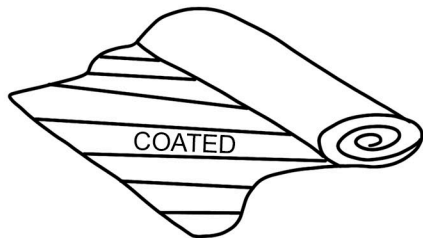
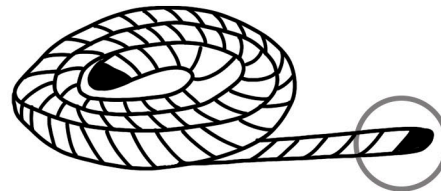


1 Equipment Resource Rescue Throwline Manual

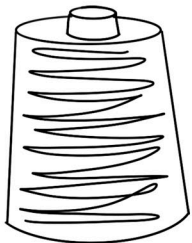
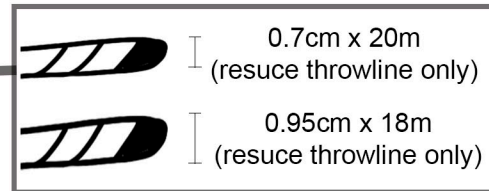
Materials



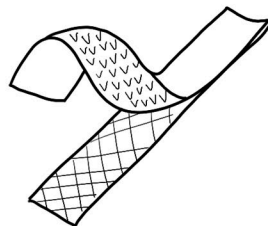
Bright colour
(red/yellow/orange),
lightweight, tough
(500 denier/ripstop) nylon



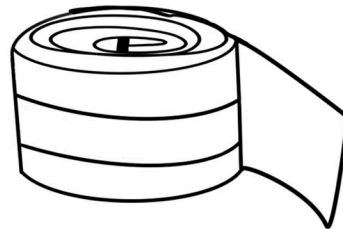
Floating bright colour
(red/yellow/orange)
polypropylene rope
3-10kN static breaking strength



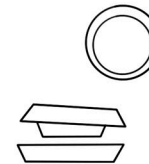
Polyester thread



Velcro (double-sided)
2x16cm



Webbing
3x28cm



2.2cm stainless steel
eyelets

Community Production

The following instructions and template can be used by a community tailor or craft person with a sewing machine to make a simple rescue throwline for emergency use.

Production Safety

Sewing machines can cause serious injury if not handled correctly. Make sure you keep your hands clear of the needle when moving the fabric through the machine. Keep your fingers pointed outwards and use your thumbs to guide the fabric, making sure not to get too close to the sewing machine foot or needle. Remove pins before they get near the foot, sewing over a pin could cause breakage and a potential injury. Use the hammer and fabric shears with care to avoid any hand injuries.

Disposal/recycling

The line and bag can be used for other purposes in the community. It is possible to recycle polypropylene and nylon and local recycling specialists should be consulted for advice.

Environmental impact assessment

Producing equipment in low volumes locally with recycled materials will have minimum effect on the environment. When undertaking high volume production, the following guidance will ensure that the environment is considered.

Materials

Ensure recycled or re-purposed materials are used whenever possible. Always use the minimum amount of materials needed. It is good practice to investigate where the materials that are used in production have come from. Try to ensure that they are from a sustainable and ethical source.

Production

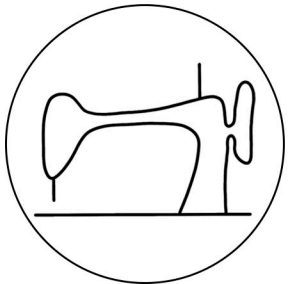
Ensure that the minimum amount of energy is used in the production process and waste materials are minimised.

