



Royal Canadian Mounted Police
Gendarmerie royale du Canada

Doc. no: G.S. 1045-078
Date: 2013-04-25

Specification

Breeches, Blue, Unisex

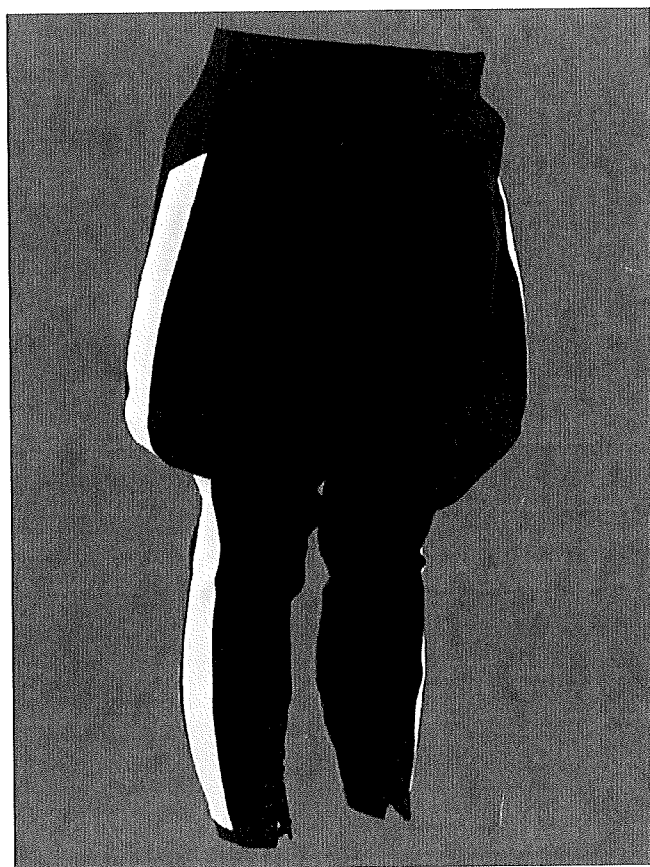
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Modifications

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RCMP VIEWING SAMPLE

A viewing sample, when available, will be supplied to the successful tenderer.

This will be used for the guidance of the manufacturer in all factors not covered by this specification or referred to therein. Variation from the specification may appear in the sample in which case the specification shall govern.

It may be obtained from:

Royal Canadian Mounted Police
ATTN: Quality Control
(440 Coventry Road, Warehouse Building)
1200 Vanier Parkway
Ottawa, Ontario
K1A 0R2

It will be sent "prepaid" and is to be returned "prepaid".

The viewing sample shall be returned to the RCMP in the same condition as received by the manufacturer. Lost or damaged viewing samples shall be replaced by an identical item or the RCMP shall be reimbursed for the cost of an acceptable replacement.

SPECIFICATION

BREECHES, BLUE, UNISEX

1. Definition

- 1.1 This specification shall govern the manufacture and inspection of Breeches, Blue, Unisex.
- 1.2 This specification, pattern, drawing, viewing sample, or other information issued in connection therewith, may only be used for specific enquiries, tenders, or orders placed on behalf of the Royal Canadian Mounted Police.
- 1.3 This specification supersedes all previous specifications for Breeches, Blue.

2. Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the invitation to tender, unless otherwise specified.
- 2.2 RCMP, G.S.1045-297, Cloth, Wool/Lycra, Whipcord.
- 2.3 RCMP, G.S. 1045-135, Cloth Wool, Whipcord
- 2.4 RCMP, G.S.1045-352, Cloth, Braid, Wool.
- 2.5 RCMP, G.S.1045-278, Cloth, Wool, Superfine.
- 2.6 CAN/CGSB-4.131-93, Thread, Polyester, Polyester-Covered.
- 2.7 ISO 4915, Textiles - Stitch Types
- 2.8 ISO 4916:1991, Textiles - Seam Types
- 2.9 CAN/CGSB-86.1-2003 Standard for Care Labelling of Textiles.

3. **General Requirements**

- 3.1 The article or material covered by this specification shall be free from imperfections or blemishes such as may affect its appearance or serviceability. In all particulars not covered by this specification or contract documents, production shall be equivalent in all respects to the pattern and viewing sample.
- 3.2 **Design** - The Breeches, Blue, Unisex shall have slash front pockets and a fly front with slide fastener and a metal hook and loop closure. A yellow braid shall be sewn on both side seams. It shall be constructed from material purchased from the RCMP where specified and shall conform to the pattern, scale of measurements, drawings, and viewing sample which form part of this specification.
- 3.3 In the event of any inconsistency in contract documents, specification, pattern, drawing, or viewing sample, the aforementioned shall prevail in the following order:
- (i) Contract
 - (ii) Specification
 - (iii) Pattern
 - (iv) Drawing
 - (v) Viewing Sample

4. **Detail Requirements**

4.1 **Materials**

- 4.1.1 **Shell Material** – The cloth option required shall be specified in the contract document.
- 4.1.1.1 **Shell Material # 1** - Shall be made of Cloth, Wool/Lycra, Whipcord, of approved shade, meeting the requirements of RCMP specification G.S.1045-297 and shall be purchased from the RCMP.
- 4.1.1.2 **Shell Material # 2** - Cloth, Wool, Whipcord of approved shaded, meeting the requirements of RCMP specification G.S. 1045-135 and shall be purchased from the RCMP.
- 4.1.2 **Stripes** - The stripe to be used shall be specified in the contract documents.

- 4.1.2.1 **Stripe #1** - Stripe shall be a yellow wool braid 45 mm wide, of approved weight, quality and shade, in accordance with RCMP specification G.S.1045-352 and shall be purchased from the RCMP.
- 4.1.2.2 **Stripe #2 - Officer Breeches** - Stripe shall be a wool, superfine, yellow, 45 mm wide, of approved weight, quality and shade, in accordance with RCMP specification G.S. 1045-278 and shall be purchased from the RCMP.
- 4.1.3 **Linings**
 - 4.1.3.1 **Pocket, Waistband, Fly & Crotch Lining** - The waistband lining shall be black in colour or to match the shell material, and shall meet the requirements outlined in Table I forming part of this specification. **Certificate of Compliance required. See Appendix B.**
 - 4.1.4 **Facing - Leg Opening** - Shall be 100% Wool or 80% Wool, 20% Nylon, 300 - 350 g/m², colour to match shell material or black.
 - 4.1.5 **Interlining - Leg Opening** - Shall be 65% Polyester, 35% Cotton, 100g/m² ± 15g/m², black in colour.
 - 4.1.6 **Thread**
 - 4.1.6.1 **Seam and Stitching Thread** – Shall be polyester wrap, polyester core, Tex 50 of matching colour, meeting CAN/CGSB 4.131-93. **Certification of compliance must be provided.**
 - 4.1.6.2 **Buttonhole and Bar-Tack Thread** - Shall be polyester wrap, polyester core, Tex 50 of matching shade to the shell material, meeting CAN/CGSB 4.131-93. **Certification of compliance must be provided.**
 - 4.1.7 **Buttons** - The buttons shall be black, four hole, plastic composition, 15mm or 17mm buttons as specified.
 - 4.1.8 **Buttonholes** - Buttonholes shall be eyelet type, gimp reinforced, with a bar tacked or fish-tailed end and having a minimum of 28 stitches per inch or 11.2 stitches per centimetre. The buttonholes may be “cut first” or “cut after”, and shall fit a button as specified in 4.1.7. When “cut after” buttonholes are used, the cut shall

be clean, close to the stitches so they are equal in appearance to the “cut first” buttonholes.

