FILL CHART				CONSTRUCTION EQUIPMENT CHART			COVER CHART		
Material Location Description		Material Classification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	uipment Make (NOTE 1) Maximum Gross Vehicle Weight (Ibs) Minimum Fill Depth over Tar		Live Loading Condition Cover Thickness (inches)		ness (inches)
			Plate Compact or Static Roll loose lifts to densify fill.	Plate Compactor	1,500	6	Live Loading Condition	Minimum	Maximum
			Use at least two full passes of the equipment to level	Compact Track Loader (NOTE 2)	7,500	6	Non-Trafficked Areas (i.e.	12	134
			the layer. Continue until 24 inches of total fill thickness	Rubber-Tired Skid Steer (NOTE 3)	7,500	14	Landscaping) Passenger Vehicles Parking Lot		
			has been placed above the tank. For AASHTO M145 soils,	Low Ground Pressure Tracked Vehi Roller - Static Mode	cles (NOTE 4) 20,000 12,000	14 18	(i.e. Gross Vehicle Weight	18	134
FINAL FILL	Suitable Fill Materials as noted in the	Care Durain at Careta sharing! Damant and City	a minimum of 95% of the Standard Proctor Maximum Dry	Roller - Vibratory Mode	12,000	24	<10,000 lbs)		
Fill starting from the top of the	Project Geotechnical Report and noted	See Project Geotechnical Report and Site Design Engineer's Plans	Density is recommended.	Dump Trucks and Pans		NOTE 5	Passenger Vehicle Parking Lot		
embedment fill layer. (NOTE 1 and 2)	on the Site Design Engineer's Plans			NOTE 1: Vehicles shall make straight	runs only across tank footprint.		with one weekly AASHTO HS-20 vehicle	20	134
			After 24 inches of fill is placed, place fill in accordance	NOTE 2: Maximum ground pressure = NOTE 3: Maximum axle load = 5,250			Frequent AASHTO HS-20 Traffic	22	134
			with the engineer of record's relative compaction	NOTE 4: Maximum axie load = 5,250 NOTE 4: Maximum ground pressure =			Passenger Vehicle Parking Lot		
			requirement or to 95% of the Standard Proctor Maximum		nation regarding dump truck and pan traffic during porarily unloaded near the excavation. Material sl		with one weekly AASHTO HS-25	24	134
			Dry Density - whichever is greater.	longer than 24 hours.	poranty unloaded near the excavation. Material si	an not be stockplied hear the excavation for	vehicle	26	124
EMBEDMENT FILL			Plate Compact or Static Roll loose lifts to densify fill.			-Cut Geotextile/ Geomembrane	Frequent AASHTO HS-25 Traffic NOTE 1: Minimum Cover Thicknes	26 s in non-trafficker	134 d areas is
Fill Immediately Surrounding the sides			Use at least two full passes of the equipment to level			and wrap around inlet/outlet pipe	based on landscape surface with a	40 degree load o	distribution. In
and top of tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded	l or l	the layer. For AASHTO M145 soils a minimum of 95% of			6 oz Non-Woven Geotextile (outer)	trafficked areas, Minimum Cover TI asphalt-surfaced pavement with a 3		
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3 3, 357, 4, 467, 5, 56, 57	the Standard Proctor Maximum Dry Density is		O	around entire tank by Others	NOTE 2: Calculations assume back	fill with a minimu	um 32-degree
Fill Immediately below the tank			recommended.	Stainless 💾 🔛			angle of internal friction and a maxi cubic foot, and a seasonal groundw		
(NOTE 4)				Steel Bands-		npermeable Geomembrane	below the invert of the tank.		
NOTE 1: This layer can include pavement subbas				•	(inner) a	round entire tank by Others			
	r embedment fill, fines migration from the final to er more information for construction equipment limitat		of 6 oz non-woven geotextile fabric at the final and embedment fill interfa-		DETAIL A		SIDE PANEL PIPE D	AMETER C	CHART
		naterial should be selected based on classification, grour	ndwater conditions, and tank invert elevation.	PI	PE WRAP		Inlet/Outlet Pi	pe Diameter	
NTS							Minimum	Maximum	
							4 inches	6 inches	
							NOTE 1: Cut inlet / out	let pipe hole prio	r to
Surface Material (Pavement Section or Topsoil) as Specified by Site Design Engineer (Part # 314094) TYP.						side panel installation. NOTE 2: Contact ACO	for guidance for	inlet	
						/ outlet pipes larger than 6-inch diameter NOTE 3: 0.5-layer 300HD module does not		er	
						have side panels and a			
						diameter pipe only. Pipe may be set between top plate cover and bottom of			
						module body. Contact		ce.	
-6 oz Non-Woven Geotextile (outer)							See Detail A -		
		entire tank by Others	FINAL FILL (See Fill Chart)		(Part #314075) - See NOTE 3		Pipe Wrap		
			EMBEDMENT FILL (See Fill Chart)						
Cover Depth as Specified By Site Design Engineer (See Cover Chart) 6" Minimum 6" Minimum 7" Minimum							<pre>/  ×××;</pre>		
								/	e based on
							$ K \times \times $		meter and stall pipe.
									e Diameter
								Chart.	
								) mil Impermea	bla
							eomembrane (i		
31.0" BEDDING FILL (See Fill Chart) BEDDING FILL (See Fill Chart) (Part #138461) BEDDING FILL (See Fill Chart) FILL (See Fill Chart) (Part #138461) Bengineer of Record responsible for TYP. for all							ai ai	ound entire tar	
								thers	
		EEEEBAREN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	checking that subgrade soils meet the	Milli after after Milli	exterior sides				
			bearing and settlement requirements						
6" Minimum	<u>ද්රස් රස් රස් රස් රස් රස් රස් රස් ර</u> ස් රස් රස් රස් රස් රස් රස් රස් රස් රස් ර		during design and construction	€₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		LEBES	<u> </u>	oz Non-Wove	en
		</td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Geotextile (oute</td> <td>er)</td>						Geotextile (oute	er)
Se		Impermeable Geomembrane		300HD Half-Mc	odule (Part # 138462)	Α		around entire ank by Others	
NOT	TE 1 (inner)	around entire tank by Others		TYP. under acc		SIDE VIEW	SECTION A-A		
						NTS	NTS		
	2.5 LAYER 300	)HD		2.5 LAYER 30	0HD	2.5 LAYEF	R 300HD		
DETENTION CROSS SECTION ACCESS POINT CRO						PIPE INSTA			
NTS NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater. NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative						NTS			
				methods of ventilation are recommer					
NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer of Record for requirements									
NOTE 3: The Remote Access Plate is approximately the size of									
				half of a half-module. The half-module be cut in half to accommodate the Re					
				be cut in nail to accommodate the Re					
						ACO, INC.			
A Frye J Jonke STORMBRIXX STANDARD DETAILS					ACO				
	-							IEAST SALI	
	<u> </u>	20000 67	VOTEM - 2 5 I AVED -					MUNN RD. SU	

DATE REV. 12/11/2024 1

## **300HD SYSTEM - 2.5 LAYER - DETENTION**

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