

# Hendrick

*SCREEN COMPANY*

## Fish Screens At A Glance

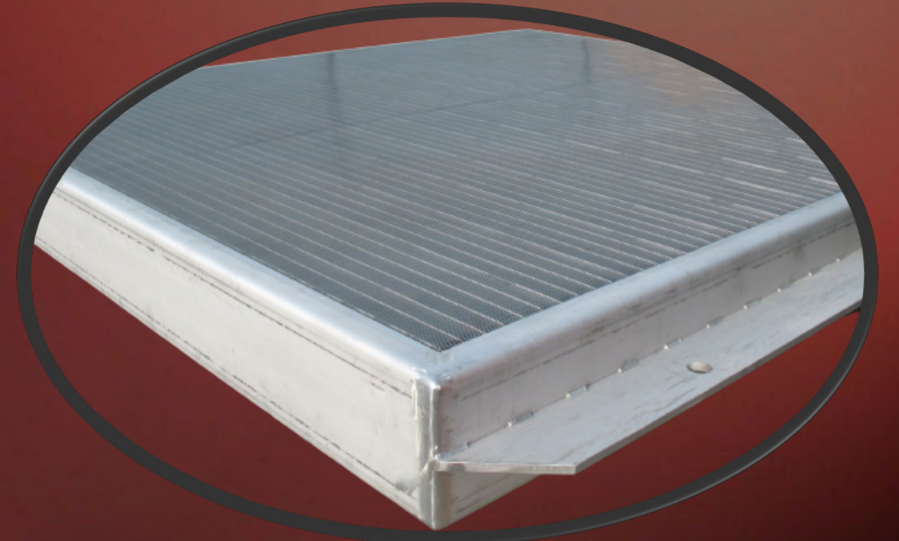
# CYLINDRICAL FISH SCREENS

- *Resistance welded and Profile Bar construction.*
- *Materials: 304ss, 316ss, Copper Nickel Alloys (resistance welded only)*
- *Low Maintenance (no moving parts)*
- *Three screen designs available:*
  - **Tees**
    - *Maximize Capacity*
    - *Allows Proper Screen Orientation In River Installations*
  - **Drums**
    - *Most Economical Design*
    - *Great For Reservoirs*
  - **Half-Barrels**
    - *Low Profile Design*
    - *Ideal For Shallow Water*



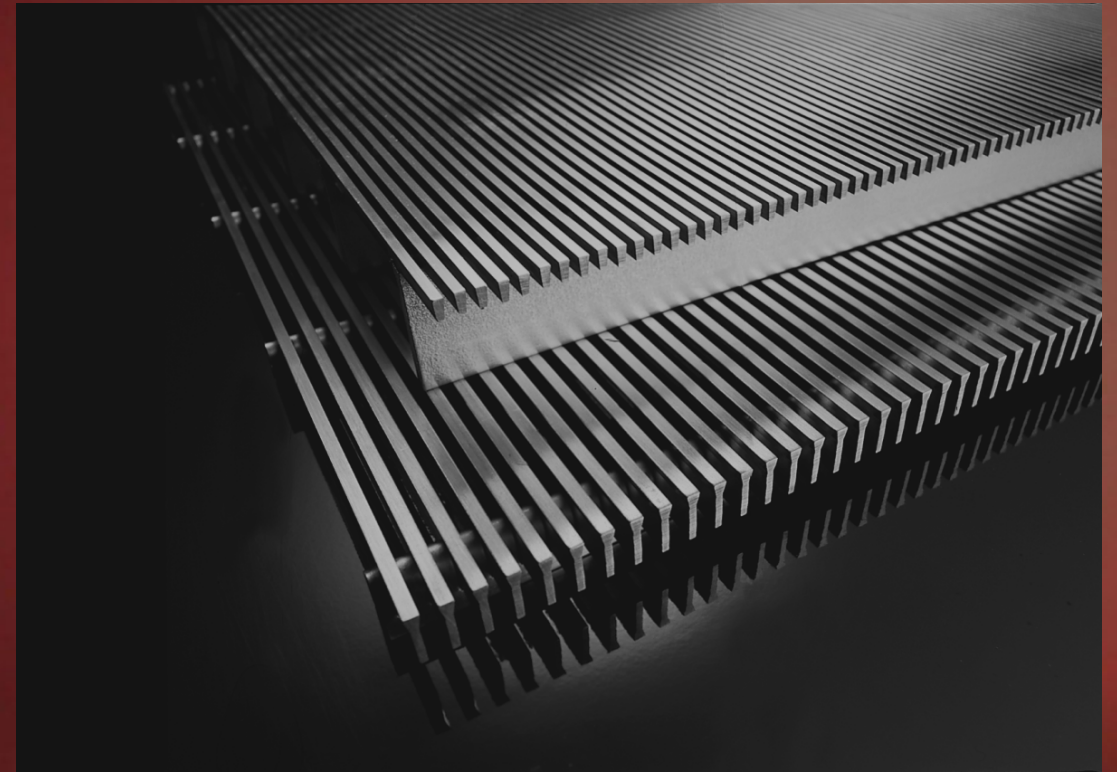
# FLAT PANEL FISH SCREENS

- *Resistance welded or Profile Bar construction.*
- *Materials: 304ss, 316ss, Copper Nickel Alloys (resistance welded only)*
- *Great for installations that do not allow an intake screen protruding out into the water.*
- *Configurations:*
  - **Vertical**
    - *Can be anchored/bolted in place or slid into guide rails that allow fast and easy installation and removal.*
    - *Can utilize after market brush cleaners (supplied by other manufacturers).*
  - **Tilted or Horizontal**
    - *Can utilize an air manifold to facilitate airburst cleaning while installed.*
    - *Allows use in minimal water depths.*



