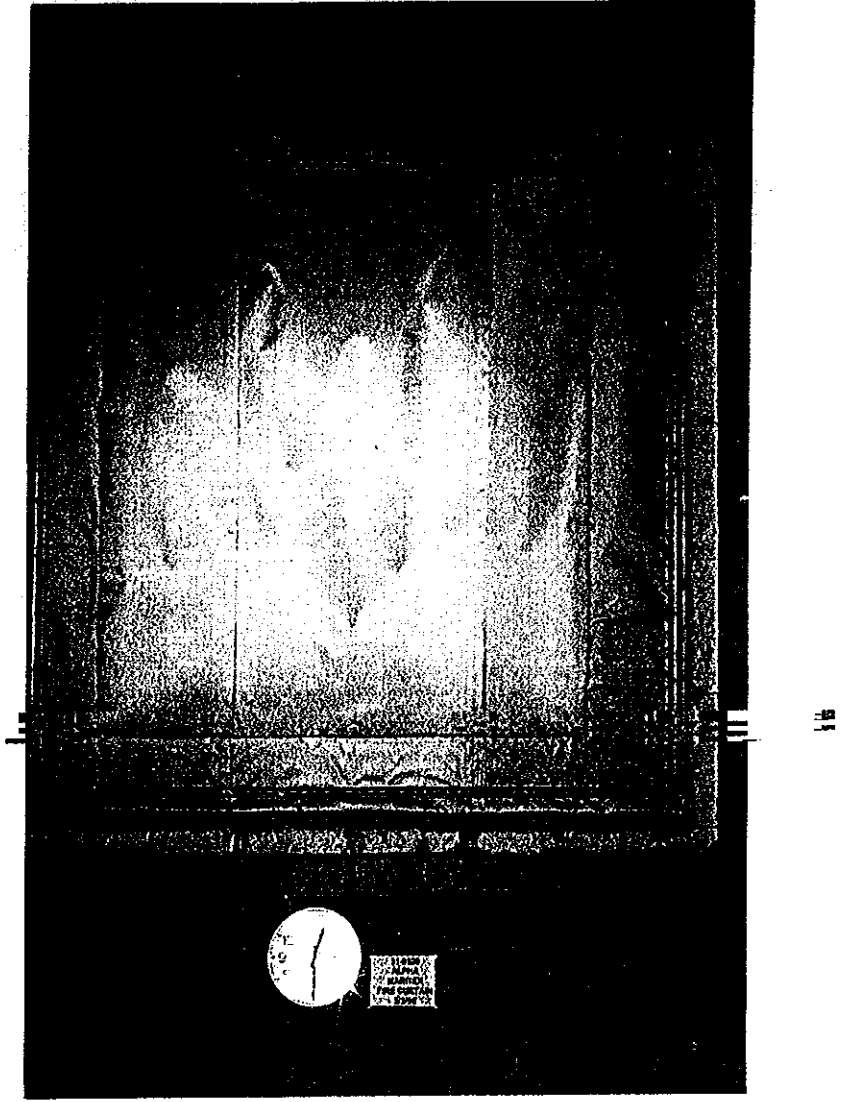
Frame 2 Unexposed face at the start of the test

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Frame 3 Unexposed face after 14 minutes test duration

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Frame 4 Unexposed face after 30 minutes test duration

