MINIMUM LIGHTING FOR FIXED BRIDGES

33 CFR 118.65

MAIN CHANNEL-180˚ WHITE, 3 LIGHTS IN VERTICAL LINE (60˚—180˚ ON BRIDGES LIGHTED PRIOR TO JAN. 1, 1953, UNTIL LIGHTS ARE REPAIRED OR REPLACED).

PIER—180˚ RED

CHANNEL MARGIN—180˚ RED

MAIN CHANNEL-180˚ WHITE, 3 LIGHTS IN VERTICAL LINE (60˚—180˚ ON BRIDGES LIGHTED PRIOR TO JAN. 1, 1953, UNTIL LIGHTS ARE REPAIRED OR REPLACED).
LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY

A
SWING SPAN—ALTERNATE RED (2) AND GREEN (2), EACH 60° AND AT 90° BETWEEN RED AND GREEN.

B
C
PIER—180° RED

D
AXIS—180° RED, MAY BE OMITTED WHEN DRAW AND PROTECTION PIERS ARE STRAIGHT ON THEIR CHANNEL FACES.
LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY

A  DRAW SPAN—ALTERNATE RED (2) AND GREEN (2), EACH 60˚ AND AT 90˚ TO EACH OTHER.

B  PIER OR ABUTMENT—180˚ RED

C  AT CENTERLINE OF THE NAVIGATION CHANNEL DRAWSPAN OF FLOATING DRAWBRIDGES, DIAMOND IN SHAPE, YELLOW IN COLOR WITH HIGH INTENSITY RETROREFLECTIVE MATERIAL BORDER AND MAY EXHIBIT A MORSE CODE B YELLOW LIGHT. THE MARK SHALL NOT BE VISIBLE WHEN THE DRAWSPAN IS IN THE OPEN POSITION. (33 CFR 118.110(c)).

D  RETRACTABLE PONTOON
   —DRAWSPAN CLOSED—180˚ RED
   —DRAWSPAN OPEN—180˚ GREEN

E  RETRACTABLE PONTOON
   —DRAWSPAN CLOSED—180˚ RED
   —DRAWSPAN—LIGHT OFF
LIGHT COLORS
AND
ARCS OF VISIBILITY

PIER—180˚ RED.

AXIS—180˚ RED
MAY BE OMITTED WHEN DRAW AND
PROTECTION PIERS ARE STRAIGHT ON
THEIR CHANNEL FACES.

LIFT SPAN—180˚ GREEN WHEN LIFT
SPAN IS FULLY OPEN FOR NAVIGATION,
180˚ RED FOR ALL OTHER POSITIONS OF
LIFT SPAN (60˚ OR LESS GREEN AND
RED PERMITTED ON BRIDGES LIGHTED
PRIOR TO JAN. 1, 1949, UNTIL LIGHTS
ARE REPAIRED OR REPLACED).

DEPARTMENT OF HOMELAND SECURITY
UNITED STATES COAST GUARD
BRIDGE ADMINISTRATION DIVISION
MINIMUM LIGHTING FOR BASCULE BRIDGES
33 CFR 118.80
LIFT SPAN—360° GREEN WHEN LIFT SPAN IS FULLY OPEN FOR NAVIGATION, 180° RED FOR ALL OTHER POSITIONS OF LIFT SPAN (180° GREEN AND RED PERMITTED ON BRIDGES LIGHTED PRIOR TO JAN 1, 1949, UNTIL LIGHTS ARE REPAIRED OR REPLACED).

PIER—180° RED

AXIS—180° RED. MAY BE OMITTED WHEN LIFT AND PROTECTION PIERS ARE STRAIGHT ON THEIR CHANNEL FACES.
PANEL SIZE AND COLORS

A  GREEN SQUARE RETROREFLECTIVE PANELS SHALL BE USED. THE PANELS SHALL BE AT LEAST 36 SQUARE INCHES IN AREA TO PROVIDE A NOMINAL NIGHTTIME VISIBILITY DISTANCE OF AT LEAST ONE-HALF MILE.

B  RED TRIANGULAR RETROREFLECTIVE PANELS SHALL BE USED. THE PANELS SHALL BE AT LEAST 36 SQUARE INCHES IN AREA TO PROVIDE A NOMINAL NIGHTTIME VISIBILITY DISTANCE OF AT LEAST ONE-HALF MILE.

NOTE: RETROREFLECTIVE PANELS MAY ALSO BE REQUIRED OR AUTHORIZED AS A BACK UP FOR BRIDGE LIGHTING (SEE 33 CFR 118.100(b)).
LIGHT AND PANEL COLORS AND HORIZONTAL ARCS OF VISIBILITY

A  CHANNEL MARGIN OR PIER—180° QUICK FLASHING, FLASHING, ISOPHASE OR OCCULTING GREEN LIGHT
B  SAFE WATER MARK—OCTAGONAL IN SHAPE AT CENTERLINE OF CHANNEL WITH RETROREFLECTIVE WHITE BORDER. MAY BE LIGHTED
C  CHANNEL MARGIN OR PIER—180° QUICK FLASHING, FLASHING, ISOPHASE OR OCCULTING RED LIGHT
D  ADJACENT PIER—180° FIXED YELLOW LIGHT ONLY
E  CHANNEL MARGIN OR PIER—GREEN SQUARE PANEL. MAY BE LIGHTED
F  MAIN CHANNEL CENTERLINE—180° OCCULTING WHITE LIGHT ONLY
G  CHANNEL MARGIN OR PIER—180° QUICK FLASHING, FLASHING, ISOPHASE OR OCCULTING RED LIGHT
RECOMMENDED MINIMUM DISTANCE FROM PIER - 20 METERS

SIGNAL LOCATIONS, LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY

A. RADAR REFLECTOR (ON STAKES, BUOYS)
   LOCATED AT THE EDGES OF A NAVIGATION CHANNEL

B. RACON, LOCATED AT THE CENTERLINE OF A BRIDGE CHANNEL

C. QUICK FLASHING RED LIGHTS ON EACH LOWER CORNER

D. GAUGE SCALED IN FEET FROM LOW STEEL. MUST COMPLY WITH 33 CFR 118.160, VERTICAL CLEARANCE GAUGES
NOTE: SIZE, TYPE AND SPACING OF NUMERALS SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION "STANDARD ALPHABET FOR HIGHWAY SIGNS"

W WIDTH OF WIDEST SINGLE NUMERAL EXCLUDING NUMERAL 4

H HEIGHT OF NUMERAL PRESCRIBED FOR DISTANCE VISIBILITY

A WIDTH OF STROKE
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<tr>
<th>NUMERAL HEIGHT (INCHES)</th>
<th>CLEARANCE FROM LOW STEEL (FEET)</th>
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