Disclaimer

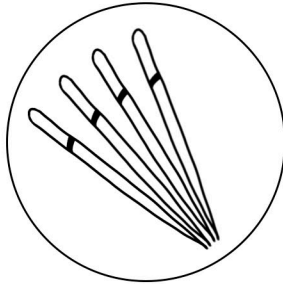
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2 Rescue Throwline Production

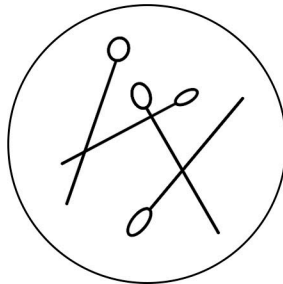
Tools



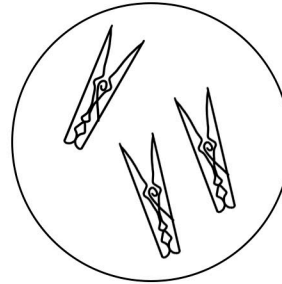
Sewing machine



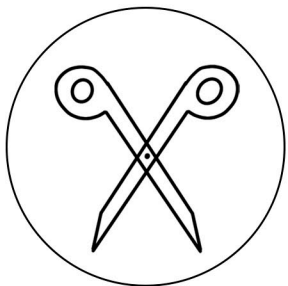
Denim needles



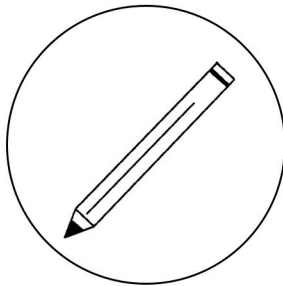
Pins



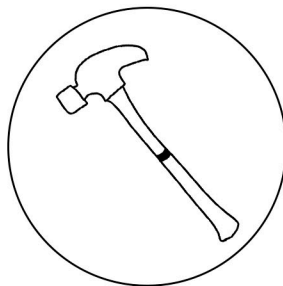
Pegs



Scissors



Pencil/Pen



Hammer



Lighter

Tips and notes for assembly (refer to page 3 of manual)

Cut out your pattern slowly and carefully

Make sure you snip all notches (►) for guidance.

Only pin fabric in the seam allowance.

Use a heavy-duty sewing machine if possible.

Use a medium-size stitch (0.2-0.25cm) max.

Reverse stitch at the start and end of each seam.

Always sew 1cm in from the edge unless instructed to do otherwise.

Sew two or three times in areas where specified in the instructions where more strength is needed.

