



July 21, 2021

Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson Avenue
Oklahoma City, OK 73101-1677

Attn: Ms. Hilary Young, P.E.
Chief Engineer – Land Protection Division

**RE: Response to Draft Permit Comments Notice of Deficiency No. 2
Dated July 2, 2021
Tier II Permit Application
City of Ada Transfer Station
Ada, Pontotoc County, Oklahoma
CEC Project No.: 183-660**

Dear Ms. Young:

On behalf of the City of Ada, Civil & Environmental Consultants, Inc. (CEC) is responding to the Draft Permit Comments Notice of Deficiency Number 2, dated July 2, 2021 from the Oklahoma Department of Environmental Quality (ODEQ) for the Tier II Permit Application that was originally submitted on August 15, 2019, and the first response to Notice of Deficiency comments submitted April 27, 2021. Comments received from ODEQ as well as CEC's responses are listed below.

ODEQ Comment No. 1: Aesthetic enhancement. The NOD response specifies the number, type, and spacing of trees and for shrubs that will be planted on the north side of the property for purposes of aesthetic enhancement. Further, 6-foot tall berms will be constructed to provide additional visual screening. The NOD response also indicates that the entrance to the transfer station will undergo professional landscaping. Please ensure the trees and/or shrubs are a species capable of providing dense vegetation for visual screening year-round. Please also consider whether the visual enhancement features on the north side of the property can serve the dual purpose of preventing the transmission of dust and noise beyond the property boundary. With these considerations, this item is resolved.

Response: Noted.

ODEQ Comment No. 2: Disclosure statement. This item has been resolved.

Response: Noted.

ODEQ Comment No. 3: Leachate storage. The NOD response includes an estimate of the amount of leachate generated at the transfer station, as requested. However, the NOD response proposes to pump leachate from the transfer station manhole to an onsite, double-walled, above-ground storage tank rather than pumping leachate to the City of Ada Landfill as proposed in the original application.

Please note, OAC 252:515-13-52(a) requires above-ground leachate storage tanks to be equipped with: (1) adequate berming to contain the entire contents of the tank; and either (2) a composite liner system beneath the tank; or (3) a DEQ-approved alternative liner beneath the tank that will prevent the infiltration of fluid. These requirements were not addressed in the NOD response.

In addition to the leachate storage tank requirements above, please specify how the leachate will be disposed after it is removed from the tank. In accordance with OAC 252:515-13- 55, leachate may be disposed at a POTW provided prior written approval from the POTW has been obtained and a copy submitted to DEQ.

Response: The proposed above ground leachate storage tank will be a 5,250 gallon doublewall tank (IMT5250) manufactured by Assmann, or an approved equivalent. The IMT5250 doublewall tank will satisfy the requirements of OAC 252:515-13-52(a). The primary tank has a storage capacity of 5,252.99 gallons, and the secondary tank has a capacity 146% greater than the primary tank at 7,690.26 gallons (Attachment 1). Both tanks are comprised of crosslinked polyethylene with a thickness equal to or greater than that required by ASTM D-1998. The tank will be equipped with an ultrasonic level indicator and high level alarms for the primary tank, and a leak detection system that includes both audio and visual alarms if liquid is detected

within the interstitial space between the primary and secondary tank (Attachment 2).

The City of Ada will provide additional information on off-site disposal of the leachate at their wastewater treatment plant under separate cover.

ODEQ Comment No. 4: Air criteria. This item has been resolved.

Response: Noted.

We trust that these responses meet your requirements. If you have any other questions or comments, please do not hesitate to contact the undersigned either by phone at (405) 463-7607 or by email at jshepherd@cecinc.com.

Sincerely Yours
Civil & Environmental Consultants, Inc.



Jeff A. Shepherd, P.E.
Principal



Response to Draft Permit Comments Notice of Deficiency
Dated December 1, 2020
Tier II Permit Application
City of Ada Transfer Station
Ada, Pontotoc County, Oklahoma
CEC Project No.: 183-660

ATTACHMENT NO. 1
IMT5250 Doublewall Tank Gallonage Charts for Primary and Secondary Containment



