

Job/Project Title	BARPC Portable Backstop Use
MS Revision Number	V0.2
Date	17 May 2024

Description of Works

Task	Setting Up the Portable Backstop
Time	Daylight hours
Duration	Dependant on site ~20minutes per section
Sequence	1. Confirm layout of the temporary range. 2. Mark out the shooting line, target positions and backstop location. 3. Erect the backstop as per the Instructions contained in this Method Statement.
Location	Various temporary range locations.

Resources Required

Personnel	Range Officer (RO) + at least one other person
Supervision	Nil.
Equipment (per section of backstop)	Ballistic Curtain x1 2.4m Picket x2 (1xLeft + 1xRight each fitted with cleat hooks) Post Driver x1 15m cord x1 2m stock fence pole x3
Materials	Gloves, eye protection and hearing protection when driving in pickets.

Assessment of Significant Risks

Access/Egress	Nil.
Place of Work	Dynamic Risk Assessment to be conducted by RO for each site.
Others at risk	Persons assisting with the build of the temporary range.
COSHH, noise, manual handling	COSHH – Nil. Noise – Hearing protection to be used when driving in pickets. Manual Handling – No individual piece of equipment requires to be a 2 (or more) person carry. All personnel involved to be reminded prior to works that the pickets and poles have sharp points.

Control Measures to be used

Permits	Nil.
Security	Restrict access to the temporary range area to BARPC personnel only during works.
Special training	ROs to receive training prior to use.
Other	Briefing issued to all involved prior to commencing works.

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Description.

The Temporary Backstop consists of a ballistic curtain suspended between pickets and supported by poles.

Its function is to stop errant shots and contain all pellets (including ricochets) from leaving the range danger area.

It is not designed to be used as a pellet catcher, targets must have their own pellet catchers (either integral steel plates/funnels or additional steel plates placed directly behind them).

Multiple pellet strikes on the same point on the curtain will degrade the material and ultimately lead to pellets passing through the fabric.

Prior to commencing work remember that the temporary backstop;

- **Must** be at least 20m from the shooting line¹
- **Should** be at least 30m from the shooting line, the further the separation the better
- **Must not** be used as a pellet catcher
- **Must** have at least 1m clearance to the rear²
- **Should** only be used in conjunction with diablo and/or wadcutter pellets made from lead³.

