The Fort Miller Co., Inc. specializes in precast concrete solutions for the construction industry. From our design engineering capabilities to our highly flexible manufacturing facilities to our extensive delivery options, we offer you a complete service. Customer needs clearly are the driving force behind our Company. At Fort Miller, we are committed to solving construction problems with practical precast concrete solutions.

In every area of the company, we take pride in our ability and willingness to find innovative solutions to our customers’ onsite challenges. In fact, many of our engineering designs have gone on to become trademarked industry standards. Small or large, every project we undertake is measured against the same high standard of excellence.

To serve you better, we have extended our product offerings to be the most diversified supplier in the marketplace. We have added resale products to our manufactured ones to allow one stop shopping for your site infrastructure needs. We operate four (4) delivery trucks with tag trailers and we have the ability to off-load and set castings where appropriate.

We take our manufacturing capability just as seriously as our engineering and delivery capabilities. Our extensive facilities total over 250,000 square feet on over 300 acres with a permanent year round staff of over 200 skilled concrete manufacturing associates. That’s commitment. We work to meet deadlines and our prices are not just competitive, but guaranteed.

We encourage you to contact us on any construction project. Our commitment to the local market spans over 54 years. Our solution to your needs will be precast concrete products manufactured to quality standards unmatched in the marketplace. Our pricing is competitive. Our capability and service are unequaled. Most important, we will never compete or bid against you. We are a supplier and not a contractor bidding against you one-day and selling to you the next. For this reason, we have enjoyed your loyalty and your business for over 54 years.

The Fort Miller Group and The Fort Miller Co., Inc. offices are located 12 miles East of Saratoga Springs, New York.
Catalog Control Form

Name of Company/Individual___________________________________________________

Street or P.O. Box____________________________________________________________

City, State, Zip Code__________________________________________________________

Contact Person _____________________________________________________________

Telephone Number (_____)____________________________________________________

Fax Number________________________________________________________________

E-Mail_____________________________________________________________________

Date Mailed/Hand Carried______________ FM Representative_____________________


Notes: ______________________________________________________________________

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How to Order from Fort Miller

The Fort Miller Sales Department is your primary contact for questions relating to products, prices, and most importantly for placing orders. The Sales Team can be reached at our main office phone number (518) 695-5000 or through our FAX number (518) 695-4970 or (518) 695-3042.

Sales initiates your orders and routes your inquiries and orders through our Engineering Department for design analysis, shop drawing preparation and technical interfaces. Sales works with Engineering to generate approved shop drawings for release to production. Your continual assistance with the shop drawing approval process is essential to ensure on-time production and delivery.

Once the shop drawings are completed and approved, Engineering will release your order to our Production Department for scheduling and manufacturing.

When your order is ready to ship, dispatch provides the various delivery options.

When You Call the Company

When calling Fort Miller, please ask either for an individual by name or by area of responsibility:

- **Sales** for customer policies, placing orders, following up on orders, and product inquiries
- **Production Control** for manufacturing status and to set up delivery
- **Engineering** for shop drawing issues and technical questions

Pricing Policy

Upon inquiry, the Sales Department will provide prices. Prices are F.O.B. our plant unless otherwise specified at the time of inquiry and/or receipt of order. Within a six month time frame, quoted prices will remain firm from time of order receipt to shipment unless otherwise agreed upon in writing by the customer and The Fort Miller Co., Inc.

Credit Policy

All accounts must have approval (of credit) prior to any deliveries and/or pick up of material. All accounts must prepare a credit application as a basis for approval. Please allow two weeks upon receipt of a properly submitted application for approval by Fort Miller’s Credit Department. Those accounts not granted credit or those who choose not to have credit must arrange for payment in advance or at the time of delivery.

Credit terms for approved accounts are net 30 days from date of invoice unless otherwise agreed to in writing at the time the order is received. Any taxes applicable to the sale will be added to the price of the merchandise unless a properly completed tax-exempt certificate is received by Fort Miller prior to shipment. All accounts not paid within the agreed upon terms will be charged interest at 1.5% per month (18% per annum).
Fort Miller may decline to manufacture any product or make any shipment when payment practice or other security is not satisfactory to the Credit Department.

Orders for new customers or large orders may require a deposit prior to commencement of drawings or production. These arrangements shall be made a part of the contract and agreed to at the time the order is placed.

**Return Policy**

No item may be returned without prior approval by the Sales Department. At the time a decision is made to accept a return, the customer will be informed of any associated charges.

**Backcharge Policy**

Only the Sales Department is authorized to negotiate or review potential backcharges. In no case shall monies be withheld without prior approval of the Sales Department. Our practice regarding backcharges is tightly controlled and stringent, so it is important to inquire and obtain approval in order to retain your credit standing with the Company. Under no circumstances will the value of a negotiated backcharge exceed the face value of the product supplied by Fort Miller.

**Warranties**

As to all goods not manufactured by Fort Miller, The Fort Miller Co., Inc.’s only obligation shall be to make available the warranties of the original manufacturer.

As to goods manufactured by The Fort Miller Co., Inc., THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, THAT EXTEND BEYOND THE DESCRIPTION OF MATERIALS ON THE FACE OF THE CONTRACT.

THE FORT MILLER CO., INC. EXPRESSLY DISCLAIMS ANY WARRANTY, EXPRESSED OR IMPLIED, THAT THE MATERIAL SOLD HEREUNDER IS MERCHANTABLE, OR FIT FOR ANY PARTICULAR PURPOSE.

**Limitation of Liability; Indemnification**

The Fort Miller Co., Inc. assumes no responsibility or liability for buyer’s lost profits, goodwill, or any other general, special, incidental or consequential damages. Buyer further agrees to indemnify The Fort Miller Co., Inc. as to any liability for personal injury or property damage that may result from the negligence of the buyer or any of the buyer’s agents or employees or anyone for whose acts the buyer is responsible.

The Fort Miller Co., Inc. has no control over the placing and handling of any material after delivery and therefore will not guarantee the finished work in which it is used.

**Delivery Hours**

Our main business is to service the contractor/customer. Based on your needs, we will do our best to arrange delivery at your convenience.
The hours for picking up material at our yard are more limited so as to allow maximum use of equipment and personnel in the production process. Yard hours are typically 7:00a.m. to 3:00p.m., Monday through Friday, unless special arrangements are made at least 48 hours prior to the pick-up.

**Delivery Equipment**

We ship our products on two basic types of equipment:

**Swing-boom Trucks.** These are tandem vehicles with an unloader mounted behind the cab capable of unloading off the side. These trucks have approximately 20 feet of load bed and can carry approximately 11 tons of material. Primary use of these vehicles is for delivery of manholes, catch basins, standard light duty septic tanks, transformer pads, curb, and drywells.

**Flatbed Tractor Trailers.** These vehicles can carry up to 22.5 tons of load and typically have bed space of up to 45 to 48 feet.

**Delivery**

Delivery charges will be as indicated in our quotation/contract. We will attempt to ship materials via the most economical way or as requested.

Often when orders do not constitute a payload and the customer does not wish to pay the full delivery charge for a special delivery, the order can be shipped on an “as soon as possible” basis with a drop off charge applicable. At our option, we will make this delivery with another load going to the same area.

If for some reason the excavation is not ready at the time of scheduled delivery and a second trip is necessary to set the material, another delivery charge will be assessed for setting or resetting. One hour is allowed for this service, after which an additional charge at the current rate of $100.00 per hour will be made unless otherwise indicated on our contract.

To maintain our delivery schedules, required unloading equipment must be ready at the scheduled time of delivery.

Detention time for swing boom trucks and tractor-trailers will be charged at the current rate.

In the event of any delay in our performance, due in whole or in part to causes beyond our reasonable control, we shall be allowed such additional time for our performance as may be reasonably necessary. Acceptance by you of delivery of any material shall constitute a waiver by you of any claim for damages on account of any delay in delivery of such goods.

With many products, we must ship dunnage along with the material to ensure its safe arrival. If the dunnage is not returned, the buyer may be charged for it as a separate item on the invoice.

