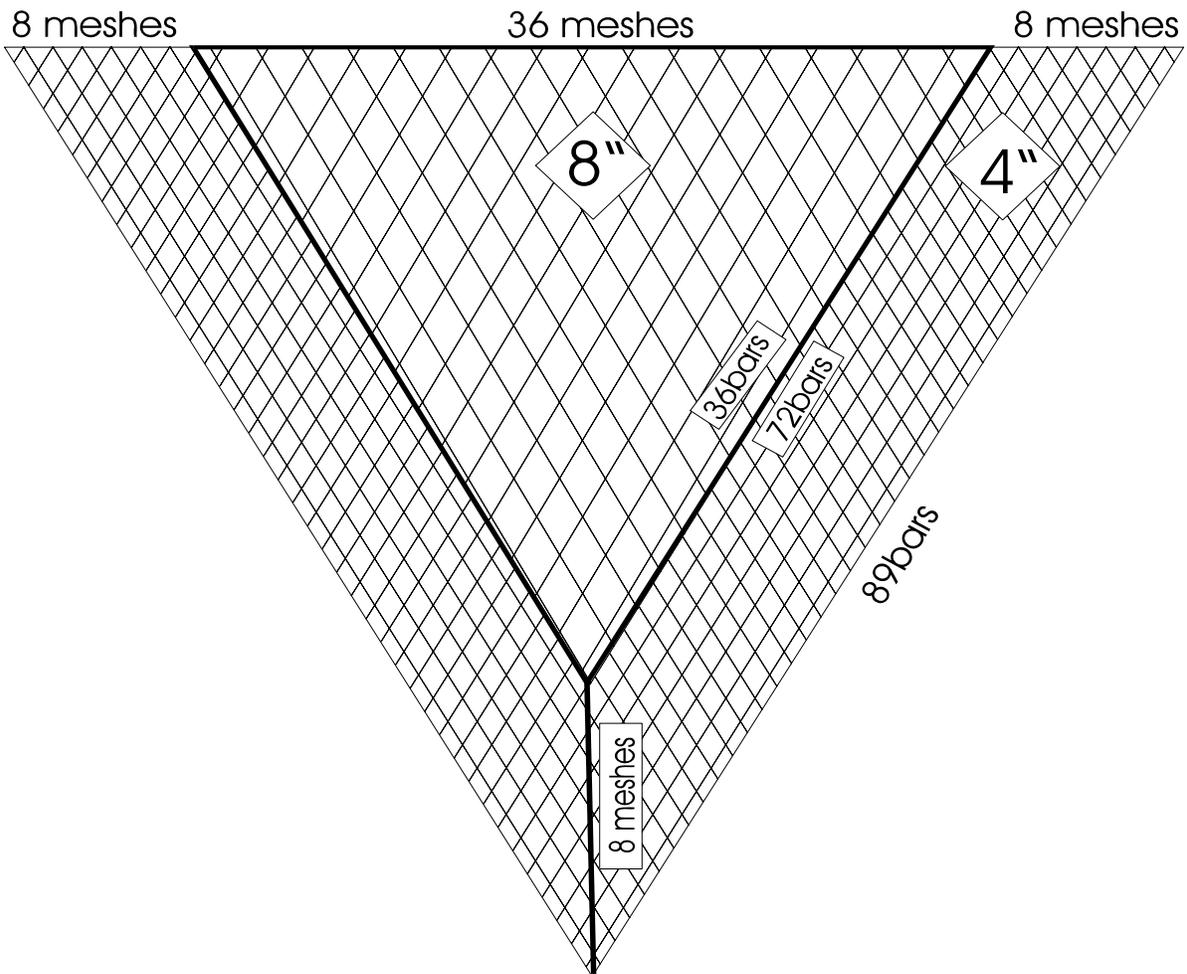




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TED Technology Transfer Program
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**PARKER SOFT TED
INSTALLATION INSTRUCTIONS**

*NOTICE: See page 2 for
trawl restrictions on Parker TED installation*



The side panels are composed of 4-inch stretched mesh polyethylene or polypropylene webbing with No.48 twine size (3mm).

The main panel is composed of 8-inch stretched mesh polyethylene or polypropylene webbing with No.48 twine size (3mm).

Figure 1. Diagram of the Parker soft TED.

