

REGULATIONS AMENDING THE REGULATIONS RELATING TO THE USE OF SORTING GRID SYSTEMS IN COD TRAWLS (MESH SIZE 100 MM AND 135 MM)

On 17 January 2002, pursuant to section 10a of the Regulations of 10 October 1989 No. 1095 relating to mesh sizes, bycatches, close seasons and minimum sizes, etc. during fishing operations for herring and other fish, laid down pursuant to section 4 of the Act of 3 June 1983 No. 40 relating to Sea-water Fisheries, section 4 of the Act of 17 December 1976 No. 91 relating to the Economic Zone of Norway, and section 13 of the Regulations of 13 May 1977 relating to fishing and hunting operations by foreign nationals in the Economic Zone of Norway; pursuant to section 6a of the Regulations of 21 September 1994 relating to mesh sizes, bycatches and minimum sizes, etc for fishing in the fishery protection zone around Svalbard, laid down pursuant to section 3 of the Royal Decree of 3 June 1977, laid down pursuant to the Act of 17 December 1976 relating to the Economic Zone of Norway; and pursuant to section 6a of the Regulations of 21 September 1994 relating to mesh sizes, bycatches and minimum sizes, etc for fishing in the territorial waters and internal waters of Svalbard, laid down pursuant to section 1 of the Royal Decree of 28 April 1978 relating to regulatory measures for fishing in the territorial and internal waters of Svalbard, laid down pursuant to section 4 of the Act of 17 July 1925 relating to Spitzbergen, the Director General of Fisheries prescribed as follows:

I

The Regulations of 10 March 2000 relating to the use of sorting grid systems in cod trawls (mesh size 100 mm and 135 mm) shall be amended as follows:

The title (amended) shall read as follows:

REGULATIONS RELATING TO THE USE OF SORTING GRID SYSTEMS IN COD TRAWLS (MESH SIZE 120 MM AND 135 MM)

§ 2 (amended) shall read as follows:

§ 2 Requirement to use a sorting grid

During fishing operations using cod trawls (mesh size 120 mm or 135 mm) in the area and by the vessels specified in section 1, a sorting grid system shall be mounted in the trawl.

Chapter 2.3 (new) shall read as follows:

Chapter 2.3 Requirements for a flexible sorting grid system (Flexigrid)**§ 14 Materials**

The Flexigrid shall be made of black glassfibre-reinforced polyamide (nylon) and rubber.

§ 15 Mounting

The sorting grid system, which consists of a netting section with two grids and two guiding panels, shall be mounted between the belly of the trawl and its extension piece or codend, as shown in figure 3, enclosure 7.

The guiding panels shall be mounted in the netting section as shown in figure 5, enclosure 7. The front edge of the guiding panels shall be attached to the shackles of the grids. The rear edge of the guiding panels shall be attached to the rear edge of the fish outlet, cf. figure 2, enclosure 7. The sides of the guiding panels shall be attached to the sides of the netting section as shown in figure 5, enclosure 7.

The grids shall be mounted in the netting section as shown in figure 5, enclosure 7. The grids shall be attached to the netting section at the front edge and to the guiding panel at the rear edge. The middle of the grid measured lengthwise shall be the point of attachment to the selvedge. The sides of the grid shall be attached to the netting section by strips, rope, twine or the like.

Up to three floats, each measuring 8" (200 mm) in diameter, may be mounted along the selvedge line on either side of the netting section in order to neutralize the weight of the grids.

An outlet for stones, sponges, etc. may be made in the lower panel of the netting section. The outlet shall be situated at least 10 meshes in front of the front attachment point of the grid mounted in the lower panel and shall have a maximum width equal to the breadth of the grid.

No bottom side chafer of any kind may be attached to the lower panel of the netting section where the sorting grids are mounted.

A net or bottom side chafer attached to the underside of the outlet for stones, sponges, etc. may be used to close the outlet.

§ 16 Design of the Flexigrid

a) The grids

The grids shall be designed as shown in figure 4, enclosure 7.

The minimum length and breadth of the grids used shall be as follows:

Length: 1500 mm (measured along the bars)
Breadth: 955 mm (measured along the transverse bars)
Thickness of the bars: maximum 20.5 mm.

b) The netting section

The netting section shall be designed as shown in figure 1, enclosure 7.

The netting section where the grids and guiding panel are mounted shall have a mesh size of 135 mm. The netting section shall consist of a tube-shaped cylindrical part and a tapering cone-shaped part.

The cone-shaped, tapering part shall have a circumference totalling 160 meshes (2x80 meshes) at the front end, tapering to a total of 100 meshes (2x50 meshes) at the rear end. This means that the tapering part will be 45 meshes long.

The cylindrical, tube-shaped part of the netting section shall have a circumference totalling 100 meshes (2x50 meshes) and a minimum length of 70 meshes.

c) The guiding panel

The guiding panel shall be designed as shown in figure 5, enclosure 7.

The guiding panel shall have a maximum mesh size of 60 mm. The width shall be 60 meshes with a mesh size of 60 mm, or correspond to a width of 60 meshes with a mesh size of 60 mm measured with the meshes stretched diagonally. Netting may be inserted at the front and rear ends of the guiding panel to join this to the grids/netting section. The inserted netting may be up to two meshes in length (in the N direction*) with a mesh size and number that is suitable for attachment to the netting section (the mesh size here shall not exceed 140 mm). The length of the guiding panel, including the inserted netting, shall correspond to the length of the diagonal stretch mesh measurement in the netting section along which it is mounted, plus 10 per cent.

d) Fish outlet

There shall be fish outlets in the upper and lower panels of the tube-shaped part of the netting section. The fish outlets shall be designed as shown in figure 2, enclosure 7. All net in the area indicated shall be removed. A selvedge of two meshes shall be made along the longitudinal (N direction) edges of the fish outlet.

