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Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**LETTER OF INTEREST  
LETTRE D'INTÉRÊT**

Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
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Issuing Office - Bureau de distribution  
Furniture Division/Division des produits de l'ameublement  
11 Laurier St. / 11, rue Laurier  
6B1, Place du Portage  
Gatineau  
Québec  
K1A 0S5

<b>Title - Sujet</b> OFFICE SEATING	
<b>Solicitation No. - N° de l'invitation</b> E60PQ-120001/A	<b>Date</b> 2012-05-17
<b>Client Reference No. - N° de référence du client</b> E60PQ-120001	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$\$\$PQ-959-60489
<b>File No. - N° de dossier</b> pq959.E60PQ-120001	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2012-06-04</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Frigon, Francine	<b>Buyer Id - Id de l'acheteur</b> pq959
<b>Telephone No. - N° de téléphone</b> (819) 956-7331 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>   <b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>   <b>Signature</b>   <b>Date</b>	

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**ANNEX A-1 for CATEGORY: “OFFICE SEATING”**  
**Covering Sub-Category: “Rotary Task Chair”**

**Specifications - Purchase Description PD-8**  
(Purchase Description to Accompany CAN/CGSB 44.232-2008)

**1.0 SCOPE**

- 1.1 This purchase description (PD) applies to rotary task chairs for general office use by federal government employees.

**2.0 APPLICABLE PUBLICATIONS**

The following publications apply to this PD. Reference to these publications, or test methods herein, is to the latest issue, unless otherwise stated.

- 2.1 Association for Contract Textiles (ACT) Voluntary Performance Guidelines
- 2.2 American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/BIFMA) ANSI/BIFMA X5.1-2002 - American National Standard for Office Furnishings - General Purpose Office Chairs - Tests
- 2.3 Canadian General Standards Board  
CAN/CGSB-44.232-2008 - Task Chairs for Office Environments
- 2.4 American Society for Testing and Materials (ASTM)  
ASTM D 3574 - Standard Test Methods for Flexible Cellular Materials - Slab, Bonded and Molded Urethane Foams.
- 2.5 California Department of Consumer Affairs  
California Technical Bulletin 117 - Requirement, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture.

**3.0 TERMINOLOGY**

For the purpose of this PD the following definitions apply:

- 3.1 Series - Is comprised of models of chairs that have structural relationships and like construction.
- 3.2 Tilt Mechanism - A device that enables the seat and backrest to incline from a horizontal and/or vertical position. Tilt mechanisms must be equipped with a tilt tension control.

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- 3.3 Manual Back Adjustment - A device that changes the backrest lumbar geometry of a chair that is manually manipulated by the user.
- 3.4 Passive Back Adjustment - A device that changes the backrest lumbar geometry of a chair that is unconsciously manipulated by the user. For example, the way a lumbar support automatically increases as the sitter reclines. Unselfconscious sitting that provides the support a user needs without requiring the conscious effort of a manual or active adjustment.
- 3.5 Breathable Material - Any knit, woven, or knotted fabric of open texture (example: mesh).
- 3.6 Environmentally Appropriate Materials - Materials that have minimal to no negative impact on the environment. These materials may include, but are not limited to, eco-friendly fibres and rapidly renewable resources.
- 3.7 Design for Durability - Is achieved in several different ways: by identifying and eliminating potential weak points in the design; by designing the product to withstand repeated service, repair and handling; by ensuring that standardized parts and components are readily available to facilitate maintenance, servicing and reassembly; by designing a product, including all components to last at least 10 years.
- 3.8 Design for Reparability - Elements of the product must be capable of being repaired to a "like new" condition to extend the first life of the product as long as possible.
- 3.9 Recyclable - A component, which after its intended use, can demonstrably be diverted from the solid waste stream for use as a raw material in the manufacture of another product.
- 3.10 CFC is defined as a Chlorofluoro Carbon.
- 3.11 PBDE is defined as Poly-brominated Diphenyl Ethers.
- 3.12 Durable - Ability to resist wear, deterioration and damage.