Feedback

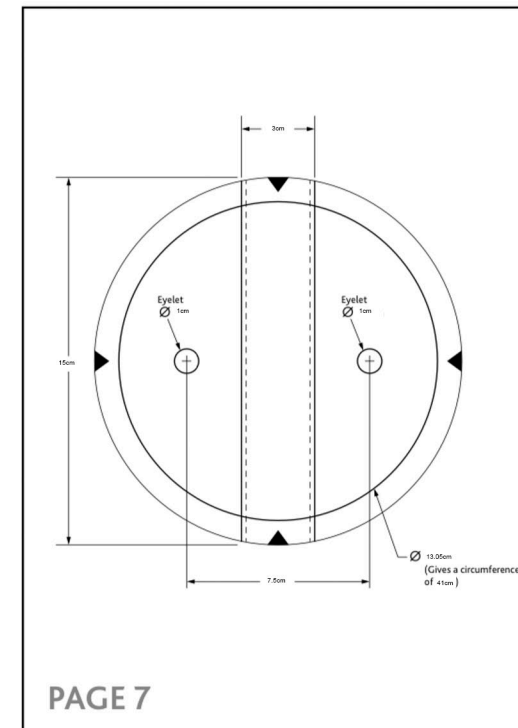
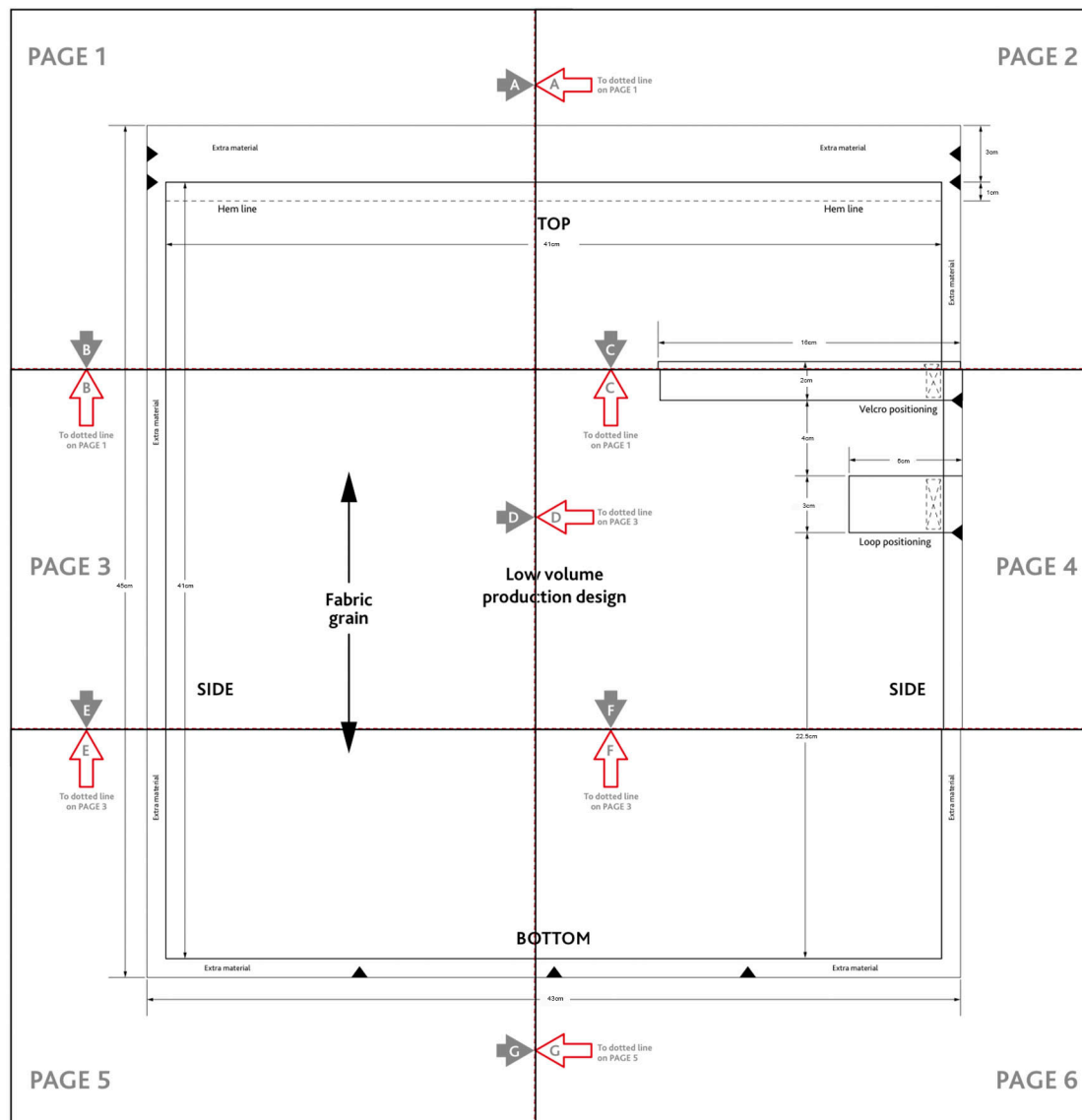
The RNLI welcomes feedback on this information and the bottle ring design. Please email international@rnli.org.uk with comments and suggestions.

If you have a story involving this item of equipment or if you have used it to help or save someone, please email details and any photographs to international@rnli.org.uk

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3 Rescue Throwline Pattern Instruction

