FILL CHART

Material Location	Description	Mat	erial C	lassification	Compaction/Density Requirement (NOTE 3)
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans			Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended. 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 Maximum Dry Density - whichever is greater.
Fill Immediately Surrounding the sides and top of tank (NOTE 4) BEDDING FILL Fill Immediately below the tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	l or	AASHTO M43 3, 357, 4, 467, 5, 56, 57	Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.

NOTE 1: This layer can include pavement subbase

Cover Depth as Specified

By Site Design Engineer

(See Cover Chart)

6" Minimum

19.0'

6" Minimum

NOTE 2: If open-graded aggregates are used for embedment fill, fines migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface. NOTE 3: See Construction Equipment Table for more information for construction equipment limitations

NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation

Surface Material (Pavement Section or

-6 oz Non-Woven Geotextile (outer)

around entire tank by Others

1.5 LAYER 300HD **INFILTRATION CROSS SECTION**

selected compaction equipment, whichever is greater.

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate

Topsoil) as Specified by Site Design Engineer

CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)
Plate Compactor	1,500	6
Compact Track Loader (NOTE 2)	7,500	6
Rubber-Tired Skid Steer (NOTE 3)	7,500	14
Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	14
Roller - Static Mode	12,000	18
Roller - Vibratory Mode	12,000	24
Dump Trucks and Pans	NOT	E.5

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 stockpiled near the excavation for

Remote Access Cover Vented (Part #314133)

or Solid (Part #314132) - See NOTE 1

-Extension Shaft (Part #314038) -Concrete Load Distribution Plate

by Others - See NOTE 2

(Part #314075) - See NOTE 3

Half-Layer Top Plate

Cover (Part # 314094)

-300HD Side Panel

(Part #138461)

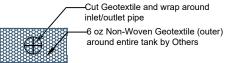
TYP. for all

exterior sides

Remote Access Plate

Steel Bands by Others







cubic foot, and a seasonal groundwater elevation at least 2 feet SIDE PANEL PIPE DIAMETER CHART

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

COVER CHART

Live Loading Condition Non-Trafficked Areas (i.e.

Landscaping) Passenger Vehicles Parking Lot (i.e. Gross Vehicle Weight

<10,000 lbs) Passenger Vehicle Parking Lot with one weekly AASHTO HS-20

vehicle

Frequent AASHTO HS-20 Traffic

Passenger Vehicle Parking Lot

with one weekly AASHTO HS-25

vehicle Frequent AASHTO HS-25 Traffic Cover Thickness (inches)

22

26

134

134

134

134

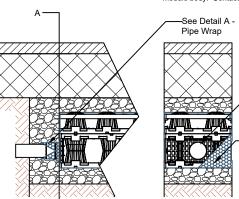
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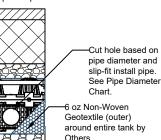
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Inlet/Outlet Pipe Diameter					
Minimum	Maximum				
4 inches	6 inches				
NOTE 1: Cut inlet / outlet pipe hole prior to					

side panel installation NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 6-inch NOTE 3: 0.5-layer 300HD module does not

have side panels and allows for a 4-inch diameter pipe only. Pipe may be set module body. Contact ACO for guidance.





SIDE VIEW NTS

> 1.5 LAYER 300HD PIPE INSTALLATION

1.5 LAYER 300HD **ACCESS POINT CROSS SECTION**

TYP. under access point

-300HD Half-Module (Part # 138462)

NOTE 1: Ventilation may be crucial to reducing the pressure build

up within the system. If solid access covers are used, alternative methods of ventilation are recommended. 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 at the top of the tank must be cut in half to accommodate the Remote Access Plate

CHECKED BY DRAWN BY J Jonke A Frye DATE REV. 12/20/2024

See

STORMBRIXX STANDARD DETAILS 300HD SYSTEM - 1.5 LAYER - INFILTRATION

-300HD Side Panel (Part #138461)

TYP. for all exterior sides

(Part # 314094) TYP.

-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

during design and construction

-Half-Layer Top Plate Cover

-FINAL FILL (See Fill Chart)

-EMBEDMENT FILL (See Fill Chart)

ACO, INC.

SECTION A-A

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