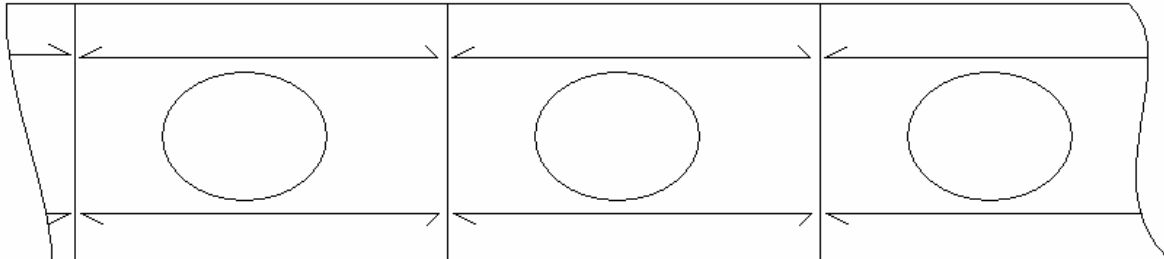


Sniped stiffeners, requirement to buckling capacity.

The CSR Ch. 6 Sec. 3.4 gives requirement to the buckling capacity of “longitudinal and transverse ordinary stiffeners of partial and total plate panels”. According to Ch. 3 Sec. 6 we understand that “ordinary stiffeners” does not address sniped buckling stiffeners of primary supporting members.

a) Please explain whether Ch. 6 Sec. 3.4 is applicable to e.g. the sniped flat bars of a longitudinal double bottom girder as shown below.



b) Ch. 6 Sec. 2 is giving minimum requirements to ordinary stiffeners. Please advice if this requirement is applicable to sniped buckling stiffeners as shown above.

If above items a) and b) are not applicable for buckling stiffeners, please comment on the following interpretation.

Buckling stiffeners are subject to the following requirements in CSR Bulk:

1. Ch. 3 Sec. 6 Sec. 5.2.1. $h_{\text{stiffener}} > l_{\text{stiffener}}/12$ and $t_{\text{netStiffener}} > t_{\text{minimumGirderWeb}}$.
2. Ch. 6 Sec. 2 4.1.2 “Net section modulus of web stiffeners of non-watertight primary supporting members”

Please advise if the above item 1 is referring to the minimum thickness of the girder web or the load thickness of the girder web.

Please also explain what is meant by the unclear expression; “web stiffener mid-height” as stated in Ch.6 Sec.2 4.1.1 which reads; “their net sectional area at the web stiffener mid-height is to be not less than ---”.