



PURCHASE DESCRIPTION

REFLECTIVE TAPE, LARGE & SMALL

1. SCOPE

This purchase description describes the requirement for materials, design, construction and inspection of a large and small size reflective tape to be used by Border Service Officers (BSO) within the Canada Border Services Agency (CBSA).

2. GENERAL REQUIREMENTS

- 2.1. **DESIGN** - The large and small reflective tapes shall be constructed using the materials as outlined in this purchase description. All components of the tape; yellow background, black lettering, and silver stripe shall be retro-reflective. All reflective tape shall be constructed in accordance to the attached drawings which are integral parts of this specification.
- 2.2. All articles or materials covered by this purchase description shall be free from imperfections or blemishes such as may affect its appearance or serviceability.
- 2.3. In the event of any inconsistency in the contract documents, purchase description, drawings, or sealed samples. The aforementioned shall prevail in the following order:
 - I) Contract
 - II) Purchase Description
 - III) Drawings
 - IV) Sealed Sample

3. SEALED SAMPLE

A sealed sample, identified by the purchase description number noted in the contract, will be supplied to the successful tenderer if available. This will constitute the standard in regards to any properties not identified within. Variation from the purchase description may appear in the sample in which case the purchase description shall govern unless otherwise identified on the sealed sample tag.

The sealed sample will be sent "prepaid" and is to be returned "prepaid".

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

4. APPLICABLE SPECIFICATIONS

- 4.1. CAN/CSA Z96-09 High-Visibility Safety Apparel.
- 4.2. ASTM E308-01 Standard Practice for Computing the Colors of Objects by Using the CIE System.
- 4.3. AATCC/ASTM Test Method TS-008, Appearance After Repeated Home Laundering - Color Change, Skew, and Fuzz.

5. DETAILED REQUIREMENTS

- 5.1. **Material** - All proponents of the reflective tape shall be made from exposed, wide angle, retroreflective material with 500 candelas average reflective power applied to FR cotton twill fabric, with an overall weight of 15oz. The material shall pass 75 home washes at 60°C under the requirements of CSA-Z96. Printing ink shall be 3-part ink for best abrasion and fade resistance. High visibility yellow and black transparent inks shall be used. Once printed, the reflective tape shall pass a minimum of 50 washes at 60°C without change in appearance. There shall be no fading or cracking under AATCC-ASTM TS-008 test methods.

Note: The reflective tapes are required to meet all the retroreflective performance requirements outlined in Section 6, meeting Table 5 in the CAN/CSA Z96-09 High-Visibility Safety Apparel standard. All retroreflective markings and lettering shall meet a minimum coefficient of retroreflection, RA, and shall be determined in accordance with the procedures defined in ASTM E808 and E809.

- 5.2. **Background Colour - Pantone Matching System**
Yellow: PMS 395C
Black: Pantone Black
- 5.3. **Lettering - Black (as per drawing 1 & 2 attached)**
Font: Arial Narrow
- 5.4. **Dimensions - (as per drawing 1 & 2 attached)**
Large: 23cm (9") x 7.5cm (3")
Small: 12.7cm (5") x 5cm (2")
- 5.5. **Language Requirement** -Two styles of reflective tape identifying both English and French. As specified in the contract documents.

OPTION 1 (English - Drawing 1): English First French second

OPTION 2 (French - Drawing 2): French first English second

6. TECHNICAL INSPECTION

The contractor shall be responsible for the performance of all inspections and tests necessary to demonstrate that the materiel and services being supplied conform to the requirements of this purchase description. This may be accomplished by performing the test specified in this purchase description or by demonstrating to the satisfaction of the CBSA, Technical Authority that conformity to the purchase description and manufacturing process is assured. The contractor may use any independent, ISO 9001 certified and ISO 17025 "Textile" certified testing facilities acceptable to the CBSA Technical Authority. Certification documents will be required.

The CBSA Technical Authority reserves the right to perform any inspection considered necessary to ensure the materials 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 fewer than 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 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 redelivered for inspection.

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.

7. DELIVERY, PACKING & MARKING OF CONTAINERS

It is the responsibility of the manufacturer to ensure that goods are packaged in a suitable manner to be delivered in an undamaged condition. Any goods received in a damaged condition will be returned to the manufacturer for replacement at his full cost.

Packing and marking of shipping containers shall be as specified in the invitation to tender.

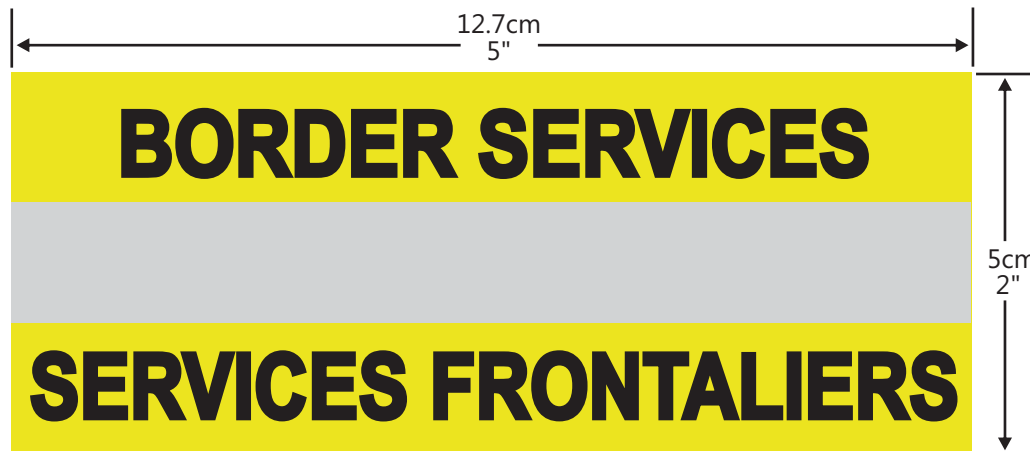
A packing slip shall be enclosed showing the contents of each shipment.

