

## Anchor ropes and mooring warps – sizes

- Anchor ropes – polyamide (nylon) or polyester (Terylene/Dacron).
- Warps should be of the same material or polypropylene (Courlene etc).
- All ropes and chains are detailed by *diameter*.
- Protect against chafing at the bow fairlead.
- *Never* use a floating rope (such as polypropylene) on an anchor.

| <i>Yacht's length overall</i>                 | up to 5·5 m<br>18 ft                                                                                                                   | 5·5–7·3 m<br>18–24 ft                                                                                                                    | 7·3–9 m<br>24–30 ft                                                                                                                       | 9–11 m<br>30–36 ft                                                                                                                        | 11–13·5 m<br>36–44 ft                                                                                                                       | 13·5–16·5 m<br>44–54 ft                                                                                                                    |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Thames tonnage*</i>                        | Dayboats and dinghies                                                                                                                  | 2–4 tons                                                                                                                                 | 4–8 tons                                                                                                                                  | 8–12 tons                                                                                                                                 | 12–18 tons                                                                                                                                  | 18–30 tons                                                                                                                                 |
| <i>Anchor rope with short length of chain</i> | 30 m of 10 mm plaited plus 5 m of 5 mm chain<br>or<br>100 ft of $\frac{3}{8}$ inch diam plaited plus 18 ft of $\frac{3}{8}$ inch chain | 42 m of 13 mm plaited plus 5 m of 6·5 mm chain<br>or<br>140 ft of $\frac{1}{2}$ inch diam plaited plus 18 ft of $\frac{1}{4}$ inch chain | 55 m of 13 mm 3-strand plus 5 m of 8 mm chain<br>or<br>180 ft of $\frac{1}{2}$ inch diam 3-strand plus 18 ft of $\frac{5}{16}$ inch chain | 70 m of 16 mm 3-strand plus 7 m of 10 mm chain<br>or<br>240 ft of $\frac{3}{8}$ inch diam 3-strand plus 24 ft of $\frac{3}{8}$ inch chain | 90 m of 16 mm 3-strand plus 7 m of 11 mm chain<br>or<br>300 ft of $\frac{5}{16}$ inch diam 3-strand plus 24 ft of $\frac{7}{16}$ inch chain | 120 m of 19 mm 3-strand plus 7 m of 13 mm chain<br>or<br>400 ft of $\frac{3}{4}$ inch diam 3-strand plus 24 ft of $\frac{1}{2}$ inch chain |
| <i>Mooring warps 3-strand or plaited</i>      | 2, 3 or 4 required each<br>9 m of 10 mm<br>or<br>30 ft of $\frac{3}{8}$ inch diam                                                      | 3 or 4 required each<br>14 m of 11 mm<br>or<br>45 ft of $\frac{7}{16}$ inch diam                                                         | 4 required each<br>18 m of 13 mm<br>or<br>60 ft of $\frac{1}{2}$ inch diam                                                                | 4 required each<br>23 m of 13 mm<br>or<br>75 ft of $\frac{1}{2}$ inch diam                                                                | 4 or 5 required each<br>27 m of 16 mm<br>or<br>90 ft of $\frac{3}{8}$ inch diam                                                             | 5 or 6 required each<br>30 m of 19 mm<br>or<br>100 ft of $\frac{3}{4}$ inch diam                                                           |

\*See page 204 for the formula which gives Thames tonnage.

## Anchor sizes relative to boat length and type

- Recommended sizes of 'patent' anchors such as Delta, Danforth, Bruce, CQR, Plough etc. For Fisherman types increase the weight by 20%.
- Tested anchors are recommended.
- For inshore racing a light kedging anchor is likely to prove inadequate if the yacht has to anchor in severe weather in an unprotected anchorage.

- Long-range cruising assumes that the yacht may have to ride out a hurricane. In these conditions a modest increase in weight and size of anchor over the average will sometimes save the boat.

## ANCHOR SIZES

### Dimensions and weights: *imperial units*

*Boat length  
overall: feet*

|                                         | 20           | 26           | 33           | 39           | 46            | 52            | 59                     | 66                     | 72                      |
|-----------------------------------------|--------------|--------------|--------------|--------------|---------------|---------------|------------------------|------------------------|-------------------------|
| <i>For inshore<br/>racing: lbs</i>      | 1@10         | 1@15         | 1@20         | 1@30         | 1@40          | 1@65          | 1@80                   | 1@50<br>1@90           | 1@65<br>1@150           |
| <i>For coastal<br/>cruising: lbs</i>    | 1@10<br>1@30 | 1@15<br>1@40 | 1@22<br>1@50 | 1@35<br>1@60 | 1@45<br>1@75  | 1@56<br>1@95  | 2@70<br>1@175          | 2@85<br>1@175          | 2@120<br>1@250          |
| <i>For long range<br/>cruising: lbs</i> | 1@20<br>1@30 | 1@25<br>1@45 | 1@35<br>2@70 | 1@50<br>2@90 | 1@60<br>2@130 | 1@70<br>2@170 | 1@80<br>2@120<br>2@220 | 1@90<br>2@140<br>2@280 | 1@100<br>2@160<br>2@350 |

## ANCHOR SIZES

### Dimensions and weights: *metric units*

*Boat length  
overall: metres*

|                                           | 6           | 8            | 10           | 12           | 14                   | 16                   | 18                    | 20                    | 22                    |
|-------------------------------------------|-------------|--------------|--------------|--------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| <i>For inshore<br/>racing: kilos</i>      | 1@5         | 1@7          | 1@9          | 1@14         | 1@18                 | 1@29                 | 1@36                  | 1@23<br>1@41          | 1@29<br>1@68          |
| <i>For coastal<br/>cruising: kilos</i>    | 1@5<br>1@14 | 1@7<br>1@18  | 1@10<br>1@23 | 1@16<br>1@27 | 1@20<br>1@34         | 1@25<br>1@43         | 2@32<br>1@57          | 2@39<br>1@79          | 2@54<br>1@113         |
| <i>For long range<br/>cruising: kilos</i> | 1@9<br>1@14 | 1@11<br>1@20 | 1@16<br>2@32 | 1@23<br>2@41 | 1@27<br>1@36<br>2@59 | 1@32<br>1@45<br>2@77 | 1@36<br>2@54<br>2@100 | 1@41<br>2@64<br>2@127 | 1@45<br>2@73<br>2@159 |