Fish Cage Construction

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FAO Regional Training on the Principles of Cage Culture in Reservoirs
Issyk-Kul, Kyrgyzstan, on 22-24 June 2011
Fish Cage Construction

Types of Cages
Material Selection for Cages
Design of Cages
Components of Floating Cages
Construction of Floating Cages
Types of Cages

Floating Cages
Submersible Cages
Types of Cages

Floating Cages
Types of Cages

Submersible Cages
Material Selection for Cages

- Durable
- Nontoxic
- Rustproof
- Elastic
Material Selection for Cages

Common Materials for Cage Construction
- Wood
- Steel
- Plastic
Materials for Cage Construction

Wooden Cages
Materials for Cage Construction

Steel Made Cages
Materials for Cage Construction

Plastic Made Cages
Design of Cages

Polygonal Cages

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Components of Floating Cages

HDPE Pipes
Filling Material for Pipes
Brackets
Stoppers
Nets for Fish Cages

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Components of Floating Cages

High Density Polyethylene (HDPE) Pipes

- Available in Market
- Flexible
- Easy to Install
- Robust
- Light
Components of Floating Cages

High Density Polyethylene (HDPE) Pipes
Components of Floating Cages

Filling Material For Pipes
- EPS (Expanded Polystyrene)
- Light
- Robust
- Available in Market
Components of Floating Cages

EPS Blocks
Components of Floating Cages

EPS Blocks
Components of Floating Cages

Brackets

- Material of Brackets
  * Steel
  * Plastic

- Plastic Brackets
  * Injection
  * Rotomoulded
Components of Floating Cages

Brackets
Components of Floating Cages

Brackets
Components of Floating Cages

Brackets
Components of Floating Cages

Brackets
Components of Floating Cages

Stoppers
Components of Floating Cages

Stoppers

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Components of Floating Cages

Stoppers
Components of Floating Cages

Nets for Fish Cages

- Nylon Nets
- UHMWPE (Dyneema)
- Knotted Nets
- Knotless Nets
- Mesh Type
- Mesh Size
- Twine Size
Components of Floating Cages

Nets for Stocking Fishes
Components of Floating Cages

Rigging Nets

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Components of Floating Cages

Protection Nets

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Components of Floating Cages

Protection Nets
Construction of Floating Cages

Assembling
Welding
Towing
Mooring

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Thanks!