# BULKHEAD BOOM

TECHNICAL SPECIFICATION

Vikoma
Technology for a Cleaner Environment

oil containment booms

## BULKHEAD BOOM RANGE

### Application

Bulkhead oil containment boom is intended to be used for the containment or deflection of oil in emergency or semi-permanent deployment situations. Independent buoyancy chambers, formed by sealed internal bulkheads, allow the boom to retain oil and maintain its integrity should damage occur to any one chamber during operation. The boom is made from reinforced, double faced neoprene fabric vulcanised under pressure to guarantee seam integrity. Neoprene gives excellent performance in all climates and has a very long service life due to its high abrasion resistance plus good resistance to chemicals and environmental damage (UV). Bulkhead boom has a continuous smooth profile. This, coupled with the low inflation pressure, gives excellent wave-following and oil retention characteristics. Sizes comply to ASTM and US Coastguard standards as prescribed by the Oil Pollution Act of 1990. Boom sizes range from the calm water designated Bulkhead 750 to the open water use Bulkhead 1500.

### Manufacture

Reinforced, double faced neoprene fabric vulcanised under pressure to guarantee seam integrity.

### Inflation - Deflation Valves

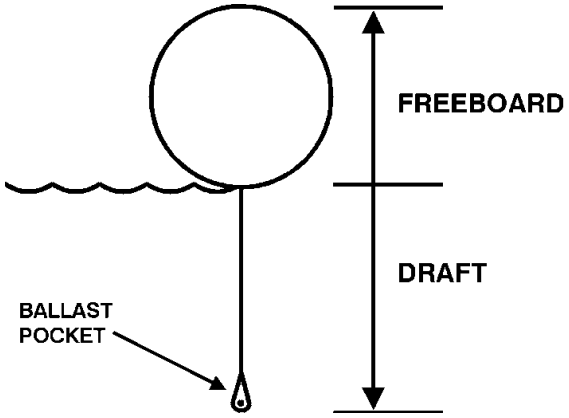
High capacity, spring loaded, marine use inflation - deflation valves are located in each air buoyancy chamber. Operating pressure of the bulkhead boom range is 0.02 bar.

### Ballast

Galvanised, long link ballast chain in a reinforced skirt pocket, providing high tensile strength with good underwater profile for maximum oil retention.

### Section Connectors

Vikoma's patented Unicon™ connectors fitted as standard provide a simple quick fit connection system. Unicon™ quick release connectors are extruded from marine grade aluminium and are highly resistant to corrosion. ASTM connectors can be supplied upon request.




### Inflators

Vikoma offers a range of inflators and can offer deflators to speed up recovery of boom. Refer to separate technical specifications.

### Towing / Mooring Bridles

Towing Bridles facilitate easy manoeuvring and towing of the boom and are supplied complete with Unicon™ or ASTM connectors (see Tow Bridle specification). Purpose built mid section mooring points can be incorporated into the boom during manufacture.

### Optional Accessories

Cold glue repair (SK/1041)
Hot glue repair (SK/1006)
Valve spares kit (SK/1014)
Anchor systems (by application)
Portable vulcanising machine (PS/0100)
Navlights (by application)





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## BULKHEAD BOOM RANGE

### Technical Information

| | Main Operational Area (OPA 90) | Standard Section Lengths | Part No. U=Unicon A=ASTM | Overall Height mm (in) | Free-Board mm (in) | Draft mm (in) | Fabric Weight g/m² (oz/yd²) | Boom Weight kg/m (lb/ft) |
|---|---|---|---|---|---|---|---|---|
| **Bulkhead 750** | Protected | 25m | BB/0012U BB/0012A | 750 | 350 | 400 | 900 | 4.55 |
| | Water | 50m | BB/0013U BB/0013A | (29.5) | (13.8) | (15.7) | (26.4) | (3.1) |
| **Bulkhead 1000** | Open | 25m | BB/0014U BB/0014A | 1000 | 400 | 600 | 900 | 5.95 |
| | Water | 50m | BB/0015U BB/0015A | (39.4) | (15.7) | (23.6) | (26.4) | (4.0) |
| **Bulkhead 1200** | Open | 25m | BB/0016U BB/0016A | 1200 | 500 | 700 | 900 | 8.35 |
| | Water | 50m | BB/0017U BB/0017A | (47.2) | (19.7) | (27.5) | (26.4) | (5.6) |
| **Bulkhead 1500** | Open | 25m | BB/0018U BB/0018A | 1500 | 600 | 900 | 900 | 9.05 |
| | Water | 50m | BB/0019U BB/0019A | (59) | (23.6) | (35.4) | (26.4) | (6.1) |

| | Breaking Load N/50mm | Tear Strength (warp/weft) N | Overall Boom Tensile Strength (Fabric) kN | Ballast Chain Size mm | Tensile strength Chain kN | Reserve Buoyancy to Weight Ratio | Air Porosity @0.3bar |
|---|---|---|---|---|---|---|---|
| **Bulkhead 750** | 4000 | 300/300 | 154 | 9.5mm | 44 | 20.1:1 | Nil |
| **Bulkhead 1000** | 4000 | 300/300 | 207 | 12.5mm | 74 | 20.5:1 | Nil |
| **Bulkhead 1200** | 4000 | 300/300 | 219 | 12.5mm | 74 | 22.41:1 | Nil |
| **Bulkhead 1500** | 4000 | 300/300 | 306 | 12.5mm | 74 | 29.97:1 | Nil |





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