§§ 14-21 become §§ 17-24.

II

These regulations enter into force immediately.

Enclosure 7 (new) is included with the regulations.

The amended regulations read as follows:

* N, B and T are international standards used by the fishing gear industry that show the direction in which the meshes should be cut, cf. enclosure 7.

REGULATIONS RELATING TO THE USE OF SORTING GRID SYSTEMS IN COD TRAWLS (MESH SIZE 120 MM AND 135 MM)

On 10 March 2000, pursuant to section 10a of the Regulations of 10 October 1989 No. 1095 relating to mesh sizes, bycatches, close seasons and minimum sizes, etc. during fishing operations for herring and other fish, laid down pursuant to section 4 of the Act of 3 June 1983 No. 40 relating to Sea-water Fisheries, section 4 of the Act of 17 December 1976 No. 91 relating to the Economic Zone of Norway, and section 13 of the Regulations of 13 May 1977 relating to fishing and hunting operations by foreign nationals in the Economic Zone of Norway; pursuant to section 6a of the Regulations of 21 September 1994 relating to mesh sizes, bycatches and minimum sizes, etc for fishing in the fishery protection zone around Svalbard, laid down pursuant to section 3 of the Royal Decree of 3 June 1977, laid down pursuant to the Act of 17 December 1976 relating to the Economic Zone of Norway; and pursuant to section 6a of the Regulations of 21 September 1994 relating to mesh sizes, bycatches and minimum sizes, etc for fishing in the territorial waters and internal waters of Svalbard, laid down pursuant to section 1 of the Royal Decree of 28 April 1978 relating to regulatory measures for fishing in the territorial and internal waters of Svalbard, laid down pursuant to section 4 of the Act of 17 July 1925 relating to Spitzbergen, the Director General of Fisheries prescribed as follows:

CHAPTER 1. GENERAL PROVISIONS

§ 1 Scope

These regulations apply to Norwegian and foreign vessels fishing with cod trawls (mesh size 100 mm or 135 mm) in the Economic Zone of Norway north of 62 °N, in the fisheries protection zone around Svalbard and in the territorial waters and internal waters of Svalbard.

§ 2 Requirement to use a sorting grid

During fishing operations using cod trawls (mesh size 120 mm or 135 mm) in the area and by the vessels specified in section 1, a sorting grid system shall be mounted in the trawl.

§ 3 Distance between the bars

The minimum permitted distances between the bars of the sorting grids are as follows:

a) In an area in the Economic Zone of Norway delimited in the south by 62 °N and in the north by straight lines drawn through the following positions:

1.	70° 58.50' N	-	23° 00.00' E	(at the 4 n. mile fishery limit)
2.	71° 30.00' N	-	23° 00.00' E	
3.	71° 30.00' N	-	20° 00.00' E	
4.	72° 00.00' N	-	17° 00.00' E	
5.	73° 40.50' N	-	17° 00.00' E	(at the outer limit of the NEZ)
continuing along the outer limit of the NEZ to				
6.	72° 10.78' N	-	10° 18.70' E	(the point of intersection)

between the outer limit of the NEZ and the outer limit of the fisheries protection zone around Svalbard)

the minimum distance between the bars of the sorting grids shall be 50 mm.

b) In the territorial waters and internal waters of Svalbard, in the fisheries protection zone around Svalbard and in the part of the Economic Zone of Norway north and east of straight lines drawn between the positions specified in items 1-5 in litra a) above, the minimum distance between the bars of the sorting grids shall be 55 mm.

In areas that are temporarily closed for fishing operations because the intermixture of undersized fish is too great, the Director General of Fisheries may by regulations permit fishing operations by vessels employing cod trawls in which sorting grids with a minimum distance between bars of more than 50 mm or 55 mm are mounted.

§ 4 Types of sorting grids

Sorting grids such as are described in Chapter 2 may be used in all types of trawls.

If grids such as are described in Chapter 2.1 are used in Russian four-panel trawls, the extension piece may be omitted.

Grids such as are described in Chapter 3 may be used in Russian four-panel trawls only.

The Director General of Fisheries may grant permission for the use of other types of sorting grids than those described in these regulations. Permission to use other types of grids may only be granted on application to the Directorate of Fisheries and is subject to the terms laid down in the permit.

CHAPTER 2. REQUIREMENTS FOR SORTING GRID SYSTEMS FOR USE IN ALL TYPES OF TRAWLS

Chapter 2.1. Requirements for the Sort-X sorting grid system

§ 5 Materials

Acid-proof steel (18.12, A4) shall be used in the sorting grids, and the guiding frame shall be made of acid-proof steel (18.12, A4) covered with PVC canvas.

§ 6 Mounting

The sorting grid system, which consists of a netting section in which the grids are mounted, together with an extension piece, shall be mounted between the belly of the trawl and its extension piece.

The grids are mounted in the netting section such that the first sorting grid and the guiding frame are mounted bar-cut (AB direction) and the second sorting grid is mounted along the selvage line.

The grids/frames are connected together using GM links.

Floats shall be mounted in the netting section containing the grids in order to neutralize the weight of the grids, as specified in sections 7 and 8. The diameter of the floats shall be 8" (200 mm).

To keep the sorting grid system in the correct position, two 7 mm steel chains shall be mounted on each side, attached with GM connecting links.