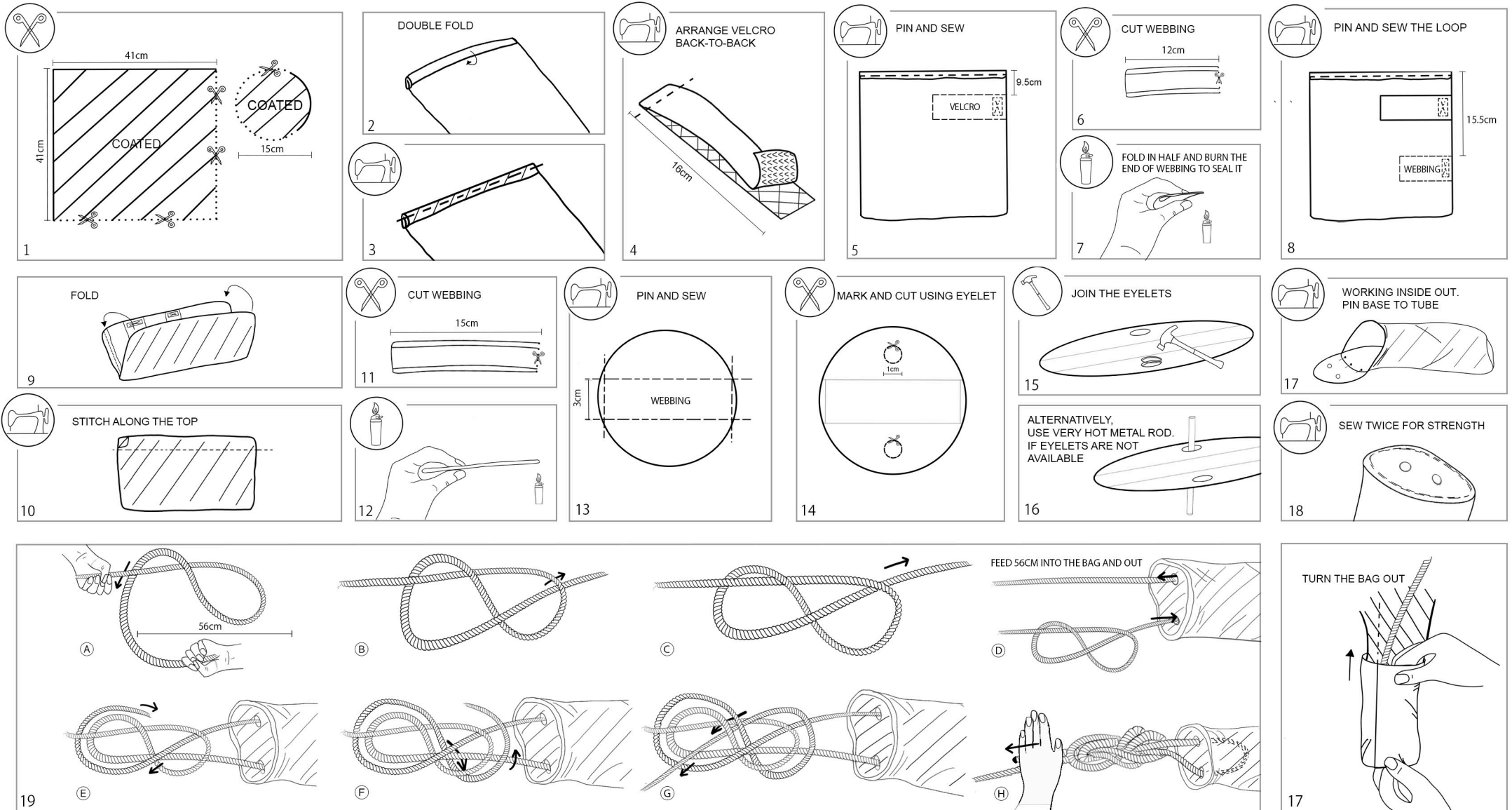


Templates/pattern
 Loose, full size, A4 master templates/ pattern to help production of and signage for the rescue throwline. Photocopy the master templates at 100% scale, then cut them out before using for production/signage. (DO NOT SCALE THEM UP OR DOWN). Arrange the pattern pages as shown, then follow the arrows on each page to overlap the pages as shown at the bottom right of this page. Stick/attach the pages as you go.

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4 Rescue Throwline Production



