

<b>Agenda Item:</b>		<b>650-1110</b>
<b>Title:</b>	<b>Define <math>b_{min}</math> in Figure 5.25</b>	
<b>Date:</b>	05-22-22	
<b>Contact:</b>	Name:	David Rosenkrantz
	Company:	Access Engineering
	Phone:	610 349-4429
	E-mail:	DavidR@Fast.net
<b>Purpose 1:</b>	To add clarity to Figure 5.25 when the top wind girder is used as a walkway or otherwise increased in width beyond that required to achieve the calculated section modulus.	
<b>Purpose 2:</b>	To fix Figure 5.24 Detail e – adding underside stiffener to shell weld	
<b>Source:</b>	SGD Doug Bayles Spring 2022 Meeting	
<b>Revision:</b>	0	
<b>Impact:</b>	Potentially significant cost savings in the top stiffener when it is used as a walkway	
<b>Rationale:</b>	Add clarity to the standard	
<b>History:</b>	None	
<b>References:</b>	Figure 5.24, Table 5.19, Sections 5.9.5.3 and 5.9.5.5, Figure 5.24, Section 5.5.5.8	
<b>Discussion 1:</b>	<p>5.9.5.7 includes this: The stiffening members shall extend beyond the end of the opening for a distance greater than or equal to the minimum depth of the regular ring sections.</p> <p>5.9.5.6 includes this: A top wind girder or any portion of it that is specified as a walkway shall have a width not less than 710 mm (28 in.)...</p> <p>Although the "min" in <math>b_{min}</math> suggests the reader choose the lowest value of all choices, it is not crystal clear how to choose, and I can see where the minimum width could be either, or the greater of the two, or the lesser of the two.</p> <p>Note that Figure 5.25 includes a "b" dimension and a "<math>b_{min}</math>" dimension. "b" is defined in Table 5.19 but not "<math>b_{min}</math>"</p>	
<b>Change 1:</b>	<p>Add note 6 to Figure 5.25 as follows:</p> <p>6. <math>b_{min}</math> is the minimum required stiffening ring width, chosen from Table 5.19 to satisfy Z as calculated in 5.9.5.3 and/or 5.9.5.5</p>	

<b>Discussion 2:</b>	<p>Per 5.1.5.8 the topside weld is a “continuous” weld while the underside weld is a “seal” weld unless otherwise specified by the purchaser. Per 5.1.3.6.2 the purchaser may elect to use intermittent welding and Annex L Section 11 includes an option for intermittent welding.</p> <p>Some of the illustration only show a topside weld even though an underside weld is required, whether it be a seal weld or an intermittent weld.</p>
<b>Change 2:</b>	<p>The original Figure 5.24 shows only a topside weld in three of the details b, c and e.</p> <p>See new Figure 5.24 with underside welds shown. The new underside welds are shown 75% of their corresponding topside welds to distinguish between “continuous” topside welds and “seal” or “intermittent” underside welds.</p>