CORPORATION OF AMERICA

300 NORTH TAYLOR ROAD GARRETT, IN 46738 TEL-888-357-3181 FAX (260) 357-3738

Doublewall Tank Gallonage Chart

Tank Dia.		111		IMT 5250X19				ACA Model #			
Body Height		129.5		PRIMARY TANK				IMT5250			
Wall Thickness		0.78		Inches		Gallons		Inches		Gallons	
Specific Gravity		1.9		Inches		Gallons		Inches		Gallons	
1	40.72	30	1221.63	59	2402.53	88	3583.44	117	4764.34		
2	81.44	31	1262.35	60	2443.25	89	3624.16	118	4805.07		
3	122.16	32	1303.07	61	2483.97	90	3664.88	119	4845.79		
4	162.88	33	1343.79	62	2524.70	91	3705.60	120	4886.51		
5	203.60	34	1384.51	63	2565.42	92	3746.32	121	4927.23		
6	244.33	35	1425.23	64	2606.14	93	3787.04	122	4967.95		
7	285.05	36	1465.95	65	2646.86	94	3827.76	123	5008.67		
8	325.77	37	1506.67	66	2687.58	95	3868.48	124	5049.39		
9	366.49	38	1547.39	67	2728.30	96	3909.21	125	5090.11		
10	407.21	39	1588.11	68	2769.02	97	3949.93	126	5130.83		
11	447.93	40	1628.84	69	2809.74	98	3990.65	127	5171.55		
12	488.65	41	1669.56	70	2850.46	99	4031.37	128	5212.27		
13	529.37	42	1710.28	71	2891.18	100	4072.09	129	5252.99		
14	570.09	43	1751.00	72	2931.90	101	4112.81				
15	610.81	44	1791.72	73	2972.62	102	4153.53				
16	651.53	45	1832.44	74	3013.35	103	4194.25				
17	692.26	46	1873.16	75	3054.07	104	4234.97				
18	732.98	47	1913.88	76	3094.79	105	4275.69				
19	773.70	48	1954.60	77	3135.51	106	4316.41				
20	814.42	49	1995.32	78	3176.23	107	4357.14				
21	855.14	50	2036.04	79	3216.95	108	4397.86				
22	895.86	51	2076.77	80	3257.67	109	4438.58				
23	936.58	52	2117.49	81	3298.39	110	4479.30				
24	977.30	53	2158.21	82	3339.11	111	4520.02				
25	1018.02	54	2198.93	83	3379.83	112	4560.74				
26	1058.74	55	2239.65	84	3420.55	113	4601.46				
27	1099.46	56	2280.37	85	3461.28	114	4642.18				
28	1140.18	57	2321.09	86	3502.00	115	4682.90				
29	1180.91	58	2361.81	87	3542.72	116	4723.62				



CORPORATION OF AMERICA

300 NORTH TAYLOR ROAD GARRETT, IN 46738 TEL-888-357-3181 FAX (260) 357-3738

DOUBLE WALL Tank Gallonage Chart

Tank Dia.		119		IMT 5250 SECONDARY CONTAINMENT				ACA Model #	
Body Height		130.5						IMT5250X1.9	
Wall Thickness		0.78							
Specific Gravity		1.9							
Inches	Gallons	Inches	Gallons	Inches	Gallons	Inches	Gallons	Inches	Gallons
1	46.89	30	1406.75	59	2766.62	88	4126.48	117	5486.34
2	93.78	31	1453.65	60	2813.51	89	4173.37	118	5533.24
3	140.68	32	1500.54	61	2860.40	90	4220.26	119	5580.13
4	187.57	33	1547.43	62	2907.29	91	4267.16	120	5627.02
5	234.46	34	1594.32	63	2954.19	92	4314.05	121	5673.91
6	281.35	35	1641.21	64	3001.08	93	4360.94	122	5720.80
7	328.24	36	1688.11	65	3047.97	94	4407.83	123	5767.70
8	375.13	37	1735.00	66	3094.86	95	4454.72	124	5814.59
9	422.03	38	1781.89	67	3141.75	96	4501.62	125	5861.48
10	468.92	39	1828.78	68	3188.64	97	4548.51	126	5908.37
11	515.81	40	1875.67	69	3235.54	98	4595.40	127	5955.26
12	562.70	41	1922.57	70	3282.43	99	4642.29	128	6002.15
13	609.59	42	1969.46	71	3329.32	100	4689.18	129	6049.05
14	656.49	43	2016.35	72	3376.21	101	4736.07	130	6095.94
15	703.38	44	2063.24	73	3423.10	102	4782.97	131	6142.83
16	750.27	45	2110.13	74	3470.00	103	4829.86	132	6189.72
17	797.16	46	2157.02	75	3516.89	104	4876.75	133	6236.61
18	844.05	47	2203.92	76	3563.78	105	4923.64	134	6283.51
19	890.94	48	2250.81	77	3610.67	106	4970.53	135	6330.40
20	937.84	49	2297.70	78	3657.56	107	5017.43	136	6377.29
21	984.73	50	2344.59	79	3704.45	108	5064.32	137	6424.18
22	1031.62	51	2391.48	80	3751.35	109	5111.21	138	6471.07
23	1078.51	52	2438.38	81	3798.24	110	5158.10	139	6517.96
24	1125.40	53	2485.27	82	3845.13	111	5204.99	140	6564.86
25	1172.30	54	2532.16	83	3892.02	112	5251.88	141	6611.75
26	1219.19	55	2579.05	84	3938.91	113	5298.78	142	6658.64
27	1266.08	56	2625.94	85	3985.81	114	5345.67	143	6705.53
28	1312.97	57	2672.83	86	4032.70	115	5392.56	144	6752.42
29	1359.86	58	2719.73	87	4079.59	116	5439.45	145	6799.32