**In all instances, it is important for you to acknowledge receipt of material by signing the delivery ticket and noting any concerns on said ticket regarding the shipped product.**

**Access to Site**

It is the buyer’s sole responsibility to see that the site and unloading area are ready and safely accessible to our trucks and drivers. We can assume no responsibility for any site, labor conditions or breakdown of unloading machinery, which may
cause excess waiting time, excess unloading time, or trucks returning to our plant with their loads intact. Detention time and/or additional shipping charges will be assessed in the above cases. Our drivers have the authority and responsibilities to determine whether a site is safe and accessible for delivery and setting; however, in all cases the buyer is ultimately responsible for the safe access of our equipment and drivers.

Safety

Fort Miller has an ongoing, active safety policy at the Easton facility and when you enter our plant to pick up material, please abide by the safety instructions given to you by our associates.

While we are on your jobsite we will exercise safe procedures and comply with the safety requirements of your individual project.

Lifting and Off-loading

Care should be taken in lifting and off-loading precast products. All weights and volumes shown are based on the design thicknesses. Actual weights can and do vary in accordance with allowable tolerances. All lifting equipment and rigging needs to be sized taking this fact into consideration. The drawings shown illustrate recommendations for lifting however, it is the responsibility of the installer/contractor to safely off-load the precast products from our delivery vehicle.

It is the responsibility of the installer/contractor of the specific precast concrete unit to safely and effectively off-load the unit from the point of delivery (truck). It is further the responsibility of the installer/contractor to properly and adequately size, inspect, and provide the appropriate unloading hardware and equipment. The Fort Miller Co., Inc. assumes no responsibility or liability with regard to jobsite handling/unloading of the precast units.

Sling length (L) must be at least as long as the distance (D) between the farthest two lift points to result in the required minimum sling angle of 60°.

Be sure to consult your rigging handbook to determine cable diameter, chain size, or strap width for the load to be lifted as illustrated above. It is important to note and to make the proper allowances for conditions that increase the load, such as ice, mud, water, impact, etc. Also, all connecting shackles, hooks and other rigging components must be properly sized.

Never under any circumstances, allow anyone to get under or close enough to the lifted precast element that physical harm could result due to a sudden movement of the load. Tag lines and push bars should always be used to control the load. It is also the responsibility of the installer/contractor to inspect all lifting hardware and prevent the use of any lifting hardware that is suspect. Please refer to your rigging handbook, OSHA 29CFR 1926 and ANSI 10.9 for additional information.
Where to find us:
Directions to The Fort Miller Co., Inc.

From the North:

Take the Northway to Exit 14. Bear right off the exit following signs for Route 29 East, Schuylerville. Continue following the directions from the South.

From the South:

Travel North on the Northway (I-87) to Exit 14, which is approximately 30 miles North of Albany, NY. At the end of the Exit 14 ramp, turn right following the signs for Route 29 East and Schuylerville.

Take your first right at the light on to Henning Road. Henning Road is directly opposite the entrance to Yaddo. Go about 1 mile to the end of Henning Road and turn right on to Route 29 East. Follow Route 29 East for approximately 10 miles to the traffic light in Schuylerville. Turn right at the traffic light. Go to the next traffic light and turn left, staying on Route 29 East. Continue East across the Hudson River, up the hill, and look for Wilbur Ave. across from the Washington County Fairgrounds. Turn right on to Wilbur Avenue.

For the Plant and Sales Office:

The entrance is on the right, next to the precast concrete sign. Enter the plant and proceed between the steel structure on your left and the masonry building on your right. The sales office and customer pick up office is located in the masonry building on the right. A sign is located on the office.

For the Engineering and Corporate Office:

The engineering and corporate office is located on the left, about 200 yards beyond the entrance to the plant. Drive past Bulson Road and enter the office parking lot off of Wilbur Avenue.
UNDERGROUND STRUCTURES

Fort Miller offers a wide choice of structures for use underground. Each of the following groups of structures includes various design options. However, if you face unusual problems that are not readily solved using standard units, please contact our sales department for further assistance.

- SEPTIC AND HOLDING TANKS
- DRYWELLS AND WELL CASINGS
- CHLORINE CONTACT TANKS
- DOSING TANKS
- DISTRIBUTION BOXES
- GREASE TRAPS/OIL-WATER SEPARATORS
- SPECIALTY OIL/WATER AND STORM WATER RUNOFF SEPARATORS – (DOWNSTREAM DEFENDER™) AND PURISEPT™
- PUMP & LIFT STATIONS
- MANHOLES, CATCH BASINS & DROP INLETS
- SQUARE & RECTANGULAR STRUCTURES
- ACCESS EXTENSIONS, GRADE EXTENSIONS
- CAST IRON FRAMES AND COVERS/GRATES AND ACCESS HATCHES

ABOVE GROUND STRUCTURES

- PRECAST CONCRETE CURBING – (STRAIGHT AND RADIUS)
- ABOVE OR BELOW GROUND STORAGE TANKS – ARMORCAST GASOLINE, CHEMICAL AND FUEL STORAGE
- RETAINING WALLS – T-WALL™

OTHER STRUCTURES

- PLEASE INQUIRE
Fort Miller offers a wide variety of structures for use in underground applications such as septic systems, manholes, catch basins, pump stations, oil/water/grit separators and for a variety of other purposes. This section briefly describes the function of each group of structures as well as the various design options available. This section is followed by drawings, which indicate critical dimensions. As you use the catalog, we suggest that you refer often to the Design Data and Details section, which gives design criteria and allowable loads for each structure. When you have unusual problems that are not readily solved using standard units, custom castings may be of interest. You will find that Fort Miller can supply any custom casting you require, our only limitation being your imagination.

**Septic Tanks**

Septic tanks are holding chambers to promote growth of the anaerobic bacteria that biologically decompose(s) raw sewage. They should be sized to handle all the normal daily flow of a household or establishment during peak times. Waste from the laundry and garbage disposal should be considered when sizing the unit, but roof, cellar drains and water softener waste should be excluded from the system. Larger tanks require less frequent cleaning and allow for expansion of the establishment at later dates. Fort Miller offers septic tanks in sizes ranging from 1000 gallons to over 15,000 gallons. Specially designed segmented tanks to fit most site conditions can also be engineered and produced.

All standard septic tanks have access openings as detailed in the catalog drawings. The tees shown on the drawings are to be furnished and installed on site by the customer. Inlet tees should project 16" below the liquid level and outlet tees should project 18" below the outlet level or as directed by the Engineer of Record. All septic tanks conform to the latest New York State D.E.C. and Health Department regulations.

**Drywells**

A drywell, or seepage pit, is a covered structure with perforated walls through which liquids can pass to the surrounding soil. These structures provide effective disposal of septic tank effluent or storm water. A drywell should be backfilled with at least 12" of crushed stone around the entire unit as directed by the Engineer. We recommend that the bottom of the structure be at least 2 feet above any groundwater table. In traffic situations or unstable soil, footings should be installed. We can also supply any grade extensions needed to bring the units up to the finished grade.

**Chlorine Contact Tanks**

Chlorine contact tanks are used primarily as retention basins to maximize mixing and contact time between chlorine and the sewage to be treated. Special joint sealing materials are required for structures handling potable water.
Dosing Tanks

Dosing tanks store septic tank effluent for periodic discharge into an absorption field or sand filter. Their use allows for the rapid charging and effective distribution of effluent throughout the disposal system. Typically, New York State agencies require installation of dosing tanks with a single siphon when the absorption field length exceeds 500 feet. A double alternating system is required if the field length exceeds 1000 feet. Please inquire with the local governing agencies and engineers as to the current standards and requirements.

Dosing tanks are cast with one or two cutouts in the bottom for insertion of siphons after the tank is placed in the excavation. The cutout for the single siphon is opposite the inlet. The standard arrangement for double alternating siphons is indicated on the drawings. Other configurations are available upon request.

Typically, for inspection, a tapered plug is cast over the inlet and an opening is cast over each siphon cutout. All sections must be sealed with the material specified.