1 COATED COATED COATED 41cm 41cm 15cm

2 DOUBLE FOLD

3

4 ARRANGE VELCRO BACK-TO-BACK 16cm

5 PIN AND SEW 9.5cm VELCRO

6 CUT WEBBING 12cm

7 FOLD IN HALF AND BURN THE END OF WEBBING TO SEAL IT

8 PIN AND SEW THE LOOP 15.5cm WEBBING

9 FOLD

10 STITCH ALONG THE TOP

11 CUT WEBBING 15cm

12

13 PIN AND SEW 3cm WEBBING

14 MARK AND CUT USING EYELET 1cm

15 JOIN THE EYELETS

16 ALTERNATIVELY, USE VERY HOT METAL ROD. IF EYELETS ARE NOT AVAILABLE

17 WORKING INSIDE OUT. PIN BASE TO TUBE

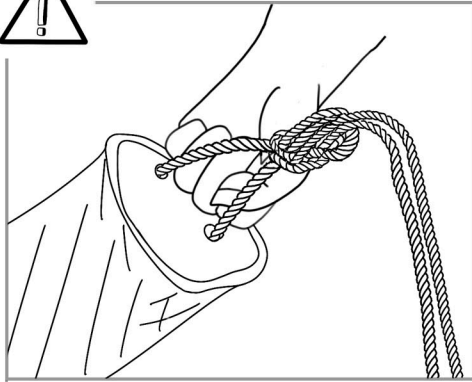

18 SEW TWICE FOR STRENGTH

19 A 56cm B C D FEED 56CM INTO THE BAG AND OUT E F G H TURN THE BAG OUT

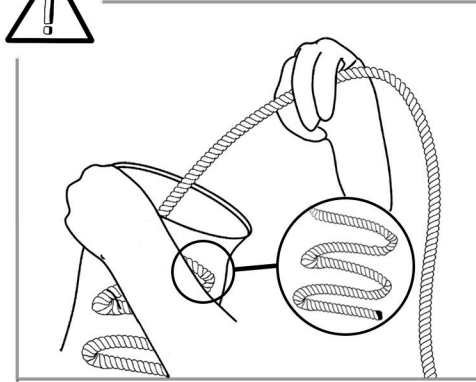

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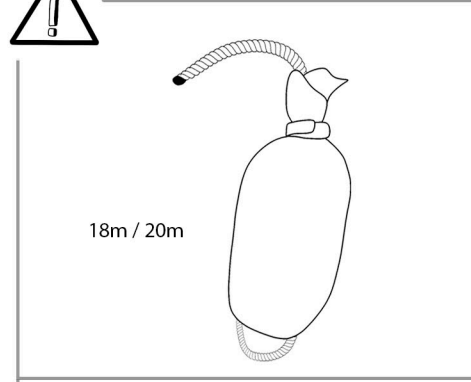

5 Bag Specification



You must have a small loop between the rope and bag so your hand cannot pass through it



Turn the bag out the right way. Hold the bag, feed the rope into the bag 'hand over hand' (do not coil).



18m / 20m

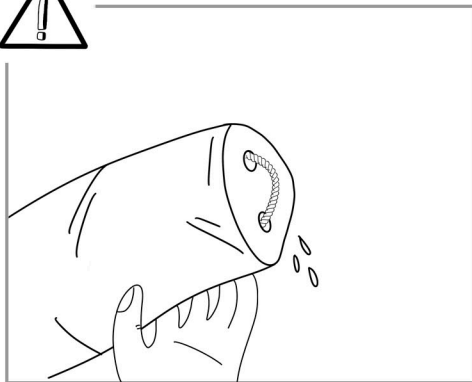

The bag should be clearly marked with the length of the line contained inside

Bag Features

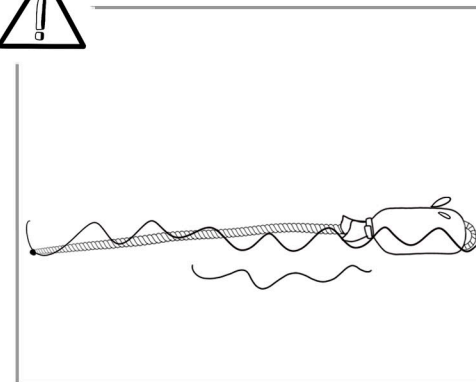

- Be rugged, light weight and compact
- Be easy to repack the line into the bag quickly
- Be resistant to moisture, sunlight and dirt

The bag should have light reflective strips if possible, so it can be seen at night and a small loop for attaching a chemical light (glow stick)

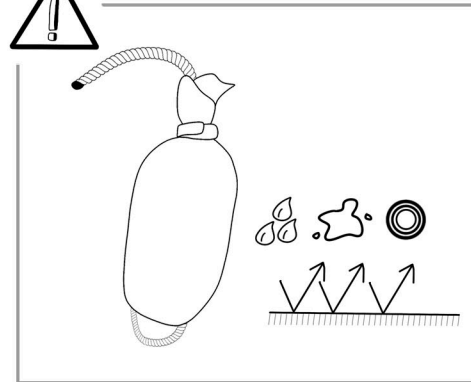

If the bag is used as public rescue equipment (PRE), simple instructions can be printed on the side of the bag.