#### **4.0 SUB-CATEGORIES**

- 4.1 Rotary task chairs include the following sub-categories - Type I - Front Tilt, Type I - Center Tilt, and Type II Rotary Task Chair.
- 4.2 Each Sub-Category is described in relation to the tilting mechanism of the chair and must meet the following criteria:

- 4.2.1 Type I - Front Tilt - A rotary task chair with a tilt mechanism and a pivot point located near the front of the seat directly behind the knees.
- 4.2.2 Type I-Center Tilt - A rotary task chair with a tilt mechanism and a pivot point located at the center of the seat.
- 4.2.3 Type II - A rotary task chair with an independent seat angle adjustment or independent back angle adjustment or both.

## 5.0 GENERAL REQUIREMENTS

All rotary task chairs must have the following:

- 5.1 Seat Depth - be either fixed medium or adjustable.
- 5.2 Lumbar Adjustment - a lumbar support which is either fixed or adjustable.
  - 5.2.1 An adjustable lumbar support must be at least one of the following types:
    - a. In/out adjustment;
    - b. Up/down adjustment;
    - c. Both in/out and up/down adjustments.
- 5.3 Armrests - be either fixed or adjustable.
  - 5.3.1 Adjustable armrests must be height, width and swivel "T" style arms.
- 5.4 Backrest Adjustments - be manual or passive back adjustment.
- 5.5 Upholstering for all chairs - seat and back must be upholstered in either fabric or breathable material or both fabric and breathable material.
  - 5.5.1 Fabric used for upholstering:
    - a) must meet the requirements and acceptance levels of the Association for Contract Textiles (ACT) Voluntary Performance Guidelines. The fabric must meet the heavy duty rating for abrasion resistance;
    - b) must be manufactured from 100% recycled material or alternatively, be produced from other environmentally appropriate materials; and
    - c) the fabric must have been tested in accordance with the standards cited by the Association for Contract Textiles (ACT) Voluntary Performance Guidelines and, as a minimum, must have undergone and successfully passed all testing listed in Table IV of this Annex A-1.

### 5.5.2 Breathable material used for upholstery:

- a) must meet the requirements and acceptance levels of the Association for Contract Textiles (ACT) Voluntary Performance Guidelines, however is exempt from the breaking strength and the seam slippage tests as stated in the ACT Voluntary Performance Guidelines; and
- b) the breathable material must have been tested in accordance with the standards cited by the Association for Contract Textiles (ACT) Voluntary Performance Guidelines and, as a minimum, must have undergone and successfully passed all testing listed in Table IV of this Annex A-1.

5.6 Casters - have casters suitable for carpeted surfaces. Alternatively, if requested by Canada, casters for hard surfaces must be supplied at no additional charge to Canada.

5.7 Seat Height - be a standard seat height.

## 6.0 DETAILED REQUIREMENTS

6.1 All chairs must meet the requirements of CAN/CGSB-44.232-2008 including all applicable performance tests with the following exception:

6.1.1 Backrest - The backrest height must be classified as follows:

- a. Standard Back - The top of the backrest must not be less than 450mm (17.7 in.)
- b. High Back - The top of the backrest must be at least 75mm (3 in.) greater than the standard back in the same series, being at least 525mm (20.6 in.) or greater.

## 7.0 DETAILED ENVIRONMENTAL REQUIREMENTS

### 7.1 Resource Input

7.1.1 Metal components must be finished using low volatile organic compound (VOC) content or non-toxic surface coatings.

7.1.2 Steel used in the manufacture of the chairs must contain a minimum of 25% recycled content.

7.1.3 All plastic components must be recyclable at the end of their life.

### 7.2 Product Design

7.2.1 Products must be durable and/or repairable.

7.2.2 Replacement components must be available to replace broken pieces during the warranty period.

### 7.3 General

#### 7.3.1 Solid Waste Diversion Program

The chairs must be manufactured in a facility for which the manufacturer has a solid waste diversion program for landfill disposals (excluding hazardous waste) that has been published and implemented.

#### 7.3.2 Products Free from CFCs and PBDEs

Chairs must not contain chlorofluorocarbon (CFC) or Polybrominated diphenyl Ether (PBDE).

#### 7.3.3 Hazardous and Toxic Material Management System

The manufacturer of the chairs must have a hazardous and toxic material management system in place at the production and associated facilities where the chairs are produced.

#### 7.3.4 Corrugated Packaging

If corrugated containers are utilized, the corrugated containers must contain at least 80% recycled content paper fibre and/or come from a sustainable managed forest.