Inches	Gallons
146	6846.21
147	6893.10
148	6939.99
149	6986.88
150	7033.77
151	7080.67
152	7127.56
153	7174.45
154	7221.34
155	7268.23
156	7315.13
157	7362.02
158	7408.91
159	7455.80
160	7502.69
161	7549.58
162	7596.48
163	7643.37
164	7690.26

Response to Technical Review Notice of Deficiency
Dated January 29, 2020
Tier II Permit Application
City of Ada Transfer Station
Ada, Pontotoc County, Oklahoma
CEC Project No.: 183-660

ATTACHMENT NO. 2
Assmann Manufacturing Specification for Double Wall Vertical Storage Tanks

Manufacturing Specification for Double Wall Vertical Storage Tanks

PART 1.0

SCOPE

Furnish (Qty) high density cross-linked polyethylene double wall storage tanks manufactured by Assmann Corporation of America, Garrett, IN (888) 357-3181 or approved equal, in accordance with the definitions given in ASTM D 1998-06 (polyethylene upright storage tanks). This specification covers polyethylene tanks manufactured in one-piece construction by rotational molding at our facility in Garrett, IN or Marshall, TX. The tanks within this specification are for above ground installation and are capable of containing contents at atmospheric pressure and temperature. Cross-linked tanks should not exceed 150 F during normal service. Tank capacity and model shall be listed within this specification.

PART 2.0

MATERIALS

2.1 Plastics

The tanks shall be molded from crosslinked polyethylene. The resin used for molding shall be Schulink XL350, as manufactured by A. Schulman, or approved equal. The plastic shall contain no fillers. All plastic shall contain a minimum of 0.3% U.V. stabilizers compound by the resin manufacturer. Pigments may be added as desired by the customer or as designated by the tank manufacturer, not to exceed 0.5%-dry blended and 0.2%-compounded in, of the total weight. The mechanical properties of the polyethylene shall include ESCR, condition A F50 results for 100% Igepal as defined in ASTM D1593 as well as the results using a 10% Igepal solution. Both test results must exceed 1000 hours of exposure with out failure. The tank manufacturer must supply a copy of the mechanical property table as provided by the resin manufacturer for the resin used to manufacture the specified polyethylene tank.

PART 3.0

TANK CONSTRUCTION

3.1 Design Parameters

The tanks shall be designed with a hoop stress value no greater then 600 PSI at 100 degrees F, with a safety factor of no less than 2. The Barlow Formula shall be used to calculating the wall thickness at the bottom sidewall or at the area of the tank that experiences the greatest head pressure. The manufacture shall produce the crosslinked polyethylene tank with verifiable uniform wall thickness throughout the entire surface area of vessel. The cross-linked tank shall have a minimum 70% crosslinking throughout and Gel Test results shall be provided by the manufacturer using the test method as defined in ASTM D 1998-06. The sample used for the test shall come from the lowest point possible on the sidewall of the tank. The vessel shall be air-cooled to ensure a consistent cure throughout the thickness of the part and reduce the stress caused by shrinkage.

3.2 Appearance

The finished surface shall be as free as commercially practical from visual defects such as foreign inclusions; air bubbles, pinholes, and craters. All edges where openings are cut into the tanks shall be trimmed smooth.

3.3 Dimensions and Tolerances

The tank diameter shall be measured externally. The tolerance on the outside diameter shall be plus or minus 3%. The measurement shall be taken with the tank in the vertical position. All tanks shall have a minimum 2" knuckle radius.

PART 4.0

DESCRIPTION OF VESSEL

4.1 Tank Design

The design of the vessel shall be vertical, flat bottom, closed top, and seamless in construction. The dome of the primary tank shall be larger in diameter than the diameter of the straight shell sidewall. The diameter of the secondary tank shall be the same as the diameter of the dome of the primary tank. The dome of the primary tank sitting inside the secondary tank shall provide a weather shield for the secondary tank restricting the elements from entering.

The outer tank shall be vertical, flat bottom, open top, and seamless in construction and shall have a minimum of four flats on the bottom sidewall that extend towards the center of the vessel providing a means to center the primary tank. The flats shall also provide an area for the placement of bottom discharge fittings. The flats shall also provide stability for the primary tank for installations that require seismic restraint systems.

