

TERRE KLEEN - GENERAL NOTES:

THE TERRE KLEIN ** (US PATENT 6.676.832 E2) HYDRODYNAMIC SEPARATOR AS DESIGNED, MANUFACTURED AND INSTALLED BY TERRE HILL STORMANTER SYSTEMS.
CONTACT TERRE HILL STORMANTER SYSTEMS AT P.O. BOX 10, 485 WEMERLAND VALLEY ROAD, TERRE HILL, PA 17581 (PHONE 1-800-242-1509) OR WWW.TERRESTORM.COM

CONCRETE: f'c=5,000 PSI @ 28 DAYS, WITH ASTM C-33 NO. 57 OR NO. 67 COARSE AGGREGATE.

ITILIUEN CONSEAL CS-1028 JOHN MATERAL MANIFACTIEED BY CONCRETE SEMANTS, NC. AND DONFORMS TO FEDERA, SPECIPICATION SS-S-5-210A, JOHN SEMANT MUST BE INSTALLED IN ACCORDANCE WITH CONCRETE SEMANTS, NC. RECOMMEDIATIONS.

NNULAR SPACE BETWEEN PIPE AND HOLE TO BE FILLED, BY OTHERS, WITH AN APPROVED NON-SHRINK KNOUT OR CONCRETE AS SPECIFIED.

UNI LIFT ANCHORS MANUFACTURED BY UNIVERSAL FORM CLAMP COMPANY, OR EQUAL. UNI LIFT TYPICAL FOR HANDLING. DROP-IN ANCHORS TO BE HILTI 316 STAINLESS STEEL KWIK BOLT II AS MANUFACTURED BY HILTI CORP. T ANCHORS

Peak flow max pipe Diam Standard⁵ Sediment Storage Standard⁵ Trash and Oil volume Minimum grade to pipe invert³ Standard pipe invert to device bottom

Design flow rates based on Weighted Removal according to NUDEP lab protocol and adjusted for a particle density 140tbs/. Peak headlass is defined by the standard insert clearance and defines peak flow. Higher flows at reduced treatment rates, Add 9" for grade adjust and frame and cover, otherwise cast into the lid.

Excess design overflow through a screen is possible above insert.

Special designs are available to increase these values. ft and 60 degree Fahrenheit water temperature are optional and avoid external by

Initial

Release 11-12-08

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8. Certified softment, organic solids and other settled material in the primary and grit chambers are stored in a sump area containing not less than 116.0 Cuft; entire sump area is below the settling surfaces and the teachment flow poth, preventing re-suspension of captured pollutants.

9. Minimum volume of captured gross pollutant sump area is 116.0 Cuft 11. Minimum gross oil storage volume is 20.3 gallons.

11. 30 inch manhole access for maintenance from grade by vacuum truck; with not less than 18 inch continuous access opening to bottom of sump area.

12. Air and water pressurized subge dispension manifold below stacked inclined plate sediment sump area, causing pollutants to drain to vacuum truck suction hose.

13. Mounticuture shall submits shop draining and such other information requested by Engineer to verify Performance and Design Specifications.

14. Morranty: Labor and material for 4 years from date of installation in the event that the product supplied is not first from defects that materially affect its performance; Terre Kleen shall be installed and used only in the particular application for which it was specifically designed, engineered and manufactured (see written Terre Kleen warranty for entire worranty)

Terre Kleen is a HYDRODYNAMIC SEPARATOR consisting of preinstalled, stacked inclined plates floused inside a precast structure. Ferre Kleen removes pollutants by separating sediment and floatables such as oils, grease, trash and debris from stormwater. Terre Kleen features are as follows:

capture & permanently redain 100 percent of floatable trash & debris at all flows copius & permanently redain > 90 percent of floatable free oil, grease and floatable etcoleum. Hydrocanbons (PH) at all flows; unit shall be capable of receiving "oil sorbents" opermanently remove captured by grease more and PH capable of removing all and clay grease particles. All storm water flows shall enter the Terre Kleen and, flows in excess of design flows, all storm water flows shall enter the Terre Kleen and, flow in excess of design flows, tend lipposs.