§ 7 Design of the sorting grid system for vessels of a total length of 30 m or more

The provisions of this section apply to vessels of a total length of 30 m or more and to Russian trawlers of main engine power 1000 kWh or more which employ Russian four-panel trawls.

a) The grids

The minimum length and breadth of the grids used shall be as follows:

First sorting grid: 1500 x 1167 mm, rounded (R_{200}) in the aft part.

Second sorting grid: 1200 x 1167 mm, rounded (R_{200}) in the aft part.

Guiding frame: 1800 x 1167 mm.

b) The netting section:

The netting section in which the sorting grid system is mounted shall have a front and rear circumference of 112 meshes (2 x 56#) and a length of 39.5 meshes, and a mesh size of 135 mm.

A bottom side chafer (canvas or netting) up to 2 m in length may be attached to the underside of the netting section provided that it is only attached at the front and along the sides. The bottom side chafer shall be attached in such a way that the front edge is parallel to the front edge of the second sorting grid in the T direction.

c) The extension piece:

An extension piece with a minimum length of 9.0 m shall be mounted in front of the netting section carrying the sorting grid system. The front part of the extension piece should preferably be of the same material and mesh size as the belly of the trawl. The circumference of the extension piece shall be 162 meshes (2 x 81#) at the front end, tapering to the same circumference as that of the cylindrical part of the extension piece. The minimum mesh size shall be 135 mm. The cylindrical part of the extension piece shall be a tube with a circumference of 112 meshes (2 x 56#) and a minimum length of 19.5 meshes. The mesh size in this part of the extension piece shall be the same as in the netting section.

d) Attachment of chains in a system using a cassette in the first sorting grid

When attaching chains in a system using a cassette in the first sorting grid, 20 floats shall be used on the first sorting grid, 10 on the second sorting grid and 10 on the guiding frame. The upper frame length shall be 436 cm.

e) Attachment of chains in a system without a cassette

When attaching chains in a system without a cassette, 15 floats shall be used on the first sorting grid, 10 on the second sorting grid and 10 on the guiding frame. The upper frame length shall be 424 cm.

f) Attachment of chains in a system using cassettes in the first and second sorting grids

When attaching chains in a system using cassettes in the first and second sorting grids, 20 floats shall be used on the first sorting grid, 14 on the second sorting grid and 10 on the guiding frame. The upper frame length shall be 446 cm.

g) Attachment of chains in a system using a cassette in the first sorting grid and bars along the second sorting grid

When attaching chains in a system using a cassette in the first sorting grid and bars along the second sorting grid, 20 floats shall be used on the first sorting grid, 12/14 on the second sorting grid and 10 on the guiding frame. The upper frame length shall be 436 cm.

h) Measurement of the upper frame length

To measure the upper frame length, the sorting grid system shall be stretched out using sufficient pressure to open it to its normal position during a haul. When the sorting grid system is stretched out, equal pressure shall be exerted on each of the four upper corners of the sorting grid system.

The upper frame length is measured from the inside of the upper edge of the frame of the first sorting grid to the inside of the upper edge of the frame of the guiding frame. The distance shall be measured from the midpoint of both frames.

i) Exemptions

In special cases, the Director General of Fisheries may grant permission for the use of the type of sorting grid system specified in section 8 for vessels of a total length of 30 m or more.

§ 8 Design of the sorting grid system for vessels of a total length of less than 30 m

The provisions of this section apply to vessels of a total length of less than 30 m and to Russian trawlers of main engine power less than 1000 kWh which employ Russian four-panel trawls.

a) The grids

The minimum length and breadth of the grids used shall be as follows:

First sorting grid: 1000 x 1167 mm, rounded (R_{200}) in the aft part.
Second sorting grid: 750 x 1167 mm, rounded (R_{200}) in the aft part.
Guiding frame: 1000 x 1167 mm.

b) The netting section:

The netting section in which the sorting grid system is mounted shall have a front and rear circumference of 112 meshes (2 x 56#) and a length of 26 meshes, and a mesh size of 135 mm.

A bottom side chafer (canvas or netting) up to 2 m in length may be attached to the underside of the netting section provided that it is only attached at the front and along the sides. The front of the bottom side chafer in such a way that the front edge is parallel to the front edge of the second sorting grid in the T direction.

c) The extension piece:

An extension piece with a minimum length of 7.5 m shall be mounted in front of the netting section. The front part of the extension piece should preferably be of the same material and mesh size as the belly of the trawl. The aft part (minimum length 19.5 meshes) shall preferably be made of the same material as the netting section. The circumference of the netting cylinder shall be 140 meshes (2 x 70#) at the front end, tapering to the same circumference as that of the netting section. The minimum mesh size shall be 135 mm.

d) Attachment of chains in a system using a cassette in the first sorting grid.

When attaching chains in a system using a cassette in the first sorting grid, 15 floats shall be used on the first sorting grid, 6 on the second sorting grid and 6 on the guiding frame. The upper frame length shall be 270 cm.

e) Attachment of chains in a system without a cassette

When attaching chains in a system without a cassette, 10 floats shall be used on the first sorting grid, 6 on the second sorting grid and 6 on the guiding frame. The upper frame length shall be 260 cm.

f) Attachment of chains in a system using cassettes in the first and second sorting grids

When attaching chains to a trawl with a first and a second cassette, 15 floats shall be used on the first sorting grid, 8 on the second sorting grid and 6 on the guiding frame. The upper frame length shall be 282 cm.

g) Attachment of chains in a system using a cassette in the first sorting grid and bars along the second sorting grid

When attaching chains in a system using a cassette in the first sorting grid and bars along the second sorting grid, 15 floats shall be used on the first sorting grid, 8 on the second sorting grid and 6 on the guiding frame. The upper frame length shall be 270 cm.

h) Measurement of the upper frame length

To measure the upper frame length, the sorting grid system shall be stretched out using sufficient pressure to open it to its normal position during a haul. When the sorting grid system is stretched out, equal pressure shall be exerted on each of the four upper corners of the sorting grid system.