Restrictions on which trawls may have a Parker TED installed.

The Parker TED **must not be installed or used in a two-seam trawl with a tongue, nor in a triple-wing trawl** (a trawl with a tongue along the headrope and a second tongue along the footrope). The Parker TED may be installed and used in any other trawl if the taper of the body panels of the trawl **does not** exceed **4 bar & 1 point** and if it can be properly installed in compliance the installation instructions below.

Parker Soft TED Construction

1.) TED Center Panel: 8" webbing

The excluder panel of the Parker TED must be constructed of a single triangular piece of 8- inch stretched mesh webbing and two trapezoidal pieces of 4-inch stretched mesh webbing. The webbing must consist of number 48 (3-mm thick) or larger polypropylene or polyethylene webbing that is heat-set knotted or braided. The leading edge of the 8-inch mesh panel must be 36 meshes wide. The 8-inch mesh panel must be tapered on each side with all-bar cuts to converge on an apex, such that the length of each side is 36 bars.

2.) TED Wing Panels: 4" webbing

The leading edges of the 4 inch mesh panels must be 8 meshes wide. The edges of the 4 inch mesh panels must be cut with all bar cuts running parallel to each other, such that the length of the inner edge is 72 bars and the length of the outer edge is 89 bars and the resulting fore and aft edge is 8 meshes deep. The two 4 inch mesh panels must be sewn to the 8 inch mesh panel to create a single triangular excluder panel. The 72 bar edge of each 4 inch mesh panel must be securely joined with twine to one of the 36 bar edges of the 8 inch mesh panel, tied with knots at each knot of the 4 inch webbing and at least two wraps of twine around each bar of 4 inch mesh and the adjoining bar of the 8 inch mesh. The adjoining fore and aft edges of the two 4 inch mesh panels must be sewn together evenly.

Parker Soft TED Installation

3.) Panel installation: Leading Edge Attachment

The leading edge of the excluder panel must be attached to the inside of the bottom of the trawl across a straight row of meshes. Every mesh of the leading edge of the excluder panel must be evenly sewn to this row of meshes ; meshes may not be laced to the trawl.

Panel installation: Leading Edge Attachment (continued)

a.) Two-seam trawl or a four-seam, tapered-wing trawl

For a two-seam trawl or a four-seam, tapered-wing trawl, the row of meshes for attachment to the trawl must run the entire width of the bottom body panel, from seam to seam.

b.) Four-seam, straight wing trawl

For a four-seam, straight-wing trawl, the row of meshes for attachment to the trawl must run the entire width of the bottom body panel and half the height of each wing panel of the trawl. (A four-seam, straight wing trawl has rectangular shaped wings whose top and bottom edges are parallel over their entire length.)

The row of meshes for the leading edge attachment to the trawl must contain the following number of meshes, depending on the stretched mesh size used in the trawl (Table 1).

Table 1. Number of meshes required by trawl mesh size.

Trawl Mesh Size	Number of trawl meshes in a row required for leading edge attachment of Parker soft TED panel.
2-1/4 inches	152-168 meshes
2-1/8 inches	161-178 meshes
2 inches	171-189 meshes
1-7/8 inches	182-202 meshes
1-3/4 inches	196-216 meshes
1-5/8 inches	211-233 meshes
1-1/2 inches	228-252 meshes
1-3/8 inches	249-275 meshes
1-1/4 inches	274-302 meshes

4.) Apex Attachment

The apex of the triangular excluder panel must be attached to the inside of the top body panel of the trawl at the centerline of the trawl. The distance, measured aft along the centerline of the top body panel from the same row of meshes for attachment of the excluder panel to the bottom body panel of the trawl, to the apex attachment point must contain the following number of meshes, depending on the stretched mesh size used in the trawl. (Figure 2 & Table 2):