ternal bypass. stacked inclined plates in the grit chamber are self cleaning settling surfaces HS 25 traffic and earth loadings

Terre Kleen TK18 Performance, Design and Installation Specifications

. No stormwater treatment BMP shall be approved as an equivalent substitution unless tagineer shall receive and approve drawings and specifications stamped and sealed by a ordessional engineer registered in the state wherein the project is located showing the

 project—specific hydraulic calculations, with 3rd party performance verification, showing the hydraulic Grade Line (HGL) plotted through the structure for the design flow s, project—specific sizing calculations, with 3rd party performance verification, clearly howing that the unit meets or exceeds the Performance and Design Specifications of the erre Keen.

Terre Kleen Installation Specifications 1. Durtherly inspection is recommended to record sediment, all, and trash accumulation.
2. Cleaning is recommended when the sediment reaches 16 inches in depth in one or both sediment sump areas.
3. No confined space ettry required; Terre Kleen design allows access, from grade, to both bothers by vacuum hose for remod of 100% of all captured poliulants.
4. Air and water pressurized sludge dispersion manifold, under inclined plates
4. Air and water pressurized sludge dispersion manifold, under inclined plates
5. Removed malerial must be handled and disposed according to local, state, and federal regulations

4. Contractor stell place "CONSEAL" or equivalent water light mostic material between each presst component.

5. Presset structure containing the Terre Kleen component stell be aligned horizontally and vertically pulm. Contractor must confirm that the entire Terre Kleen shall be level during and after completion of backfill of the structure.

6. Marhole former-Cover and intalt former/grate, if required shall be installed as shown on the drawings and grate storm drawin her and older larged elevations. By Contractor.

7. Commet and seal storm draw in the most of terre Kleen who leads and some shall storm drawing and seal storm drawing specifications.

8. EMCRILL SPCID-(ININS): It is recommended that the store sub-base be extended a minimum of one tool. (1 th) beyond the exterior face of the precisis and compacted to \$5.5 Proctor Persity to sub-grade. Upon completion of the presst installation the backfill material shall be placed and compacted achieving a minimum compaction of 90% Proctor Density, or as specified by the Engineer, in vertical shall be provided an allowable bening pressure of 2000 pounds per square foot (pst) and compacts to 90% Proctor Density (s. ISSM ASS57). If approved by the Engineer, in areas of vehicular use, the upper two feet (2 ft) of backfill ishall be aggregate base, compacted to \$5.% Proctor Density (s. ISSM ASS57). If approved by the Engineer, in areas of vehicular use, the upper two feet (2 ft) of backfill shall be aggregate base, compacted to \$5.% Proctor Density (s. ISSM ASS57). If approved by the Engineer in areas of vehicular use, the upper two feet (2 ft) of backfill shall be aggregate base, compacted to \$5.% Proctor Density (s. ISSM ASS57). If approved by the Engineer in areas of vehicular or construction materials and debris from the inlet pipe, outlet pipe and Terre Kleen upon completion of installation. 1. Terre Kleen inclined plote assembly shall arrive at the job site fully assembled inside precost concrete structure. Precost structure and in sections due to weight and transportation issues. Each precost structure shall contain lifting paths with Uni-Hits, annulacturer shall provide lifting equipment required between the uni-Hit and the lifting straps / crare hook, which shall be the property of manufacturer. Contractors shall provide equipment with safficient lifting capacity to unload and set the Terre Kleen.

2. Contractor shall excounts dewater and shore in accordance with project specifications, as provided by Engineer and IOSH, regulations.

3. Sub-grade shall be established as shown on the Drawings, Underlying soil and sub-grade material shall have design locating of not less than 2000 pounds per square foot (psr). Precost components shall be placed on the compacted base (95% Practor bensity), elevation confirmed, level and disped to ensure that the entire unit will be properly positioned when fully installed. shall place "CONSEAL" or equivalent water tight mastic material between each onent.

REVISIONS JOB: E! 6'-6" x 8'-0" PRECAST WATER QUALITY CHAMBER TERRE HIL

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