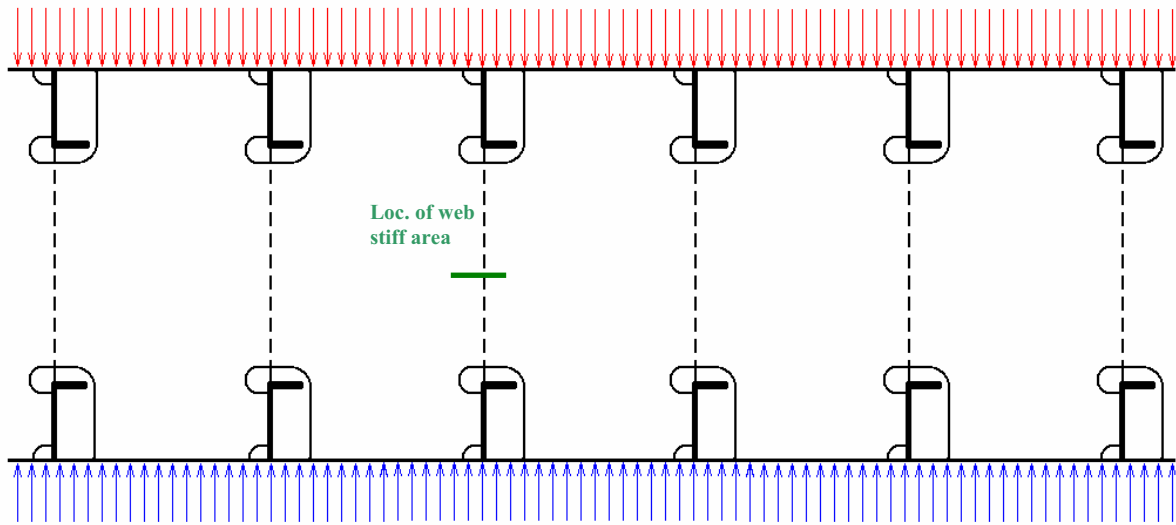


KC#493-1

Internal pressures



External pressures

KC#493 Technical background

The combined effect of external and internal pressures applied on ordinary stiffeners depends on the position of the stiffener as specified in CSR BC Chapter 6 – Section 1 – [1.3].

Elements of the outer shell

Two cases are to be considered:

1. the stiffener is located below the waterline

- a. the compartment is empty: only the external still water and wave pressures are considered.
- b. the compartment is intended to carry liquids: the internal still water and wave pressures are to be reduced by the external still water and wave pressures

The external pressures are to be set in accordance with the draught that matches the loading condition to be assessed.

2. the stiffener is located above the waterline

only the still water and wave internal pressures are to be considered.

Other elements

If the stiffener is attached to an element that separates two adjacent compartments, then the pressures to be considered are the still water and wave lateral pressures of each compartment individually loaded.