#### 7.3.5 Environmental Policy

The manufacturer of the chairs must have an environmental policy. The policy must include, as a minimum, three environmental objectives that the manufacturer is either achieving on an ongoing basis, or, is in the process of implementing. As a minimum, one of the objectives must include compliance with at least one of the applicable environmental legal obligations of its Province or State (or, if a country other than Canada or the United States of America, equivalent to a Province or State).

#### 7.3.6 Environmental Improvements and Initiatives

As a minimum, the manufacturer of the chairs must have:

(a) performed at least two environmental improvements that the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing; or

(b) implemented at least two environmental initiatives that the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing; or

(c) performed at least one environmental improvement and implemented at least one environmental initiative, both of which the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing.

## **8.0 TESTING REQUIREMENTS**

### **8.1 Testing**

8.1.1 PD and ANSI/BIFMA: All chairs must meet the requirements of this PD and the acceptance levels as described in ANSI/BIFMA X5.1-2002. All chairs must have been tested in accordance with the standards cited by ANSI/BIFMA X5.1-2002 and, as a minimum, must have undergone and successfully passed all testing listed in Tables I and III of this Annex A-1.

8.1.2 PD and CAN/CGSB: All chairs must meet the requirements of this PD and CAN/CGSB-44.232-2008 - Task Chairs for Office Environments. All chairs must have been tested in accordance with the standards cited by CAN/CGSB-44.232-2008 – Task Chairs for Office Environments and, as a minimum, must have undergone and successfully passed all testing listed in Tables II and III of this Annex A-1.

8.1.3 The upholstery for all chairs must have been tested in accordance with the requirements of article 5.5 herein.

### **8.2 Test Reports & Accredited Test Facility**

8.2.1 All ANSI/BIFMA performance testing and CAN/CGSB dimensional testing requirement test reports must be completed by an Acceptable Test Facility. An Acceptable Test Facility is defined as a laboratory that is accredited by a nationally recognized body such as Standards Council of Canada, A2LA (American Association for Laboratory Accreditation) or is listed on the Canadian General Standards Board (CGSB) Laboratory Acceptance Program for the applicable scope of testing requested.

8.2.2 Testing laboratory accreditation processes must be completed and laboratory accreditation must be granted at the time that all tests are performed.

### **8.3 Provision of Test Reports**

8.3.1 Upon Canada's request, the Supplier must provide completed test reports to confirm compliance with the above Testing Requirements. The test reports must be provided to the requester no later than the requested delivery date and at no additional charge to

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Canada. For each requester, one copy of each report must be supplied in paper version or in CD/DVD format in Excel version 2003 or older, as required by Canada.

8.3.2 As a minimum, the content of each test report submitted must include the same content information as referenced by ANSI/BIFMA X5.1-2002, Section 3.7.

8.3.3 For all test reports that are not specific to the products in the SA, the Supplier must provide an explanation to Canada as to why the “worst-case condition” applies to the products. The definition of “worst-case condition” can be found at ANSI/BIFMA X5.1-2002, paragraph 2.30.

8.3.4 If requested by Canada, the Supplier must provide additional supporting documentation regarding the testing completed for the products.

## **9.0 PREPARATION FOR DELIVERY**

9.1 Marking - In addition to the marking requirement stated in CAN/CGSB-44.232-2008, the chairs must be permanently and legibly marked on the under surface of the seat with the name or the recognized trademark of the manufacturer, the product number, the contract number and the date of manufacture.



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**ANNEX A-1 CONTINUED – for CATEGORY: “OFFICE SEATING”  
Covering Sub-Category: “Side Chair”**

**Specifications - Purchase Description - GPD-6**

**1.0 SCOPE**

- 1.1 This government purchase description (GPD) applies to metal frame side chairs for general office use by federal government employees.

**2.0 APPLICABLE PUBLICATIONS**

The following publications apply to this PD. Reference to these publications, or test methods herein, is to the latest issue, unless otherwise stated.