The two vessels shall be fastened together with stainless steel hardware for shipping and handling and shall provide lifting devices for tank placement.

Wall thickness for both primary and secondary vessels will be uniform throughout and verifiable via wall thickness testing procedures. Thickness of top sidewall will be consistent with bottom sidewall.

Part 5.0

Accessories

5.1 Side Wall Fittings

Fitting shall pass through the sidewall of both the primary and secondary tank on the flats provided by the secondary tank. 1 each (insert size required) fitting shall pass through the sidewall of the primary and the secondary tank. The fitting shall be a metallic double male bolted style fitting. The metallic fitting shall be constructed out of material compatible with the tank contents. Fitting shall be constructed to an ANSI 150 LB flange bolt hole pattern. A single gasket shall be placed between the metallic fitting and the inside of the primary tank wall. A second gasket shall be installed between the outside of the primary tank and the inside of the secondary tank. All mounting hardware shall be compatible with the tank contents. The sidewall fitting shall be constructed in a manner as not to expose cross sections of walls as might otherwise result by installation of the fitting. Fitting shall be located on the lower sidewall of the storage tank on the recessed fitting placement flat. Tank shall be shipped with discharge nozzle installed. No additional fitting installation will be required onsite.

5.2 Dome Fittings

Tanks shall be equipped with three (3) molded in fitting placement flats. Molded in flats shall be at 90-degree increments from tank manway. Flats shall be 14" x 14" square. All dome connections

shall be PVC bulkhead fittings with EPDM elastomers, manufactured by Hayward Industries. The use of Hayward Self-aligning dome fittings is permissible if the tank nozzle must be located off of a molded in flat. Fabricated self-aligning dome fittings are acceptable on sizes larger than 3". All dome fittings shall be fume tight.

5.3 Manway Covers

The standard manway shall be a 16" diameter opening molded integrally with the primary tank. The design shall be such that the polyethylene cover for the standard opening snaps over the molded lip and is secured with a nylon lever-lock. The optional manway covers shall be either 22" bolted and gasketed with a 1/2" thick polyethylene plate, 1/2" thick XLPE gasket and PVC threaded bolts, or a 22" diameter hinged and weighted manway to allow for additional venting. The optional manway covers shall be mounted on a raised flat molded integrally with the primary dome for structural support.

5.4 Vents

The vent size shall be directly related to the size of piping specified for discharge and filling. The size of vent shall also take into consideration product flow and air pressure experienced in normal fill and discharge operations. The standard vent shall be a schedule 40 PVC u-vent assembly. Vents should be designed 2 times the largest inlet or outlet connection.

5.5 Ladders (optional)

All ladders for use with polyethylene tanks shall be FRP as required by the customer. Ladders shall be designed to meet applicable OSHA standards. Reference: OSHA 2206; 1910.27; fixed ladders. All ladders shall be supplied with necessary assembly mounting hardware to mount to the storage tank. The ladder stand-off bracket shall be polyethylene material and conform to the tanks diameter to eliminate any stress point on the vessel. Concrete anchors shall be provided by the contractor. Ladders shall be designed to help deter personal from walking on tank roof. Top ladder rung or platform shall terminate 48" below tank roof.

5.6 Heat Tracing and Insulation (optional)

Tank shall be electrically heat traced to ensure that the contents are maintained at 50° / 80° / 100° F. Heat loss calculations shall be based upon a minimum ambient temperature of ____° F. The tank location is (indoors or outdoors) _____ and exposed to ____ mph wind. The tank shall be heated by using one or more Heating Panel. Sets are to be flat, flexible elements, 11" wide and may be up to 19 panels long. Up to five Panel sets, or a total of 95 panels of element, may be operated on one Control Unit. Each heating panel shall operate on 120 vac single phase. Each heating panel shall be of the low watt density design with a maximum power density of 40 watts/ Per Linear Foot. Over-temperature operation of the heating panel shall be prevented by the use of an over-temperature cut out switch that is an integral part of the heater construction. Heating panels shall be supplied with adhesive backing and "peel off" protection film, such that the heater can be directly bonded to the tank surface. One NEMA 4X digital controller shall control the tank heating system. The controller shall incorporate two thermostats, switching the heating system via one Solid State Relay. The primary thermostat shall be set to control the desired product temperature. The secondary thermostat shall be configured and wired to provide over-temperature protection for the total heating system. The entire area of the sides and top of the tank shall be insulated with a minimum 2" thick sprayed on 2.8 lb. density urethane foam. The urethane foam shall be coated for ultra violet protection with 20 mils of Grey acrylic elastomer.

