Introduction

This factsheet provides the requirements for buoyancy aids and lifejackets when taking part in water activities. It also provides background information regarding such products.

Information regarding waterborne diseases and immersion into water can be found in factsheet FS120629 Water Safety (Waterborne disease and immersion).

General

From July 1995 suppliers have only been allowed to sell lifejackets and buoyancy aids that have been tested to European specifications and carry the CE mark of approval. The International Standards Organisation (ISO) standards have replaced this.

When new buoyancy aids and life jackets are purchased they must have been tested and show the appropriate mark of approval. Old buoyancy aids and life jackets not showing ISO marks of approval can continue to be used as long as they have been properly maintained and tested to show they confirm to the appropriate standard.

ISO Label diagrams
CE and ISO standards explained

The CE and ISO standards use Newtons as the form of measurement. A Newton is a measured unit of force. 10 Newtons are approximately equal to 1 kg (2.2 lbs) of buoyancy. The CE and ISO standards cover four levels of minimum buoyancy performance. The higher the Newton number the higher the buoyancy rating. The buoyancy rating quoted is for adult size only. Smaller sizes will have proportionally less buoyancy.

**Level 50 Buoyancy Aid**

CE 50 Newton (11lbs buoyancy)

EN393  ISO 12402-5

- Only suitable for competent swimmers.
- Recommended for use in sheltered water where help is close at hand.
- Only provides support to conscious people who can help themselves.
- Inferior in performance to life jackets or the previous BMIF Standard for Buoyancy aids.

**Level 100 Buoyancy Aid (Lifejacket)**

CE 100 Newton (23lbs buoyancy)

EN395  ISO 12402-4

- Suitable for swimmers.
- Increased buoyancy for use in general inshore conditions.
- Gives a reasonable assurance of safety from drowning in relatively calm waters.
- Not guaranteed to self-right an unconscious user wearing waterproof clothing and should not be expected to protect the airway of an unconscious person in rough water.

**Level 150 Lifejacket**

CE 150 Newton (33lbs buoyancy)

EN396  ISO 12402-3

- Suitable for swimmers and non-swimmers.
- For use in all but most severe conditions.
- Will give reasonable assurance of safety from drowning to a person not fully capable of helping themselves.
- May not immediately self-right an unconscious user wearing heavy waterproof clothing.

**Level 275 Lifejacket**

CE 275 Newton (62lbs buoyancy)

EN399  ISO 12402-2

- A high performance device for offshore and severe conditions, when maximum protection is required or where heavy waterproof clothing is worn.
- Has sufficient buoyancy to counteract the effect of trapped air in clothing.
- Gives improved assurance of safety from drowning to people who are not able to help themselves.
- While they cannot be guaranteed to self-right an unconscious user wearing heavy waterproofs, the buoyancy they provide should ensure they will in the great majority of cases.

**Maintenance**

It is important that all lifejackets or buoyancy aids are repaired as necessary. They should be independently inspected in accordance with County or District arrangements. If there is any doubt, the advice of the Assistant County Commissioner (Water Activities) or County or District Water Activity Adviser should be sought.

It is important that any damage to the outer skin of the lifejacket or buoyancy aid is repaired immediately. Delays will only compound the damage and possibly damage the internal buoyancy material or air chambers. The annual inspection should check for any damage and for standard of repairs, particularly to stitching and zips.

A simple test for a lifejacket or buoyancy aid is to hang on an appropriate weight, squeeze out all the air and see if it floats. If it does float it is OK. If it fails to float it needs replacing, (see chart on page 7)
It is also recommended that all life jackets and buoyancy aids are individually marked with an identification system and that a record is kept of the date of purchase, any repairs and the dates of the annual inspections. This will assist with the long term planning for renewal and the budget implications associated with such renewals.

**Lifejacket or Buoyancy Aid**

Where the use of a buoyancy aid is specified by The Scout Association, a lifejacket may be substituted but not *vice versa*. Where a CE and ISO standard is specified, a higher specification may be substituted but not *vice versa*.

**Safety notes**

All garments should be worn correctly in accordance with the manufacturer's instructions. Lifejackets are no substitute for proper discipline, correct training, good organisation, use of correct facilities, qualified leadership and correct briefing, which are paramount for water safety.

**Lifejacket and Buoyancy Aid requirements**

The chart contained in page 4 indicates the minimum level of standard of buoyancy aid or lifejacket which must be worn, or carried, when undertaking activities within The Scout Association.

Where a CE/ISO 50 Newton standard buoyancy aid or CE/ISO 150 Newton standard lifejacket is stipulated it is recommended that the lifejacket or buoyancy aid should be tailored to the size and weight of the person undertaking the activity.

Where possible, it is recommended that an approved CE or ISO lifejacket or buoyancy aid tailored for the activity (windsurfing, personal watercraft, rowing etc) should be worn.

The Permit holder leading or supervising the activity may, at any time, insist on a stricter requirement than those listed.

A Permit holder who holds BCU Competition Coach Award may apply BCU standards for competition training and events provided he or she is present for the activities on water for which his or her qualifications are valid.

Lifejackets are to be worn in all boats when there is low visibility.