The upper frame length is measured from the inside of the upper edge of the frame of the first sorting grid to the inside of the upper edge of the frame of the guiding frame. The distance shall be measured from the midpoint of both frames.

§ 9 Fish outlet

There shall be a fish outlet in the upper panel of the trawl to direct fish that have been separated from the catch away from the trawl.

The fish outlet is made by removing all the netting from the upper panel where the grids are mounted.

Chapter 2.2 Requirements for a sorting grid system with a single grid (modified Sort-V)

§ 10 Material

Acid-proof steel (18.12, A4) shall be used in the sorting grid.

§ 11 Mounting

The sorting grid system, which consists of a netting section in which the grid, lifting panel and guiding panel are mounted, together with an extension piece, shall be mounted between the belly of the trawl and its extension piece or codend.

The grid, lifting panel and guiding panel are mounted in the netting section as shown in figures 1 and 2 in enclosure 3. The front 130 cm of the sorting grid is mounted along a maximum of 112 cm of the netting section measured with the meshes stretched diagonally lengthwise from points A1 and A2 (figure 6, enclosure 3) where the sorting grid is attached to the selvedge line, to the point on the selvedge line corresponding, in the T direction, to the mesh at the attachment point of the forward corner of the grid.

Floats shall be mounted in the netting section containing the grid in order to neutralize the weight of the grid, as specified in section 12. The diameter of the floats shall be 8" (200 mm).

To keep the sorting grid system in the correct position, one 7 mm steel chain shall be mounted on each side, attached with GM connecting links to the upper front corners of the sorting grid and to the selvedge line (which joins the upper and lower panels of the trawl) behind the sorting grid, as shown in figures 1, 2 and 9 in enclosure 3.

§ 12 Design of the sorting grid system

a) The grid

The minimum length and breadth of the grid used shall be as follows:

Length: 1750 mm

Breadth: 1234 mm.

b) The netting section

The netting section in which the sorting grid, lifting panel, guiding panel and steel chains are mounted shall be cylindrical, with a circumference at the front and rear ends of 104 meshes (2 x 52#) and a length of 60 meshes with a minimum mesh size of 135 mm.

A bottom side chafer (canvas or netting) up to 2 m in length may be attached to the underside of the netting section provided that it is only attached at the front and along the sides. The front edge of the bottom side chafer shall be attached one metre in front of the rear edge of the sorting grid.

c) The lifting panel

The lifting panel shall be mounted in the lower panel and bar-cut up towards the selvedge line. It shall then be mounted along the selvedge line along six meshes and then bar-cut down towards the bottom of the lower panel. There shall be four meshes between the rearmost point of the lifting panel along the selvedge line and the front corner of the sorting grid. The maximum mesh size of the lifting panel shall be 60 mm, and the minimum and maximum breadth of the lifting panel shall be 45 meshes (at the front and rear) and 115 meshes (in the middle) respectively. Five floats shall be mounted under the front part of the lifting panel. The lifting panel shall be made of P.E. (coulene).

d) The guiding panel

The breadth of the guiding panel shall be 60 meshes and its length shall correspond to the length of the bars in the netting section along which it is mounted plus 10 per cent. The maximum mesh size in the guiding panel shall be 60 mm, and it shall be made of P.E. (coulene).

e) Floats

To neutralize the weight of the grid, 17 floats shall be used. Seven of these are mounted along the front edge of the grid. Five are mounted on each side of the grid along the mesh seam from the front corners of the grid and back towards the end of the guiding panel. The floats shall be mounted close together and shall be attached just above the sides of the sorting grid.

f) Chains

A chain shall be mounted on each side of the sorting grid. The chains shall be attached to the upper corners of the sorting grid and back to the selvedge line (which joins the upper and lower panels of the trawl). The chains shall be attached to the selvedge 0 – 35 cm in front of

the rear end of the netting section. The length of the chains shall be 112 cm plus the distance from the point where the grid is attached to the selvedge to the point where the chain is attached to it. To provide a firm attachment point for the chain to the selvedge line, it may be seized to a 20 – 25 cm long chain from the rear end of the netting section and forwards. The length of the chain is measured from the inside of the end of the GM connecting link on the sorting grid to the inside of the end of the GM connecting link attached to the selvedge line.

g) The extension piece

An netting section (extension piece) with a minimum length of 8 m shall be mounted in front of the netting section carrying the grid, lifting panel, guiding panel and steel chains. The circumference of the extension piece shall be 160 meshes (2 x 80#) at the front end, tapering to 100 meshes (2 x 50#). This part of the extension piece should preferably be of the same material and mesh size as the belly of the trawl, but with double twine. The rear part of the extension piece shall be a tube with a circumference of 104 meshes (2 x 52#) and a minimum length of 22.5 meshes. The rear part of the extension piece may be made of P.E. (courlene) or P.A. (nylon).

§ 13 Fish outlet

There shall be a fish outlet in the upper panel of the trawl to direct fish that have been separated from the catch away from the trawl.

The fish outlet is made by removing all the net between the mesh seams from the front corners of the sorting grid and back to the rear corners of the guiding panel.

Chapter 2.3 Requirements for a flexible sorting grid system (Flexigrid)

§ 14 Materials

The Flexigrid shall be made of black glassfibre-reinforced polyamide (nylon) and rubber.