- 4.1.9 **Eyelets** - The eyelets shall be black in colour, 4-5 mm diameter hole and measuring 6-8mm on the outside diameter, made of brass or aluminum. The washer on the back shall be 6-8 mm outside diameter. The eyelets must lie flat and not have a raised profile. They shall be secure and not dislodge when manipulated. **Certificate of Compliance required. See Appendix B.**
- 4.1.10 **Hook & Eye** - Shall be made of steel components, nickel plated on the outside and zinc plated on the inside with a glossy finish. YKK Elite brand part number HE10, HE50, HH10, HH50. **Certificate of Compliance required. See Appendix B.**
- 4.1.11 **Laces** - Shall be black, 97cm (37 ½") long, resembling the viewing sample for quality and appearance.
- 4.1.12 **Hem Facing** - Shall be 13mm wide cotton twill tape.
- 4.1.13 **Bar Tacks** - Bar tacks shall be 10 to 13mm in length with no less than 18 cover stitches per tack.
- 4.1.14 **Slide Fasteners** - Shall be a closed ended, brass slide fastener with Y type teeth and a 4.5 mm chain width. The slide fastener shall come complete with one bottom stop. The slider must be secured by a top stop or by sewing the tape into a seam. There shall be a semi-locking slider with stainless steel locking pin, and brass pull tab. The tape shall be comprised of a polyester yarn and shall be black in colour. YKK YGC-459½ is known to meet this requirement. **Certification of compliance required. See Appendix B.**

Inseam Measurements (inches)	Slide Fastener Length (inches)
26" 27" 28"	6½"
29" 30" 31"	7"
32" 33" 34"	7½"
35" 36" 37"	8"

- 4.1.15 **Waistbanding** - Shall be constructed using waistband lining as specified in Para. 4.1.3.1 and shall have a finished width of 6.35 cm (2½"). The waistbanding shall be constructed with the following components; a rubber inner grip, non-woven interlining and a no roll reinforcement shall meet the requirements below.
- 4.1.15.1 **Rubber Inner Grip** - Narrow mono, 19 mm overall width, with an 8mm rubber at the center. It shall be constructed using a leno weave with a warp of 59% polyester/41% rubber and a weft of 100% polyester. The thickness shall be 0.5mm ± .05mm. The inner grip shall meet a colourfastness of grey scale 4 (min.) and be dry cleanable and washable up to 60°C with a maximum shrinkage of 2%.
- 4.1.15.2 **Non-Woven Interlining** - The non-woven interlining shall be 90% polyester 10% cellulose wet laid construction treated with a chemical binder. It shall have a base weight of 102 g/m² ± 8 g/m² and a tensile strength of MD (machine direction) 1500grams and CD (cross direction) 8000 grams with a thickness of 525 µm ± 5% (microns). It shall be washable and dry cleanable with a maximum shrinkage of 2%.
- 4.1.15.3 **No Roll Reinforcement** - Ultra ban roll, ultra white acrylic finish, 2.5 cm minimum width sewn around the entire waistband, with a thickness of 0.048cm (0.019"). It shall be comprised of a yarn size of 20.5 spun polyester warp and a 750 denier polyester monofilament weft and a weight of 200 g/m² ± 8 g/m². The ban roll shall be washable and dry cleanable with a 3% maximum shrinkage.
- 4.2 **Size and Dimensions** - Breeches, Blue Unisex to this specification shall be supplied in the sizes specified by the RCMP and to the dimensions given in the scales of measurements and drawings forming part of this specification. The garment components shall be shaped dimensioned and positioned in accordance with the pattern components and pattern requirements as outlined in Appendix A forming part of this specification.
- 4.3 **Construction**
- 4.3.1 **Cutting** - All component parts of the breeches shall be cut from the same piece of material and shall be cut following the grain line on the pattern piece to ensure uniformity of shade.
- 4.3.2 **Stitching & Seams** - Using the specified thread, there shall be not less than 3 and not more than 4 stitches per cm. All stitching shall be lock or lockchain stitch.

The beginning and ending of all stitching shall be securely backstitched and tacked unless secured by other stitching. Where seaming, turning and stitching is required the edges shall be properly worked out before stitching. Side seams and inseams shall be constructed in accordance with a plain seam type #1.01.01 and serging type #6.01.01(edge finishing) of ISO 4916:1991.

- 4.3.3 **Inseam** - The inseam when sewn together shall create a total seam allowance of 5.2cm (2.6cm each side) continuing the full length of the leg from the crotch to the hem as per the patterns and shall be pressed open when finished.
- 4.3.4 **Outseam** - The outseam shall be serged, sewn and pressed open according the patterns. The seam allowance shall be 1.6cm at the top near the waistband increasing to 2.6cm as it extends to the hem. The total width when sewn together shall be 3.2cm and 5.2cm respectively.
- 4.3.5 **Legs** - The legs shall be close fitting from the knee down. Front leg openings shaped and dimensioned as per the patterns shall extend 15 cm above the bottoms. The openings shall be reinforced with a stabilizer as specified in Para. 4.1.5 and faced with material as specified in Para. 4.1.4. shall be equipped with seven pairs of eyelet holes; the first beginning 2 cm from the bottom and the last ending 2 cm from the stitching line and all the others spaced evenly in between as per pattern template. The bottom of the legs shall be serged and then reinforced with 13 mm wide cotton twill tape. The legs shall be shaped and dimensioned as per the patterns and viewing sample.
- 4.3.6 **Knee Patch** - The patch on the inside calf shall be made from shell material as specified in Para. 4.1.1. The patch shall come in three sizes and shall be shaped and dimensioned as per the patterns according to the inseam measurement. They shall be applied centered on the inseam between the upper ankle (hem of breeches) and the crotch area stitched with two rows of top stitching. Care shall be taken to ensure that there are no unsightly pleats/folds or pointed edges around the outer edge of the patch.
- 4.3.7 **Stripes** - The stripe, specified in Para. 4.1.2, shall be centered over the side seam extending from the pocket opening throughout the full length of the leg and stitched using a 1.5mm gauge. The stripe when applied to the leg shall be folded in line with the pocket opening following the same angle. Care shall be taken to ensure that a crisp sharp edge is achieved with no loose or fraying ends. The braid when folded under shall not be exposed. The application of the yellow braid

shall be free of puckering and twisting and shall conform in all respects to the viewing sample.

- 4.3.8 **Waistband** - The face of the waistband when finished shall be no less than 4cm wide with the inside finishing with a width of no less than 6cm. The waistbanding constructed from materials as specified in Para. 4.1.15 shall be applied to the waistband and shall roll inwards 3mm below the top edge. Six 17 mm suspender buttons as specified in Para. 4.1.7 shall be positioned on the inside of the waistband and sewn right through the cloth. The first two buttons shall be sewn 11cm from the center front, one on each side and the corresponding buttons 16cm from the center front, one on each side. The two buttons at the back shall be sewn 9 -10cm from the center back, one on each side. The waistband shall be equipped with a total of six belt loops on waist sizes up to 36 and 8 belt loops on waist sizes 38 and larger plus the special belt loop that is positioned at center back for all sizes. The belt loops shall be 1cm wide with a functional opening of no less than 5cm. The first belt loop shall be placed 10cm from center front and the remaining shall be evenly spaced between the first loop and the center back seam. There shall be one special belt loop constructed as per pattern from material as specified in Para. 4.1.1 and positioned at the center back crotch seam as shown in the drawings and viewing sample. One 15mm button as specified in Para. 4.1.7 shall be sewn over the seat seam at 9.5cm from the top of the waistband for the attachment of the special belt loop. The special belt loop shall be stitched securely across the top and backstitch tacked at both ends to secure the loop. The top front of the waistband above the fly shall be equipped with a metal hook and clasp. The waistband when completed shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.9 **Pockets** - The breeches shall have two front slash pockets, shaped and dimensioned as per the patterns and drawings. All pocket ends shall be bar tacked. The bar tack at the outer edge of each pocket shall be completed before the braid is applied. The pocket openings shall be taped with twill tape for increased stability and shall be lined with material as specified in Para. 4.1.3.1. The pockets when completed shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.10 **Fly Opening** - The fly front, lined with material specified in Para. 4.1.3.1, shall be equipped with a slide fastener in accordance with Para. 4.1.14. The fly front shall be supported by a 15mm button sewn to the underside of the top left portion of the opening. A corresponding buttonhole shall be applied to the curtain. The end of the fly curtain, extending below the bottom of the fly opening, shall be

tacked to the fly facing. Care shall be taken to ensure that no shell material is caught during this operation. The completed fly shall conform in all respects to the patterns, drawings, and viewing sample.