Distribution Boxes

When more than one subsurface absorption field or drywell is needed, a distribution box distributes the flow of effluent evenly among them. These boxes are also helpful for visually inspecting the clarity of septic tanks effluent and provide convenient access to eliminate any stoppage between the box and the septic tank. Liquid levelers (Tuff-Tite) are available upon request.

Grease Traps and Oil Interceptors

The function of a grease trap or oil interceptor is to remove grease or oil from influent before it is discharged into an absorption area or sewer. These units are especially desirable for use at restaurants, garages, and commercial/industrial establishments where the waste may contain large quantities of grease or oil. Grease traps are not supplied with outlet tees. It is essential that customers furnish and install an outlet tee and down standing leg that ends +/- 8" above the bottom of the tanks as directed by the Engineer. Inlet tees may also be desirable to reduce the velocity of the influent. Special joint sealing materials are required for structures handling oil, grease or petroleum products.

Oil/Water Separator (PuriSep™)

If your project calls for maximum oil, grease and sediment separation with minimum maintenance, the PuriSep™ Differential Gravity Inclined Plate Separator is your choice.

PuriSep™ separators are easy to install; just excavate, set the tank, install inlet and outlet piping and backfill. No onsite assembly is required and units are available in precast concrete tanks for flows up to 2000 GPM. The plate design permits the use of minimum-sized tanks for each flow rating, thus providing savings in excavation and real estate costs. Because the tanks are concrete, special leak detection and corrosion protection are not required.
Storm Water Runoff System (Downstream Defender™)

When rainwater flows over paved surfaces, it washes off a variety of solid and dissolved pollutants, many of which are settleable or floatable (hydrocarbons and trash) or can carry contaminants, such as phosphorus and heavy metals, that must be prevented from reaching receiving waters. The Downstream Defender™ meets the stormwater challenge by maintaining higher removal efficiencies over a wider range of flow rates. Fort Millers' Downstream Defender™ is an advanced hydrodynamic vortex separator that augments gravitational forces with rotary and shear forces to separate settleable solids in a smaller land area than conventional sedimentation basins. An oil/floatables trap is incorporated into the same vessel. The result is a compact solution for non-point source pollution prevention. The Downstream Defender™ can also be used as a pretreatment device before a detention system, mitigating wetlands, swales, filters, or other polishing systems. Standard sizes available are 4’, 6’, 8’ and 10’-6” inside diameters.

Pump and Lift Stations

Construction of sewer systems in flat terrain often requires very deep excavations in order to maintain the required velocities of effluent. In these cases it may be more cost effective to raise the sewage by use of mechanical pumps housed in a pumping station rather than to continue deep excavations.

Pumping stations can be constructed from round or rectangular structures or can be custom designed to address job specifications. Please see the various sections for further details, or contact our office for assistance.

Manholes, Catch Basins and Drop Inlets

Manholes are used wherever two or more sewer lines intersect or where there is a change of grade or direction. They also provide access to sewer lines for cleaning and inspection purposes.

Catch basins and/or drop inlets are used to collect surface water. The water is generally disposed of through an outlet pipe, however some catch basins or drop inlets are designed with drywell sections that allow the water to percolate into the soil rather than to flow out through the outlet pipe.

The butyl rubber seal generally used between precast concrete sections is shipped separately and installed in the field by the customer.

Unless otherwise specified, all round manholes or catch basin sections are manufactured using MA Industries polypropylene steps. Units can be made without steps if requested.

Fort Miller offers several means for connecting pipes to manholes. A-Lok, Z-Lok, Lock Joint Flexible Sleeves (boots), Steel or HDPE Sleeves and Link Seal Assemblies, Kor-N-Seal Flexible Connector, or open holes are available. Please inquire as to the specific type of pipe connection available for your project.
Special openings, hatches, doors, platforms, and/or sleeves can be cast into any of these structures.

Manholes with extended bases are also available. In addition, many units are furnished with knockouts and openings as shown on the drawings. These are particularly useful if units are required on short notice. Many of these stock sanitary units are equipped to allow the flexible connector to be inserted before shipping, thereby reducing production lead times. Consult our Sales Department for assistance on rush orders.

**Square and Rectangular Structures**

The structures in this section can be used for power and signal distribution manholes, meter pits, junction boxes, valve boxes, holding tanks, etc.

These units can be customized as required. Various access openings can be formed into the top including hatches, doors, frames, covers and grates. Duct terminators, unistrut, concrete inserts, pulling eyes, sleeves, sumps, and steps can also be provided as required. We will be pleased to assist you in designing structures to meet your specific needs.

**Access Extensions and Grade Extensions**

The variety of products in this family provides the differences in grade between the top of a structure and the bottom of a frame or cover. Please refer to the catalog drawings for appropriate grade extensions.

**Cast Iron Frames and Covers/Grates and Access Hatches**

For your convenience, we offer a wide variety of modern, high quality standard and custom cast iron frames and covers/grates for use on underground structures. Sizes range from small 8” diameter inspection covers to large 48” catch basin or electrical manhole castings, airport castings and trench drains. Our stock castings are made in the USA. We also can offer a wide range of aluminum or steel access hatches ranging in size from 24” sq. to 60” X 72” I.D. and any other custom size required. Hatches are available for Light Duty (150 or 300 psf) or Heavy Duty (H-20 wheel loads, not subject to high density traffic) applications.

**Precast Concrete Curb (Perma-Curb™)**

Perma-Curb™ provides an aesthetically pleasing and cost effective alternative to conventional cast-in-place and granite curb. Not only is the linear foot price competitive, but the product can also be installed by a small crew not inhibited by seasonal limitations. The material is produced locally and delivered quickly. A layout drawing can be supplied indicating the piece mark number and location. The wide variety of lengths, radii and shapes in stock will expedite your installation schedule. Perma-Curb™ provides a durable, consistent texture that resists abrasion and freeze-thaw cycles.
Above or Below Ground Fuel Storage Tanks (Armor Cast™ and Armor Vault™)

Armor Cast™ and Armor Vault™ are environmentally safe, secure, and cost-effective containment solutions for all petroleum-based products, solvents, and chemicals. Both systems are comprised of a primary steel tank with a precast concrete lid, high-quality liner, rigid foam insulation, and a high-strength, maintenance-free concrete exterior. The only difference: Armor Cast™ is for aboveground fuel storage while Armor Vault™ will cover your below-grade storage needs.

Retaining Walls (T-Wall™)

The T-Wall retaining wall system provides cost effective and aesthetically pleasing solutions to a wide range of earth retention problems commonly encountered on highway, industrial, commercial, private and public works projects. The key to the system is simplicity... simplicity in design, manufacturing, and installation. Quality construction is assured by the use of precast concrete and the ease of installation. Please inquire as to the availability of architectural finishes and professional services. For other structures, please inquire.
The products shown in this catalog represent standard offerings by The Fort Miller Co., Inc. From time to time, jobsite conditions may require special design variations. Fort Miller is pleased to design and cast modifications of these standard items for special use providing that accepted structural requirements are met.

Although the drawings and specifications listed here accurately describe our products at this time, changes in the standard design may become necessary or desirable for a number of reasons. These include code changes, manufacturing and quality dictated changes. In addition, we are constantly improving our technology to provide the user with "state of the art" products. Fort Miller will make every effort to inform the user of any changes in product design in a timely manner to minimize any inconvenience. Periodically, we will issue updated sheets for you to insert in the appropriate section.

Finally, please note that Fort Miller is not limited to the manufacture of standard products. We routinely offer specially designed products that are limited only by transportation considerations. Because of the uniqueness of these items and their specialized applications, we are unable to effectively show the complete product range in this catalog. Fort Miller takes pride in being able to produce any item that could otherwise be cast-in-place, with transportation limitations being our only constraint. Should you have special requirements, please take advantage of our innovative engineering and experienced production capabilities to help you develop solutions.

References herein to design capabilities provided by The Fort Miller Co., Inc. shall mean recommendations for design to be made to an independent, licensed, professional engineer for his/her consideration in final design. The Fort Miller Co., Inc. is not a professionally licensed corporation authorized to provide engineering or architectural services under the licensing provisions of Article 145 of the New York State Education Law.
STRUCTURAL DESIGN - GENERAL

A standard design is provided for all products manufactured by The Fort Miller Co., Inc. that meet certain standard design criteria. It is important for the specifier or the user of the product to understand those criteria. Fort Miller makes every effort to ensure its products are used properly, but it is ultimately the responsibility of the specifier or user to make sure that the imposed loads do not exceed those set by our standard criteria.