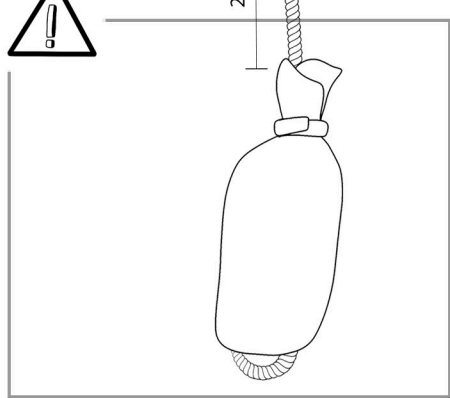

The bag should have holes that allow water to drain from the base of the bag.



The bag and line must float



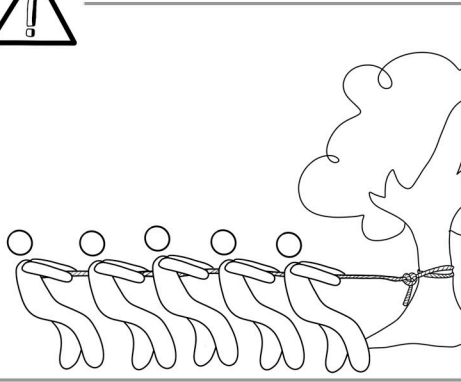
The bag and line must be resistant to moisture, sunlight and dirt.



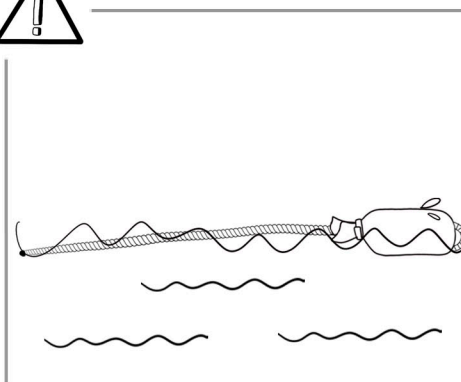
20cm

Leave 20cm of rope coming out of the bag
Wrap the velcro strap around the top of the bag

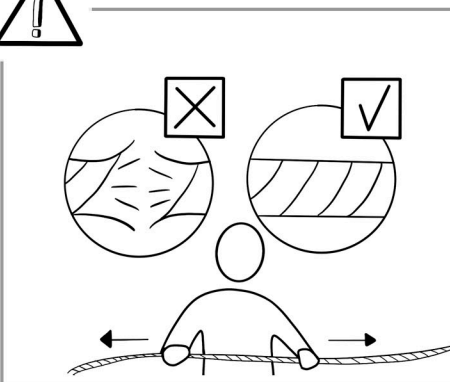
6 Safety Testing



The rescue throwline must be tested by five people pulling on it with its end tied to a tree. It is recommended that the line is tested under load periodically.



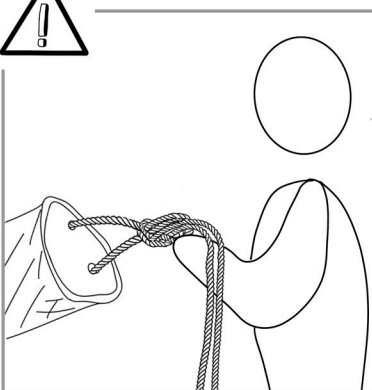
The line must be made from a material that floats on water (polypropylene is often used).



Check the entire length of the line for any damage. If damage, replace the full length.



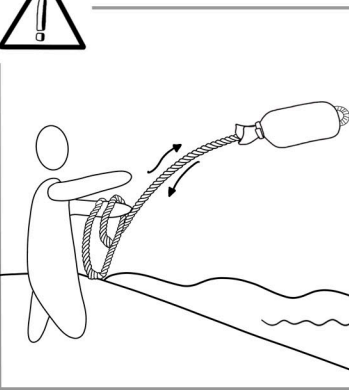
The line and bag should be inspected after every use and minimum of once a month.



Check the line is tied to the bag with the correct knot (double figure-of-eight knot)



Ensure the Velcro strap still secures the bag



Tested by holding on the end of the line and throwing it into some water.

