

- Quote for immediate reference

1. CSR BC Rule, Ch.3 Sec.6/8.4.1

8.4 Upper and lower brackets

8.4.1

The face plates or flange of the brackets is to be sniped at both ends.

Brackets are to be arranged with soft toes.

The as-built thickness of the brackets is to be not less than the as-built thickness of the side frame webs to which they are connected.

2. CSR BC Rule, Ch.6 Sec.2/3.3.3

3.3.3 Lower bracket of side frame

In addition, at the level of lower bracket as shown in Ch 3, Sec 6, Fig 19, the net section modulus of the frame and bracket, or integral bracket, with associated shell plating, is to be not less than twice the net section modulus w required for the frame mid-span area obtained from [3.3.1].

The net thickness t_{LB} of the frame lower bracket, in mm, is to be not less than the net thickness of the side frame web plus 1.5 mm.

3. IACS UR S12 (Rev 4)

S12.4 - Lower and upper brackets

The thickness of the frame lower brackets is not to be less than the greater of t_w and $t_{w,min} + 2 \text{ mm}$, where t_w is the fitted thickness of the side frame web. The thickness of the frame upper bracket is not to be less than the greater of t_w and $t_{w,min}$.

- Unquote

Comments:

1. It is considered CSR BC Rule, Ch.3, Sec.6/8.4.1 is equivalent to “The thickness of the frame lower brackets is not to be less than the greater of t_w , where t_w is the fitted thickness of the side frame web.” in IACS UR S12.

2. It is also considered “the net thickness of the side frame web plus 1.5mm” in CSR BC Rule, Ch.6, Sec.2/3.3.3 is equivalent to “ $t_{w,min}+2 \text{ mm}$ ” in IACS UR S12. (Underlined in red)

3. As such, CSR BC Rule, Ch.6, Sec.2/3.3.3 is recommended to be changed to “..... the net **minimum** thickness **defined in Ch.6 Sec.2/2.2.2** of the side frame web plus 1.5mm.”