This section of the catalog shows the seven design cases that summarize the concepts and criteria used in the design of our products. In addition, a table of maximum section depths (Table D-1, The Maximum Depth of Section Table, page A-10) shows the maximum allowable loading (depth) provided for by the standard design. Should your application differ from what is shown, please consult us. We can probably either revise the standard design or design a custom structure to meet your specific situation.

Non-Traffic Loadings
Non-traffic loads include dead loads—structure weight, earth cover and lateral pressure created by the earth and groundwater—plus live loads such as pedestrian traffic or machinery on or above the structure. The dead and live loads used in the design of our standard products are given in the design criteria section.

Traffic Loadings
The traffic loads applied in our designs are as set forth in the latest edition of the American Association of State Highway and Transportation Officials (AASHTO). The most common traffic design load used is for an H20-44 Truck and is considered in addition to any dead loads as described in the Non-Traffic Loading section.

Openings
Inherent in the use of underground structures are openings that provide access from the top, bottom or sides. These openings may decrease the structural capacity of a structure. Catalog sheets generally show "normal" openings around which extra reinforcement has been added as structural compensation. If larger openings are required, please consult our engineering department for information about adequate structural compensation.

Buoyancy
Underground structures installed in areas with high water tables may tend to float. The Fort Miller Co., Inc. is not responsible for site evaluation of water conditions as they relate to the stability of the structure. It is therefore incumbent upon the project engineer, specifier or user to check for possible buoyant conditions.
Design Cases 1 - 5 Where Applicable

Loads:
- Unit Weight of Earth: 120 pcf
- Angle of Internal Friction: 30 Degrees
- Unit Weight of Water: 62.4 pcf
- Concrete Unit Weight: 150 pcf
- Non-Traffic Live Load: 300 psf

Materials:
- Cement: ASTM C150, Types 1, 2, 3, 6
- Sand: NYSDOT Materials Spec. #703-07
- Stone: NYSDOT Materials Spec. #703-02 Size 1
- Steel Bar Reinforcement: ASTM A615, Grade 60
- Wire Mesh: ASTM A185, Plain
- Concrete Strength: 4,000 psi
- Entrained Air: 5% min.

Design Methods:
- Reinforced Concrete: Ultimate Strength Design
- Lateral Earth Pressure: Rankine Theory

Pertinent Specifications: (all cases where applicable)
- AASHTO: American Association of State Highway Transportation Officials
- ACI: American Concrete Institute
- NYSDOT: New York State Department of Transportation
- ASTM: American Society for Testing and Materials
Case 1 - Round Structures

General
Round structures are unique in that under normal loading conditions (when the structure is below grade) the lateral forces acting on the wall surface create only compression stresses in the concrete wall. Since concrete is strong in compression, round structures are very efficient to use underground. However when a large differential in lateral pressure on opposite sides of the structure occurs, tensile stresses may be realized. While normal traffic (e.g. AASHTO H20-44) does not create significant pressure differential, other loadings, such as buildings or railroad traffic, may cause large differentials. In such cases, a special design should be prepared.

The top slab, bottom slab, cone, cover and cover-start ring are the components that require the greatest attention. Standard designs are provided for the cases illustrated on Sheet A-5 and listed below. For loadings other than these, a special design that accounts for the unique conditions will be necessary.

Case Descriptions:
Case 1A - Underground Round Structure - Non-Traffic Loading
Case 1B - Underground Round Structure with Flat Slab Top - Traffic Loading
Case 1C - Underground Round Structure with Cone - Traffic Loading
Case 1D - Underground Round Structure with Cover Start-Ring - Traffic loading
DESIGN CASES (cont.)

DESIGN CASE 1A, NON-TRAFFIC

10'-0" 0'-2' max.

DESIGN CASE 1B, TRAFFIC

10'-0" 0'-2' max.

DESIGN CASE 1C, NON-TRAFFIC

10'-0" 0'-2' max.

DESIGN CASE 1D, TRAFFIC

10'-0" 0'-2' max.

* NOTE:
CAN BE DEEPER WITH ADDITIONAL REINFORCEMENT OR THICKNESS. CONSULT ENGINEERING.
REFER TO DESIGN SHEETS FOR MAXIMUM PLACEMENT DEPTH.
CASES 2,3,4,5 - Underground Square & Rectangular Structures

General
Table D-1, the Maximum Depth of Structure table, includes all the standard structures covered under Design Cases 2 through 5. The table summarizes the maximum depth that each standard structure may be placed below finished grade for the appropriate design case. For greater depths, a special design may be required. The depths listed for the integral top and lowest intermediate section are taken at the lowest point in the section. The integral base depth is taken at the top of the base slab. The diagrams on the opposing page illustrate the design cases. The maximum depth of earth cover is taken from finished grade to the top of concrete.

In some instances, the roof slab (either integral or flat slab) may be able to be placed considerably deeper without alteration. Please consult our engineering department if any section of a structure is to be placed deeper than shown in Table D-1 (pages A-9, A-10).

Case Descriptions:
- Case 2- Underground Square and Rectangular Structures
  Flat Slab Roof- Traffic Loading

- Case 3- Underground Square and Rectangular Structures
  Integral Roof- Traffic Loading

- Case 4- Underground Square and Rectangular Structures
  Flat Slab Roof- Non-Traffic Loading

- Case 5- Underground Square and Rectangular Structures
  Integral Roof- Non-Traffic Loading
DESIGN CASES (cont.)

**Design Case 2, Traffic**

- **AASHTO H20-44 Live Load**
- **Max. Earth Cover**
- **Max. Depth of Intermediate**
- **Max. Depth to Top of Base**
- **Flat Top**
- **Intermediate**
- **Integral Base**

**Design Case 3, Traffic**

- **AASHTO H20-44 Live Load**
- **Max. Earth Cover**
- **Max. Depth of Intermediate**
- **Max. Depth to Top of Base**
- **Integral Top**
- **Intermediate**
- **Integral Base**
**DESIGN CASES (cont.)**

**DESIGN CASE 4, NON-TRAFFIC**

- **Max. Earth Cover**
- **Max. Depth to Top of Base**
- **Flat Top**
- **Integral Base**
- **300 psf Live Load**
- **10'-0"**

**DESIGN CASE 5, NON-TRAFFIC**

- **Max. Earth Cover**
- **Max. Depth to Top of Base**
- **Max. Depth to Top of Integral Top**
- **Integral Top**
- **Integral Base**
- **300 psf Live Load**
- **10'-0"**

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**ACAD DWG: A8**

6/02
## Table D-1
### Maximum Section Depths

<table>
<thead>
<tr>
<th>Structure</th>
<th>Page No.</th>
<th>Design Case</th>
<th>Maximum Earth Cover</th>
<th>Maximum Section Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Integral Top</td>
<td>Intermediate Section</td>
</tr>
</tbody>
</table>

### Septic Tanks

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Integral Top</th>
<th>Intermediate Section</th>
<th>Integral Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 Gal. Seamless</td>
<td>B-1</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1250 Gal. Seamless</td>
<td>B-1</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1000 Gal. Heavy Duty</td>
<td>B-2</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 6&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1200 Gal. Heavy Duty</td>
<td>B-3</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 1&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1500 Gal. Heavy Duty</td>
<td>B-3</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 11&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2000 Gal. Heavy Duty</td>
<td>B-3</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 1&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2500 Gal. Heavy Duty</td>
<td>B-3</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 1&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>3000-4000 Gal. H.D.</td>
<td>B-4</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 6&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>4500-8000 Gal. H.D.</td>
<td>B-5</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>8500-10,500 Gal. H.D.</td>
<td>B-6</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Holding Tanks

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th>Integral Top</th>
<th>Intermediate Section</th>
<th>Integral Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000-8000 Gal.</td>
<td>B-8</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 11&quot;</td>
<td>8'- 11&quot;</td>
</tr>
</tbody>
</table>

