BRIDGEWORKS - PLA ARCH CLOSURE SIGNAGE

Technical Specifications:

Arch closure signage within the Port of London Authority is required to ensure compliance with Thames Byelaws 2012, specifically:

Thames Byelaw 36. BRIDGES – SIGNALS IN ARCHES OR SPANS

36.1 When the arch or span of a bridge is closed to navigation, the person in control of the bridge must display at or as close to the centre as practicable of that arch or span, or in a position agreed with the harbourmaster:

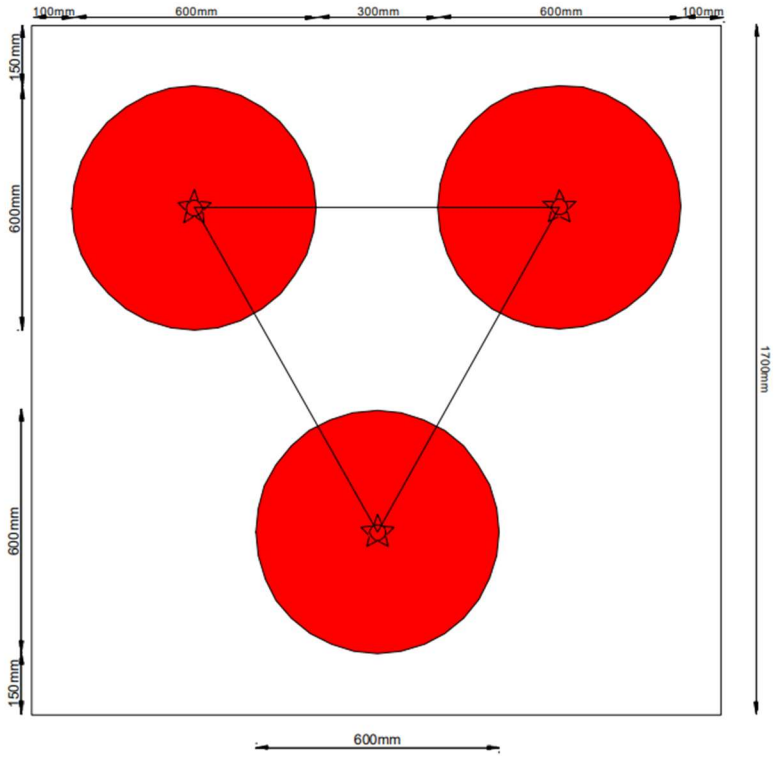
a) by day, three red discs 0.6 metres in diameter at the points of an equilateral triangle with the apex downwards and the base horizontal; and

b) by night, three red lights in similar positions to the discs displayed by day.

This document provides details regarding the technical specifications of signage, including, construction and sizing, positioning & SMART signals.

Construction and Sizing

Arch closure signage shall be meet the dimensions as shown below:



☆ Red Light

Construction Description:

The red disks shall be backed on a white board with a height and width of 1.7m, unless otherwise approved by the Harbour Master.

By night:

- Three red lights should be clearly visible in positions aligned with the centre of the disks.
- The minimum range of visibility of these lights shall be:
    - 1 Nautical Mile upstream of Thames Barrier and all creeks.
    - 3 Nautical Miles downstream of Thames Barrier (excluding creeks)
    - 5 Nautical Miles downstream of Queen Elizabeth II Bridge (excluding creeks)
- Lights should be unobstructed and clearly sighted from the river.

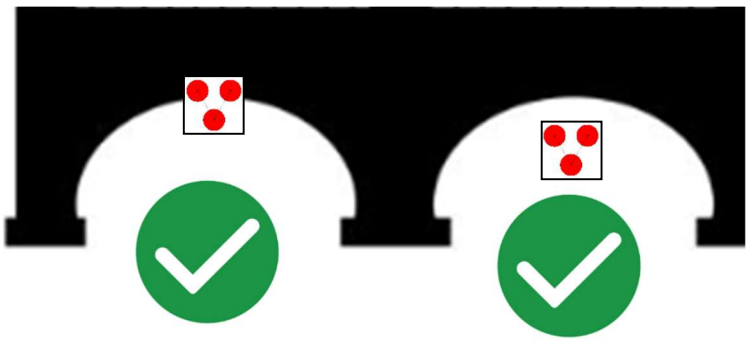
Arch Closure Signage Positioning

The positioning of signs must be considered very carefully to ensure that they are clearly visible to river users while not unnecessarily restricting sight lines through the arch. To ensure this, closure signage shall:

- be positioned centrally on the arch.
- be shown on both the upstream and downstream aspects of the bridge.
- break the silhouette the arch.
- at least 50% of the sign should extend below the bridge superstructure.

If more than one arch is closed. Each arch must have its own arch closure signage.

Positioning examples:



At least 50% of the sign is breaking the arch

100% of the sign is breaking the arch

Less than least 50% of the sign is breaking the arch.

Sign is not central.

Sign is upside down. The apex should be down.

SMART signals

On bridge arches where SMART signals are fitted these may be used to indicate an arch closure.