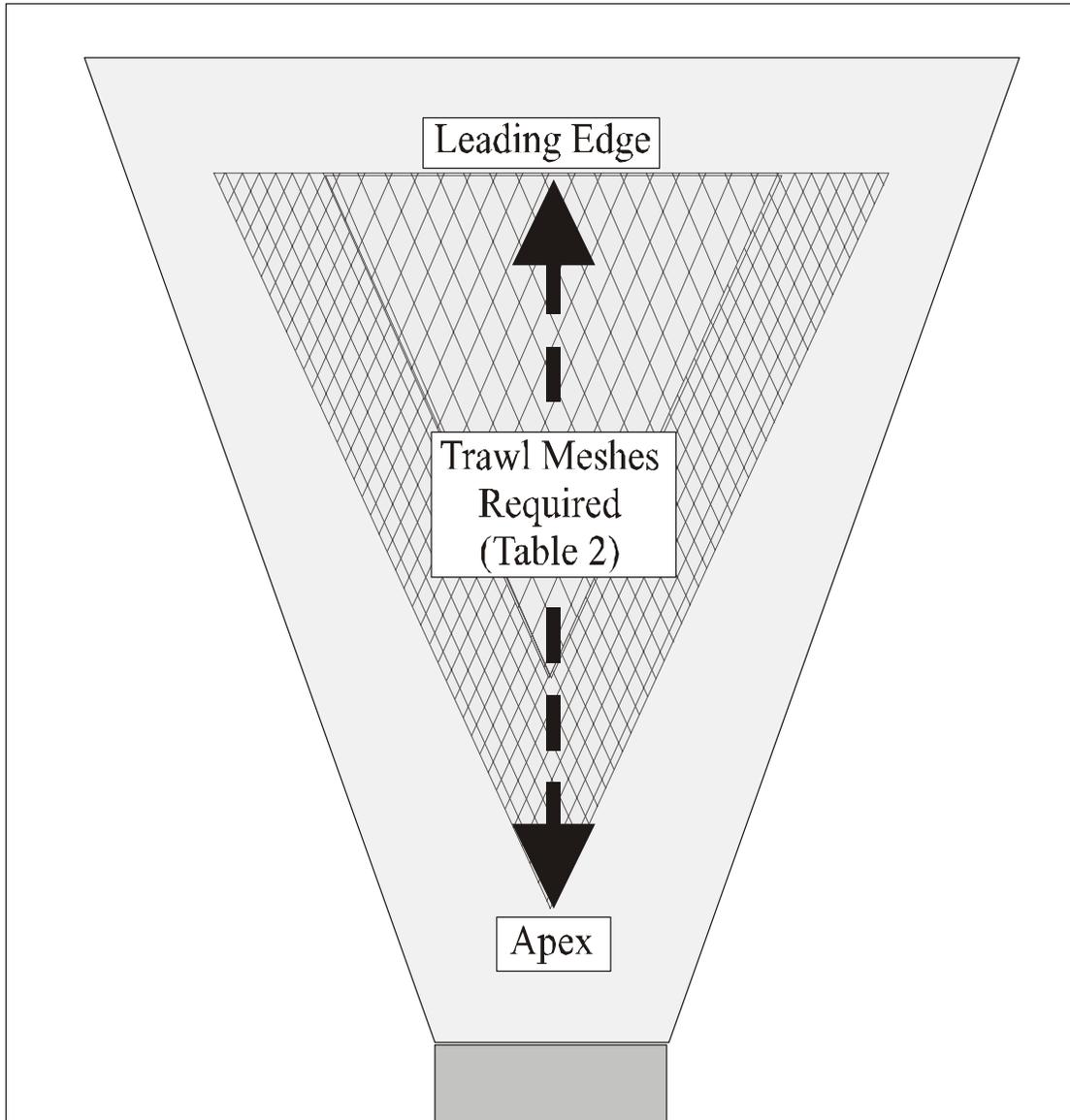


Figure 2. Diagram of Parker soft TED and the location of the forward/aft distance measurement.

Table 2. Number of meshes required by trawl mesh size.

Trawl Mesh Size	Number of trawl meshes required from leading edge to apex of panel.
2-1/4 inches	78 - 83 meshes
2-1/8 inches	83 - 88 meshes
2 inches	87 - 93 meshes
1-7/8 inches	93 - 99 meshes
1-3/4 inches	100 - 106 meshes
1-5/8 inches	107 - 114 meshes
1-1/2 inches	114 - 124 meshes
1-3/8 inches	127 - 135 meshes
1-1/4 inches	137 - 146 meshes

5.) Side Attachment

The sides of the excluder panel must be attached evenly to the inside of the trawl from the outside attachment points of the excluder panel's leading edge to the apex of the excluder panel. **Each side must be sewn with the same sewing sequence,** and, if the sides of the excluder panel cross rows of bars in the trawl, then the crossings must be distributed evenly over the length of the side attachment. **That is, the sides must be stepped-up, or stepped-back, evenly.**

6.) Offshore and Inshore Escape Opening Requirements

Offshore opening requirement:

The Parker soft TED opening must have a minimum 96-inch (244-cm) opening in offshore waters (from the COLREGS demarcation line seaward) and in all inshore waters off of Georgia and South Carolina.