### Grease Traps

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Integral Top</th>
<th>Intermediate Section</th>
<th>Integral Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 Gallon Seamless</td>
<td>B-29</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1000 Gallon Seamless</td>
<td>B-29</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1250 Gallon Seamless</td>
<td>B-29</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>750 Gal. Heavy Duty</td>
<td>B-30</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 8&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1000 Gal. Heavy Duty</td>
<td>B-30</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 8&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1200 Gal. Heavy Duty</td>
<td>B-30</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 10&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1500 Gal. Heavy Duty</td>
<td>B-31</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 8&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2000 Gal. Heavy Duty</td>
<td>B-31</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2500 Gal. Heavy Duty</td>
<td>B-31</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 6&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>3000 Gal. Heavy Duty</td>
<td>B-31</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 6&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>3500-5500 Gal. H.D.</td>
<td>B-32</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 8&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>6000-8000 Gal. H.D.</td>
<td>B-33</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 11&quot;</td>
<td>8'- 11&quot;</td>
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</tbody>
</table>

### Chlorine Contact Tanks

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Integral Top</th>
<th>Intermediate Section</th>
<th>Integral Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>470 Gallon</td>
<td>B-17</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>1000 Gallon</td>
<td>B-18</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 5&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>1500 Gallon</td>
<td>B-19</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>4'- 8&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2000 Gallon</td>
<td>B-19</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2500 Gallon</td>
<td>B-19</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>5'- 6&quot;</td>
<td>NA</td>
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</table>
## Table D-1 (cont.)
### Maximum Section Depths

<table>
<thead>
<tr>
<th>Structure</th>
<th>Page No.</th>
<th>Design Case</th>
<th>Maximum Earth Cover</th>
<th>Maximum Section Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Integral Top</td>
<td>Integral Intermediate Section</td>
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<tr>
<td><strong>Dosing Tanks</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-1 Style</td>
<td>B-21</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>A-2 Style</td>
<td>B-22</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>B- Style</td>
<td>B-23</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>C- Style</td>
<td>B-24</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>D- Style</td>
<td>B-25</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>E- Style</td>
<td>B-26</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>G- Style</td>
<td>B-27</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Distribution Boxes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#1</td>
<td>B-9</td>
<td>4</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>#2</td>
<td>B-10</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>#3</td>
<td>B-11</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>#4</td>
<td>B-12</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
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<tr>
<td><strong>Catch Basins</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2'- 0&quot; x 2'- 0&quot;</td>
<td>B-53, B-54</td>
<td>2</td>
<td>3'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2'- 6&quot; x 2'- 6&quot;</td>
<td>B-55 to B-57</td>
<td>2</td>
<td>3'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>2'- 6&quot; x 4'- 0&quot;</td>
<td>B-57</td>
<td>2</td>
<td>3'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>3'- 0&quot; x 3'- 0&quot;</td>
<td>B-57</td>
<td>2</td>
<td>3'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>3'- 6&quot; x 4'- 0&quot;</td>
<td>B-57</td>
<td>2</td>
<td>3'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>DOT Catch Basins</td>
<td>B-58, B-59</td>
<td>2</td>
<td>2'- 0&quot;</td>
<td>NA</td>
</tr>
<tr>
<td>Transverse Drainage</td>
<td>B-60</td>
<td>2</td>
<td></td>
<td>NA</td>
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<tr>
<td><strong>Square and Rectangular Structures</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4'- 0&quot; x 4'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>4'- 0&quot; x 6'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>5'- 0&quot; x 5'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>5'- 0&quot; x 7'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>5'- 0&quot; x 10'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>6'- 0&quot; x 8'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>6'- 0&quot; x 10'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>6'- 0&quot; x 12'- 0&quot;</td>
<td>B-61</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 2&quot;</td>
</tr>
<tr>
<td>7'- 0&quot; x 16'- 0&quot;</td>
<td>B-62</td>
<td>3</td>
<td>2'- 0&quot;</td>
<td>6'- 11&quot;</td>
</tr>
</tbody>
</table>
1000 and 1250 GALLON
SEAMLESS SEPTIC TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

18"Ø OPENING (TYPICAL)
W/ 24"Ø PRECAST CAP

5'-3"
1250 GAL

5'-0"
1000 GAL

5'-6"
5'-2"

3" 2'-0"

10'-2"
1250 GAL

8'-8\(^{1/2}\)"
1000 GAL

4'-6"
4'-0"
LIQUID LEVEL

NOTES:
• BAFFLES ARE 2"THICK x 24"HIGH
• 4"Ø HIGH DENSITY POLYETHYLENE
PIPE SEALS PROVIDED AT ALL PIPE
CONNECTIONS SHOWN.
• CONFORMS TO CURRENT NYSDEC REGULATIONS
• DESIGN CASE 4 (NON-TRAFFIC)

<table>
<thead>
<tr>
<th>TANK SIZE</th>
<th>WEIGHTS, LBS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>TOP SLAB</td>
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<tr>
<td>1000</td>
<td>2160</td>
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<tr>
<td>1250</td>
<td>2660</td>
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</table>

*INCLUDES BAFFLE
HEAVY DUTY SEPTIC TANK

1000 GALLON

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

NOTES:
- INLET AND OUTLET TEES SUPPLIED BY CONTRACTOR
- 4"Ø HIGH DENSITY POLYETHYLENE PIPE SEALS PROVIDED AT ALL PIPE CONNECTIONS SHOWN.
- THERE ARE INLET KNOCKOUTS ON THREE SIDES FOR 4"Ø PIPE.
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>OUTSIDE TANK HEIGHT</th>
<th>TANK WEIGHT, LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>5'-0&quot;</td>
<td>5'-10&quot;</td>
<td>5'-7&quot;</td>
<td>6'-10&quot;</td>
<td>6120</td>
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<tr>
<td></td>
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<td></td>
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<td>5600</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11,720</td>
</tr>
</tbody>
</table>

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SCHUYLERVILLE, NY 12871
PO BOX 98

THE FORT MILLER CO., INC.

HEAVY DUTY SEPTIC TANK

ACAD DWG: B2
1200 to 2500 GALLON HEAVY DUTY SEPTIC TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

INLET AND OUTLET TEES
SUPPLIED BY CONTRACTOR
INLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE ON THREE SIDES.
DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>OUTSIDE HEIGHT</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>TANK WEIGHT, LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>5'-5&quot;</td>
<td>3'-3&quot;</td>
<td>4'-3&quot;</td>
<td>4'-0&quot;</td>
<td>10,000 11,740 960 22,700</td>
</tr>
<tr>
<td>1500</td>
<td>6'-3&quot;</td>
<td>4'-1&quot;</td>
<td>5'-1&quot;</td>
<td>4'-10&quot;</td>
<td>12,000 11,740 1175 24,915</td>
</tr>
<tr>
<td>2000</td>
<td>5'-11&quot;</td>
<td>3'-9&quot;</td>
<td>4'-9&quot;</td>
<td>4'-6&quot;</td>
<td>13,140 16,320 1300 30,760</td>
</tr>
<tr>
<td>2500</td>
<td>6'-11&quot;</td>
<td>4'-9&quot;</td>
<td>5'-9&quot;</td>
<td>5'-6&quot;</td>
<td>16,000 16,320 1605 33,925</td>
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</tbody>
</table>

NOTES:

- INLET AND OUTLET TEES
- SUPPLIED BY CONTRACTOR
- INLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE ON THREE SIDES.
- DESIGN CASE 3 (TRAFFIC)
3000 to 4000 GALLON HEAVY DUTY SEPTIC TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- INLET & OULET TEES SUPPLIED BY CONTRACTOR.
- INLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE ON THREE SIDES.
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>INTEGRAL TOP HEIGHT</th>
<th>INTEGRAL BASE HEIGHT</th>
<th>OVERALL HEIGHT INSIDE</th>
<th>OVERALL HEIGHT OUTSIDE</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INTEGRAL BASE (LBS)</th>
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</thead>
<tbody>
<tr>
<td>3000</td>
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<td>5'-1&quot;</td>
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<td>5'-0&quot;</td>
<td>6'-2&quot;</td>
<td>21,600</td>
<td>22,200</td>
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<tr>
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<td>5'-4&quot;</td>
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<td>3'-0&quot;</td>
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<td>6'-5&quot;</td>
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<tr>
<td>4000</td>
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<td>25,800</td>
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</tr>
</tbody>
</table>
### 4500 to 8000 Gallon Heavy Duty Septic Tank