- 2.1 Association for Contract Textiles (ACT) Voluntary Performance Guidelines.
- 2.2 American National Standards Institute/Business and Institutional Furniture Manufacturer's Association (ANSI/BIFMA)  
ANSI/BIFMA X5.1-2008 - American National Standard for Office Furnishings - General Purpose Office Chairs - Tests
- 2.3 American Society for Testing and Materials (ASTM)  
ASTM D 3574 - Standard Test Methods for Flexible Cellular Materials - Slab, Bonded, and Molded Urethane Foams.
- 2.4 California Department of Consumer Affairs  
California Technical Bulletin 117 - Requirement, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture.

**3.0 TERMINOLOGY**

For the purpose of this GPD the following definitions apply:

- 3.1 Series - Is comprised of models of chairs which have structural relationships and like construction.
- 3.2 Armrest - A component of a chair intended to provide support to the occupant's forearm.
- 3.3 Armrest Clearance - The narrowest horizontal distance between the inside edges of the Armrests.

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- 3.4 Backrest Width - The horizontal distance between the outside edges of the backrest at it's widest point.
- 3.5 Seat Width - The horizontal distance between the outside edges of the seat, at the geometric center.
- 3.6 Breathable Material - Any knit, woven, or knotted fabric of open texture (example: mesh).
- 3.7 Environmentally Appropriate Materials - Materials that have minimal to no negative impact on the environment. These materials may include, but are not limited to, eco-friendly fibres and rapidly renewable resources.
- 3.8 Design for Durability - Is achieved in several different ways; by identifying and eliminating potential weak points in the design; by designing the product to withstand repeated service, repair and handling; by ensuring that standardized parts and components are readily available to facilitate maintenance, servicing and reassembly; by designing a product, including all components to last.
- 3.9 Design for Reparability - Elements of the product must be capable of being repaired to a "like new" condition to extend the first life of the product as long as possible.
- 3.10 Recyclable - A component, which after its intended use, can demonstrably be diverted from the solid waste stream for use as a raw material in the manufacturer of another product.
- 3.11 CFC is defined as a Chlorofluoro Carbon.
- 3.12 PBDE is defined as Poly-brominated Diphenyl Ethers.
- 3.13 Durable - Ability to resist wear, deterioration and damage.

#### **4. GENERAL REQUIREMENTS**

All metal frame side chairs must have the following:

- 4.1 Be upholstered, with arms, a backrest, a fixed seat height, and be either stacking or not stacking.
- 4.2 Finished chairs must be uniform in quality, clean and free from any defects that may affect appearance and serviceability.

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- 4.3 External surfaces must be smooth and all edges must be rounded or bevelled. All accessible surfaces must be free from sharp edges, burrs and any other hazards to safety.
- 4.4 The covering must be properly positioned, clean and well tailored in appearance. All excess covering must be neatly trimmed and any surplus removed. Fastening devices, such as staples, must be so positioned as not to be obviously visible. The bottom of the seat must be finished without exposed edges.
- 4.5 Upholstery for all chairs - be in either fabric or breathable material.
- 4.5.1 Seats must be cushion and upholstered in either fabric or breathable material.
- 4.5.2 Fabric used for upholstering:
- a) must meet the requirements and acceptance levels of the Association for Contract Textiles (ACT) Voluntary Performance Guidelines. The fabric must meet the heavy duty rating for abrasion resistance;
  - b) must be manufactured from 100% recycled material or alternatively, be produced from other environmentally appropriate materials; and
  - c) the fabric must have been tested in accordance with the standards cited by the Association for Contract Textiles (ACT) Voluntary Performance Guidelines and, as a minimum, must have undergone and successfully passed all testing listed in Table IV of this Annex A-1.
- 4.5.3 Breathable material used for upholstering:
- a) must meet the requirements and acceptance levels of the Association for Contract Textiles (ACT) Voluntary Performance Guidelines, however is exempt from the breaking strength and the seam slippage tests as stated in the ACT Voluntary Performance Guidelines; and
  - b) the breathable material must have been tested in accordance with the standards cited by the Association for Contract Textiles (ACT) Voluntary Performance Guidelines and, as a minimum, must have undergone and successfully passed all testing listed in Table IV of this Annex A-1.
- 4.6 Flammability - All applicable components must comply with California Technical Bulletin 117.