5.7 Seismic Restraint System (optional)

Restraint systems are designed per IBC 2009 and ASCE wind-load and seismic conditions. Design calculations must include both tank and restraint systems loads. Finite analysis of tank must be provided during the submittal process. Anchor bolts and concrete requirements must also be provided. Restraint system will consist of polyethylene anchor points evenly spaced around the tank base. The restraint points shall be cabled to the tanks lifting lugs with either stainless steel or galvanized components. Restraint system calculations will be stamped by a registered engineering in either Indiana or the state of the systems installation.

5.8 Name Plates

Self adhesive, phenolic plastic engraved name plates shall include:

Type of vessel, total volume and working capacity, product being stored including percentage of concentration, date vessel manufactured, and name of facility owner.

5.9 Tank Description & nozzle requirements

Tank	Nozzle Description	Nozzle Size	Nozzle Type	Nozzle Location	Special Equipment
Assmann Model	Manway	16"	Std.	Dome	Ladder
Diameter & Height	Outlet	3"	Metallic	Sidewall 6" elevation	Nameplate
Chemical stored	Inlet	2"	Bulkhead	Dome	Insulation
Temperature	Vent	4"	Bulkhead	Dome	
Indoors / Outdoors	Level	2"	Self-Aligning	Dome	
???	???	???	???	???	???

Tank	Nozzle Description	Nozzle Size	Nozzle Type	Nozzle Location	Special Equipment
Assmann Model	Manway	16"	Std.	Dome	Ladder
Diameter & Height	Outlet	3"	Metallic	Sidewall 6" elevation	Nameplate
Chemical stored	Inlet	2"	Bulkhead	Dome	Insulation
Temperature	Vent	4"	Bulkhead	Dome	
Indoors / Outdoors	Level	2"	Self-Aligning	Dome	
???	???	???	???	???	???

6.0 Inspection and Test Procedures

Full ASTM testing & documentation shall include:

Gel Test (Crosslink only), Impact testing, Hydrostatic Test, Light Test, Wall Thickness Report.

Hydrostatic testing shall be done on all tanks to ensure a leak proof seal on all installed fittings and a certificate of compliance shall be sent with the tank. Impact test shall be performed in accordance with ASTM D 1998-06. The degree of crosslinking shall be performed in accordance with ASTM D 1998-06. The minimum acceptable crosslink percentage shall be 70%. Tank wall thickness must be measured in increments of one foot elevations at 0°, 90°, 180° and 270°. Measurements will record entire wall thickness from sidewall bottom to sidewall top and will include vessel dome and base.

7.0 Interstitial Leak Detection System

Each tank shall be installed with a leak detection system to detect liquids within the interstitial space between the primary and secondary tank. Leak detection control system shall be mounted in a NEMA 4X enclosure. The system shall include both audible and visual alarms, as well as an optional auxiliary relay output rated at 5A @ 120 VAC. The audible alarm shall have an output of approximately 95 dB at two feet distance. A flashing strobe light shall be mounted at the bottom of the enclosure as well a button to silence the audible alarm. The leak detection probe shall be conductance type and be provided with 16 feet of interconnection cable. The leak detection system shall be manufactured in the USA. Assmann Corporation of American shall provide a model LDA-1 or and approved equal.

Double Wall Tanks

Double wall tanks (IMT) provide the best protection against hazardous chemical spills into the environment. Inner tank dome overlaps outer tank sidewall to prevent rainwater, snow and debris from entering into the containment basin. Our ability to heat trace and insulate make these tanks perfect for temperature sensitive chemicals. Molded-in lifting lugs and upper fitting flats are standard. Molded-in lower fitting flats, along with a sturdy Assmann designed bottom outlet, reduce the cost of expensive double wall outlets.

All double wall tanks are designed with wall thicknesses equal to or greater than that required by ASTM D-1998 standards. Double wall tanks can be customized by adding Seismic zone 4 or 120 MPH wind load tie down assemblies, leak detection, ultrasonic level indicators, and ladders.

