

**API STANDARD 650  
STORAGE TANK  
DATA SHEET**

DATE May 17, 2016  
BY \_\_\_\_\_  
FILE NO. \_\_\_\_\_  
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APPURTENANCES (TO BE COMPLETED BY MANUFACTURER AND/OR PURCHASER)

1. PURCHASER/AGENT ADDRESS _____		CITY _____ PROV/STATE _____		PC/ZIP _____	PHONE _____
2. USER _____					
3. ERECTION SITE: NAME OF PLANT _____		LOCATION _____			
4. TANK NO. _____		NOMINAL CAPACITY _____ m <sup>3</sup> (bbl)		NET WORKING CAPACITY _____ m <sup>3</sup> (bbl)	
PUMPING RATES: IN _____		m <sup>3</sup> /h (bbl/h)		OUT _____ m <sup>3</sup> /h(bbl/h)	
6. MAXIMUM OPERATING TEMPERATURE _____		°C (°F)		DESIGN SPECIFIC GRAVITY _____ AT _____ °C (°F)	
7. PRODUCT STORED: DESIGN METAL TEMPERATURE _____		°C (°F)		VAPOR PRESSURE _____ kPa (in. water)	
8. CORROSION ALLOWAN... SHELL _____		mm(in.)		ROOF _____ mm (in.)	
BOTTOM _____		mm/in)		STRUCTURALS _____ mm (in.)	
9. SHELL DESIGN: <input type="checkbox"/> BASIC STANDARD 6		<input type="checkbox"/> APPENDIX A		<input type="checkbox"/> APPENDIX F	
DESIGN PRESSURE _____		kPa (lbf/in. <sup>2</sup> )		DESIGN PRESSURE _____	
10. ROOF DESIGN: <input type="checkbox"/> BASIC STANDARD 65		<input type="checkbox"/> APPENDIX C (EXTERNAL FLOATIN		<input type="checkbox"/> APPENDIX C (EXTERNAL FLOATIN	
<input type="checkbox"/> APPENDIX G (ALUMINUM DON		<input type="checkbox"/> APPENDIX H (INTERNAL FLOATIN		<input type="checkbox"/> APPENDIX H (INTERNAL FLOATIN	
FRANGIBLE ROOF JOINT? <input type="checkbox"/> YES		<input type="checkbox"/> NO		<input type="checkbox"/> NOTE FOR SHOP TAN	
11. ROOF DESIGN INFORMATION					
UNIFORM LIVE LOAD _____		kPa (lbf/in. <sup>2</sup> )		kPa (lbf/in. <sup>2</sup> )	
SPECIAL LOADS (PROVIDE) SKET... _____		kPa (lbf/in. <sup>2</sup> )		kPa (lbf/in. <sup>2</sup> )	
INSULATION LOAD _____		kPa (lbf/in. <sup>2</sup> )		kPa (lbf/in. <sup>2</sup> )	
MAXIMUM DESIGN ROOF TEMPERATURE _____		°C (°F)		MAXIMUM DESIGN ROOF TEMPERATURE _____	
GASES IN THE VAPOR SPA...					
12. EARTHQUAKE DESIGN? <input type="checkbox"/> YES		<input type="checkbox"/> NO (APPENDIX B)		ROOF TIE RODS (3,10,4,5)? <input type="checkbox"/> YES <input type="checkbox"/> NO	
SEISMIC ZONE _____		km/h (mph)		IMPORTANCE FACTOR _____	
ZONE FACTOR (TABLE E-2) _____		km/h (mph)		SITE COEFFICIENT (TABLE E-3) _____	
13. WIND LOAD: VELOCITY _____		<input type="checkbox"/> YES <input type="checkbox"/> NO		km/h (mph)	
PROVIDE INTERMEDIATE WIND GIRDER (3.9....)		km/h (mph)		km/h (mph)	
14. ENVIRONMENTAL EFFECTS: MAXIMUM RAINFALL _____ mm/h (in./h)					
TOTAL SNOW ACCUMULATIO... _____		mm (in.)		mm (in.)	
15. SIZE RESTRICTIONS MAXIMUM DIAMETER _____ m (ft)		MAXIMUM HEIGHT _____ m (ft)		MAXIMUM HEIGHT _____ m (ft)	
16. FOUNDATION TYPE: <input type="checkbox"/> EARTH <input type="checkbox"/> CONCRETE RINGWA		<input type="checkbox"/> OTHER		REMARKS _____	

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**CONSTRUCTION DETAILS (TO BE COMPLETED BY MANUFACTURER AND/OR PURCHASER)**

