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 revisor..... Panenka  
 revision.....  
 prod.number...

184drawing..... Bassin BF4  
 order..... Diesel Storage Tank  
 order number.. 5.7638  
 commission....

axial load				element
report necessary ?		--	yes	4.2/5.3/6.2/7.2
report possible ?		--	yes	
cylinder class		--	sh/mdl	4.2/5.3/6.2/7.2
coefficient Cx	Cx	--	1.0	4.2/5.3/6.2/7.2
id. buckling stress	$\sigma_{Si}$	N/mm <sup>2</sup>	54.4	4.2/5.3/6.2
rel. slenderness	$\xi Sx$	--	2.6	eq.1
reduction factor	$\alpha x$	--	0.0	eq.8
reduc. reduction factor	$\alpha x$	--	0.0	(305)
real buckling stress	$\sigma_{SRk}$	N/mm <sup>2</sup>	10.9	eq.4
safety coefficient	$\gamma Mx$	--	1.5	eq.13
limit for buckling stress	$\sigma_{SRd}$	N/mm <sup>2</sup>	7.5	eq.9
max. membrane stress	$\sigma x$	N/mm <sup>2</sup>	0.8	with $\gamma F$
ratio	$\sigma x / \sigma d$	--	0.102	eq.14

circumferential load				element
report necessary ?		--	yes	4.2/5.3/6.2/7.2
report possible ?		--	yes	
pseudo class for 3-round cyl.		--	sh/mdl	4.2/5.3/6.2/7.2
coefficient	Cf	--	1.2	4.2/5.3/6.2/7.2
max. ideal buckl. stress	$\sigma_{fSi}$	N/mm <sup>2</sup>	12.6	4.2/5.3/6.2/7.2
related slenderness	$\xi Sf$	--	5.30	eq.2
reduction factor	$\alpha f$	--	0.02	eq.7/8
reduced reduction factor	$\alpha f$	--	0.02	(305)
real buckling stress	$\sigma_{fSRk}$	N/mm <sup>2</sup>	8.2	eq.5
safety coefficient	$\gamma Mf$	--	1.1	eq.12/13
limit for buckling stress	$\sigma_{fSRd}$	N/mm <sup>2</sup>	7.5	eq.10
max. membrane stress	$\sigma f$	--	4.6	with $\gamma F$
ratio	$\sigma f / \sigma d$	--	0.618	eq.15

combined loads				element
ratio		--	0.605	eq.50