Accessories for Double Wall Tanks

- Seismic zone 4 restraint
- 120 MPH wind load restraint
- Ultrasonic level indicator
- Leak detection system
- High and low level alarms
- Heat tracing and insulation
- Fiber Reinforced Ladders
- Top discharge assemblies with foot valve
- Standard 16" or optional 21" top manways

Double wall tanks can be equipped with accessories to fit your specifications



Now — Capacities up to 8850 Gallons

Model Number	Cap. (US Gals)	Dimensions (inches)		Weight (lbs) Linear Polyethylene						Weight (lbs) Crosslink Polyethylene						Access Open. (in)
				Primary Sp. Gravity			Secondary Sp. Gravity			Primary Sp. Gravity			Secondary Sp. Gravity			
		Dia.	Hgt.	1.5	1.9	2.2	1.5	1.9	2.2	1.5	1.9	2.2	1.5	1.9	2.2	
IMT 550	550	60	73	N/A	130	159	N/A	130	151	N/A	130	159	N/A	130	159	16
IMT 1050	1050	72	87	185	205	233	191	244	283	185	205	226	176	221	256	16
IMT 1550	1550	72	123	325	408	472	309	392	454	297	380	440	283	359	416	16
IMT 2050	2050	72	159	551	691	809	596	748	875	505	633	738	545	697	799	16
IMT 2550	2550	96	119	643	823	953	499	632	732	600	748	866	457	579	671	16
IMT 3050	3050	96	138	817	1022	1183	694	879	1018	739	944	1093	636	806	933	16
IMT 4050	4050	96	177	1252	1607	1870	1178	1492	1728	1158	1476	1700	1178	1492	1728	16
IMT 5250	5250	119	154	1484	1920	2225	1342	1699	1968	1372	1753	2025	1230	1558	1804	16
IMT 6550	6550	119	186	2181	2778	3200	2028	2569	2974	2000	2570	2960	2028	2569	2974	16
IMT 8850	8800	143	173	3112	3942	4565	3209	4065	4706	2853	3614	4184	2942	3726	4314	24

Model number availability and individual specifications subject to change without notice. Gallonage and weights are approximate. All wall thicknesses conform to ASTM D-1998.



Phone: 888-357-3181 • Fax: 888-Tank Fax (826-5329)
 Phone: 260-357-3181 • Fax: 260-357-3738
 E-mail: info@assmann-usa.com • www.assmann-usa.com



Assmann Double Wall Tanks with built-in containment security



Now — Capacities up to 8850 Gallons

New Double Wall Tank system provides primary and secondary containment in one space-saving integral unit

- This system consists of a primary inner tank and a secondary, locked-on outer tank with a capacity of 120% of the inner tank, exceeding EPA standards.
- Inner tank dome overlaps outer tank sidewall to prevent rainwater, snow, and debris from entering secondary containment, making system ideal for outdoor storage of chemicals.
- Provides individualized secondary containment that, when placed with other tanks in large containment areas, prevents cross-contamination, and eliminates possible dangers of commingling of reactive chemicals.
- Small footprint saves space, while portability assures convenient system relocation.
- Standard lifting lugs and specially designed indentations in the lower sidewall minimize inner tank movement during transport and installation.
- Wide range of fittings and accessories to meet your specifications.
- Available with heat tracing and insulation for use with temperature sensitive chemicals.
- Double Wall Tanks are available in natural color, or blue, green, gray, or black for no extra charge. Custom colors available upon request.

Inner tank's unique dome interlocks with outer tank's sidewall to seal secondary containment area from unwanted materials. Lifting lug assemblies, designed to hold up to twice the empty tank's weight, are standard.



Certified to NSF/ANSI 61



Certificate Number:
DAS 90024930/39/Q Rev. 001

These unique tanks are built to last!

Tired of domes that collapse? Assmann's molding process provides uniform sidewalls and domes that eliminate this problem. Our Double Wall Tanks are designed with wall thicknesses equal to or greater than that required by ASTM D-1998 standards. By calculating the wall thickness at the bottom of each tank where hoop stress is greatest, we then produce uniform thickness throughout the entire wall. This allows for a more uniform cure with less stress, resulting in greater strength in the top portion of the tank, an area of vital importance when securing seismic or wind-load restraint systems.

Assmann polyethylene tanks are air-cooled, not water-cooled. We've chosen this slower process to ensure better cures for more stable parts. All cross-linked Assmann tanks consistently achieve gel tests in the high 70% to low 80% range throughout the tank, significantly higher than the ASTM minimum of 60%. What does this mean to the end user? Assmann tanks last longer for long-term storage of harsh chemicals.

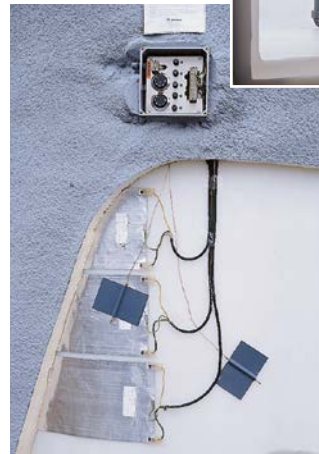
Assmann is an ISO 9001 registered company. Testing and inspection procedures are in place to insure our customers are satisfied with every tank we manufacture.