- 4.3.11 **Crotch Lining** - The forepart of the crotch shall be lined with a triangular piece of lining as specified in Para. 4.1.3.1, shaped and dimensioned in accordance with the patterns and viewing sample.
- 4.3.12 **Crotch and Seat Seam** - The crotch and seat seam shall be joined together by stitching the seat seam continuously from the crotch through the waistband using 401 lockchain stitch. It shall be finished so that alterations of the waistband can be performed without opening the waistband. The seam allowance shall be 1 cm at the crotch, widening gradually to 4.5 cm below the bottom of the waistband and continuing through the waistband with a completed width of 4 cm each side after seaming and turning. All seams shall be serged. The seat when finished shall conform in all respects to the patterns, drawings and viewing sample.
- 4.3.13 **Pressing and Shaping** - The breeches shall be pressed flat with no creasing of pant leg in center front or back and be shaped in accordance with good commercial practice to conform with the shaping and style of the viewing sample.
- 4.3.14 **Marking & Cleaning Instructions and Identification Labels** - Each pair of breeches shall have two labels sewn separately to the right front pocket bag as identified in drawing # 3. The label information shall be as outlined below in a text no less than a size 8 font. The text shall be of permanent inks of a contrasting colour and shall withstand at least 50 washes showing no apparent change in appearance.

Marking Content Information (lines 1 to 4 below)

1. RCMP Item number, reference contract documents. (Ex. 2875 540)
2. Size of the article, using the size designation referenced in the contract documents. (Ex. 34T)
3. Date of manufacture, in numeric format year/month (Ex. 2001 / 11)
4. Your manufacturer's identification (Company name or number).

Care instructions: As indicated in lines 5 to 7 below.

*** **Note:** A polyurethane adhesive heat transfer label is permitted as an alternative to the sewn on label provided it meets the above specifications.

1	RCMP / GRC #		*** See note above
2	Size/ Taille		
3			
4			
5	RCMP Breeches Blue Unisex	Culotte, Bleue Unisexe GRC	
6	Dry clean only	Nettoyage à sec seulement	
7	Steam iron - medium	Repassage à vapeur - à température moyenne	

Identification label (Sewn on only): As illustrated below.

Name/Nom:

5. **Delivery, Packing and Marking of Containers**

- 5.1 Unless otherwise specified the items shall be delivered to the Commissioner, RCMP, Quality Control Section, Ottawa, Ontario, free of transportation charges, Provincial tax where applicable.
- 5.2 Packing and marking of shipping containers shall be as specified in the invitation to tender.
- 5.3 A packing slip shall be enclosed showing contents of each shipment.

6. **Quality Assurance Provisions**

6.1 **Responsibility for Inspection**

Unless otherwise stipulated in the contract, it is the prime contractor's responsibility to satisfy the RCMP, Quality Control Section, that the material and services being supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the RCMP, Quality Control Section that conformity to this specification of manufacturing processes is assured. The contractor may use any commercial testing establishment acceptable to the RCMP, Quality Control Section.

- 6.2 The RCMP, Quality Control Section reserves the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding two percent or two out of any number delivered under 100 may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed shall be replaced by others of proper quality and pattern at the expense of the contractor. The entire delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are re-delivered for inspection.
- 6.3 The contractor will be promptly notified when any articles are not accepted and such articles will be returned at the contractor's risk and expense.

SCALE OF MEASUREMENTS FOR BREECHES, BLUE, UNISEX

Size Designation		Body Measurement			Garment Measurements											
Length	Size	Waist		SEAT (Max)	WAIST	SEAT	INSEAM LENGTH Crotch To:				CIRCUMFERENCE AT				Front Rise Along Seam (excluding waistband)	Back Rise Along Seam (excluding waistband)
		Inches	Cm				Upper Knee	Small	Calf	Upper Ankle	Thigh	Upper Knee	Small	Calf	Upper Ankle	
26" Inseam	26	24½ - 26	62.25-66	91.5	68.25	101.5	31	38.25	45.5	57.25	70.5	40.75	36.25	40.5	26.25	22.75
	28	26½ - 28	67.25-71	96.5	73.25	107.5	31	38.5	45.75	57.25	73.5	41.25	36.5	40.75	26.5	23.25
	30	28½ - 30	72.25-76	101.8	78.25	113.5	31.25	38.75	45.75	57.5	76.5	41.75	36.75	41	26.75	23.75
	32	30½ - 32	77.5-81.25	106.8	83.5	119.5	31.25	38.75	46	57.75	79.5	42.5	37	41.25	27	24.25
	34	32½ - 34	82.5-86.25	111.8	88.5	125.5	31.5	39	46.25	57.75	82.5	43	37.25	41.5	27	24.75
	36	34½ - 36	87.5-91.5	116.8	93.5	131.5	31.5	39.25	46.25	58	85.5	43.5	37.5	41.75	27.25	25.25
	38	36½ - 38	92.5-96.5	122	98.75	137.5	31.75	39.25	46.5	58.25	88.5	44	37.75	42.25	27.5	25.75
	40	38½ - 40	97.75-101.5	127	103.75	143.5	32	39.5	46.75	58.25	91.5	44.75	38.25	42.5	27.75	26.25
	42	40½ - 42	102.5-106.5	132	108.75	149.5	32	39.75	46.75	58.5	94.5	45.25	38.5	42.75	28	26.75
	44	42½ - 44	108-111.75	137	114	155.5	32.25	40	47	58.75	97.25	45.75	38.75	43	28.25	27.25
	46	44½ - 46	113-116.75	142	119	161.5	32.5	40	47.25	59	100.5	46.5	39	43.25	28.5	27.75
27" Inseam	26	24½ - 26	62.25-66	91.5	68.25	101.5	31	38.75	46.25	58.5	70.75	40.5	36.25	40.5	26.25	23.25
	28	26½ - 28	67.25-71	96.5	73.25	107.5	31.25	38.75	46.25	58.75	73.75	41.25	36.5	40.75	26.5	23.75
	30	28½ - 30	72.25-76	101.8	78.25	113.5	31.25	39	46.5	58.75	76.5	41.75	36.75	41	26.75	24.25
	32	30½ - 32	77.5-81.25	106.8	83.5	119.5	31.5	39	46.75	59	79.5	42.25	37	41.25	26.75	24.75
	34	32½ - 34	82.5-86.25	111.8	88.5	125.5	31.75	39.25	46.75	59.25	82.5	43	37.5	41.5	27	25.25
	36	34½ - 36	87.5-91.5	116.8	93.5	131.5	31.75	39.5	47	59.25	85.5	43.5	37.75	41.75	27.25	25.75
	38	36½ - 38	92.5-96.5	122	98.75	137.5	32	39.5	47.25	59.5	88.5	44	38	42	27.5	26.5
	40	38½ - 40	97.75-101.5	127	103.75	143.5	32	39.75	47.25	59.75	91.5	44.5	38.25	42.5	27.75	27
	42	40½ - 42	102.5-106.5	132	108.75	149.5	32.25	40	47.5	59.75	94.5	45.25	38.5	42.75	28	27.5
	44	42½ - 44	108-111.75	137	114	155.5	32.5	40.25	47.75	60	97.5	45.75	38.75	43	28.25	28
	46	44½ - 46	113-116.75	142	119	161.5	32.5	40.25	48	60.25	100.5	46.25	39	43.25	28.5	28.5
	Tolerance±				1.5cm	1.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.75cm
		Measurement Location			A	B	C	D	E	F	G	H	J	K	L	

All dimensions are centimeters unless otherwise indicated.