**Concrete:** 4000 PSI  
**Reinforcement:** ASTM A615 - Grade 60  
**Entrained Air:** 5.0% - 9.0%  
**-Meets ASTM C890-**

---

**Baffle Height Allows for a 4½" High Vent Over Entire Width of Tank.**

**Tanks Can Be Used in Series to Accommodate Capacities Between 10,500 and 16,000 Gallons.**

**Design Case 2 (Traffic)**

**Notes:**
- Inlet & Outlet Knockouts to Accommodate 6"Ø & 8"Ø Pipe.
- Piping Shown Is Not Included With Tank.
- Separate Slide-In Baffle w/ 10"x24" Opening 5½" Thick

---

**Diagram:**
- Baffle: **'A'**  
- Outside Height: **5'-4"**  
- Overall Height: **5'-7"**  
- Liquid Level: **5'-0"**  
- Baffles: **'L'**

---

### Dimensions

<table>
<thead>
<tr>
<th>Size Gallons</th>
<th>Outside Width 'W'</th>
<th>Outside Length 'L'</th>
<th>Overall Height</th>
<th>Dist. to Baffle 'A'</th>
<th>Top Thickness 'R'</th>
<th>Base Thickness 'B'</th>
<th>Flat Top Slab Wgt. (LBS)</th>
<th>Base Section Wgt. (LBS)</th>
<th>Slide-in Baffle Wgt. (LBS)</th>
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<tbody>
<tr>
<td>4500</td>
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<td>15,400</td>
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<td>5000</td>
<td>9'-0&quot;</td>
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<td>16,600</td>
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<td>8&quot;</td>
<td>25,000</td>
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<td>3800</td>
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<td>7'-2&quot;</td>
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<td>8&quot;</td>
<td>26,200</td>
<td>48,800</td>
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<td>7000</td>
<td>11'-0&quot;</td>
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<td>10&quot;</td>
<td>28,800</td>
<td>51,800</td>
<td>4200</td>
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<tr>
<td>7500</td>
<td>11'-0&quot;</td>
<td>22'-0&quot;</td>
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<td>7'-10&quot;</td>
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<td>30,200</td>
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<td>10&quot;</td>
<td>8&quot;</td>
<td>31,600</td>
<td>55,800</td>
<td>4200</td>
</tr>
</tbody>
</table>

---

**Contact:**
- Phone: (518) 695-5000  
- Fax: (518) 695-4970  
- Website: www.fortmiller.com  
- The Fort Miller Co., Inc.  
  Schuylerville, NY 12871  
  PO Box 98
### 8500 to 10,500 Gallon Heavy Duty Septic Tank

**Concrete:** 5000 PSI  
**Reinforcement:** ASTM A615 - Grade 60  
**Entrained Air:** 5.0% - 9.0%  
*Meets ASTM C890*

---

**Separate Slide-In Baffle w/ 10"x24" Opening 5¾" Thick**

**24"Ø Opening (Typical)**

**5′-7″ Typical All Inlets**

**5′-0″ LIQUID LEVEL**

**6′BAFFLE**

**'L'**

**'W'**

**'A′**

---

**Notes:**
- Inlet & Outlet knockouts to accommodate 6″Ø & 8″Ø pipe.
- Piping shown is not included with tank.
- Baffle height allows for a 4½″ high vent over entire width of tank.
- Tanks can be used in series to accommodate capacities between 10,500 and 16,000 gallons.
- Design Case 2 (Traffic)

<table>
<thead>
<tr>
<th>Size Gallons</th>
<th>Outside Width 'W'</th>
<th>Outside Length 'L'</th>
<th>Overall Height</th>
<th>Dist. To Baffle 'A'</th>
<th>Top Thickness 'R'</th>
<th>Base Thickness 'B'</th>
<th>Flat Top Slab Wgt. (LBS)</th>
<th>Base Section Wgt. (LBS)</th>
<th>Slide-In Baffle Wgt. (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8500</td>
<td>11'-0&quot;</td>
<td>24'-6&quot;</td>
<td>7'-8&quot;</td>
<td>8'-6&quot;</td>
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<td>34,000</td>
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<td>9000</td>
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<td>36,000</td>
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<tr>
<td>9500</td>
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<td>7'-8&quot;</td>
<td>8'-6&quot;</td>
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<td>38,000</td>
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<td>40,000</td>
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<td>10,500</td>
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<td>8&quot;</td>
<td>42,000</td>
<td>68,000</td>
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</table>
CONCRETE: 5000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -
3000 to 8000 GALLON HEAVY DUTY HOLDING TANK

**CONCRETE:** 4000 PSI  
**REINFORCEMENT:** ASTM A615 - GRADE 60  
ASTM A185 - GRADE 60  
**ENTRAINLED AIR:** 5.0% - 9.0%  
- MEETS ASTM C890 -

NOTES:  
* INLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE ON THREE SIDES. OUTLET OPENING TO ACCOMODATE 6"Ø PIPE.  
* SPECIAL BUTYL REQUIRED FOR POTABLE WATER (PLEASE INQUIRE)  
* DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>ACTUAL CAPACITY GALLONS</th>
<th>LIQUID LEVEL &quot;L&quot;</th>
<th>INTEGRAL TOP HEIGHT INSIDE</th>
<th>INTERMEDIATE HEIGHT</th>
<th>INTEGRAL BASE HEIGHT INSIDE</th>
<th>OVERALL HEIGHT INSIDE</th>
<th>OVERALL HEIGHT OUTSIDE</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INT. BASE (LBS)</th>
<th>*INTERMEDIATE (LBS)</th>
<th>TOTAL WEIGHT (LBS)</th>
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<td>3000</td>
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<td>3'-0&quot;</td>
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<td>29,000</td>
<td>25,600</td>
<td>8400</td>
<td>63,000</td>
</tr>
</tbody>
</table>

*INCLUDES WEIGHT OF STRUCTURAL BEAM

FORT MILLER
THE FORT MILLER CO., INC.
PO BOX 98
SCHUYLERVILLE, NY 12871
PHONE: (518) 695-5000
FAX: (518) 695-4970
www.fortmiller.com

6/02
B-8
ACAD DWG: B8
#1 DISTRIBUTION BOX
(5) OUTLET

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
- MEETS ASTM C890 -
ENTRAINED AIR: 5.0% - 9.0%

NOTES:
• OPTIONAL LIQUID LEVELLER PIPE
  INSERTS (SPEED LEVELERS) AVAILABLE UPON REQUEST.
• TOP, BOTTOM, AND SIDES
  ALL 1 1/2" THICK.
• DESIGN CASE 4 (NON-TRAFFIC)

<table>
<thead>
<tr>
<th>SLAB TOP (LBS)</th>
<th>BOTTOM (LBS)</th>
<th>TOTAL (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>70</td>
<td>98</td>
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</tbody>
</table>

OUTLETS - (5) 4"Ø
KNOCKOUTS WITH
HIGH DENSITY POLYETHYLENE
PIPE SEALS.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

NOTES:
- OPTIONAL LIQUID LEVELLER PIPE INSERTS (SPEED LEVELERS) AVAILABLE UPON REQUEST.
- TOP, BOTTOM, AND SIDES ALL 1 1/2" THICK.
- DESIGN CASE 2 (TRAFFIC)

SLAB TOP (LBS)  BOTTOM (LBS)  TOTAL (LBS)
50          144       194

OUTLETS: (8) 4"Ø KNOCKOUTS WITH HIGH DENSITY POLYETHYLENE PIPE SEALS.
#3 DISTRIBUTION BOX
(13) OUTLET

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

WEIGHTS, LBS

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<tr>
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<th>TOP SLAB</th>
<th>BOTTOM</th>
<th>TOTAL</th>
</tr>
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<tr>
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<td>510</td>
<td>1030</td>
<td>1540</td>
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</tbody>
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NOTES:
- OPTIONAL LIQUID LEVELLER PIPE
  INSERTS (SPEED LEVELERS) AVAILABLE UPON REQUEST.
- WALL THICKNESS IS 3" AT TOP AND TAPERS TO 4" AT THE BOTTOM.
- DESIGN CASE 2 (TRAFFIC)

OUTLETS (13) 4"Ø KNOCKOUTS WITH HIGH DENSITY POLYETHYLENE PIPE SEALS.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

OUTLETS
(20) 4"Ø KNOCKOUTS WITH HIGH DENSITY POLYETHYLENE PIPE SEALS.