Customize an Assmann Double Wall Tank with these options to fit your needs:

- Seismic restraint
- Wind-load restraint
- Ultrasonic level device
- Reverse float level device
- Leak detection systems
- High-low level alarms
- Heat tracing and insulation
- Ladders
- Top discharge with foot valve
- Optional 21" and 24" manways
- Bottom outlets



Top discharge with foot valve is optional.



Heat tracing and insulation are available for use with temperature sensitive chemicals.

Double Wall Tank Specifications					
Model Number	Capacity		Dimensions (inches)		
	US Gallons	Liters	Diameter	Height	Standard Access Opening
IMT 20	20	75	26-1/8"	21-3/8"	7
IMT 40	40	151	26-1/8"	33-1/2"	7
IMT 65	65	246	26-1/8"	47-3/4"	7
IMT 85	85	321	34-1/2"	38-1/2"	7
IMT 120	120	454	34-1/2"	51"	7
IMT 150	150	568	47	44	7/16
IMT 165	165	624	34-1/2"	66"	7
IMT 250	250	946	47	61	7/16
*IMT 550	550	2082	60	73	16
*IMT 1050	1050	3975	72	87	16
*IMT 1550	1550	5867	72	123	16
*IMT 2550	2550	9653	96	119	16
*IMT 3050	3050	11545	96	138	16
*IMT 4050	4050	15330	96	177	16
*IMT 5250	5250	19873	119	154	16
*IMT 6550	6550	24794	119	186	16
*IMT8850	8800	33500	143	173	24

* The specifications on this pamphlet pertain to large double wall tank models only.

Contact Assmann today.
Call, fax, e-mail or visit us
on the internet.

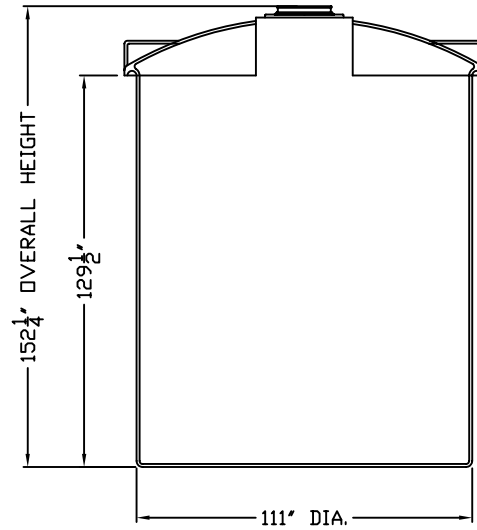
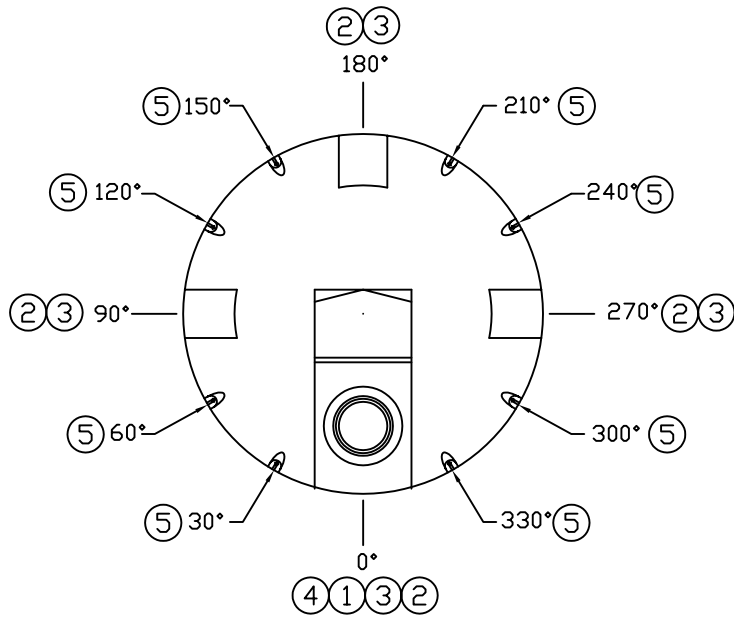


Assmann Corporation advises that using its Double Wall Tank system with a bottom sidewall fitting may not meet local codes for secondary containment, as tank contents could escape containment area in the event of fitting damage. Assmann recommends that its Double Wall Tanks be fitted with a top suction line and foot valve to provide constant flow to the pump.