SCALE OF MEASUREMENTS FOR BREECHES, BLUE, UNISEX

Size Designation			Body Measurements			Garment Measurements											
Length	Size	WAIST		SEAT (Max)	WAIST	SEAT	INSEAM LENGTH Crotch To:				CIRCUMFERENCE AT				Front Rise Along Seam (excluding waistband)	Back Rise Along Seam (excluding waistband)	
		Inches	Cm				Upper Knee	Small	Calf	Upper Ankle	Thigh	Upper Knee	Small	Calf			Upper Ankle
28" Inseam	26	24½ - 26	62.25-66	91.5	68.25	101.8	31.25	39	46.75	59.75	70.75	40.5	36.25	40.5	26.25	24	34.75
	28	26½ - 28	67.25-71	96.5	73.25	107.8	31.5	39	47	60	73.75	41	36.75	40.75	26.5	24.5	35
	30	28½ - 30	72.25-76	101.8	78.25	113.8	31.5	39.25	47.25	60.25	76.75	41.75	37	41	26.75	25	35.5
	32	30½ - 32	77.5-81.25	106.8	83.5	119.8	31.75	39.5	47.25	60.25	79.5	42.25	37.25	41.25	26.75	25.5	36
	34	32½ - 34	82.5-86.25	111.8	88.5	125.8	31.75	39.5	47.5	60.5	82.5	42.75	37.5	41.5	27	26	36.5
	36	34½ - 36	87.5-91.5	116.8	93.5	131.8	32	39.75	47.5	60.5	85.5	43.5	37.75	41.75	27.25	26.5	37
	38	36½ - 38	92.5-96.5	122	98.75	137.8	32	40	47.75	60.75	88.5	44	38	42	27.5	27	37.25
	40	38½ - 40	97.75-101.5	127	103.75	143.8	32.25	40	48	61	91.5	44.5	38.25	42.25	27.75	27.5	37.75
	42	40½ - 42	102.5-106.5	132	108.75	149.8	32.5	40.25	48.25	61.25	94.5	45	38.5	42.75	28	28	38.25
	44	42½ - 44	108-111.75	137	114	155.8	32.5	40.5	48.25	61.25	97.5	45.75	38.75	43	28.25	28.5	38.75
29" Inseam	46	44½ - 46	113-116.75	142	119	161.8	32.75	40.75	48.5	61.5	100.5	46.25	39	43.25	28.5	29	39.25
	26	24½ - 26	62.25-66	91.5	68.25	101.8	31.5	39.5	47.75	61.5	70.75	40.5	36.5	40.25	26.25	24.5	35.25
	28	26½ - 28	67.25-71	96.5	73.25	107.8	31.75	39.5	48	61.5	73.75	41	36.75	40.5	26.5	25	35.75
	30	28½ - 30	72.25-76	101.8	78.25	113.8	31.75	39.75	48	61.75	76.75	41.5	37	40.75	26.75	25.5	36
	32	30½ - 32	77.5-81.25	106.8	83.5	119.8	32	39.75	48.25	62	79.75	42.25	37.25	41	26.75	26	36.5
	34	32½ - 34	82.5-86.25	111.8	88.5	125.8	32	40	48.5	62	82.75	42.75	37.5	41.25	27	26.5	37
	36	34½ - 36	87.5-91.5	116.8	93.5	131.8	32.25	40.25	48.5	62.25	85.5	43.25	37.75	41.75	27.25	27	37.5
	38	36½ - 38	92.5-96.5	122	98.75	137.8	32.5	40.25	48.75	62.5	88.5	44	38	42	27.5	27.5	38
	40	38½ - 40	97.75-101.5	127	103.75	143.8	32.5	40.5	49	62.5	91.5	44.5	38.25	42.25	27.75	28	38.5
	42	40½ - 42	102.5-106.5	132	108.75	149.8	32.75	40.75	49	62.75	94.5	45	38.75	42.5	28	28.5	39
Tolerance±	44	42½ - 44	108-111.75	137	114	155.8	32.75	41	49.25	63	97.5	45.5	39	42.75	28.25	29.25	39.5
	46	44½ - 46	113-116.75	142	119	161.8	33	41	49.5	63	100.5	46.25	39.25	43	28.25	29.75	39.75
	Tolerance±			1.5cm			0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.75cm
	Measurement Location			A			B	C	D	E	F	G	H	J	K	I	

All dimensions are centimeters unless otherwise indicated.

SCALE OF MEASUREMENTS FOR BREECHES, BLUE, UNISEX

Size Designation				Body Measurements				Garment Measurements									
Length	Size	WAIST		SEAT (Max)	WAIST	SEAT	INSEAM LENGTH Crotch To:				CIRCUMFERENCE AT				Front Rise Along Seam (excluding waistband)	Back Rise Along Seam (excluding waistband)	
		Inches	Cm				Upper Knee	Small	Calf	Upper Ankle	Thigh	Upper Knee	Small	Calf			Upper Ankle
30" Inseam	26	24½ - 26	62.25-66	91.5	68.25	101.8	31.75	39.75	48.75	63	70.75	40.5	36.5	40	26.25	25	35.75
	28	26½ - 28	67.25-71	96.5	73.25	107.8	32	40	48.75	63.25	73.75	41	36.75	40.5	26.5	25.5	36.25
	30	28½ - 30	72.25-76	101.8	78.25	113.8	32	40.25	49	63.25	76.75	41.5	37	40.75	26.5	26	36.75
	32	30½ - 32	77.5-81.25	106.8	83.5	119.8	32.25	40.25	49.25	63.5	79.75	42	37.25	41	26.75	26.5	37.25
	34	32½ - 34	82.5-86.25	111.8	88.5	125.8	32.5	40.5	49.25	63.75	82.75	42.75	37.5	41.25	27	27.25	37.75
	36	34½ - 36	87.5-91.5	116.8	93.5	131.8	32.5	40.75	49.5	63.75	85.75	43.25	38	41.5	27.25	27.75	38
	38	36½ - 38	92.5-96.5	122	98.75	137.8	32.75	40.75	49.75	64	88.75	43.75	38.25	41.75	27.5	28.25	38.5
	40	38½ - 40	97.75-101.5	127	103.75	143.5	32.75	41	49.75	64.25	91.75	44.5	38.5	42	27.75	28.75	39
	42	40½ - 42	102.5-106.5	132	108.75	150	33	41.25	50	64.25	94.5	45	38.75	42.25	28	29.25	39.5
	44	42½ - 44	108-111.75	137	114	156	33.25	41.25	50.25	64.5	97.5	45.5	39	42.5	28.25	29.75	40
31" Inseam	46	44½ - 46	113-116.75	142	119	162	33.25	41.5	50.25	64.75	100.5	46	39.25	42.75	28.25	30.25	40.5
	26	24½ - 26	62.25-66	91.5	68.25	101.8	32.25	40.25	49.75	65	71	40.25	36.5	40	26.25	25.75	36.5
	28	26½ - 28	67.25-71	96.5	73.25	107.8	32.25	40.5	49.75	65	73.75	41	36.75	40.25	26.25	26.25	36.75
	30	28½ - 30	72.25-76	101.8	78.25	114	32.5	40.5	50	65.25	76.75	41.5	37	40.5	26.5	26.75	37.25
	32	30½ - 32	77.5-81.25	106.8	83.5	120	32.5	40.75	50	65.25	79.75	42	37.5	40.75	26.75	27.25	37.75
	34	32½ - 34	82.5-86.25	111.8	88.5	126	32.75	41	50.25	65.5	82.75	42.75	37.75	41	27	27.75	38.25
	36	34½ - 36	87.5-91.5	116.8	93.5	132	32.75	41	50.5	65.75	85.75	43.25	38	41.25	27.25	28.25	38.75
	38	36½ - 38	92.5-96.5	122	98.75	138	33	41.25	50.5	65.75	88.75	43.75	38.25	41.5	27.5	28.75	39.25
	40	38½ - 40	97.75-101.5	127	103.75	144	33	41.5	50.75	66	91.75	44.25	38.5	41.75	27.75	29.25	39.75
	42	40½ - 42	102.5-106.5	132	108.75	150	33.25	41.5	51	66.25	94.75	45	38.75	42	27.75	29.75	40
Tolerance±	44	42½ - 44	108-111.75	137	114	156	33.5	41.75	51	66.5	97.75	45.5	39	42.5	28	30.25	40.5
	46	44½ - 46	113-116.75	142	119	162	33.5	42	51.25	66.5	100.8	46	39.25	42.75	28.25	30.75	41
					1.5cm	1.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.75cm
	Measurement Location				A	B	C	D	E	F	G	H	J	K	L		

