

Technical Data



Polyethylene Rotation Moulding

| Physical properties ^{1,2} | Test method | Value |
|--|--------------|-------|
| Melt index, g/1.0 min. (190°C/2.16 kg) | ISO 1133 | 4.0 |
| Density, kg/m ³ | ISO 1183 | 935 |
| Whiteness index | ASTM E-313 | 65 |
| Melting point, °C | DSC | 125 |
| Crystallisation point, °C | DSC | 105 |
| Hardness, Shore D | ISO R 868 | 57 |
| Vicat softening point, °C | ISO 306 A120 | 118 |
| Heat deflection temperature, °C | ISO 75 | 75 |

| Mechanical properties ³ | Test method | Value (Roto Moulded ⁴) |
|--|-----------------------------|------------------------------------|
| Flexural modulus ⁵ , MPa | ASTM 790 | 530 |
| Tensile modulus ⁵ , MPa | ISO R 527 | 450 |
| Tensile yield stress ⁵ , MPa | ISO R 527 | 18 |
| Ultimate elongation ⁵ , MPa | ISO R 527 | 700 |
| Tear resistance ⁵ , N/mm ² | DIN 53515 | 140 |
| ESCR 50° C, h | 100% Antarox ASTM D-1693 | |

| | | |
|---------------------------|------------|----|
| Falling Dart Impact, J/mm | ISO 6603/2 | 17 |
| | -20°C | 25 |

(1) Typical properties; not to be construed as specification limits.

(2) Compression moulded samples.

(3) Crosshead speed 50mm/min.

(4) Secant modulus at 1% deflection.

(5) Plates of 3-4 mm thickness.

In our view **“the rigid boom system is the most effective alternative to conventional methods for restricting oil slick movement”**

The Rigid Boom System RB400 and Oil Slick Harvester are registered and patented products of:

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Rigid Boom System RB400

Product Information

- Fast Trawling
- Modular System
- Rigid Construction
- Lightweight
- Easy Clean Surface
- Rapid Deployment

Rigid Boom System RB400 Information



Fast trawling

Rigidity in the vertical plane permits the boom assembly to be trawled at a greater speed than conventional booms whilst still containing the spill.

Modular system

High visibility, booms can be rapidly assembled for deployment to any length required. In the unlikely event of accidental damage, any one section can be quickly replaced.

Rigid construction

Excellent environmental stress cracking and high impact strength and durability will withstand rough handling under adverse conditions. Fully heat and UV-stabilised.

Easy clean surface

Polyethylene construction enables individual sections to be easily cleaned with normal detergents and pressure washers.

Lightweight

Small crew required to assemble, launch and recover.

Individual Buoyancy

Negates any requirement for an inflation source affording swift, cost effective deployment.

Integral ballast

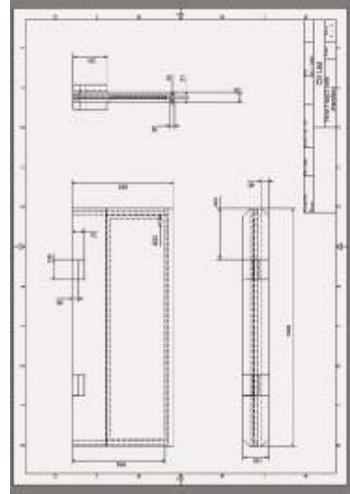
Each individual boom holds a vertical position obviating the requirement for tension wire ballast.

Containment Ability

Booms can be deployed to encompass an area of spill oil; when connected to the Oil Slick Harvester oil can be transferred into the contained area to the full depth of the booms. The chart illustrates the amount of oil that can be collected.

| Booms Number | Area covered | | Cubic Capacity | |
|--------------|--------------|---------|----------------|------------|
| | Sq Meters | Sq Feet | Cubic Metres | US Gallons |
| 5 | 4.48 | 48 | 1.8 | 475 |
| 10 | 17.86 | 192 | 7.14 | 1886 |
| 20 | 71.65 | 771 | 28.66 | 7511 |
| 40 | 286.62 | 3,085 | 114.65 | 30,287 |
| 80 | 1,146.46 | 12,340 | 458.58 | 121,144 |
| 160 | 4,586.09 | 49,364 | 1,834.43 | 484,605 |

The RB400 system can be used to encircle any damaged vessel where oil is being discharged. Oil will be contained to the full depth of the booms allowing the clean-up operation to be confined to the accident site.



Information Rigid Boom System RB400



Rigid Boom System

The Oil Limited Rigid Boom System is constructed by assembling individual booms having a freewater height of 200mm and a below water rigid depth of 400mm. Booms are connected together by flexible joiners giving the boom assembly flexibility in its length yet still retaining rigidity in its vertical plane.

Top Left photograph illustrates Boom deployed protecting harbour entrance.



The revolutionary design of the system affords the boom assembly to be used in tidal flows where traditional booms cannot retain spill oil.

Top right photograph illustrates boom deployment in fast flowing river.

Individual booms weigh less than 17kgs, enabling rapid on site assembly and deployment with the minimum of operators required to attend. The same criteria applies to recovery after incident.

Bottom right photograph illustrates rapid deployment from harbour to scene of incident.