§ 15 Mounting

The sorting grid system, which consists of a netting section with two grids and two guiding panels, shall be mounted between the belly of the trawl and its extension piece or codend, as shown in figure 3, enclosure 7.

The guiding panels shall be mounted in the netting section as shown in figure 5, enclosure 7. The front edge of the guiding panels shall be attached to the shackles of the grids. The rear edge of the guiding panels shall be attached to the rear edge of the fish outlet, cf. figure 2, enclosure 7. The sides of the guiding panels shall be attached to the sides of the netting section as shown in figure 5, enclosure 7.

The grids shall be mounted in the netting section as shown in figure 5, enclosure 7. The grids shall be attached to the netting section at the front edge and to the guiding panel at the rear edge. The middle of the grid measured lengthwise shall be the point of attachment to the selvedge. The sides of the grid shall be attached to the netting section by strips, rope, twine or the like.

Up to three floats, each measuring 8" (200 mm) in diameter, may be mounted along the selvage line on either side of the netting section in order to neutralize the weight of the grids.

An outlet for stones, sponges, etc. may be made in the lower panel of the netting section. The outlet shall be situated at least 10 meshes in front of the front attachment point of the grid mounted in the lower panel and shall have a maximum width equal to the breadth of the grid.

No bottom side chafer of any kind may be attached to the lower panel of the netting section where the sorting grids are mounted.

A net or bottom side chafer attached to the underside of the outlet for stones, sponges, etc. may be used to close the outlet.

§ 16 Design of the Flexigrid

a) The grids

The grids shall be designed as shown in figure 4, enclosure 7.

The minimum length and breadth of the grids used shall be as follows:

Length: 1500 mm (measured along the bars)
Breadth: 955 mm (measured along the transverse bars)
Thickness of the bars: maximum 20.5 mm.

b) The netting section

The netting section shall be designed as shown in figure 1, enclosure 7.

The netting section where the grids and guiding panel are mounted shall have a mesh size of 135 mm. The netting section shall consist of a tube-shaped cylindrical part and a tapering cone-shaped part.

The cone-shaped, tapering part shall have a circumference totalling 160 meshes (2x80 meshes) at the front end, tapering to a total of 100 meshes (2x50 meshes) at the rear end. This means that the tapering part will be 45 meshes long.

The cylindrical, tube-shaped part of the netting section shall have a circumference totalling 100 meshes (2x50 meshes) and a minimum length of 70 meshes.

c) The guiding panel

The guiding panel shall be designed as shown in figure 5, enclosure 7.

The guiding panel shall have a maximum mesh size of 60 mm. The width shall be 60 meshes with a mesh size of 60 mm, or correspond to a width of 60 meshes with a mesh size of 60 mm measured with the meshes stretched diagonally. Netting may be inserted at the front and rear ends of the guiding panel to join this to the grids/netting section. The inserted netting may be

up to two meshes in length (in the N direction*) with a mesh size and number that is suitable for attachment to the netting section (the mesh size here shall not exceed 140 mm). The length of the guiding panel, including the inserted netting, shall correspond to the length of the diagonal stretch mesh measurement in the netting section along which it is mounted, plus 10 per cent.

d) Fish outlet

There shall be fish outlets in the upper and lower panels of the tube-shaped part of the netting section. The fish outlets shall be designed as shown in figure 2, enclosure 7. All net in the area indicated shall be removed. A selvedge of two meshes shall be made along the longitudinal (N direction) edges of the fish outlet.

CHAPTER 3. REQUIREMENTS FOR SORTING GRIDS THAT MAY BE USED IN RUSSIAN FOUR-PANEL TRAWLS ONLY

§ 17 Material

Ordinary or stainless steel shall be used for the manufacture of sorting grids.

§ 18 Mounting

The sorting grid shall be mounted between the conical sections of the codend, or between the conical and cylindrical sections of the codend. The circumference of the conical section of the codend shall be the same as that of the sorting grid system.

§ 19 Design of the sorting grid system

a) The sorting grid

The minimum length and breadth of the grid shall be as follows:
1.5 x 1.2 m on vessels of main engine power 1000 kWh or more.
1.2 x 1.0 m on vessels of main engine power less than 1000 kWh.

b) Netting section

On vessels of main engine power 1000 kWh or more, the netting section shall have a circumference of 76 meshes, a length of 43.5 meshes and a minimum mesh size of 135 mm, and it shall be made of P.A. (nylon/kapron).

On vessels of main engine power less than 1000 kWh, the netting section shall have a circumference of 64 meshes, a length of 37.5 meshes and a minimum mesh size of 135 mm, and it shall be made of P.A. (nylon/kapron).

c) Guiding panel

* N, B and T are international standards used by the fishing gear industry that show the direction in which the meshes should be cut, cf. enclosure 7.

On vessels of main engine power 1000 kWh or more, the guiding panel shall be 1.6 m long and 3.1 m wide. The number of meshes depends on the mesh size used. The guiding panel shall be made of P.A. (nylon/kapron).

On vessels of main engine power less than 1000 kWh, the guiding panel shall be 1.3 m long and 2.6 m wide. The number of meshes depends on the mesh size used. The guiding panel shall be made of P.A. (nylon/kapron).

d) Lifting panel

On vessels of main engine power 1000 kWh or more, the lifting panel shall be 3.2 m long and 3.1 m wide. The panel shall be made of P.A. (nylon/kapron).

On vessels of main engine power less than 1000 kWh, the lifting panel shall be 2.6 m long and 2.6 m wide. The panel shall be made of P.A. (nylon/kapron).

e) Fish outlet

The fish outlet shall be completely open above the sorting grid and guiding panel.