All dimensions are centimeters unless otherwise indicated.

SCALE OF MEASUREMENTS FOR BREECHES, BLUE, UNISEX

Size Designation			Body Measurements				Garment Measurements											
Length	Size	WAIST		SEAT (Max)	WAIST	SEAT	INSEAM LENGTH Crotch To:				CIRCUMFERENCE AT				Front Rise Along Seam (excluding waistband)	Back Rise Along Seam (excluding waistband)		
		Inches	Cm				Upper Knee	Small	Calf	Upper Ankle	Thigh	Upper Knee	Small	Calf			Upper Ankle	
32" Inseam	26	24½ - 26	62.25-66	91.5	68.25	102	32.5	41	51	67	71	40.25	36.75	39.75	26.25	37		
	28	26½ - 28	67.25-71	96.5	73.25	108	32.75	41	51	67.25	74	40.75	37	40	26.25	37.5		
	30	28½ - 30	72.25-76	101.8	78.25	114	32.75	41.25	51.25	67.25	76.75	41.5	37.25	40.25	26.5	38		
	32	30½ - 32	77.5-81.25	106.8	83.5	120	33	41.25	51.25	67.5	79.75	42	37.5	40.5	26.75	38.5		
	34	32½ - 34	82.5-86.25	111.8	88.5	126	33	41.5	51.5	67.75	82.75	42.5	37.75	40.75	27	38.75		
	36	34½ - 36	87.5-91.5	116.8	93.5	132	33.25	41.75	51.75	67.75	85.75	43.25	38	41.25	27.25	39.25		
	38	36½ - 38	92.5-96.5	122	98.75	138	33.25	41.75	51.75	68	88.75	43.75	38.25	41.5	27.5	39.75		
	40	38½ - 40	97.75-101.5	127	103.75	144	33.5	42	52	68.25	91.75	44.25	38.5	41.75	27.75	40.25		
	42	40½ - 42	102.5-106.5	132	108.75	150	33.75	42.25	52.25	68.25	94.75	44.75	38.75	42	27.75	40.75		
	44	42½ - 44	108-111.75	137	114	156	33.75	42.25	52.25	68.5	97.75	45.5	39.25	42.25	28	41.25		
33" Inseam	46	44½ - 46	113-116.75	142	119	162	34	42.5	52.5	68.75	100.8	46	39.5	42.5	28.25	41.75		
	26	24½ - 26	62.25-66	91.5	68.25	102	33	41.5	52.25	69.25	71	40.25	36.75	39.5	26.25	37.5		
	28	26½ - 28	67.25-71	96.5	73.25	108	33	41.75	52.25	69.5	74	40.75	37	39.75	26.25	38		
	30	28½ - 30	72.25-76	101.8	78.25	114	33.25	41.75	52.5	69.5	77	41.25	37.25	40.25	26.5	38.5		
	32	30½ - 32	77.5-81.25	106.8	83.5	120	33.25	42	52.5	69.75	80	42	37.5	40.5	26.75	39		
	34	32½ - 34	82.5-86.25	111.8	88.5	126	33.5	42.25	52.75	70	82.75	42.5	37.75	40.75	27	39.5		
	36	34½ - 36	87.5-91.5	116.8	93.5	132	33.75	42.25	52.75	70	85.75	43	38	41	27.25	40		
	38	36½ - 38	92.5-96.5	122	98.75	138	33.75	42.5	53	70.25	88.75	43.75	38.5	41.25	27.5	40.5		
	40	38½ - 40	97.75-101.5	127	103.75	144.3	34	42.5	53.25	70.5	91.75	44.25	38.75	41.5	27.75	40.75		
	42	40½ - 42	102.5-106.5	132	108.75	150.3	34	42.75	53.25	70.5	94.75	44.75	39	41.75	27.75	41.25		
Tolerance±	44	42½ - 44	108-111.75	137	114	156.3	34.25	43	53.5	70.75	97.75	45.25	39.25	42	28	41.75		
	46	44½ - 46	113-116.75	142	119	162.3	34.5	43.25	53.75	71	100.8	46	39.5	42.25	28.25	42.25		
	Measurement Location				1.5cm	A	B	C	D	E	F	G	H	J	K	L		
					0.5cm													0.5cm

All dimensions are centimeters unless otherwise indicated.