Placement and signage
The rescue throwline can be positioned near to areas of water for members of the community to use, visible and accessible. A sign should be placed near the rescue throwline to show how to use it. A full version can be found at the back of the manual to photocopy and laminate.

Storage
The rescue throwline should be stored in a clean and dry location away from direct sunlight. During use the rescue throwline should be ready for deployment at all times.

Ownership
A member of the community should be given ownership of the rescue throwline. This person should be responsible for making sure that it is ready for use at all times by making a regular check each day.

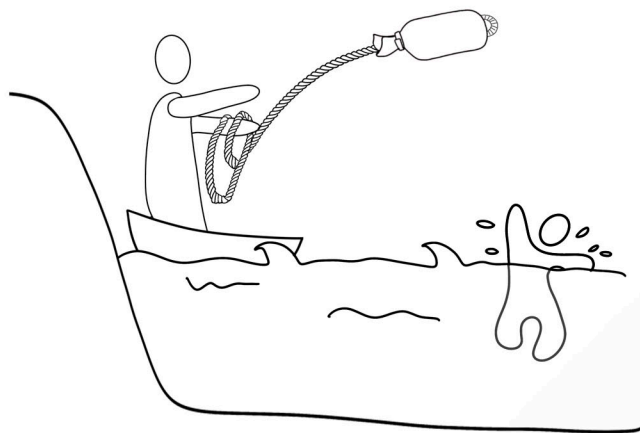
Community Awareness
The whole community should be made aware of the throwline and where it is placed. They should be given a demonstration of how to use the throwline to rescue a casualty. Children should be made aware that the throwline should not be used as a toy. It should only be used for rescue purposes only. A suitable member of the community should be given the responsibility to make sure the throwline is present, in the right location and tested regularly.

Law
You must make sure that you obey any law in your country of the community that may affect the use or construction of the rescue throwline.

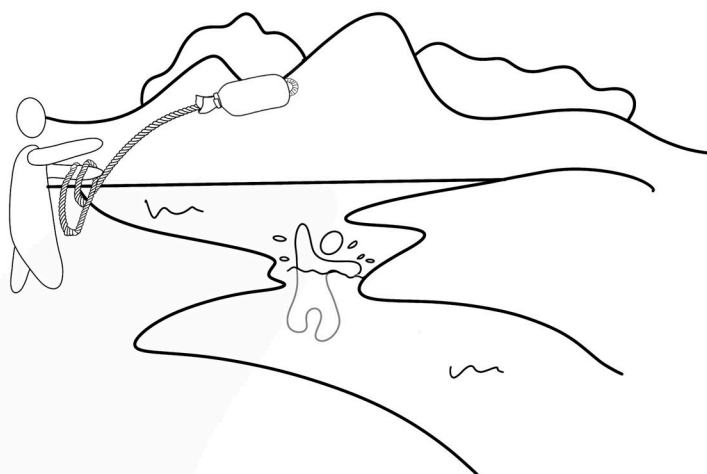
Safety
Lines can be very dangerous in static and moving water. They should never be tied to a rescuer or casualty. When in use they should be able to release in an emergency. It is good practice for flood rescuers to carry a knife to cut a line in case of becoming tangled. Lines should never be wrapped around people's hands.

