TILAPIA FISH FARMING

Even the Ancient Egyptians farmed tilapia in ponds along the Nile and small scale tilapia farming is still an important source of protein for many families around the world.

Large scale commercial farming can be problematic due to the rapid production of offspring that will compete for food with the adult fish, but several techniques have now been developed to combat that problem. The fish can for instance be kept in densely stocked tanks or cages, since this disrupts reproduction in tilapia. The four species of tilapia most commonly grown as food fish in aquaculture are Nile tilapia (Oreochromis niloticus), Blue tilapia (Oreochromis aureus) and Mozambique Tilapia (Oreochromis mossambicus).

Today, hybrids of these species – sometimes with genetic material from other species as well – are popular as well.

Even though tilapia has been utilized as food in Africa and the Levant for thousands of years, it would take until the 20th century before the tasty tilapia really caught on outside this region. In the 1940s, tilapia farming commenced in Asia and this is still where you will find a majority of the major tilapia producing countries in the world.

By the end of the century, China, Indonesia, Taiwan, Thailand and the Philippines produced over 75 percent of the worldwide aquaculture production of tilapia. During recent years, several Latin American countries have taken an interest in tilapia farming, including Mexico, Brazil, Columbia and Costa Rica.

Over 95 percent of the global tilapia supply is imported to the United States where tilapia is an appreciated food fish. The import of tilapia to Europe is believed to increase significantly in the near future as more and more consumers are looking for suitable to alternatives to white fish fillets due to environmental concerns.

GROUP BADINOTTI thanks to his experience gained over the hundred years of production of fishing and fish farming can provide all the main equipment for the floating cages farm...

Twisted and Braided Ropes

When used in the mooring lines, fish farming is generally twisted POLYSTEEL ropes. This type is produced by polymerisation of high-density polyethylene extruded yarns.

Three fibres, mixed together, give a tensile strength of about 20 - 25% higher than the polyethylene rope. Keeping the same specific weight. Ropes are also available in Nylon, Dacron, Polyamide and Polypropylene.

Shackle

BOW SHACKLE
Circumferential eye pin

S.W.L. (T) A (mm) B (mm) C (mm) D (mm) O (mm) Weight (mm)

Diameter (mm) B.L. (daN) Roll weight x100 mt (Kg)

Polypropylene

Mooring Buoys

Mod BBRBuoy polyethylene rotational moulded filled with polystyrene foam 40 Kg/c.mt. 6 mm shell thickness.

Available models with the following buoyancy:

250 - 450 - 600 - 900 - 1100 - 1350 - 1600

Chain Used

Finish: Painting
Material: Raw, Black or hot galvanizing.

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Diameter (mm) B.L. (daN) Tollerancy (%) Roll weight x100 mt (Kg)

10 1780 4,5 4,5
12 2590 6,5 6,5
14 3540 8,9 8,5
16 4490 11,6 11,1
18 5720 14,1 13,6
20 6830 18,1 17,6
22 7600 21,1 20,6
24 8600 25,1 24,6

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**NETS**

Badinotti's nets are made of the most advanced equipment, using a wide range of braids in nylon, polyester, polypropylene, and polyethylene for aquaculture applications. Our European production site has been able to produce in a short time large quantities of the same net, thanks to the latest technology in Europe. Badinottitoday is able to provide both heavy and automatic machines in the future, using the best and modern technology in the market.

The whole Badinotti nets production is obtained in manufactory and machining of caps for expansions are subjected to rigorous quality tests, where flexibility and precision are required. The nets are made available in the market in a very short time due to the recent ISO 9001 and 50435 certifications. Badinotti can supply complete anti-predator and birdnet protection made with Polyethylene, Nylon, Polypropylene, Polyester, and Polyamid. Furthermore nets are provided by a special collar panel in the production to avoid the spread out of the floating feed made with a nylone 4 mm netting.

Our European production sites can boast a large production capacity, offering a wide range of braids in nylon, polyester, polypropylene, and polyethylene for aquaculture applications. Badinotti Group also provides single stenchions or brackets made with hot dip galvanized steel or HDPE, for the cage assembly.

**CAGES**

The floating cages for Tilapia farming are traditionally built with HDPE. Floating nets are provided with or without antifouling treatment. A couple of 200 mm pipes and thickness of 1,3 mm in the handrail (in alternative a small steel pipe). The whole Badinotti nets production is obtained in manufactory and machining of caps for expansions are subjected to rigorous quality tests, where flexibility and precision are required. The nets are made available in the market in a very short time due to the recent ISO 9001 and 50435 certifications. Badinotti can supply complete anti-predator and birdnet protection made with Polyethylene, Nylon, Polypropylene, Polyester, and Polyamid. Furthermore nets are provided by a special collar panel in the production to avoid the spread out of the floating feed made with a nylone 4 mm netting.

Cages are supported by stenchions made with hot dip galvanized steel or HDPE. Cage is supported by perimetric stenchions made with single stenchions or brackets made with hot dip galvanized steel or HDPE. The floating cages for Tilapia farming are traditionally built with HDPE. Floating nets are provided with or without antifouling treatment. A couple of 200 mm pipes and thickness of 1,3 mm in the handrail (in alternative a small steel pipe). The whole Badinotti nets production is obtained in manufactory and machining of caps for expansions are subjected to rigorous quality tests, where flexibility and precision are required. The nets are made available in the market in a very short time due to the recent ISO 9001 and 50435 certifications. Badinotti can supply complete anti-predator and birdnet protection made with Polyethylene, Nylon, Polypropylene, Polyester, and Polyamid. Furthermore nets are provided by a special collar panel in the production to avoid the spread out of the floating feed made with a nylone 4 mm netting.

**FLOATING PONTOONS**

Floating piers made of high density polyethylene, and therefore maintenance free. Any joining equipment between pipes, so it can be possible build pontoon hundreds meters long interconnections.

**STENCHIONS**

Badinotti’s nets are provided with single stenchions or brackets made with hot dip galvanized steel or HDPE, for the cage assembly.

**INSULATED TUBS**

Insulated containers with double walls filled in frame PUR (poliuretano closed cell) to ensure better durability and preservation of solids. The insulation factor of 0.19 with which they are built, guaranteed for long-term time the cold. 90% of storage after 18 days of temperature of -21°C Insulated containers are available in smaller volumes in the marine sector dedicated to professional use.

**INSULATED BAGS**

Stingray special anchors

**NAVIGATIONAL BUOYS**

Navigational buoys for boundary boundary area or marine danger alert, completed of IALA certified marine lanterns. Navigational buoys for boundary area or marine danger alert, completed of IALA certified marine lanterns. The buoys can be supplied built in pointed steel or in Roto-moulded Polyethylene.

**CAGERS)**

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**STINKYBOATS**

Special designing boats, made entirely of High Density Polyethylene (HDPE), virtually indistinguishable material used in maintenance free. Available in 5 mt and 7,5 mt overall length.

**MOORING EQUIPMENT**

The Blue Deep Badinotti Group’s brand aquaculture line includes most of the fish farming mooring equipment that each farmer needs, from anchors, new and used chains, shackles, ropes, etc. The Italian stock warehouse gives you the possibility to satisfy your order request in 24/48 h. Badinotti can supply ready for use mooring lines including ropes spliced with thimble, ring and mooring shackles.

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**MOORING LINE INSULATION**

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