SCALE OF MEASUREMENTS FOR BREECHES, BLUE, UNISEX

Size Designation		Body Measurements			Garment Measurements												
Length	Size	WAIST		SEAT (Max)	WAIST	SEAT	INSEAM LENGTH Crotch To:				CIRCUMFERENCE AT					Front Rise Along Seam (excluding waistband)	Back Rise Along Seam (excluding waistband)
		Inches	Cm	Upper Knee			Small	Calf	Upper Ankle	Thigh	Upper Knee	Small	Calf	Upper Ankle			
34" Inseam	26	24½ - 26	62.25-66	91.5	68.25	102	33.5	42.25	53.25	72	71	40.25	36.75	39.5	26	27.5	38.25
	28	26½ - 28	67.25-71	96.5	73.25	108	33.5	42.25	53.5	72	74	40.75	37	39.75	26.25	28	38.75
	30	28½ - 30	72.25-76	101.8	78.25	114.3	33.75	42.5	53.75	72.25	77	41.25	37.25	40	26.5	28.5	39
	32	30½ - 32	77.5-81.25	106.8	83.5	120.3	33.75	42.5	53.75	72.25	80	41.75	37.75	40.25	26.75	29	39.5
	34	32½ - 34	82.5-86.25	111.8	88.5	126.3	34	42.75	54	72.5	83	42.5	38	40.5	27	29.5	40
	36	34½ - 36	87.5-91.5	116.8	93.5	132.3	34	43	54	72.5	86	43	38.25	40.75	27.25	30	40.5
	38	36½ - 38	92.5-96.5	122	98.75	138.3	34.25	43	54.25	72.75	89	43.5	38.5	41	27.5	30.5	41
	40	38½ - 40	97.75-101.5	127	103.75	144.3	34.25	43.25	54.5	73	91.75	44.25	38.75	41.25	27.75	31	41.5
	42	40½ - 42	102.5-106.5	132	108.75	150.3	34.5	43.5	54.5	73	94.75	44.75	39	41.75	27.75	31.75	42
	44	42½ - 44	108-111.75	137	114	156.3	34.75	43.5	54.75	73.25	97.75	45.25	39.25	42	28	32.25	42.5
35" Inseam	46	44½ - 46	113-116.75	142	119	162.3	34.75	43.75	55	73.5	100.8	45.75	39.5	42.25	28.25	32.75	43
	26	24½ - 26	62.25-66	91.5	68.25	102.3	33.75	42.75	54.5	74.5	71	40	37	39.25	26	28	38.75
	28	26½ - 28	67.25-71	96.5	73.25	108.3	34	43	54.75	74.5	74	40.75	37.25	39.5	26.25	28.5	39.25
	30	28½ - 30	72.25-76	101.8	78.25	114.3	34	43	54.75	74.75	77	41.25	37.5	39.75	26.5	29	39.75
	32	30½ - 32	77.5-81.25	106.8	83.5	120.3	34.25	43.25	55	74.75	80	41.75	37.75	40	26.75	29.5	40.25
	34	32½ - 34	82.5-86.25	111.8	88.5	126.3	34.25	43.25	55.25	75	83	42.25	38	40.5	27	30.25	40.75
	36	34½ - 36	87.5-91.5	116.8	93.5	132.3	34.5	43.5	55.25	75.25	86	43	38.25	40.75	27.25	30.75	41
	38	36½ - 38	92.5-96.5	122	98.75	138.3	34.5	43.75	55.5	75.25	89	43.5	38.5	41	27.5	31.25	41.5
	40	38½ - 40	97.75-101.5	127	103.75	144.3	34.75	43.75	55.5	75.5	92	44	38.75	41.25	27.75	31.75	42
	42	40½ - 42	102.5-106.5	132	108.75	150.3	35	44	55.75	75.75	95	44.75	39	41.5	27.75	32.25	42.5
Tolerance±	44	42½ - 44	108-111.75	137	114	156.3	35	44.25	56	75.75	98	45.25	39.5	41.75	28	32.75	43
	46	44½ - 46	113-116.75	142	119	162.3	35.25	44.25	56	76	101	45.75	39.75	42	28.25	33.25	43.5
					1.5cm	1.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm	0.75cm
	Measurement Location				A	B	C	D	E	F	G	H	J	K	L		

All dimensions are centimeters unless otherwise indicated.

TABLE 1

	SPECIFICATION	TESTED BY CAN-2-4.2
Weave	Plain	Method 4
Mass	150 to 170 g/m ²	Method 5A
Width	150 cm (min.)	Method 4
Yarns per cm	Warp 39 (min.) Weft 21 (min.)	Method 6 Method 6
Breaking Strength	Warp 537 Newtons (min.) Weft 220 Newtons (min.)	Method 9.2 Grab Method 9.2 Grab
Stability to Washing	Warp 2% (max.) Weft 2% (max.)	Method 24.1 Method 24.1
Colour Fastness (Dyed shades only)		
Washing	Grey Scale 4 (min.)	Method 19.1 (Test 2)
Light	L-4 (min.)	Method 18.1
Perspiration	Grey scale 4 (min.)	Method 23
Crocking	Dry 4 (min.) Wet 4 (min.)	Method 22 Method 22
Pilling	3% (max.)	Method 51.1
Crease Recovery	70%	Method 45
Non-Fibrous Material	3.1% (max.)	Method 15
Fibre Blend	Polyester 65% \pm 3% Cotton 35% \pm 3%	
End Uses	Uniform Shirts, Trouser Linings and Pocketing	

Note: For information purposes, Doubletex' "Calypso" and "Bounty Set US" 65/35 Poly/cotton and meets this Specification. Other Manufacturers' fabrics will be acceptable provided they meet this standard. The colour shall be black or navy in to match the shell material.

APPENDIX A

Sealed Pattern Identifier

Pattern #: G.S. 1045-078

Title: Breeches, Blue, Unisex

Paper Patterns - Paper patterns are available from the RCMP, Quality Control, Ottawa Ontario, under Pattern # G.S.1045-078 Breeches, Blue, Unisex. Firms requested to produce Pre-contract Award Samples will be provided with the base pattern only. The full set of patterns (as well as electronic version if requested) either in individual sizes or as a graded nest will be provided to the successful bidder after the contract is awarded. The paper pattern will supersede over electronic pattern version.

The paper patterns include seam allowances, drill holes and/or placement templates. Contractors may make changes required to suit their production process, however, the design and grade shall not be affected or changed.

All shell parts must be cut in the direction indicated on the grain line of the pattern pieces.

All patterns are the property of the RCMP and must be returned upon completion of the contract.

Pattern Pieces - This design has 16 pattern components.

<u>Legend</u>		Cut 1 Single = Cut 1
Shell Material	= Para. 4.1.1	Cut 1 Paired = Cut 2
Lining Material	= Para. 4.1.3	Cut 2 Paired = Cut 4
		*(RSU) = Right Side Up

Pattern Components	Nomenclature	Quantity to be cut	Material
1 of 16	Upper Back	1 Paired	Shell Material
2 of 16	Lower Back	1 Paired	Shell Material
3 of 16	Front	1 Paired	Shell Material
4 of 16	Pocket - Front Facing	1 Paired	Shell Material
5 of 16	Waistband - Right	1 Single	Shell Material (RSU)*
6 of 16	Waistband - Left	1 Single	Shell Material (RSU)*
7 of 16	Fly Front	1 Single	Shell Material (RSU)*
8 of 16	Fly Curtain	1 Single	Shell Material (RSU)*
9 of 16	Belt Loops	1 Single	Shell Material (RSU)*
10 of 16	Special Belt Loop	1 Paired	Shell Material
11 of 16	Knee Patch Inseam 25 to 29 Inseam 30 to 33 Inseam 34 to 37	1 Paired	Shell Material
12 of 16	Front Gusset	1 Paired	Lining Material
13 of 16	Fly Lining	1 Single	Lining Material(RSU)*
14 of 16	Pocket Bag - Front	1 Paired	Lining Material
15 of 16	Facing Front Eyelet	2 Paired	Para. 4.1.4
16 of 16	Facing Front Leg Opening	2 Paired	Para. 4.1.5

