HUON FORTRESS PEN SYSTEM

OFFSHORE PROTECTION FOR YOUR FISH & STAFF

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The Fortress Pen System was developed in Tasmania by our team at Huon Aquaculture in response to a need to keep seals out, provide a safe platform for our staff to work on and allow us to farm further offshore. There was nothing available on the market, so we underwent a 2-year, new pen development project with funding support from the Australian Government’s Fisheries Research and Development Corporation [Atlantic Salmon Aquaculture Subprogram: trial of a stock protection system for flexible oceanic fish pens]. The project began in 2012, with the first prototype pens in the water during 2013.

One of the key features of these pens was a patented, wide-style stanchion with flexible seal fence posts in an angled socket to allow an outer predator net to be set around the inner net while keeping a minimum distance of 2m separation between the nets. This outer predator net was connected directly to the sinker tube to reduce rigging and keep it tensioned at all times and in all weather. We then developed a unique tensioning system for the inner net that allowed it to flex with the pen, the predator net and the sinker tube. The end result is a pen that is easy for our staff to work on, keeps seals and other marine predators out and allows us to focus on the performance of our fish.

We’ve been using our Fortress Pens in some of the roughest farming conditions in the world for over three years and our fish have never grown better.
HUON FORTRESS PEN

EMPLOYEE SAFETY

✓ Tapered walkway plates with stud grip, drainage holes and walkway spacers provide a perfect fit for every pen
✓ Outer predator net above water keeps staff safe from menacing seals and from being washed off the collars
✓ Staff access areas for easy entry on and off the pen
✓ Huon’s Fortress Pen System received the Innovation in Safety award from the 2015 Tasmanian Community Achievement Awards

ON WATER MANAGMENT

✓ Endless rope net-tensioning systems allow the inner nets to be easily released and tensioned
✓ Stanchions made from impact modified Nylon provide the strength of steel, but with durability and flexibility
✓ Huon’s Fortress Pens contain no steel parts to damage boats or chaff through nets and ropes

FISH PROTECTION

✓ Outer seal-fence poles and predator-proof netting to keep seals off the pen above-water
✓ Flexible bird poles keep bird nets supported so birds cannot get near the fish or fish feed
✓ Underwater the predator net provides an impenetrable barrier that keeps seals and sharks away from the fish

FISH PERFORMANCE

✓ Lightweight, super-strong nets allow excellent water flow, reducing drag and improving in-pen DO’s
✓ Keeping seals, sharks and birds away from the fish allows them to grow without disturbance
✓ Nets are optimised for use with mort collectors, so any dead fish can be retrieved as required

FORTRESS PEN SPECIFICATIONS

<table>
<thead>
<tr>
<th>System Name</th>
<th>Overall Pen Circumference/Size</th>
<th>Collar Pipe Diameter*</th>
<th>Predator Net Depth†</th>
<th>Fish Net Depth†</th>
<th>Fish Net Volume†</th>
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<tbody>
<tr>
<td>Square</td>
<td>50x50m</td>
<td>450mm</td>
<td>20m</td>
<td>16m</td>
<td>40,000m³</td>
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<td>560mm</td>
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<tr>
<td>F240</td>
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<td>560mm</td>
<td>32m</td>
<td>26m</td>
<td>72,500m³</td>
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</tbody>
</table>

* All pens have 3 collars
† Net depths and volumes can be customised to suit conditions
HUON FORTRESS PEN - ROUND

F240m circular pen with LiftUp, bird net stand and feed spinner

HUON FORTRESS PEN - SQUARE

Square pen with 4 pods and dual staff access points
Moulded HDPE or Nylon pen components include:

1. Handrail/Seal Pole Plug
2. Pin Locker
3. Rope Tension Pulley
4. Handrail T
5. Walkway Plate
6. Walkway Spacer
7. Stanchion Block
8. Stanchion
A LITTLE BIT ABOUT US …

We’ve been farming top quality salmon in the pristine waters of Tasmania for over 30 years and in that time we’ve learnt a thing or two about the best way to raise some of the highest quality salmon in the world.

We have built a reputation based on quality and innovation with a proud history of leading the way in aquaculture developments both in Australia and internationally. A constant desire to put the health of our marine environment, our fish and the safety of our staff at the forefront of every business decision has led to innovation across all aspects of our business. Recognition that the future of fish farming looks very different to that of today continues to drive significant change in our global aquaculture industry as companies like ours move to offshore, deeper oceanic sites and look to adopt technology such as the Huon Fortress Pen Systems that can withstand these more beneficial, but equally challenging, new farming locations.

This focus on continual improvement and innovation in the way we farm has set the foundations for Huon Aquaculture to continue to grow sustainably into the future.

Peter and Frances Bender
Co-Founders

CONTACT US

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YOUR LOCAL SUPPLIER

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