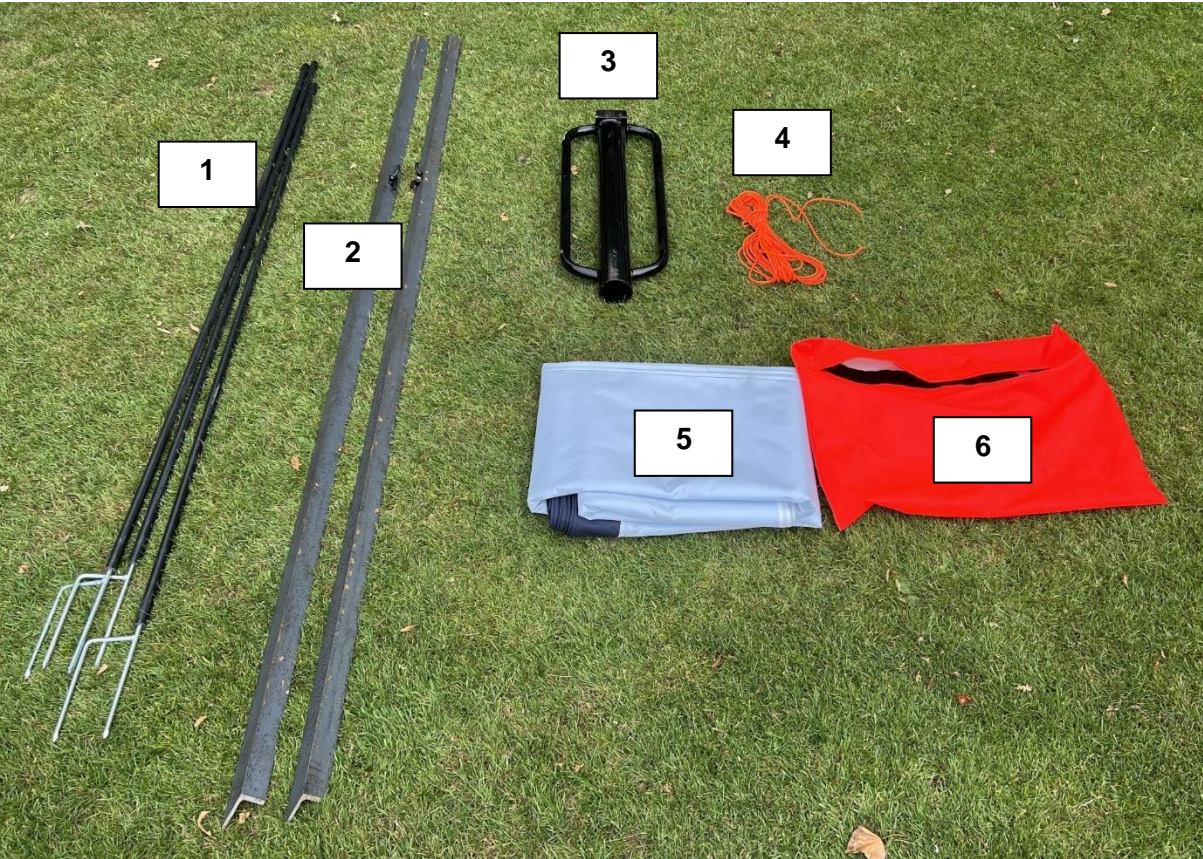
¹ If used solely for sub 6fpe rifles/pistols this can be reduced to 10m.

² Most prevalent if used indoors, the curtain must have room to move as it absorbs the impact and so must be setup up with a gap between it and any walls/objects.

³ During testing non-lead pointed pellets caused premature wear and ultimately failure of the ballistic curtain. As per all BARPC run ranges ammunition containing plastic or steel is not to be used.

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Equipment List (per section)		
Item #	Name	Remarks
1	2m Poles	x3
2	2.4m Picket (with cleat hooks)	x2
3	Post Driver	
4	Para cord (approx. 15m)	
5	Ballistic Curtain	
6	Carry/Storage Bag	

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Instructions

1. Layout the two 2.4m pickets 9m apart, ensuring that the cleat hooks are on the outside edges and the holes are parallel.
2. Using the post driver knock the pickets into the ground to a depth of 50cm. This will require two people, one to hold the picket in position and the other to operate the driver. Both persons should wear protective gloves (to prevent abrasions), protective glasses/goggles (in case of flying debris) and use hearing protection (due to impact noise between post driver and pickets). The person holding the picket should do so below the position of the cleat hooks to ensure their hands are clear of the driver.
3. Layout the ballistic curtain with the eyelets in line with the pickets.
4. Thread the cord through the eyelets.
5. Thread the cord through one of the pickets and secure it using the cleat hook.
6. Thread the cord through the second picket, pull it tight (lifting the ballistic curtain) and secure it with the cleat hook.
7. Adjust the curtain so that it is evenly distributed between the pickets. Note – it needs to hang loosely in order to be effective, there should be ~50cm extra fabric vertically and ~1m horizontally.
8. Place 3 of the plastic fencing poles evenly spaced between the pickets and behind the ballistic curtain, seat the cord on the top of each pole. Care should be taken when stamping in the poles.

Steps 1-8 can then be repeated if additional sections are required to make a wider backstop. If this is the case there should be at least a 50cm-1m overlap between sections.

The ballistic curtain can be used without the pickets and poles if alternative supports are available, such as at an indoor venue. If this is the case a dynamic risk assessment should be undertaken and an agreed method of construction decided upon by those deploying the curtain.

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