NOTES:
• OPTIONAL LIQUID LEVELLER PIPE INSERTS (SPEED LEVELERS) AVAILABLE UPON REQUEST.
• TOP THICKNESS IS 6" AND BOTTOM THICKNESS IS 4\frac{1}{2}".
• DESIGN CASE 2 (TRAFFIC).

WEIGHTS, LBS

<table>
<thead>
<tr>
<th></th>
<th>TOP SLAB</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2400</td>
<td>3267</td>
<td>5667</td>
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**CONCRETE:** 4000 PSI  
**REINFORCEMENT:**  
- ASTM A615 - GRADE 60  
- ASTM A185 - GRADE 65  
**ENTRAINED AIR:** 5.0% - 9.0%

**DESIGN CASE 1A**  
(NON-TRAFFIC)

**WEIGHTS, LBS**

<table>
<thead>
<tr>
<th>TOP SLAB</th>
<th>RISER SECTION</th>
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<tr>
<td>598</td>
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**DESIGN CASE 1B**  
(TRAFFIC)

**WEIGHTS, LBS**

<table>
<thead>
<tr>
<th>TOP SLAB</th>
<th>RISER SECTION</th>
<th>BASE SLAB</th>
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</thead>
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<td>1127</td>
<td>1337</td>
<td>998</td>
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</table>
**CONCRETE:** 4000 PSI  
**REINFORCEMENT:** ASTM A615 - GRADE 60  
ASTM A185 - GRADE 65  
**ENTRAINED AIR:** 5.0% - 9.0%  

24"Ø OPENING WITH 34"Ø PRECAST CAP OR CAST IRON AVAILABLE.

4" NON-TRAFFIC OR 8" TRAFFIC

FLAT JOINTS (TYP.)

1½" SQUARE X 5" SQUARE TAPERED HOLES (16 HOLES PER 2'-8" HIGH SECTION)

NOTES:

- FOOTING REQUIRED FOR TRAFFIC DESIGN.
- DESIGN CASE 1A (NON-TRAFFIC)
- DESIGN CASE 1B WITH 12" MAX DEPTH. (TRAFFIC)

<table>
<thead>
<tr>
<th></th>
<th>4&quot; FLAT TOP SLAB</th>
<th>8&quot; FLAT TOP SLAB</th>
<th>PER SECTION</th>
<th>FOOTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHTS, LBS</td>
<td>700</td>
<td>1400</td>
<td>1300</td>
<td>1400</td>
</tr>
</tbody>
</table>
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%

**WEIGHTS, LBS**

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<thead>
<tr>
<th>5&quot; FLAT TOP SLAB</th>
<th>8&quot; FLAT TOP SLAB</th>
<th>EACH SECTION</th>
<th>FOOTING</th>
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<tbody>
<tr>
<td>2000</td>
<td>3200</td>
<td>3620</td>
<td>2200</td>
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</tbody>
</table>

**NOTES:**
- FOOTING REQUIRED FOR TRAFFIC DESIGN.
- DESIGN CASE 1A (NON-TRAFFIC)
- DESIGN CASE 1B WITH 12' MAX DEPTH. (TRAFFIC)
- 4" Ø INLET HOLES ARE PROVIDED.

**6'-0" I.D. DRY WELL**

- 24" Ø OPENING WITH 34" Ø PRECAST CAP OR CAST IRON AVAILABLE.
- 5" NON-TRAFFIC OR 8" TRAFFIC
- FLAT JOINTS (TYP.)
- 1'-10" TO INLET
- 4" Ø INLET HOLES ARE PROVIDED.

**SPECIFICATIONS:**

- ASTM A185 - GRADE 65
- ASTM A615 - GRADE 60
- ENTRAINED AIR: 5.0% - 9.0%
- 4000 PSI CONCRETE
- WEIGHTS: 2000, 3200, 3620, 2200 LBS

**CONTACT:**

- PHONE: (518) 695-5000
- FAX: (518) 695-4970
- WEBSITE: www.fortmiller.com

**LOCATION:**

- SCHUYLERVILLE, NY 12871
- FORT MILLER CONCRETE: 4000 PSI

**FORT MILLER CO., INC.**

- PO BOX 98
- SCHUYLERVILLE, NY 12871
- PHONE: (518) 695-5000
- FAX: (518) 695-4970
- www.fortmiller.com
8'-0" O.D. DRY WELL

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%

WEIGHTS, LBS
6" FLAT TOP SLAB  8" FLAT TOP SLAB  RISER/VERT. FT  FOOTING
3600  4750  1200  2410

FLAT JOINTS (TYP.)
1½" SQUARE X
5" SQUARE TAPERED HOLES
(108 PER 5' HIGH SECTION)
(84 PER 4' HIGH SECTION)
(36 PER 2' HIGH SECTION)

NOTES:
• FOOTING REQUIRED FOR TRAFFIC DESIGN.
• DESIGN CASE 1A (NON-TAFFIC)
• DESIGN CASE 1B WITH 12' MAX DEPTH.
  (TRAFFIC)

24"Ø OPENING WITH 34"Ø PRECAST CAP
OR CAST IRON AVAILABLE.

INLET
6" NON-TAFFIC
OR 8" TRAFFIC

2'-0"
4'-0"
OR
5'-0"

1'-9"
TO INLET

8'-0"

4"
4"
CHLORINE CONTACT TANK

470 GALLON

OPENINGS FOR 6"Ø PIPE PROVIDED.

DESIGN CASE 4 (NON-TRAFFIC)

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

FLAT SLAB TOP (LBS.) BOTTOM SECTION INCL. BAFFLES TOTAL (LBS.)
1740 6940 8680

NOTES:
- OPENINGS FOR 6"Ø PIPE PROVIDED.
- PLEASE INQUIRE REGARDING SPECIAL JOINT SEALANT MATERIALS.
- DESIGN CASE 4 (NON-TRAFFIC)
1000 GALLON
CHLORINE CONTACT TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%

NOTES:
• 8"Ø OPENINGS FOR 6"Ø PIPE ARE PROVIDED.
• PLEASE INQUIRE REGARDING SPECIAL JOINT SEALANT MATERIALS.
• DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>INT. TOP SECTION (LBS)</th>
<th>INT. BOTTOM SECTION INCL. BAFFLES (LBS)</th>
<th>TOTAL (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,800</td>
<td>16,075</td>
<td>26,875</td>
</tr>
</tbody>
</table>
# Chlorine Contact Tank

**1500 - 2000 - 2500 Gallon Chlorine Contact Tank**

<table>
<thead>
<tr>
<th>Size Gallons</th>
<th>Liquid Level 'L'</th>
<th>Inlet Height 'I'</th>
<th>Outlet Height 'O'</th>
<th>Integral Top Height Inside</th>
<th>Integral Base Height Inside</th>
<th>Air Depth 'A'</th>
<th>Outside Height</th>
<th>Tank Weight, LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>3'-1&quot;</td>
<td>3'-8&quot;</td>
<td>3'-5&quot;</td>
<td>2'-0&quot;</td>
<td>3'-9&quot;</td>
<td>3'-6&quot;</td>
<td>3'-11&quot;</td>
<td>17,399</td>
</tr>
<tr>
<td>2000</td>
<td>4'-1&quot;</td>
<td>4'-8&quot;</td>
<td>4'-5&quot;</td>
<td>3'-6&quot;</td>
<td>3'-3&quot;</td>
<td>3'-6&quot;</td>
<td>7'-11&quot;</td>
<td>18,764</td>
</tr>
<tr>
<td>2500</td>
<td>5'-1&quot;</td>
<td>5'-8&quot;</td>
<td>5'-5&quot;</td>
<td>2'-10&quot;</td>
<td>4'-5&quot;</td>
<td>3'-4&quot;</td>
<td>8'-5&quot;</td>
<td>19,431</td>
</tr>
</tbody>
</table>

