Material Location					CONSTR	RUCTION EQUIPMENT CH	IARI
	Description	Materi	al Classification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	• •	bs) Minimum Fill Depth over Tank (i
				Plate Compact or Static Roll loose lifts to densify fill.	Plate Compactor Compact Track Loader (NOTE 2)	1,500 7,500	6
				Use at least two full passes of the equipment to level	Bubber-Tired Skid Steer (NOTE 3)	7,500	14
				the layer. Continue until 24 inches of total fill thickness	s Low Ground Pressure Tracked Vehicles (NOTE 4)	,	14
				has been placed above the tank. For AASHTO M145 soils	Is, Roller - Static Mode	12,000	18
FINAL FILL	Suitable Fill Materials as noted in the	San Project Goo	tachnical Panart and Sita	a minimum of 95% of the Standard Proctor Maximum Dr		12,000	. 24
Fill starting from the top of the	Project Geotechnical Report and noted	-	technical Report and Site	Density is recommended.	Dump Trucks and Pans	· · ·	IOTE 5
embedment fill layer. (NOTE 1 and 2) <b>EMBEDMENT FILL</b>	on the Site Design Engineer's Plans	Design Engineer's Plans		After 24 inches of fill is placed, place fill in accordance with the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximur Dry Density - whichever is greater.	NOTE 1: Vehicles shall make straight runs only across tank footprint. NOTE 2: Maximum ground pressure = 5 psi NOTE 3: Maximum axle load = 5,250 lbs NOTE 4: Maximum ground pressure = 7 psi NOTE 5: Contact ACO for more information regarding dump truck and pan traffic during construction NOTE 6: Backfill material may be temporarily unloaded near the excavation. Material shall not be s longer than 24 hours.		
Fill Immediately Surrounding the sides				Plate Compact or Static Roll loose lifts to densify fill.		ar	nd wrap around inlet/outlet pipe
, .	Sand-Gravel Mixtures or Open-Graded	AASHTO M145	AASHTO M43	Use at least two full passes of the equipment to level			6 of Non Mover Or the fill (
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3	or 3, 357, 4, 467, 5, 56, 57	the layer. For AASHTO M145 soils, a minimum of 95% of		E -	—6 oz Non-Woven Geotextile (ou around entire tank by Others
Fill Immediately below the tank				the Standard Proctor Maximum Dry Density is	Stainless		around entire tank by Oulers
				recommended.	Stanless Steel Bands		
(NOTE 4)					by Others		ermeable Geomembrane
NOTE 1: This layer can include pavement subbas		hadmant fill laver may	he reduced by installing a lover	of 6 of non-wayan approximation fabric at the final and ambadment fill into	erface. DETAIL A	(inner) arou	ind entire tank by Others
	embedment fill, fines migration from the final to en nore information for construction equipment limitati		be reduced by installing a layer	of 6 oz non-woven geotextile fabric at the final and embedment fill inte			
	soils meet the material classification listed. Fill ma		ed based on classification, grou	ndwater conditions, and tank invert elevation.	PIPE WRA	<u>r</u>	
	Surface Material (Pavement Sect	ion or					
/ Site Design Engineer (See Cover Chart)	ee (inner) (in	ign Engineer	TYP. for all e	Panel (Part #138461) exterior sides FINAL FILL (See Fill Chart) BEDDING Half-Module (Part # 138462) TYP. BEDDING FILL (See Fill Chart) Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements during design and construction		Concrete Load Distribution Plate by Others - See NOTE 2 Remote Access Plate (Part #314075) - See NOTE 3 300HD Side Panel (Part #138461) TVP. for all exterior sides	
/ Site Design Engineer (See Cover Chart) 6" Minimum 24,2" 6" Minimum	TE 1 6 oz Non-Woven Geotext around entire tank by Oth	ign Engineer	TYP. for all e	exterior sides FINAL FILL (See Fill Chart) EMBEDMENT FILL (See Fill Chart) 300HD Half-Module (Part # 138462) TYP. BEDDING FILL (See Fill Chart) Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements	State of the second sec	by Others - See NOTE 2 Remote Access Plate (Part #314075) - See NOTE 3 300HD Side Panel (Part #138461) TYP. for all exterior sides	A SIDE VIEW NTS
6" Minimum 24,2" 6" Minimum	30 mil l (inner) a 6 oz Non-Woven Geotext	ign Engineer	TYP. for all e	exterior sides FINAL FILL (See Fill Chart) EMBEDMENT FILL (See Fill Chart) 300HD Half-Module (Part # 138462) TYP. BEDDING FILL (See Fill Chart) Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement requirements		by Others - See NOTE 2 Remote Access Plate (Part #314075) - See NOTE 3 300HD Side Panel (Part #138461) TYP. for all exterior sides 138462)	

DRAWN BY	CHECKED BY
A Frye	J Jonke
DATE	REV.
12/11/2024	1

## **STORMBRIXX STANDARD DETAILS 300HD SYSTEM - 2 LAYER - DETENTION**

## **COVER CHART**

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	134	
Landscaping)		154	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	134	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	20	134	
vehicle			
Frequent AASHTO HS-20 Traffic	22	134	
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-25	24	134	
vehicle			
Frequent AASHTO HS-25 Traffic	26	134	

NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on an asphalt-surfaced pavement with a 30 degree load distribution. NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below the invert of the tank.

## SIDE PANEL PIPE **DIAMETER CHART**

Inlet/Outlet Pipe Diameter					
Maximum					
6 inches					

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE 2: Contact ACO for guidance for

inlet / outlet pipes larger than 6-inch diameter

