

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](#).