Appendix B

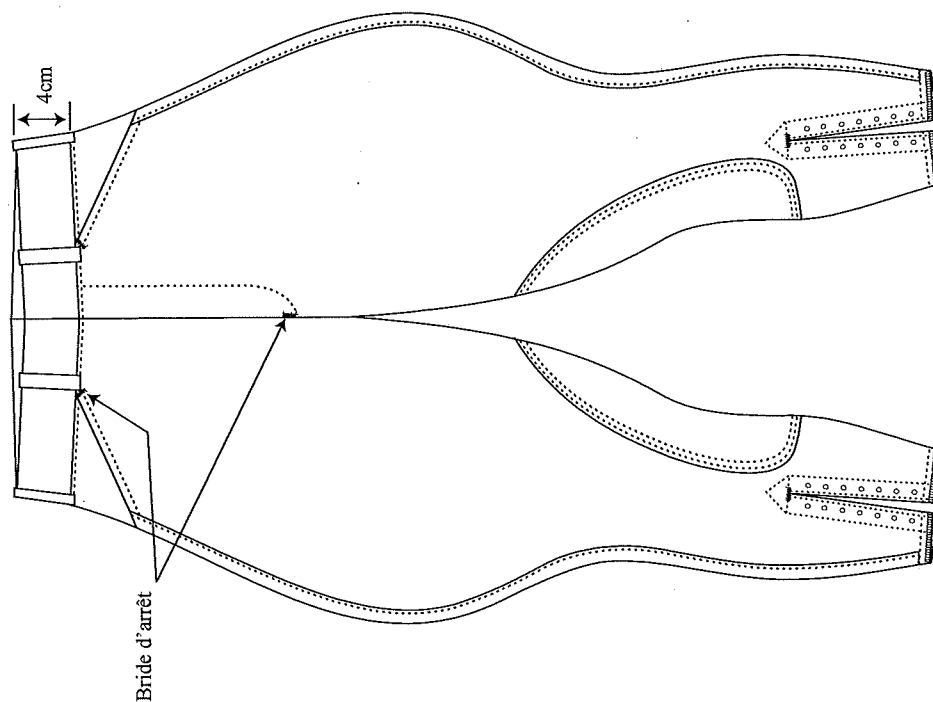
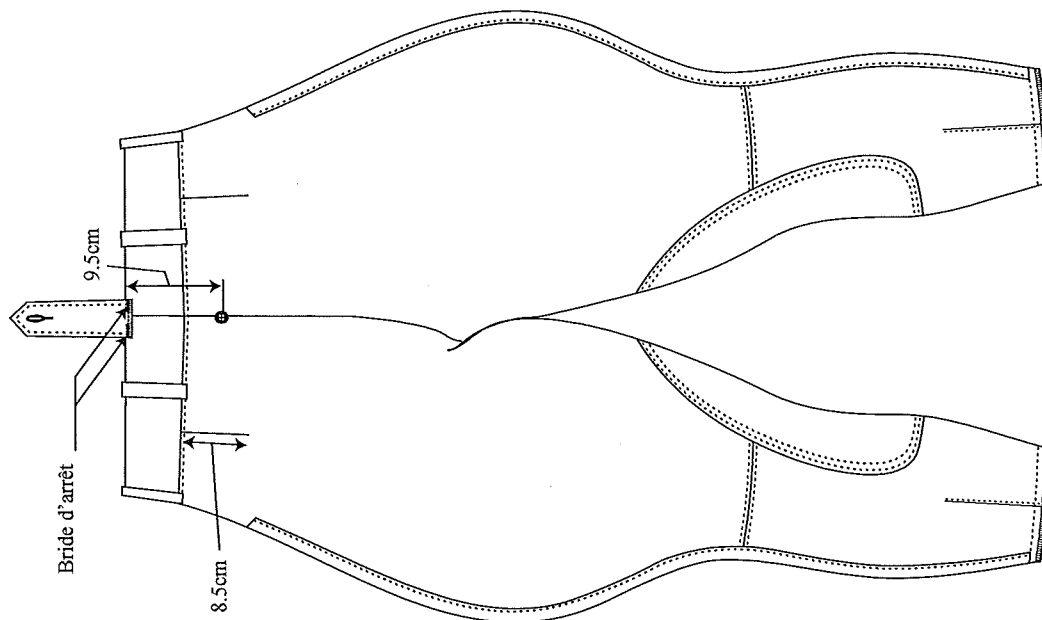
Certification & Testing Criteria

Appendix B contains the definitions for certificate of compliance and test reports that are required for this specification. The tables of requirements shall be used by the manufacturer and RCMP Quality Control Section to ensure proper documentation is received and meets the requirements outlined in this specification.

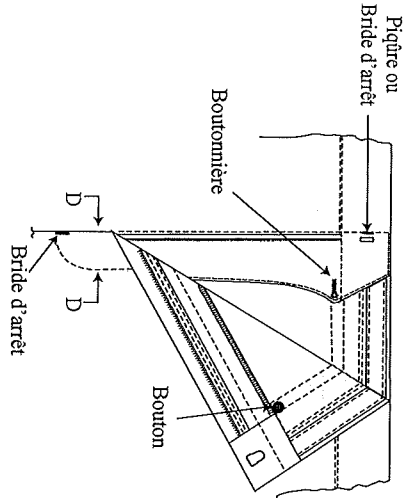
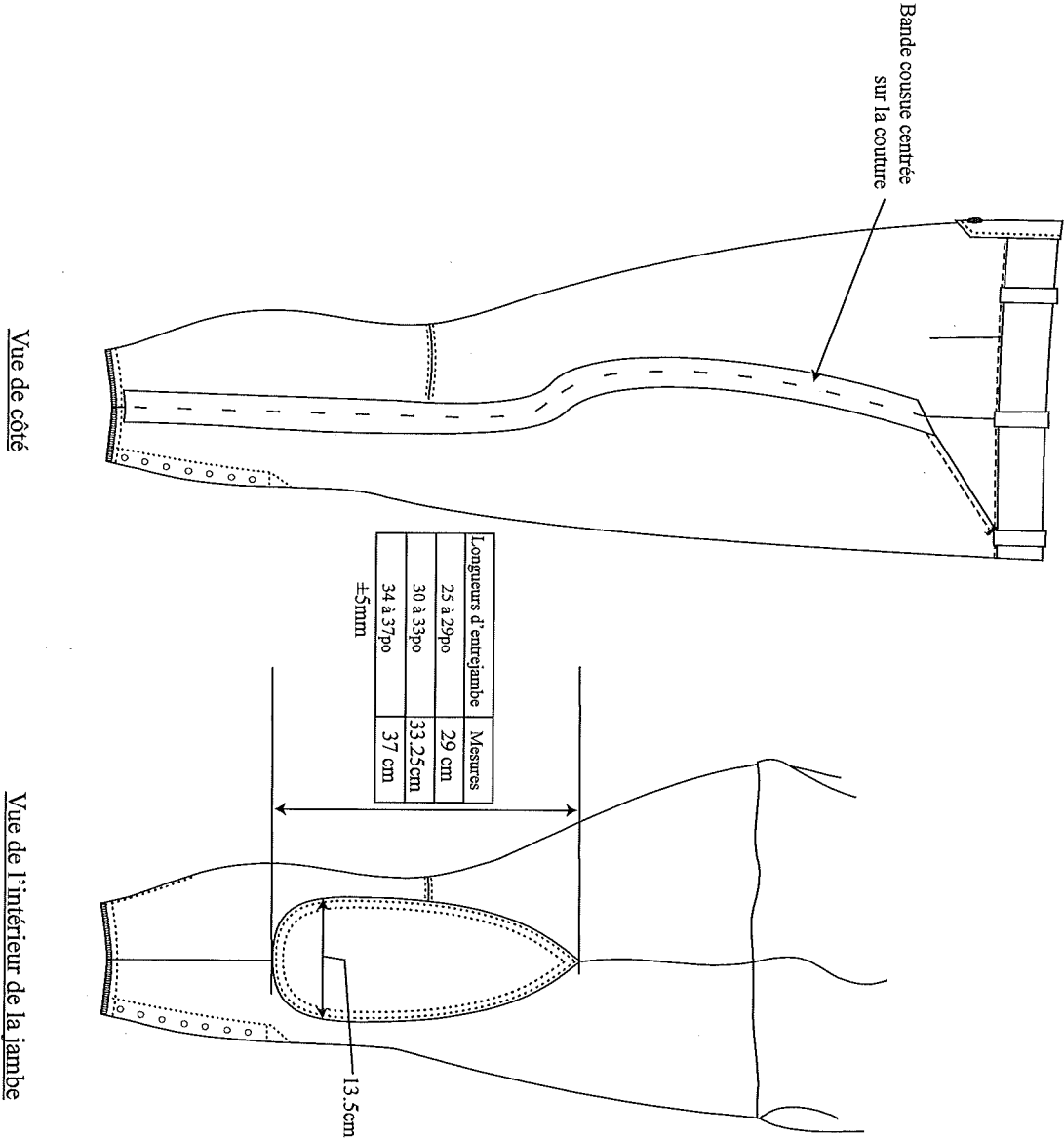
Certification of compliance: Compliance certification documents shall be based on testing from a raw goods manufacturer from an in-house or independent, third-party accredited laboratory acceptable to the RCMP to verify performance requirements as specified in this specification or where indicated an invoice from the raw good supplier is also acceptable.