## **5.0 DETAILED REQUIREMENTS**

- 5.1 Seat Waterfall - The front edge of the seat must be curved downward.
- 5.2 Cushioning Material - Foam cushioning materials used in the seat and backrest must be expanded flexible urethane foam of flat slab, sculpted slab or moulded construction. These foam materials must be tested in accordance with ASTM D3574 Dynamic Fatigue

Test by Constant Force Pounding, Test I-3 procedure B, the loss of force support at 40 % IFD (Indentation Force Deflection) must not exceed 23% for seat applications and 33% for backrest applications.

## **6.0 DIMENSIONAL REQUIREMENTS**

The following dimensional requirements apply:

- 6.1. Seat Width - The seat cushion must not be less than 400 mm (15.7 in.) wide.
- 6.2. Backrest Width - The backrest cushion must have a minimum width of 350 mm (13.8 in).
- 6.3. Armrest Clearance - The clearance must be not less than 450 mm (17.7 in.).

## **7.0 DETAILED ENVIRONMENTAL REQUIREMENTS**

### **7.1 Resource Input**

- 7.1.1 Metal components must be finished using low volatile organic compound (VOC) content or non-toxic surface coatings.
- 7.1.2 Steel used in the manufacture of the chairs must contain a minimum of 25% recycled content.
- 7.1.3 All plastic components must be recyclable at the end of their life.

### **7.2 Product Design**

- 7.2.1 Products must be durable and/or repairable.
- 7.2.2 Replacement components must be available to replace broken pieces during the warranty period.

### **7.3 General**

#### **7.3.1 Solid Waste Diversion Program**

The chairs must be manufactured in a facility for which the manufacturer has a solid waste diversion program for landfill disposals (excluding hazardous waste) that has been published and implemented.

#### **7.3.2 Products Free from CFCs and PBDEs**

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Chairs must not contain chlorofluorocarbon (CFC) or Polybrominated diphenyl Ether (PBDE).

### 7.3.3 Hazardous and Toxic Material Management System

The manufacturer of the chairs must have a hazardous and toxic material management system in place at the production and associated facilities where the chairs are produced.

### 7.3.4 Corrugated Packaging

If corrugated containers are utilized, the corrugated containers must contain at least 80% recycled content paper fibre and/or come from a sustainable managed forest.

### 7.3.5 Environmental Policy

The manufacturer of the chairs must have an environmental policy. The policy must include, as a minimum, three environmental objectives that the manufacturer is either achieving on an ongoing basis, or, is in the process of implementing. As a minimum, one of the objectives must include compliance with at least one of the applicable environmental legal obligations of its Province or State (or, if a country other than Canada or the United States of America, equivalent to a Province or State).

### 7.3.6 Environmental Improvements and Initiatives

As a minimum, the manufacturer of the chairs must have:

- (a) performed at least two environmental improvements that the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing; or
- (b) implemented at least two environmental initiatives that the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing; or
- (c) performed at least one environmental improvement and implemented at least one environmental initiative, both of which the manufacturer deems important in reducing the impact of its operations on the environment and the benefits are ongoing.

## 8.0 TESTING REQUIREMENTS

### 8.1 Testing

- 8.1.1 GPD and ANSI/BIFMA: All chairs must meet the requirements of this GPD and the acceptance levels as described in ANSI/BIFMA X5.1-2002. All chairs must have been tested in accordance with the standards cited by ANSI/BIFMA X5.1-2002 and, as a

minimum, must have undergone and successfully passed all testing listed in Tables I and III of this Annex A-1.

- 8.1.2 The upholstery for all chairs must have been tested in accordance with the requirements of article 4.5 herein.

## 8.2 Test Reports & Accredited Test Facility

- 8.2.1 All ANSI/BIFMA performance testing and CAN/CGSB dimensional testing requirement test reports must be completed by an Acceptable Test Facility. An Acceptable Test Facility is defined as a laboratory that is accredited by a nationally recognized body such as Standards Council of Canada, A2LA (American Association for Laboratory Accreditation) or is listed on the Canadian General Standards Board (CGSB) Laboratory Acceptance Program for the applicable scope of testing requested.

- 8.2.2 Testing laboratory accreditation processes must be completed and laboratory accreditation must be granted at the time that all tests are performed.

## 8.3 Provision of Test Reports

- 8.3.1 Upon Canada's request, the Supplier must provide completed test reports to confirm compliance with the above Testing Requirements. The test reports must be provided to the requester no later than the requested delivery date and at no additional charge to Canada. For each requester, one copy of each report must be supplied in paper version or in CD/DVD format in Excel version 2003 or older, as required by Canada.

