

# FRONTIER MEDICAL SCREENS FLEXES CERTIFICATE



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# Confidential Report

**Our Ref: Supplement to E-005905**



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Notified Body  
for PPE Directive,  
Construction Products Regulation  
& Marine Equipment Directive  
I.D. No. 0338 & 0339



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Date: 17 October 2018

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E-005905

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Client: Camira Fabrics Limited  
The Watermill  
Wheatley Park  
Mirfield  
West Yorkshire  
WF14 8HE

Job Title: Flexing on two samples

Client's Order No: 83A00946

Date of Receipt: 5<sup>th</sup> October 2018  
Date of Test Start: 10<sup>th</sup> October 2018

Description of Sample(s): Two samples of fabric identified as follows, were received for testing:

- 1) Call 8348, Vita (C), Colour: Yellow
- 2) Call 8348, Vita (C), Colour: Pink

Work Requested: We were asked to make the following test on each sample:

Schildknecht Flexing ISO 7854: 1997 Method B



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TESTING • CERTIFICATION • AUDITING

**Camira Fabrics Limited**

Samples were identified as follows:

- 1) Call 8348, Vita (C), Colour: Yellow
- 2) Call 8348, Vita (C), Colour: Pink

Laboratory Work

The tests were made in Standard Atmosphere ( $65 \pm 4$  % relative humidity at  $20 \pm 2^\circ\text{C}$ ) the samples having been freely and continuously exposed to that atmosphere for at least 24 hours prior to testing. Specimens have been taken from the samples as described in the specified standard.

Resistance to Damage by Flexing

Flex cracking resistance was tested following the procedure in Method B – Schildknecht method, of BS EN ISO 7854: 1997 (BS 3424: Part 9: 1996), “Rubber- or plastics-coated fabrics – Determination of resistance to damage by flexing”. Three specimens, in each direction, were tested for a predetermined number of cycles.

At the clients’ request, the specimens were to be inspected at 400 000 cycles.

The flexing damage was assessed according to the following methods.


The overall appearance of the specimens was assessed for deterioration considering all visible factors such as wrinkling, cracking, flaking and discolouration. Specimens were graded, without magnification, using the 4 part numerical scale.

Each specimen was examined, under magnification, to determine depth, length and number of cracks. Depth of cracking was assessed using the descriptive scale. The length of the longest crack (mm) and the number of cracks have been reported.

The results for all tests are given in the table on the following page.

Reported by: ..... 

Mrs S Jones  
Laboratory Technician

Countersigned by: ..... 

Mr P Hutchings  
Operational Head

Note: This report relates only to the samples submitted and as described in the report.



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**Camira Fabrics Limited**

**RESULTS**

Sample Ref 1: Call 8348, Vita (C), Colour: Yellow

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ASSESSMENT OF SCHILDKNECHT FLEX DAMAGE AT 400 000 CYCLES						
Specimen Number	1 (Length)	2 (Length)	3 (Length)	4 (Width)	5 (Width)	6 (Width)
Deterioration in Appearance	2	2	2	2	2	2
Type of damage (if any)	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing
Depth of Cracking	A	A	A	Nil	A	A
Number of Cracks Of The Lowest Grade	4*	4	5*	0	1	2
Length Of Longest Crack of The Lowest Grade (mm)	4*	1	2*	N/A	1	1

\*Note: numerous small cracks forming larger cracks.

**Deterioration In appearance**

- 0 None
- 1 Slight
- 2 Moderate
- 3 Severe

**Depth of Cracking**

- Nil no cracking
- A surface or finish crack, not exposing the cellular or middle layer
- B cracking into but not right through the middle layer, or, in the case of single-layer coatings, not exposing the base fabric
- C cracking through to the base fabric
- D cracking right through the material



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TESTING • CERTIFICATION • AUDITING

**Camira Fabrics Limited**

**RESULTS**

Sample Ref 2: Call 8348, Vita (C), Colour: Pink

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ASSESSMENT OF SCHILDKNECHT FLEX DAMAGE AT 400 000 CYCLES

Specimen Number	1 (Length)	2 (Length)	3 (Length)	4 (Width)	5 (Width)	6 (Width)
Deterioration in Appearance	2	2	2	2	2	2
Type of damage (if any)	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing
Depth of Cracking	Nil	A	Nil	A	Nil	A
Number of Cracks Of The Lowest Grade	0	10	0	2	0	2
Length Of Longest Crack of The Lowest Grade (mm)	N/A	1	N/A	1	N/A	1

Deterioration In appearance

- 0 None
- 1 Slight
- 2 Moderate
- 3 Severe

Depth of Cracking

- Nil no cracking
- A surface or finish crack, not exposing the cellular or middle layer
- B cracking into but not right through the middle layer, or, in the case of single-layer coatings, not exposing the base fabric
- C cracking through to the base fabric
- D cracking right through the material



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