§ 20 Floats

A system used on vessels of main engine power 1000 kWh or more shall be equipped with a maximum of 16 floats, 220 mm in diameter.

A system used on vessels of main engine power less than 1000 kWh shall be equipped with a maximum of 13 floats, 220 mm in diameter.

§ 21 Mounting the sorting grid in the netting section of the system

The sorting grid shall cover at least half the netting section of the sorting grid system.

§ 22 Mounting the lifting panel

The lifting panel shall cover at least half the netting section of the sorting grid system. The lifting panel shall not be mounted more than six meshes from the front end of the sorting grid system.

CHAPTER 4. PENAL PROVISIONS ETC

§ 23 Penalties and confiscation

Any wilful or negligent contravention of the provisions set out in or issued pursuant to these regulations is liable to a penalty pursuant to section 53 of the Act of 3 June 1983 No. 40 relating to Sea-water Fisheries, section 8 of the Act of 17 December 1976 No. 91 relating to the Economic Zone of Norway and the second paragraph of section 4 of the Act of 17 July 1925 relating to Spitzbergen. Complicity or an attempt to contravene the said provisions is subject to the same penalty. Confiscation may be effected pursuant to section 54 of the Act

relating to Sea-water Fisheries and section 9 of the Act relating to the Economic Zone of Norway.

§ 24 Entry into force

These regulations enter into force immediately. From the same date, the Regulations of 20 May 1996 relating to the use of sorting grid systems in cod trawls (mesh size 135 mm), the Regulations of 27 May 1999 relating to the use of sorting grid systems in cod trawls (mesh size 100 mm) between 62°N and 64°N, and the Regulations of 10 September 1999 relating to the use of sorting grid systems in cod trawls (mesh size 135 mm) north of 64°N are repealed. Temporary permits to fish using a cod trawl in which a sorting grid system with a single grid has been mounted which have been issued pursuant to the above-mentioned regulations will be valid until further notice.

The sorting grid system Sort-X as described in the enclosed specifications and drawings (enclosures 1 and 2) complies with the requirements for the design and mounting of sorting grids in cod trawls set out in Chapter 2.1.

The sorting grid system with a single grid (modified Sort-V) as described in the enclosed specifications and drawings (enclosure 3) complies with the requirements for the design and mounting of sorting grids in cod trawls set out in Chapter 2.2.

The sorting grid system Sort-V as described in the enclosed specifications and drawings (enclosures 4 and 5) complies with the requirements for the design and mounting of sorting grids in cod trawls set out in Chapter 3.

The sorting grid system Flexigrid as described in the enclosed specifications and drawings (enclosure 7) complies with the requirements for the design and mounting of sorting grids in cod trawls set out in Chapter 2.3.

Enclosure 6 is a map showing the geographical scope of these regulations.

The enclosures may be accessed at <http://www.fiskeridir.no/sider/pdf/torsk.pdf>

Spesifikasjon for enkel sorteringsrist i torsketrål

Fig. 1 Montering av ristsystem.

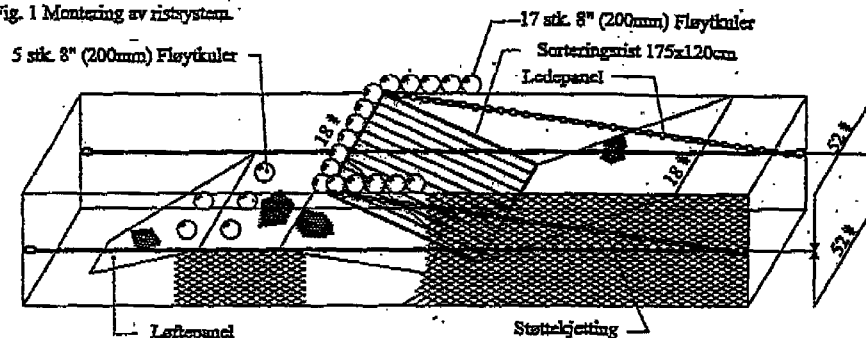


Fig. 2 Ristsystemet sett fra siden.

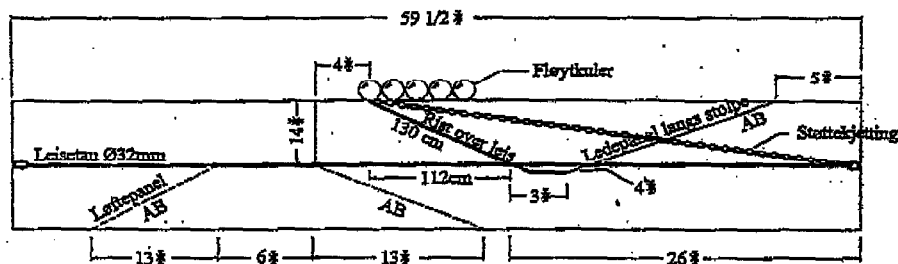


Fig. 3 Ristsystemet sett ovenfra.



Fig. 4 Forlengelse mellom trålbeig og ristseksjon.

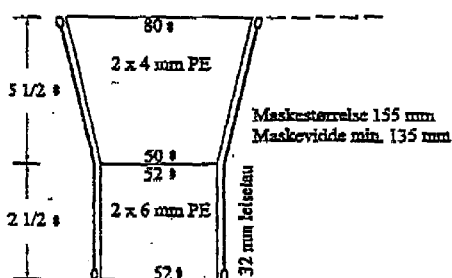


Fig. 5 Nettsesjon for montering av rist, løstpanel og ledpanel.