Inshore opening requirement:

The Parker soft TED opening must have a minimum 56-inch (142-cm) opening in all inshore waters (from the COLREGS demarcation line landward) except for the inshore waters of Georgia and South Carolina.

6a. Installation of the Offshore Opening

6a.1) Cutting the escape opening

A horizontal cut extending from the attachment of one side of the deflector panel to the trawl to the other side of the deflector panel to the trawl must be made in a single row of meshes across the top of the trawl and measure at least 96 inches in taut width (Figure 3). All trawl webbing above the deflector panel between the 96-inch cut and the edges of the deflector panel must be removed.

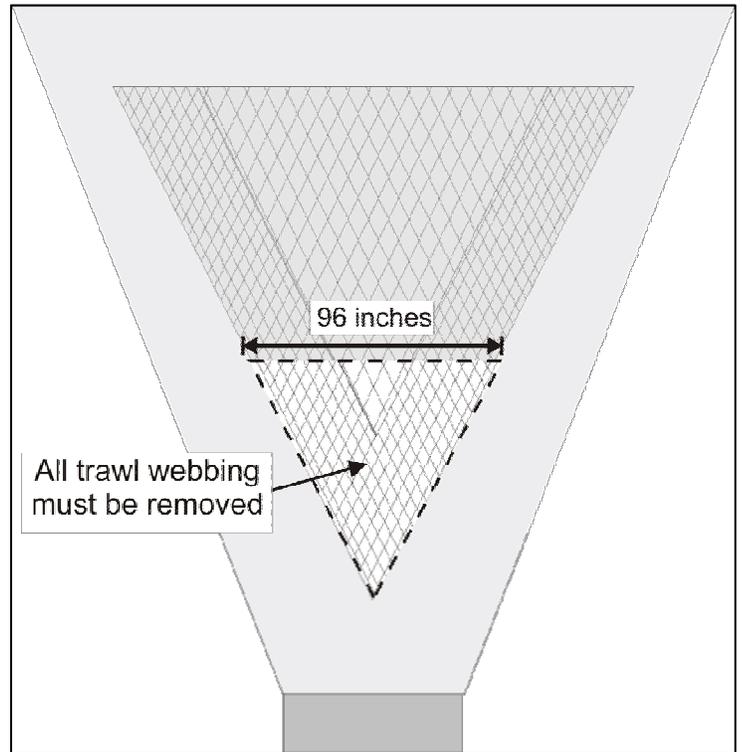


Figure 3. Offshore escape opening cut for Parker soft TED.

6a.2) Installing the escape opening cover (flap).

A rectangular flap of nylon webbing not larger than 2-inch stretched mesh may be sewn to the forward edge of the escape opening (Figure 4). The width of the flap may not be larger than the width of the forward edge of the escape opening (96 inches minimum). The flap must not extend more than 12 inches beyond the rear point of the escape opening.

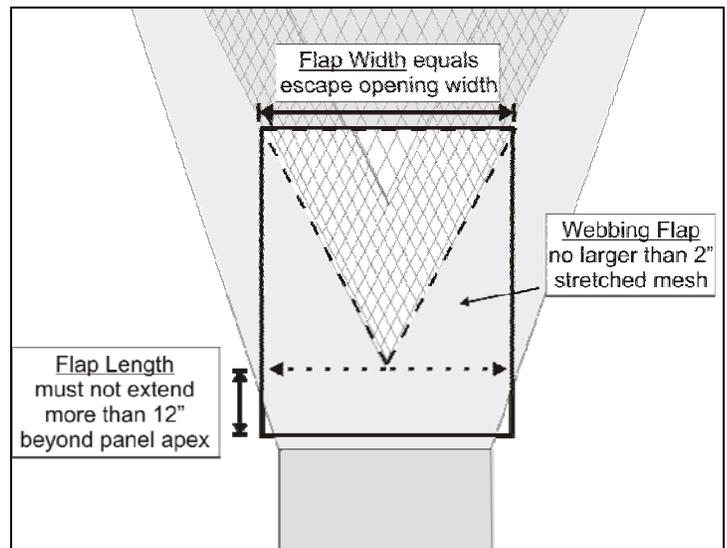


Figure 4. Cover (flap) dimensions for offshore escape opening cut for Parker soft TED.