7 Rescue Throwline Locations

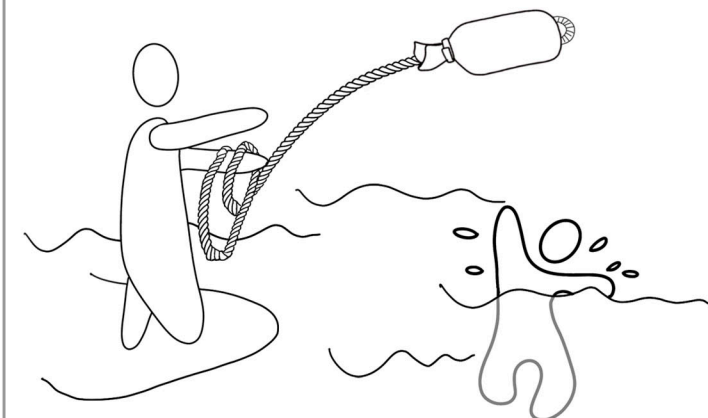
Coastline



River mouths



Swift water/flood rescue

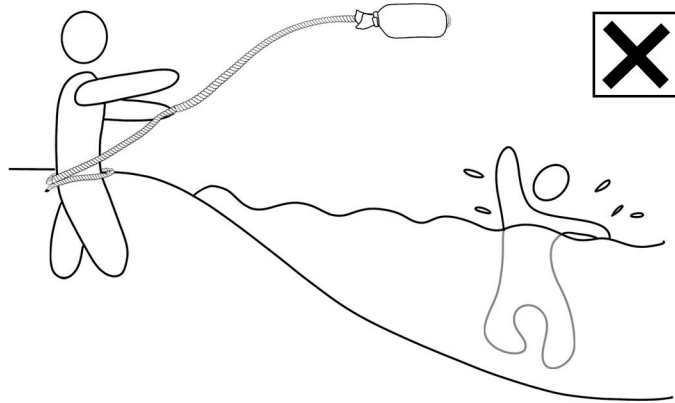


Disclaimer

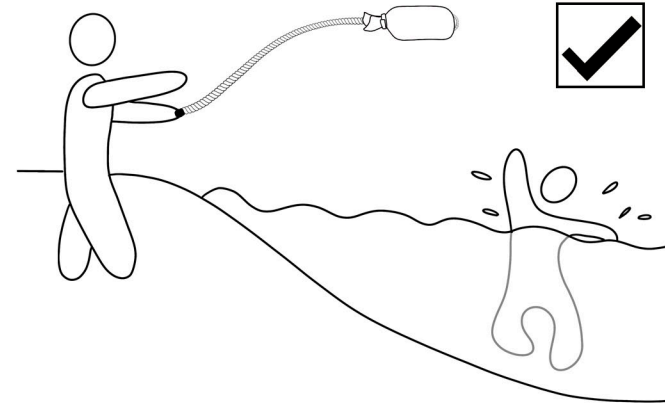
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8 Rescue Throwline Instructions

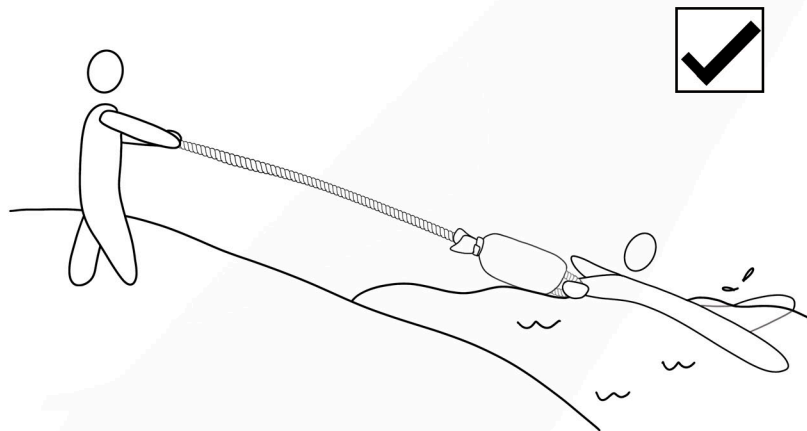
Rescue



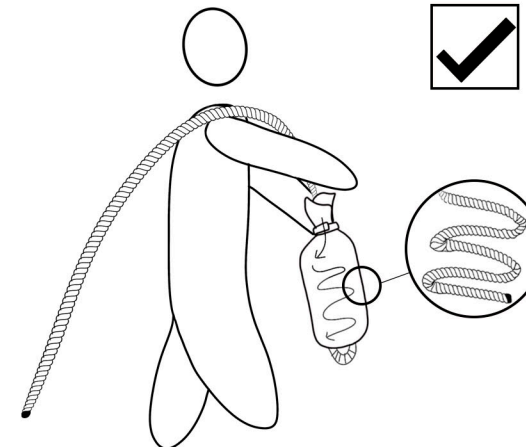
DO NOT tie the line to yourself



Hold on to the end of the line with one hand and throw the bag to the casualty with the other hand



Pull the casualty to safety



Repack the line in bag
(feed line into bag, do not coil the line)

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