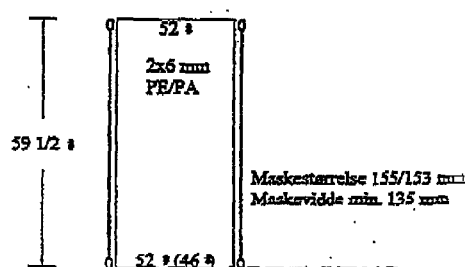


Fig. 6 Sorteringsrist for torsketrål, helsvaist i syrefast stål.

Sett fra siden

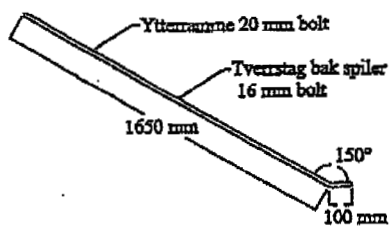


Fig. 7 Løstpanel.

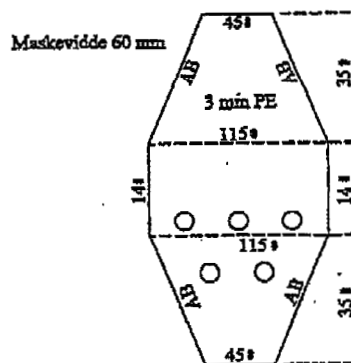
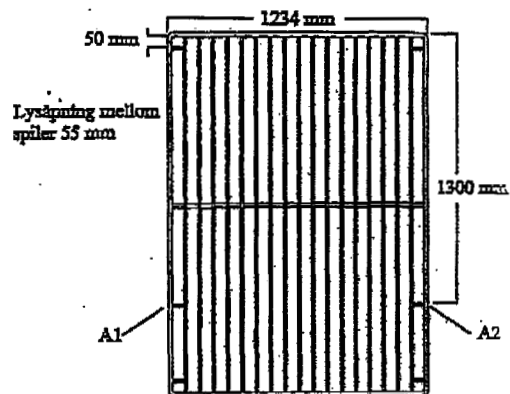
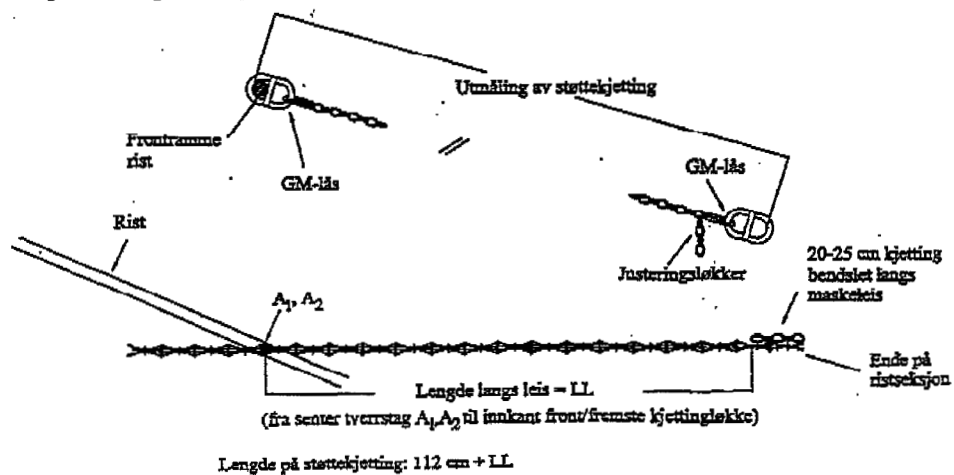
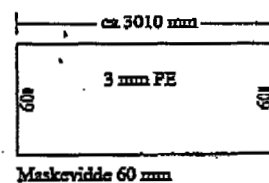


Fig. 9 Montering av støttkjetting.



Ytterramme: 20 mm bolt Tverrstag: 16 mm bolt
 Spiler: 12 mm bolt Småsteg i hjørner: 12 mm bolt
 A1 og A2: Tverrstag for montering mot sideleis

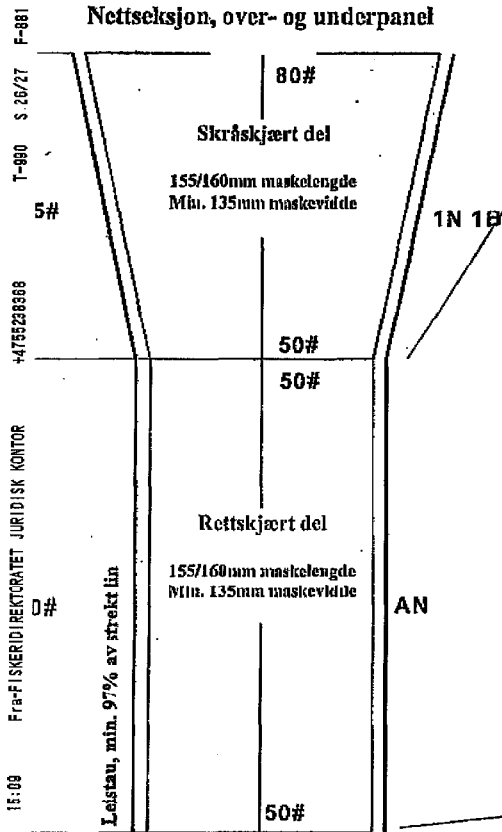
Fig. 8 Ledepanel.