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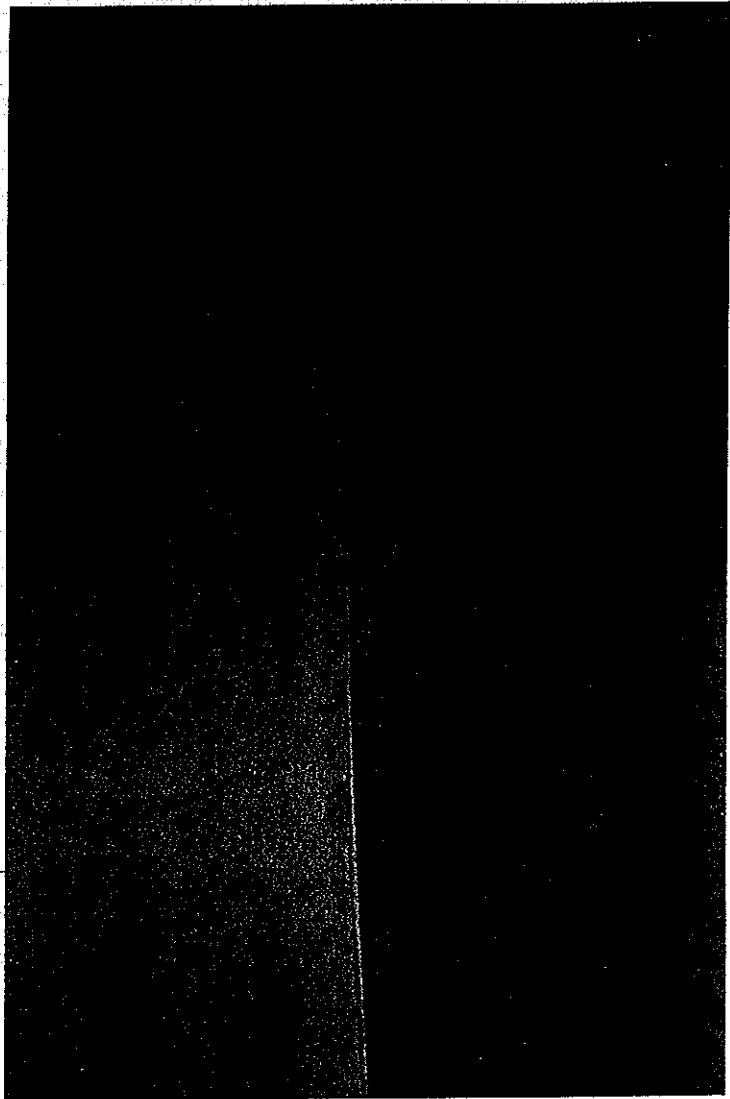
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Frame 5 Unexposed face after 60 minutes test duration

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Frame 6 Unexposed face after 60 minutes test duration showing close up of right joint

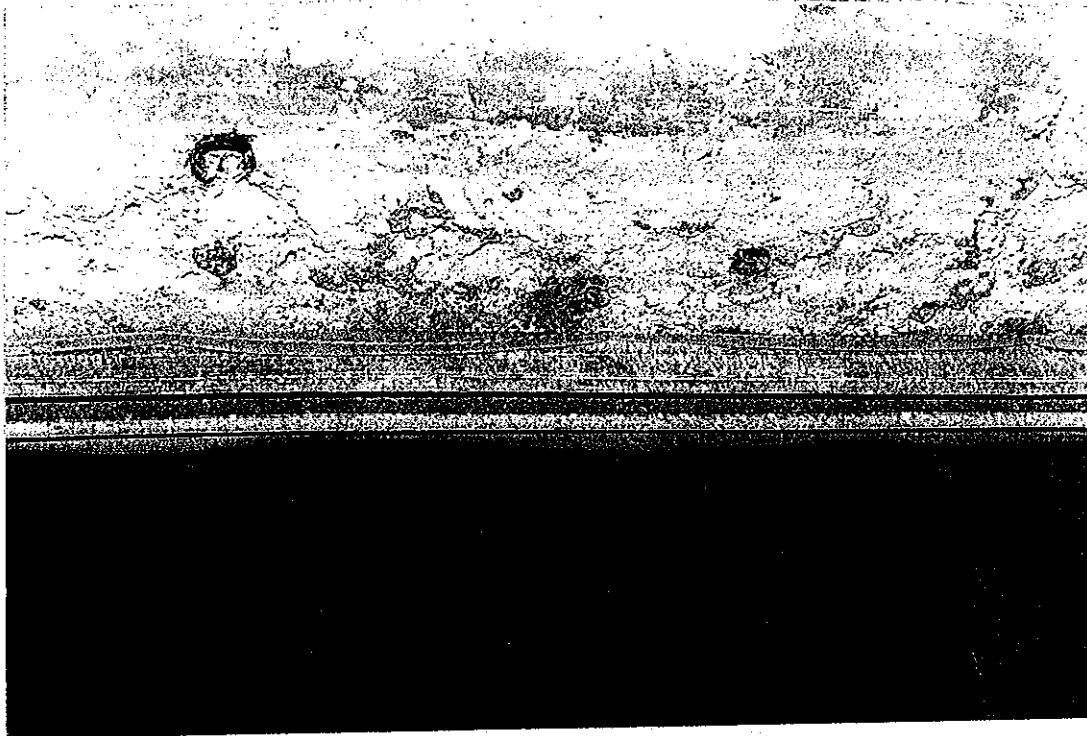
REPORT ON THE FIRE TESTING OF AN ALPHA MARITEX CLOTH REF NO. 3200/2/SP 'FIRE SCREEN'. TEST DATE: 5 MARCH 1996	Document No. FTCR/96/0038
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Frame 7 Unexposed face after 75 minutes test duration



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Frame 8 Close up of the area of failure at centre top edge