Test Report: Test report documents shall include the test method, test conditions and test results performed by an independent, third-party accredited laboratory acceptable to the RCMP to verify requirements as specified in this specification.

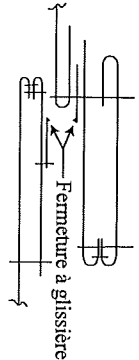
Dessin 1



Dessin 2



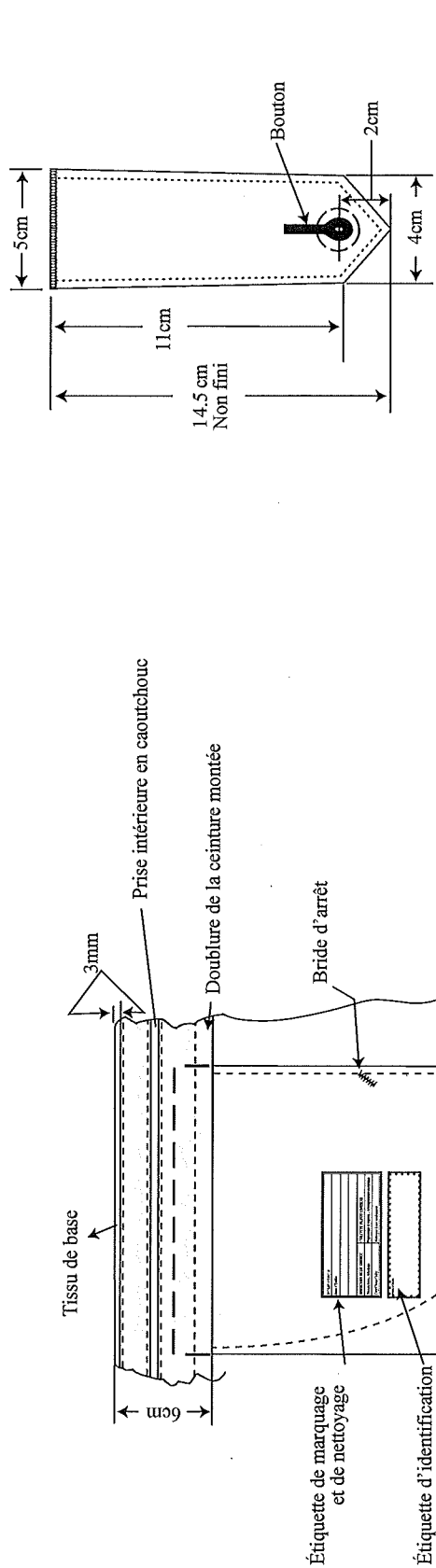
Détail de la braguette



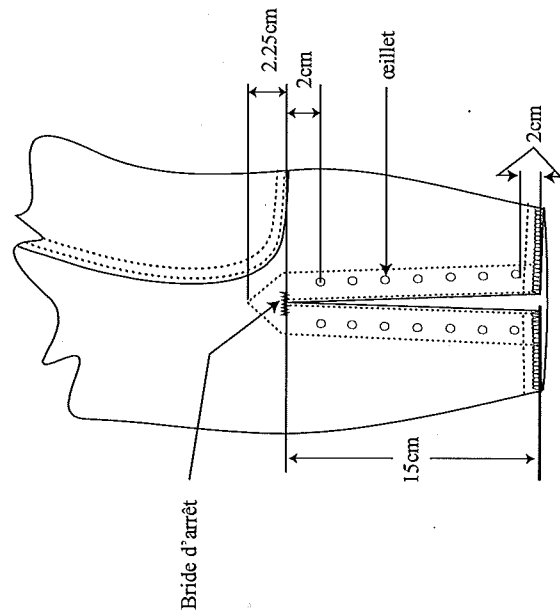
Coupe D-D/Braguette

Toutes les mesures sont en centimètres
NON A L'ÉCHELLE

Dessin 3

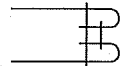


Passant de ceinture spécial



Détail de l'ouverture de jambe

Détail de la poche avant

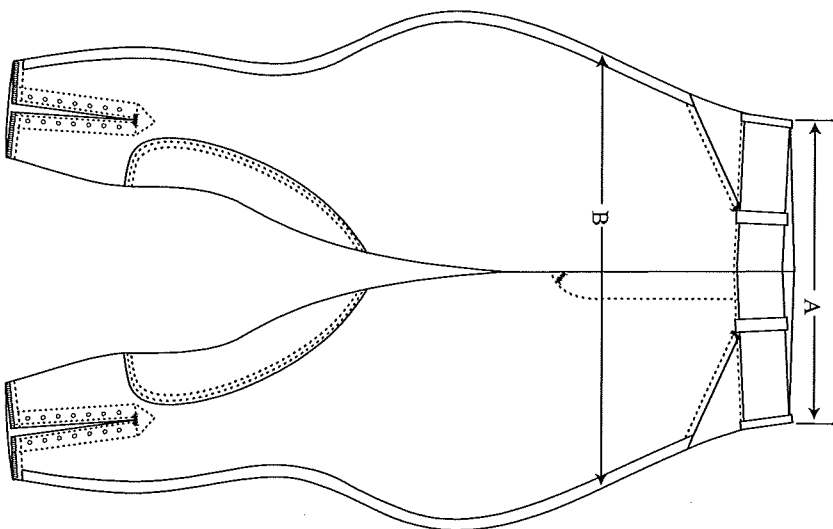


Coupe B-B

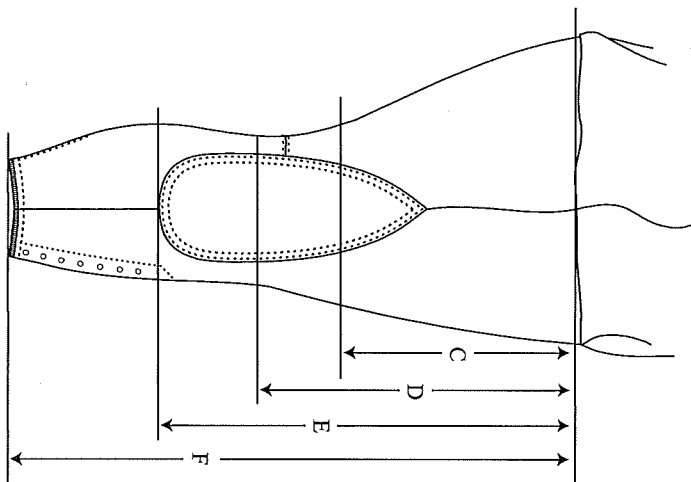
Culotte Bleue Unisexe
Prise des menurations

Dessin 4

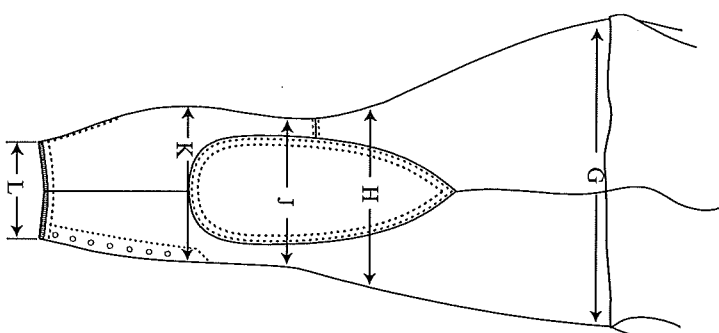
G.S.1045-078



Vue du devant



Vue de côté



Vue de côté

Toutes les mesures sont en centimètres
NON A L'ECHELLE