- 8.3.2 As a minimum, the content of each test report submitted must include the same content information as referenced by ANSI/BIFMA X5.1-2002, Section 3.7.

## 8.3 Provision of Test Reports

- 8.3.1 Upon Canada's request, the Supplier must provide completed test reports to confirm compliance with the above Testing Requirements. The test reports must be provided to the requester no later than the requested delivery date and at no additional charge to Canada. For each requester, one copy of each report must be supplied in paper version or in CD/DVD format in Excel version 2003 or older, as required by Canada.

- 8.3.2 As a minimum, the content of each test report submitted must include the same content information as referenced by ANSI/BIFMA X5.1-2002, Section 3.7.

- 8.3.3 For all test reports that are not specific to the products in the SA, the Supplier must provide an explanation to Canada as to why the "worst-case condition" applies to the products. The definition of "worst-case condition" can be found at ANSI/BIFMA X5.1-2002, paragraph 2.30.

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- 8.3.4 If requested by Canada, the Supplier must provide additional supporting documentation regarding the testing completed for the products.

## **9.0 PREPARATION FOR DELIVERY**

- 9.1 Marking - The chairs must be permanently and legibly marked on the under-surface of the seat with the name or the recognized trademark of the manufacturer, the product number, the contract number and the date of manufacture.
- 9.2 Labelling - When the textile labelling legislation of the federal and/or provincial governments applies to textiles components parts of chairs, Suppliers of this government purchase description must ensure that they are in compliance with the requirements of the legislation.

**ANNEX A-1 CONTINUED for CATEGORY: “OFFICE SEATING”**  
**Covering Sub-Categories: “Rotary Task Chairs” and**  
**“Side Chairs”**

**TABLES I - IV**

<b>TABLE I</b>	
<b>Performance Testing Standard: ANSI/BIFMA X5.1-2002</b>	
<b>ANSI/BIFMA Section</b>	<b>Testing Requirement Description</b>
<b>For Rotary Task Chairs</b>	
5	Back Strength Test - Type I
6	Back Strength Test - Type II
7	Base Test - Static
8	Drop Test - Dynamic
9	Swivel Test - Cyclic
10	Tilt Mechanism Test
11	Seating Durability Tests
12	Stability Tests
13	Arm Strength Test - Vertical
14	Arm Strength Test - Horizontal
15/16	Backrest Durability Test
17	Caster/Chair Base Durability Test
20	Arm Durability Test
21	Out Stop Test for Chairs with Manually Adjustable Seat Depth
<b>For Side Chairs</b>	
6	Back Strength Test - Type II
8	Drop Test - Dynamic
11	Seating Durability Tests
12	Stability Tests
13	Arm Strength Test - Vertical
14	Arm Strength Test - Horizontal
16	Backrest Durability Test
17	Caster/Chair Base Durability Test
18	Leg Strength Test
20	Arm Durability Test



TABLE II	
Dimension Testing Standard: CAN/CGSB-44.232-2008	
CAN/CGSB Section	
Testing Requirement Description	
For Rotary Chairs	
<b>5.0 - Detailed Requirements</b>	
5.3	Cushioning Material
5.5	Seat Waterfall
5.6	Column Clearance
<b>6.0 - Dimensional Requirements</b>	
6.1	Seat Width
6.2	Backrest Width
<b>6.3 - Fixed Components</b>	
6.3.1	Seat Depth
6.3.2	Backrest Height
<b>6.3.3 - Armrest (par. 9.1 g)</b>	
6.3.3.1	Armrest Height
6.3.3.2	Armrest Length
6.3.3.3	Armrest Setback
6.3.3.4	Clearance Between Armrests
6.3.3.5	Armrest Width
6.3.4	Lumbar Support Height
6.3.5	Backrest-to-Seat Angle
For Rotary Chairs	
<b>6.4 - Adjustable Components</b>	
6.4.1	Standard Seat Height Adjustment Range
6.4.2	Lumbar Support Height Adjustment
<b>6.4.3 - Armrest (par. 9.1 j)</b>	
6.4.3.1	Armrest Height Adjustment
6.4.3.2	Lateral Adjustment of Armrest
6.4.3.3	Horizontally Swivelling Adjustable Armrest
6.4.4	Seat Depth Adjustment
<b>6.5 - Seat and Back Controls</b>	
6.5.1	Seat Pan Angle
6.5.2	Backrest Angle to the Horizontal
6.5.3	Backrest-to-Seat Angle
6.5.4	Tilt Mechanism