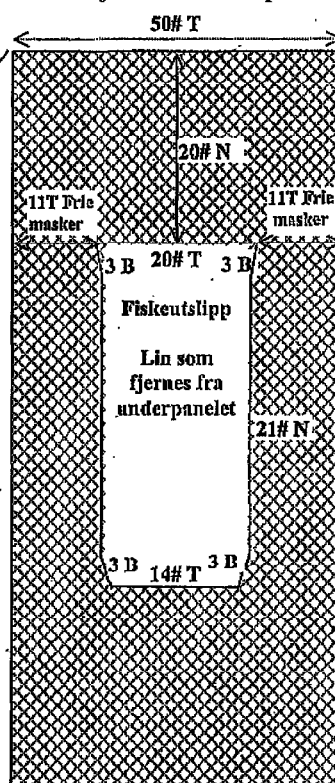
FLEXI GRID

VEDLEGG 7

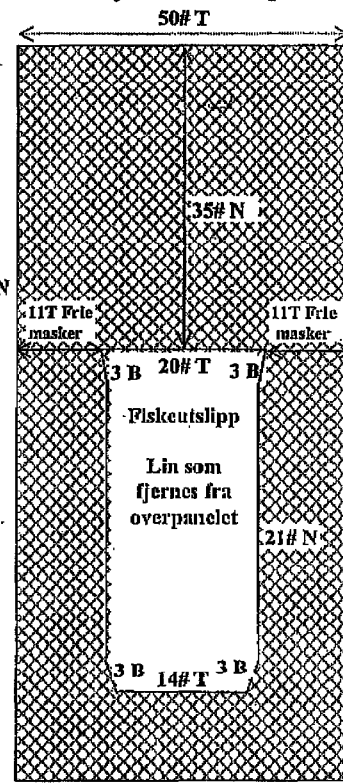
Nettseksjon, over- og underpanel



Rettskjært del: Underpanel



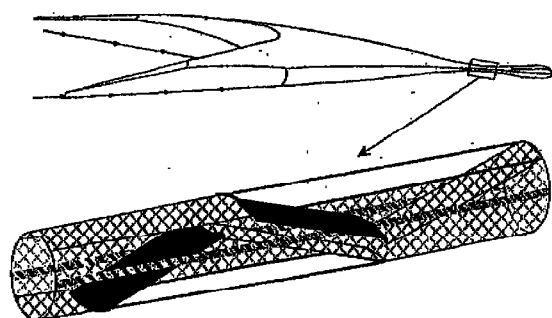
Rettskjært del: Overpanel



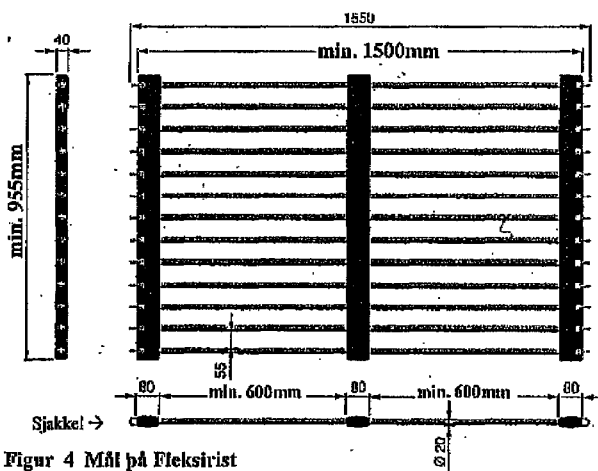
Figur 2 Utforming av fiskeutslipp i under og overpanelet

VEDLEGG 7

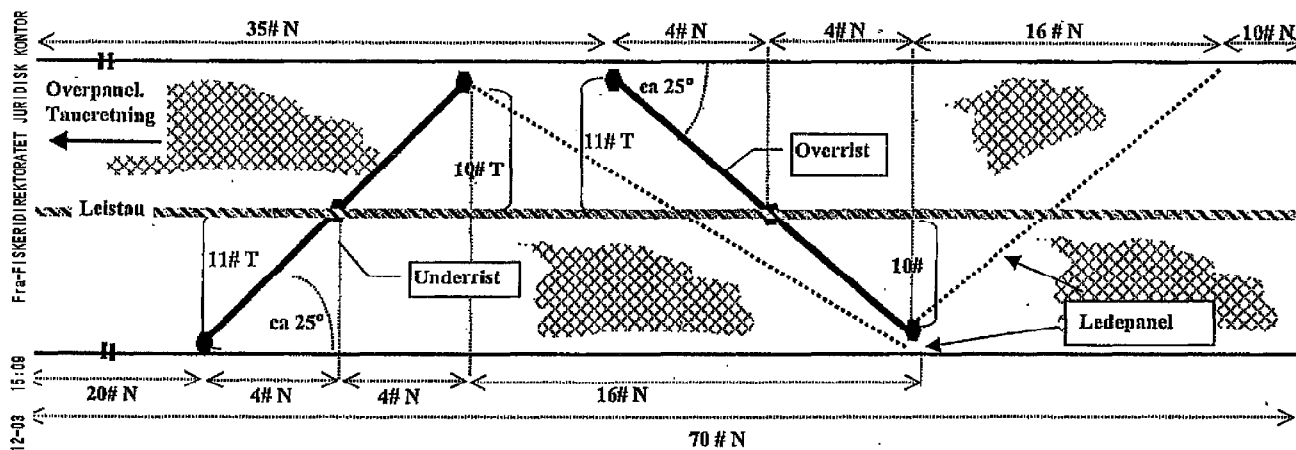
FLEXIGRID



Figur 3 Plassering av fleksibelt seleksjonssystem



Figur 4 Mål på fleksirist



Figur 5 Montering av rister og ledepanel i rettskjær seleksjon