

**This Challenge is issued under the BCIP Challenge Call for Proposals (EN578-DB1700).**

Please refer to the [Solicitation Documents](#).

**Challenge Name: Retrofitting Canada's building armour**

**Challenge Notice: EN578-DB1705**

**Priority Area: Military Component**

**Maximum Contract Value: \$1,000,000**

**Challenge Sponsor: The Royal Canadian Mounted Police (RCMP)**

### **Background/Summary**

Traditional building armour materials are often prohibitive due to excessive weight exceeding structure limits, excessive thickness for the allowable space or fit and finish not compatible with a residential environment. The purpose of this challenge is to identify and evaluate light-weight solution of ballistic panels (the "Innovation") to retrofit existing rooms of public officials to match changing threat levels.

### **Challenge Details**

The aim of this challenge for the RCMP's Armour Systems Engineering Section unit to test the performance of the Innovation for the purpose of retrofitting rooms (walls, floors and ceilings) of residential homes and commercial facilities. The product's **ballistic and forced entry resistance must demonstrate a clear improvement on the existing state-of-the-art for retrofitted building armour.**

**Note:** The following elements of the challenge will be assessed in accordance with the Proposal Submission Form and the Evaluation Grid.

The Innovation should possess as many of the following characteristics:

- The ballistic panels should be able to attach themselves to one another to form a continuous wall/floor/ceiling that can be adapted to various shape requirements and accommodate window and door openings
- The ballistic panels should be made into sheet sizes that are compatible with existing residential house space requirements (i.e: 4'x8', 4'x4' or other similar pending the weights of the panels)
- Scalable level of protection would also be of interest given the various types of environments that are considered.

The Innovation must possess all the following characteristics:

- The installation must be retrofitted into existing rooms at reasonable modification costs. As the RCMP is rarely given the opportunity to address this protection requirement at the time of construction, not all targeted rooms are temperature controlled (-40 C to +40 C pending on geographical locations).

- The panels' fit and finish must be refined enough to be paintable, match other adjacent walls/ceilings, and be compatible with traditional flooring materials.

Innovation that possesses the following characteristics will not be considered:

- RCMP will not accept Innovation where the ballistic panel installation are not simple enough to be performed by trade personnel using common power tools.

### **Proposal**

Bidders must provide technical details of the Innovation and how it meets the above targets in their proposal. The proposal submission form can be found on the [Challenge Notice](#).

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**Challenge Name: Protecting Canada's Public Officials**

**Challenge Notice: EN578-DB1703**

**Priority Area: Military Component**

**Maximum Contract Value: \$1,000,000**

**Challenge Sponsor: The Royal Canadian Mounted Police (RCMP)**

### **Background/Summary**

RCMP has identified the requirement to introduce a variety of high security door assembly solutions within a series of immediate security upgrades for deployment within the residences of public officials. Traditional armour materials are prohibitive due to excessive weight and challenging to introduce within a residential environment. The purpose of this challenge is to identify and evaluate light weight high security door assembly solutions (the "Innovation") for sliding and swinging doors that can be deployed within a residential environment.

### **Challenge Details**

The aim of this challenge for the RCMP Protective Technical Services Branch (PTSB), Armour Systems Engineering Section (ASES), and the Mechanical Security System Section (MSSS) unit to test the performance of the Innovation.

Each fully framed door assembly system is defined as the door, locking mechanisms, hinges, frame and all Force Entry and Ballistic Resistant overlaps

**Note:** The following elements of the challenge will be assessed in accordance with the Proposal Submission Form and the Evaluation Grid.

The Innovation should possess as many of the following characteristics:

- Light weight solution should offer ease of operation, whether manual or automated
- Assembly should offer protection from ballistic resistance
- Assembly should offer protection from forced entry
- The door locking mechanism should comply with all applicable building and life safety codes
- The fully framed door system should be aesthetically compatible with surrounding architectural elements in both commercial and residential applications.

The Innovation must possess all the following characteristics:

- Each Assembly must be light-weight and preference will be given to lighter materials and psi.

- **Each Assembly proposed must offer ballistic and forced-entry resistance, and must demonstrate a clear improvement on the existing state-of-the-art for ballistic and forced entry.**

### **Proposal**

Bidders must provide technical details of the Innovation and how it meets the above targets in their proposal. The proposal submission form can be found on the [Challenge Notice](#).

**This Challenge is issued under the BCIP Challenge Call for Proposals (EN578-DB1700/A).**

Please refer to the [Solicitation Documents](#).

**Challenge Name: Enhancing portable ballistic panels**

**Challenge Notice: EN578-DB1704**

**Priority Area: Military Component**

**Maximum Contract Value: \$1,000,000**

**Challenge Sponsor: The Royal Canadian Mounted Police (RCMP)**

### **Background/Summary**

Portable ballistic panels are deployed by RCMP to protect public officials during events in which ballistic threat have been identified. The RCMP has been using such panels for many years but the increase in the number of events requiring this kind of protection, a more portable solution is needed. The purpose of this challenge is to identify and evaluate light weight solution ballistic panels (the "Innovation") that can be easily deployed to serve as a barrier at events when required.

### **Challenge Details**

The aim of this challenge for the RCMP's Amour Systems Engineering Section unit to test the performance of the Innovation. The unit has been responsible for deploying the panels at designated VIP events.

**Note:** The following elements of the challenge will be assessed in accordance with the Proposal Submission Form and the Evaluation Grid.

The Innovation should possess as many of the following characteristics:

- Ballistic panels that can attach themselves to one another to form a continuous temporary wall that can be adapted to various shape requirements.
- The panels' fit and finish is refined enough to be deployed during highly visible media events.

The Innovation must possesses all the following characteristics:

- The wall sections must be made into kits that can be shipped via commercial courier, TBD by the manufacturer based on design, size and weight.
- Two types of panel would be evaluated
  1. Panels with an upper half portion providing visibility either through transparent material or some other means, while the bottom portion can remain opaque.
  2. Full opaque panels.
- The panels must be light-weight so that they can be hand manipulated and installed by 2 persons. The panel size must be:

- Height: between 72" to 96"
- Width: between 36" to 48"
- Thickness: TBD based on design
- The product's ballistic resistance must **demonstrate a clear improvement on the existing state-of-the-art**
- The panels are meant to be used indoor and outdoor. For outdoor usage, it is expected that the panels have good resistance against UV, humidity/rain, and ambient temperatures (-40 C to +40C pending on season and geographical location). It is also expected that the support system can adapt itself to less than perfect ground condition (uneven or slopped) and resist wind loads.
- The panels are meant to be stored in racking shelves systems in storage area that are not temperature controlled.

### **Proposal**

Bidders must provide technical details of the Innovation and how it meets the above targets in their proposal. The proposal submission form can be found on the [Challenge Notice](#).