### Weights for Buoyancy Aid Testing – 50N Standard

<table>
<thead>
<tr>
<th>Weights can be manufactured locally using this chart. (If you wish to use other metal, please contact the County Water Adviser for values).</th>
<th>Minimum buoyancy</th>
<th>Lead weight</th>
<th>Iron or steel weight</th>
<th>Cast iron weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50N</td>
<td>5.5kg</td>
<td>5.7kg</td>
<td>5.8kg</td>
<td></td>
</tr>
<tr>
<td>45N</td>
<td>4.9kg</td>
<td>5.2kg</td>
<td>5.2kg</td>
<td></td>
</tr>
<tr>
<td>40N</td>
<td>4.4kg</td>
<td>4.6kg</td>
<td>4.6kg</td>
<td></td>
</tr>
<tr>
<td>35N</td>
<td>3.8kg</td>
<td>4.0kg</td>
<td>4.1kg</td>
<td></td>
</tr>
<tr>
<td>Scout water classification</td>
<td>C</td>
<td>B1</td>
<td>B2 (Non tidal)</td>
<td>B3</td>
</tr>
<tr>
<td>----------------------------</td>
<td>---</td>
<td>----</td>
<td>---------------</td>
<td>----</td>
</tr>
<tr>
<td>Bell Boating / Canoeing / Kayaking</td>
<td></td>
<td></td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
</tr>
<tr>
<td>Dinghy Sailing (open craft under 20') See note ii</td>
<td></td>
<td>Level 50 Buoyancy aids to be worn</td>
<td>Level 100 Buoyancy aids to be worn</td>
<td></td>
</tr>
<tr>
<td>Dragon Boats See note vi</td>
<td></td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keelboat Sailing See notes vii and viii</td>
<td></td>
<td></td>
<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Kite Surfing</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td>Level 150 Lifejackets to be worn</td>
<td></td>
</tr>
<tr>
<td>Motor Cruising See note vii</td>
<td>Level 50 Buoyancy aids to be carried</td>
<td></td>
<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Narrow Boating</td>
<td>Level 50 Buoyancy aids to be carried</td>
<td></td>
<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Personal Watercraft</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td>Level 150 Lifejackets to be worn</td>
<td></td>
</tr>
<tr>
<td>Powerboat (Planing) See note v</td>
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<td></td>
<td>Level 150 Lifejackets to be worn</td>
<td></td>
</tr>
<tr>
<td>Powerboat (Displacement) See note vii</td>
<td>Not Mandatory</td>
<td>Level 50 Buoyancy aids to be carried</td>
<td>Level 150 Lifejackets to be carried</td>
<td>Level 150 Lifejackets to be worn</td>
</tr>
<tr>
<td>Pulling Boats (small)</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td>Level 150 Lifejackets to be worn</td>
<td></td>
</tr>
<tr>
<td>Pulling Boats (large) See vii</td>
<td>Not Mandatory</td>
<td>Level 50 Buoyancy aids to be carried</td>
<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Rafting (Traditional and White water) See note iv</td>
<td>Not Mandatory</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Rowing / Sculling</td>
<td>Level 150 Lifejacket to be worn</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Water Skiing</td>
<td>Level 50 Buoyancy aid to be worn</td>
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<td>Level 150 Lifejackets to be worn</td>
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<tr>
<td>Windsurfing See note iii</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td>Level 100 Buoyancy aids to be worn</td>
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</tr>
<tr>
<td>Yachting See notes vii and viii</td>
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<td>Level 150 Lifejackets to be carried</td>
<td></td>
</tr>
<tr>
<td>Safety Boats See note v</td>
<td>Level 50 Buoyancy aids to be worn</td>
<td></td>
<td>Level 150 Lifejackets to be worn</td>
<td></td>
</tr>
</tbody>
</table>

*The Scout Association*

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• **NOTE i**: For definitions of each activity please refer to the activity factsheet for the activity.

• **NOTE ii**: In certain capsize situations with a low boomed sailing dinghy, it is possible for the collar of a lifejacket to cause the wearer to become trapped under the sail. All sail people should be aware of this problem and be ready to offer quick assistance in the event of such a problem.

• **NOTE iii**: When paddling or board sailing on B3 or A Class Tidal Waters, all Members of the Movement must wear an approved buoyancy aid of the type with no inherent buoyancy capable of inflation to 150 Newton or a lifejacket with inherent buoyancy and capable of inflation to full 150 Newton buoyancy.

• **NOTE iv**: When white water rafting in rubber rafts on inland water specification B3 or A, a buoyancy aid should be worn for added protection in the event of being ejected into the moving water.

• **NOTE v**: When operating as a safety boat the category refers to fast craft, typically rigid inflatable or dory, this does not include displacement boats used for general escort duty.

  Such safety boats should have minimum of 2 crew and a spare dead mans key on board.

• **NOTE vi**: When actually racing under the auspices of the British Dragon Boat Racing Association the requirement to wear a buoyancy aid may be relaxed for the paddlers. The drummer and the steersman must wear a buoyancy aid at all times.

• **NOTE vii**: Where lifejackets are to be carried, they should be worn as directed by the permit holder. This decision should take into consideration the weather and water conditions, local hazards, the age, ability and experience of the crew.

• **NOTE viii**: Safety harnesses should be worn during the hours of darkness and at the direction of the permit holder.