1. MANUFACTURER	ADDRESS _____				
	CITY _____	PROV/STATE _____	PC/ZIP _____	PHONE _____	
	SERIAL NO. _____				
2. FABRICATOR	ADDRESS _____				
	CITY _____	PROV/STATE _____	PC/ZIP _____	PHONE _____	
	SERIAL N... _____				
3. MATERIAL SPECIFICATIONS SHELL	ROOF _____				
	BOTTOM _____				
	STRUCTURALS _____				
4. NO. OF SHELL COURS...	_____				
5. PLATE WIDTHS AND THICKNESSES (INCLUDING CORROSION ALLOWANCE), IN mm...	_____				
1. _____	4. _____	7. _____	_____		
2. _____	5. _____	8. _____	_____		
3. _____	6. _____	9. _____	_____		
6. TANK BOTTOM: PLATE THICKNESS	mm(in.)		<input type="checkbox"/> LAP	<input type="checkbox"/> BUTT	SEAMS
SLOPE	mm/m (in/ft)		<input type="checkbox"/> TO	<input type="checkbox"/> FROM	CENTER
7. MINIMUM WIDTH AND THICKNESS OF BOTTOM ANNULAR PLATES (3.5) IN mm ...	_____				
8. ROOF-TO-SHELL DETAIL (FIGURE F...)	_____				
9. INTERMEDIATE WIND GIRDER?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	TOP WIND GIRDER FOR USE AS WALKWAY?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
10. ROOF TYPE:	<input type="checkbox"/> SUPPORTED <input type="checkbox"/> SELF-SUPPORTER <input type="checkbox"/> FLOATING				
SLOPE OR RAD... mm (i...)	_____				
11. ROOF PLATE: THICKNESS	mm (i...)		<input type="checkbox"/> LAP	<input type="checkbox"/> BUTT	<input type="checkbox"/> JOINT
12. PAINT:	_____				
SHELL-- EXTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	INTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
SURFACE PREPARATION					
BOTTOM-- UNDERSIDE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	INTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
SURFACE PREPARATION					
STRUCTURAL STEEL-- EXTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	INTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
SPECIFICATION					
13. TANK BOTTOM COATING: INTERIOR?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	MATERIAL		
APPLICATION SPECIFICATION					
14. INSPECTION BY: SHOP	FIELD				
15. WELD EXAMINATION: RADIOPH	GRAPH				
SUPPLEMENTARY LIQUID PENETRANT OR ULTRASONIC					
16. FILMS	PROPERTY OF				
17. LEAK TESTING: BOTTOM	ROOF				
SHELL	_____				
18. MILL TEST REPORTS: REQUIRED?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	STRUCTURAL SHAPES		
PLATE	_____				
19. PURCHASER'S REFERENCE DRAWING	_____				
20. TANK SIZE: DIAMETER	m (ft)		HEIGHT	m (ft)	
21. DATE OF STANDARD 6...	_____				
REMARKS	_____				
	_____				
	_____				

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APPURTENCES (TO BE COMPLETED BY MANUFACTURER AND/OR PURCHASER)				
1. STAIRWAY STYLE:	<input type="checkbox"/> CIRCULAR	<input type="checkbox"/> STRAIGHT		
2. WALKWAY:	WIDTH	mm (in)	LENGTH	m (ft)
3. DRAWDOWN SUMP:	STANDARD			
4. BOLTED DOOR SHEET?	<input type="checkbox"/> YES	<input type="checkbox"/> NO (APPENDIX a TANKS ONLY)	<input type="checkbox"/> RAISED	<input type="checkbox"/> FLUSH
5. SCAFFOLD HITCH				
6. INTERNAL PIPING:	SWING LINE	SUCTION LINE		
	HEATING COIL SURFACE AREA	m <sup>2</sup> (ft <sup>2</sup> )		
7. ROOF DRAIN:	HOSE	JOINTED		
	SIPHON			
8. NO. AND SIZE OF SHELL MANHOLES				
9. NO. AND SIZE OF ROOF MANHOLES				
10. SHELL NOZZLES (SEE FIGURES 3-4B, 3-5, AND 3-7 AND TABLES 3-8, 3-9, AND 3-10)				

## 11. ROOF NOZZLES, INCLUDING VENTING CONNECTION (SEE FIGURES 3-14 AND 3-15 AND TABLES 3-16 AND 3-17)

NOTE: SKETCHES AND/OR SEPARATE SHEETS MAY BE ATTACHED TO COVER SPECIAL REQUIREMENTS.