The contractor shall also identify clearly on the outside of each package (box) the following items. Within each box, the large and small reflective tapes shall come packaged in plastic bags in units of 50.

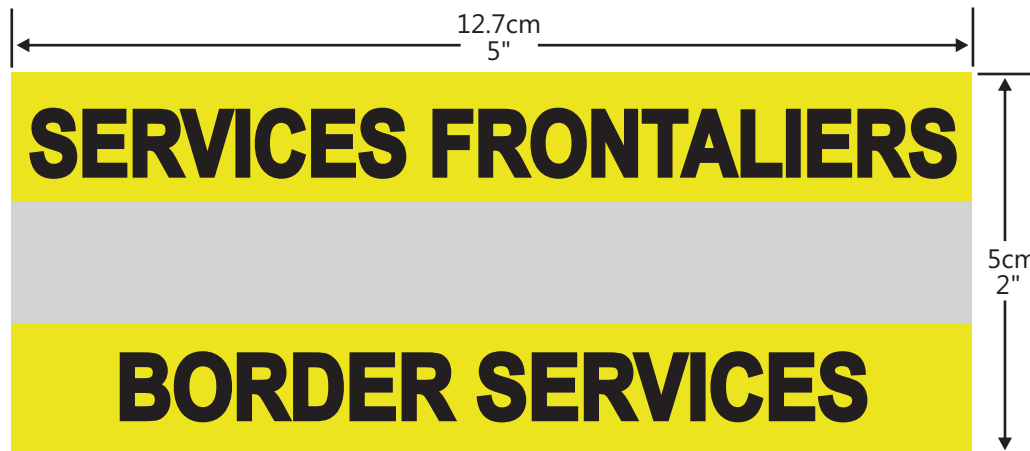
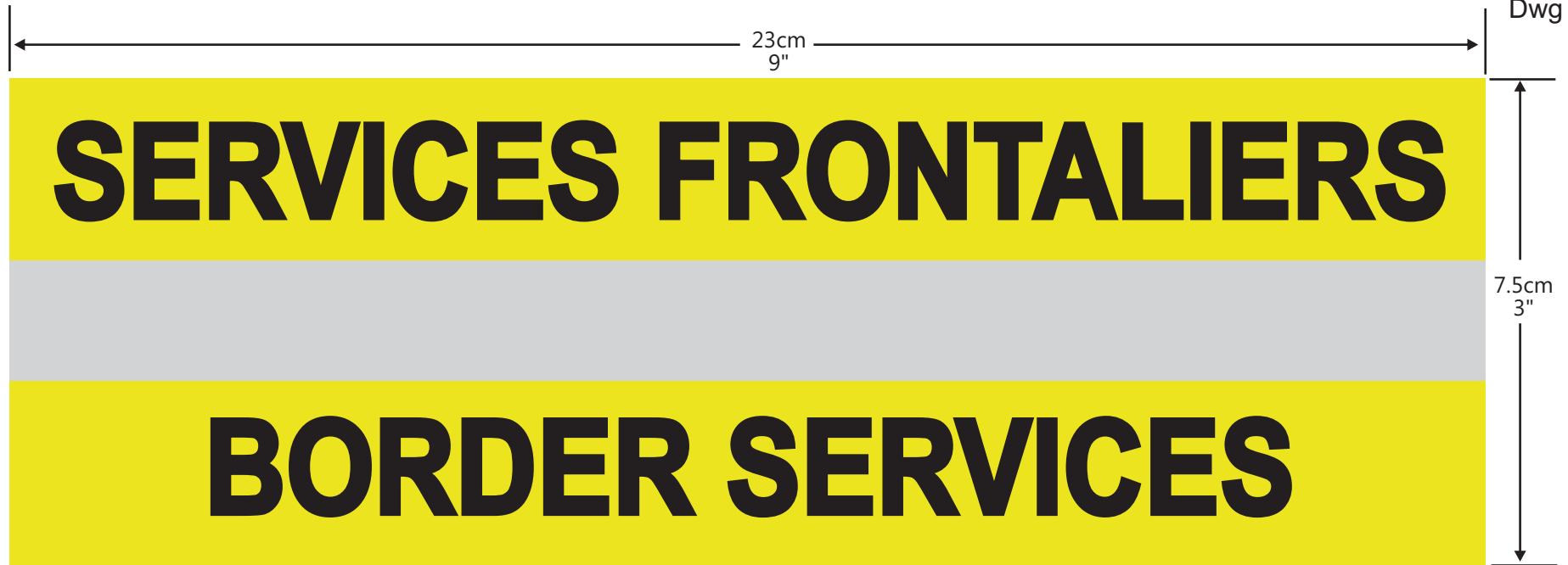
- Size
- Material Master Number
- Quantity of each size contained in the box
- Contract Number

8. APPENDICES

DRAWINGS - Appendix A



- 2cm (3/8") SILVER RETROREFLECTIVE MATERIAL
- YELLOW (PANTONE 395C) RETROREFLECTIVE MATERIAL
- BLACK (PANTONE Black) RETROREFLECTIVE LETTERING
FONT: ARIAL NARROW



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