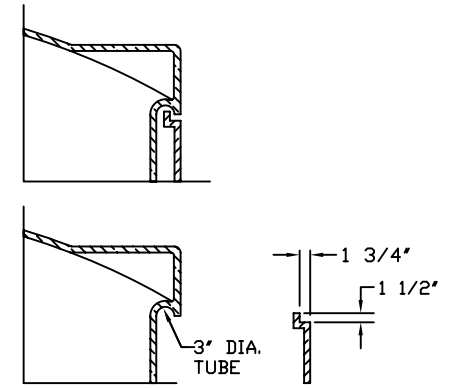
Model number availability and individual specifications subject to change without notice. All specifications approximate. All wall thicknesses conform to ASTM D-1998 standards. Consult factory on specific uses for Assmann Double Wall Tanks.

Assmann[®]
 Assmann Corporation of America
 300 N. Taylor Road, Garrett, IN 46738
 Phone: 888-357-3181 • Fax: 888-Tank Fax (826-5329)
 Phone: 260-357-3181 • Fax: 260-357-3738
 E-mail: info@assmann-usa.com
 Internet: www.assmann-usa.com
 Manufacturing facilities in Garrett, IN and Marshall, TX

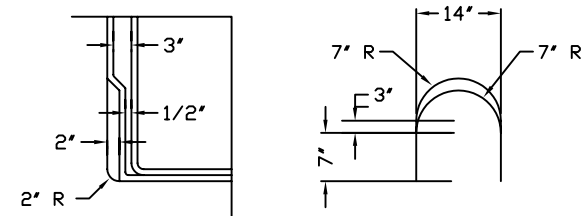
Authorized Distributor:



LIP DETAIL

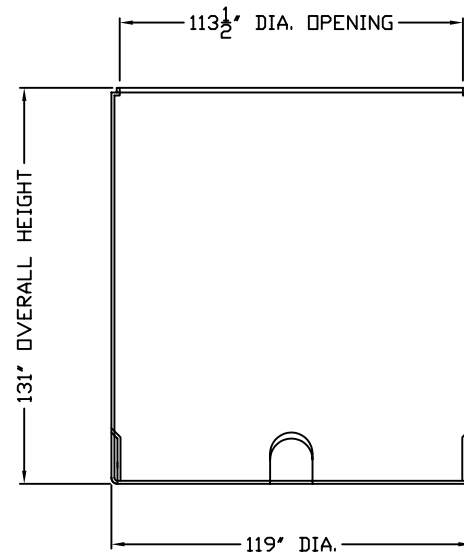
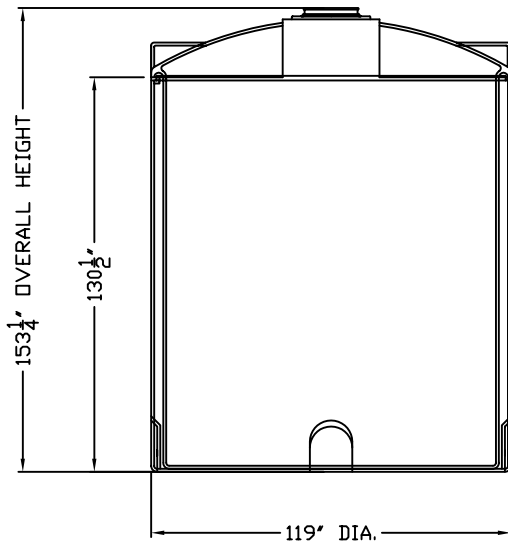


LOWER FLAT SPOT DTL.



NOTES:

- 1 16" LEVER LOCKING MANWAY
- 2 LOWER FLAT SPOT (4 PLACES)
- 3 16" X 17" DOME FLAT SPOTS (3 PLACES)
- 4 32" X 52" MANWAY FLAT
- 5 LIFTING LUG ASSEMBLY (8 PLACES)



BK	SIZE	DESCRIPTION	DEG	ELEV	DOM
B		CORRECTED DOME FLAT DIMENSIONS			10/10/12 MG
A		INSERTED A NEW TITLE BLOCK			06/12/08 MG
REV		REVISION DESCRIPTION			REV DATE

		300 N TAYLOR ROAD GARRETT, IN 46738		SALES ORDER	
		PHONE: (260) 357-3181 FAX: (260) 357-3738		CORPORATION OF AMERICA	
PRIMARY VESSEL		SPECIFIC GRAVITY -	SP.G. MAX	SECONDARY VESSEL	
RESIN USED	TANK WEIGHT - LBS.			RESIN USED	TANK WEIGHT - LBS.
POLYETHYLENE	TANK COLOR -			POLYETHYLENE	TANK COLOR -
TITLE: IMT 5250 DOUBLE WALL STORAGE TANK				DRAWN BY: D. CRAGER	DRAWN DATE: 12/29/97
ALL DIMENSIONS ARE IN INCHES AND ARE ±3%				DWG NUMBER: IMT 5250	REV: B