PROCESS ENGINEERING

API650 STORAGE TANK IDEAL SIZE Vs SHELL COURSE THICKNESS

INPUT DATA PGM RUN

* Item Name	E-1004		* Description	PES21	
Tanks-Diameter,D	21000	mm	Tanks Height,H	14000	mm
Specific Gravity,G	0.96		Joint Efficiency	0.85	
Material	A36		Normal Operating Level,NL	13000	mm
			Low Level,LL	600	mm

RESULT OF CALCULATION

STORAGE TANK VOLUME

Full Capacity	4,849.0	m^3	Operating Volume @NL	4,502.7	m^3
Volume @ Low Level	207.8	m^3	Net Volume Between NL to LL	4,294.9	m^3

REQUIRED THICKNESS / MAX. ALLOWABLE HEIGHT

Max. Allowable Height	15240	mm	Allowable Stresss,S	23,200	psi
			Calculated thickness, t=2.6D (H-1)*G/(E*S)	10	mm

STANDARD SHELL COURSE THICKNESS (Based on ASTM A36)

Shell thickness-1 Course	6	mm	Shell thickness-5 Course	11	mm
Shell thickness-2 Course	6	mm	Shell thickness-6 Course	13	mm
Shell thickness-3 Course	6	mm	Shell thickness-7 Course		mm
Shell thickness-4 Course	9	mm	Shell thickness-8 Course		mm

*Shell course width is based on 2438mm

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