# SCREEN CONSTRUCTION

- **Resistance Welded**
  - *Industry proven to perform better than mesh or perforated screens.*
  - *Lightweight Construction*
  - *Higher Open Area Percentage*
- **Profile Bar**
  - *Mechanically interlocked providing increased strength and durability.*
  - *Constructed in the flat resulting in better flatness of the finished product.*
  - *Components offered in more robust sizes providing the customer with more options than with resistance welded screens.*



# MATERIALS

## 304 Stainless Steel

- *Used in freshwater when biofouling is not an issue.*
- *Most economical offering.*

## 316 Stainless Steel

- *Used in brackish water when biofouling is not an issue.*
- *Increases corrosion resistance versus 304ss.*

## 90/10 Copper Nickel

- *Prevents biofouling in freshwater.*

## 70/30 Copper Nickel

- *Prevents biofouling with increased corrosion resistance in saltwater.*



# THE EARLY STAGES



## Benefits of getting Hendrick involved early in the design process:

- *Ensures the best screen type is utilized.*
- *Ensures proper sizing to meet design criteria.*
- *Provides access to years of experience that may prevent unforeseen issues.*
- *Provides accurate budgetary pricing so project budgets are correct.*
- *Eliminates costly rework and redesign to changes that would otherwise take place later in the project timeline.*

# THINGS CONSIDER WHEN PUTTING TOGETHER A DESIGN

- **Limitations:**

- *Are there footprint limitations?*
- *Is water depth a factor?*

- **Design Regulations:**

- *Are there regulations that must be met such as NOAA criteria?*

- **Intake Capacity:**

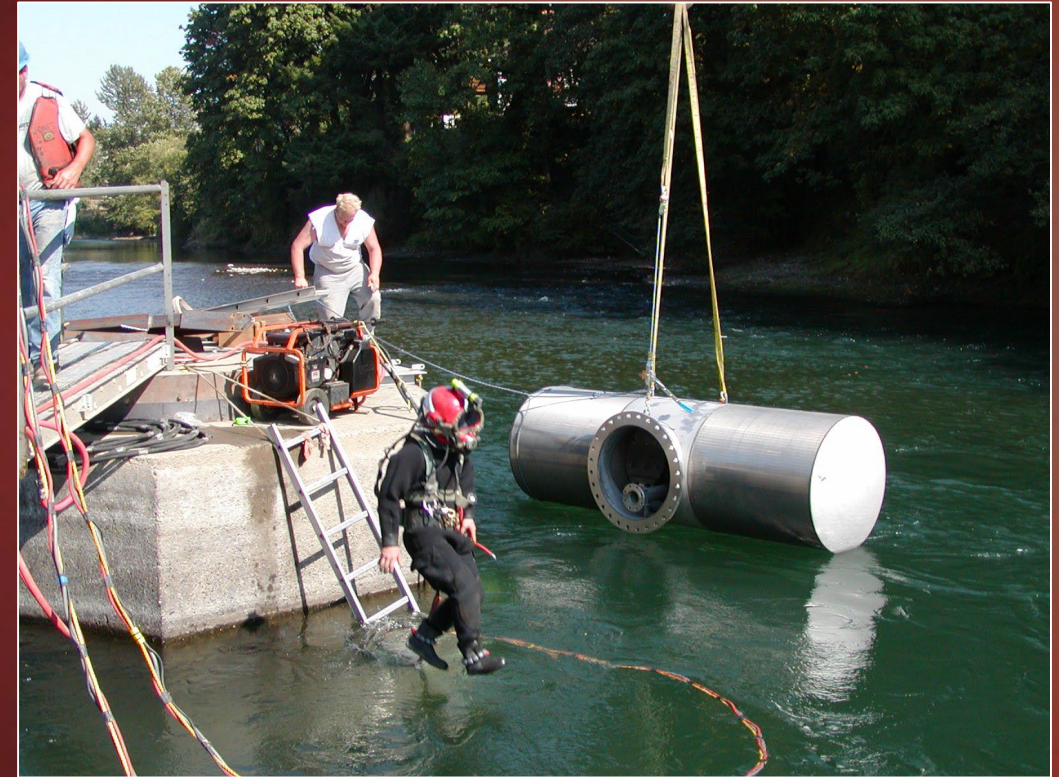
- *How much intake capacity is currently required?*
- *Should redundancy need to be included in the design?*
- *Plans for expansion in the future?*

- **Choosing The Correct Material:**

- *Water type: fresh, brackish, or saltwater*
- *Is biofouling a concern?*

- **Cost vs. Value:**

- *Material of Construction affects cost of the screens up front, but also the cost of maintenance in the future.*
- *Copper nickel material is more costly than 304/316ss up front, but greatly reduces upkeep and future issues caused by biofouling.*



# Thank You

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