<b>TABLE III</b>	
<b>TESTING REQUIREMENTS OF PD-8 AND GPD-8</b>	
<b>For Rotary Chairs</b>	
<b>PD-8 Rotary Chairs Section</b>	
<b>6.0 - Detailed Requirements</b>	
6.2	Backrest Height
<b>For Side Chairs</b>	
<b>GPD-6 Side Chairs Section</b>	
<b>5.0 - Detailed Requirements</b>	
5.1	Seat Waterfall
5.2	Cushioning Material
<b>6.0 - Dimensional Requirements</b>	
6.1.1	Seat Width
6.1.2	Backrest Width
6.1.3	Armrest Clearance

<b>TABLE IV</b>	
<b>ACT Voluntary Performance Guidelines Testing</b>	
<b>For Rotary &amp; Side Chairs</b>	
<b>Test Description</b>	
<b>Test Requirements</b>	
<b>Flame Resistance</b> California Bulletin 117, Section E	Class A or Class 1
<b>Wet and Dry Crocking</b>	
AATCC 8-2001	Wet Crocking - Grade 4 minimum
AATCC 8-2001	Dry Crocking - Grade 3 minimum
<b>Colourfastness to Light</b>	
AATCC 16 Option 1 or 3-2003	Grade 4 minimum at 40 hours
<b>Brush Pill</b>	
ASTM D3511-02	Class 3 minimum
<b>Breaking Strength (Grab Test)</b>	
ASTM D5034-95 (2001) Not applicable to Mesh	50 lbs. minimum in warp & weft

Solicitation No. - N° de l'invitation

E60PQ-120001/A

Client Ref. No. - N° de réf. du client

E60PQ-120001

Amd. No. - N° de la modif.

File No. - N° du dossier

pq959E60PQ-120001

Buyer ID - Id de l'acheteur

pq959

CCC No./N° CCC - FMS No/ N° VME

TABLE IV	
ACT Voluntary Performance Guidelines Testing	
For Rotary & Side Chairs	
<b>Seam Slippage</b>	
ASTM D4034 [N/A for Knit Fabrics (ie Mesh)]	25 lbs. minimum in warp & weft
<b>Heavy Duty</b>	
ASTM D4157-02 (ACT ap'vd #10 Cotton Duck)	30,000 Double rubs Wyzenbeek method; or 40,000 cycles Martindale method

**ANNEX A-2 for CATEGORY: “OFFICE SEATING:  
Covering Sub-categories: “Rotary Task Chair” and “Side Chair”**

**Chair Configurations to be Available to Canada**

ROTARY TASK CHAIR								
Chair features:	Chair Type	Backrest Height	Lumbar Support	Arm Rests	Seat Depth	Seat and Backrest Locks	Upholstery	Green Chair Recognition
Choice to be made, per model, for each feature:	Type I-Front Tilt Chair	Standard Back	Fixed	Fixed Arm	Adjustable	Lockable in Setup Position	Dual Fabric	Yes
	Type I-Center Tilt Chair	High Back	Adjustable	Height/Width/Swivel Adjustable "T" Arm	Medium Fixed	Lockable in Multiple Positions	Dual Breathable Material	No
	Type II-Rotary Task Chair						Seat Breathable Material, Back Fabric	
							Back Breathable Material, Seat Fabric	

SIDE CHAIR					
Chair features:	Chair Type	Base Style	Stacking Capability	Upholstery	Green Chair Recognition
Choices to be made, per model, for each feature:	Type III - Side Chair	Four Legs	Stacking	Dual Fabric	Yes
		Cantilever	Non-Stacking	Back Breathable Material, Seat Fabric	No
		Sled			

For the solicitation:

- the Supplier is to choose one of the choices, per feature, for each model of chair offered;
- a model can also be recognized as a Green Chair if it meets certain criteria to be listed in the solicitation.