The sides of the flap may be attached to the top of the trawl but must not be attached farther aft than the row of meshes even with the apex of the escape opening (Figure 5).

One row of steel chain not larger than 3/16 inch may be sewn to the back edge of the flap. The stretched length of the chain must not exceed 96 inches.

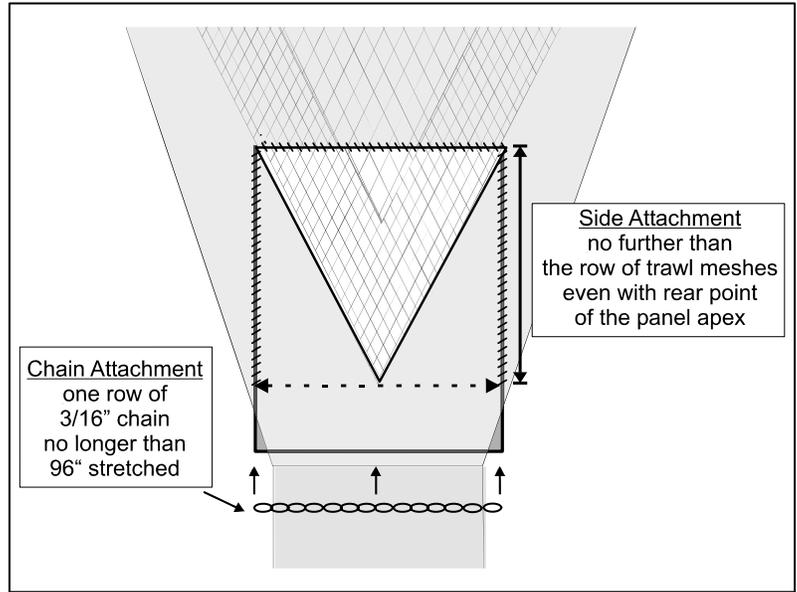


Figure 5. Attachment of offshore escape opening cover (flap) and chain for Parker soft TED.

6b. Installation of the Inshore Opening

A slit at least 56 inches in taut length must be cut along the centerline of the top body panel of the trawl net immediately forward of the apex of the panel webbing (Figure 6).

The slit must not be covered or closed in any manner. The edges and end points of the slit must not be reinforced in any way; for example, by attaching additional rope or webbing or by changing the orientation of the webbing.

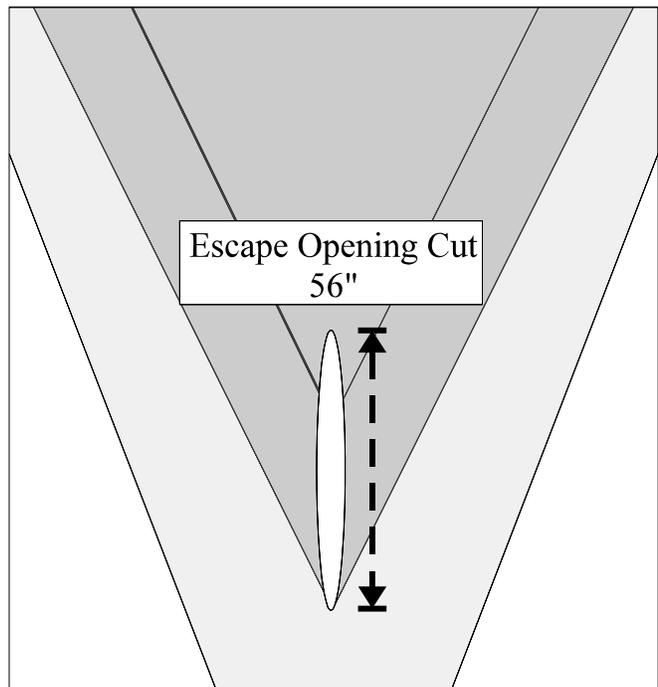


Figure 6. Inshore escape opening cut for Parker soft TED.