*Weight of bottom section includes baffles.*

**Concrete:** 4000 PSI

**Reinforcement:**
- ASTM A615 - Grade 60
- ASTM A185 - Grade 60

**Entrained Air:** 5.0% - 9.0%

- Meets ASTM C890

- **8"Ø Openings for 6"Ø Pipe Provided.**
- **Please Inquire Regarding Special Joint Sealant Materials.**
- **Design Case 3 (Traffic)**

**Notes:**

- Concreting: 4000 PSI
- Reinforcement: ASTM A615 - Grade 60
- ASTM A185 - Grade 60
- Entrained Air: 5.0% - 9.0%
- Meets ASTM C890

**Concrete:** 4000 PSI

**Reinforcement:**
- ASTM A615 - Grade 60
- ASTM A185 - Grade 60

**Entrained Air:** 5.0% - 9.0%

- Meets ASTM C890

**Notes:**

- 8"Ø Openings for 6"Ø Pipe Provided.
- Please Inquire Regarding Special Joint Sealant Materials.
- Design Case 3 (Traffic)
A-1 STYLE
DOSING TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIPHON SIZE</th>
<th>F&quot;</th>
<th>SINGLE SIPHON</th>
<th>DBL. ALT. SIPHON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DRAW</td>
<td>DOSE</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>13&quot;</td>
<td>130 GAL.</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>17&quot;</td>
<td>170 GAL.</td>
</tr>
</tbody>
</table>

TOP SLAB (LBS) | BOTTOM SLAB (LBS) | SIDEWALL PER FOOT (LBS) | CONCRETE: 4000 PSI
2515 | 1875 | 1500 |

THE FORT MILLER CO., INC.
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FAX: (518) 695-4970
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SCHUYLERVILLE, NY 12871
PHONE: (518) 695-5000
FAX: (518) 695-4970
www.fortmiller.com
A-2 STYLE
DOSING TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
• DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>Siphon Size</th>
<th>F&quot;</th>
<th>Single Siphon</th>
<th>DBL. Alt. Siphon</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3&quot;</td>
<td>13&quot; 202 GAL.</td>
<td>12&quot; 187 GAL.</td>
</tr>
<tr>
<td></td>
<td>4&quot;</td>
<td>17&quot; 265 GAL.</td>
<td>16&quot; 249 GAL.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Top Slab (LBS)</th>
<th>Bottom Slab (LBS)</th>
<th>Sidewall Per Foot (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3620</td>
<td>2700</td>
<td>1800</td>
</tr>
</tbody>
</table>

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FAX: (518) 695-4970
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6/02
6/22
ACAD DWG: B22
DOSING TANK

B - STYLE

DESIGN CASE 2 (TRAFFIC)

8"  6"  2'-6"

24"Ø OPENING (TYP)

12"Ø TAPERED PLUG

20" (TYP)

6"  8"

14"

24"  16"

VARIATES 31" TO 49"

SINGLE CUTOUT AVAILABLE

6' 0"

6' 6"

1' 0"

1' 6"

3' 0"

2' 6"

20" (TYP)

NOTES:

- DESIGN CASE 2 (TRAFFIC)

SIPHON SIZE

F"

SINGLE SIPHON

DBL. ALT. SIPHON

DRAW DOSE DRAW DOSE

3"  3"  13"  283 GAL.  12"  262 GAL.

4"  3"  17"  372 GAL.  16"  350 GAL.

5"  3"  23"  503 GAL.  22"  480 GAL.

6"  4"  30"  656 GAL.  28"  612 GAL.

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -
C - STYLE DOSING TANK

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIPHON SIZE</th>
<th>F&quot;</th>
<th>SINGLE SIPHON</th>
<th>DBL. ALT. SIPHON</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>13&quot; DRAW</td>
<td>388 GAL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12&quot; DRAW</td>
<td>359 GAL.</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>17&quot; DRAW</td>
<td>510 GAL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16&quot; DRAW</td>
<td>477 GAL.</td>
</tr>
<tr>
<td>5&quot;</td>
<td>3&quot;</td>
<td>23&quot; DRAW</td>
<td>689 GAL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22&quot; DRAW</td>
<td>657 GAL.</td>
</tr>
<tr>
<td>6&quot;</td>
<td>4&quot;</td>
<td>30&quot; DRAW</td>
<td>898 GAL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28&quot; DRAW</td>
<td>837 GAL.</td>
</tr>
</tbody>
</table>

6/02
B-24
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>TOP SLAB (LBS)</th>
<th>BOTTOM SLAB (LBS)</th>
<th>SIDEWALL PER FOOT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7700</td>
<td>5780</td>
<td>2560</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIPHON SIZE</th>
<th>F&quot;</th>
<th>SINGLE SIPHON</th>
<th>DBL. ALT. SIPHON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DRAW</td>
<td>DOSE</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>13&quot;</td>
<td>486 GAL.</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>17&quot;</td>
<td>639 GAL.</td>
</tr>
<tr>
<td>5&quot;</td>
<td>3&quot;</td>
<td>23&quot;</td>
<td>864 GAL.</td>
</tr>
<tr>
<td>6&quot;</td>
<td>4&quot;</td>
<td>30&quot;</td>
<td>1125 GAL.</td>
</tr>
</tbody>
</table>

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SCHUYLERVILLE, NY 12871
THE FORT MILLER CO., INC.
PO BOX 98
FORT MILLER
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>TOP SLAB (LBS)</th>
<th>BOTTOM SLAB (LBS)</th>
<th>SIDEWALL PER FOOT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9100</td>
<td>6820</td>
<td>2860</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIPHON SIZE</th>
<th>F&quot;</th>
<th>SINGLE SIPHON DRAW</th>
<th>DOSE</th>
<th>DBL. ALT. SIPHON DRAW</th>
<th>DOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>13&quot;</td>
<td>584 GAL.</td>
<td>12&quot;</td>
<td>539 GAL.</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>17&quot;</td>
<td>765 GAL.</td>
<td>16&quot;</td>
<td>718 GAL.</td>
</tr>
<tr>
<td>5&quot;</td>
<td>3&quot;</td>
<td>23&quot;</td>
<td>1035 GAL.</td>
<td>22&quot;</td>
<td>990 GAL.</td>
</tr>
<tr>
<td>6&quot;</td>
<td>4&quot;</td>
<td>30&quot;</td>
<td>1350 GAL.</td>
<td>28&quot;</td>
<td>1262 GAL.</td>
</tr>
</tbody>
</table>
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- DESIGN CASE 2 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIPHON SIZE</th>
<th>F&quot;</th>
<th>SINGLE SIPHON</th>
<th>DBL. ALT. SIPHON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DRAW</td>
<td>DOSE</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>13&quot;</td>
<td>907 GAL.</td>
</tr>
<tr>
<td>4&quot;</td>
<td>3&quot;</td>
<td>17&quot;</td>
<td>1193 GAL.</td>
</tr>
<tr>
<td>5&quot;</td>
<td>3&quot;</td>
<td>23&quot;</td>
<td>1613 GAL.</td>
</tr>
<tr>
<td>6&quot;</td>
<td>4&quot;</td>
<td>30&quot;</td>
<td>2100 GAL.</td>
</tr>
</tbody>
</table>

DOSE TANK

G - STYLE

24"Ø OPENING

8"

20" (TYP)

24" (TYP)

24"Ø TAPERED PLUG

14"

16"

9"

16" DRAW

17'-0"

VARIES 31" TO 49"

8'

1'-0"

1'-6"

3'-0"

8'-0"

6"

SIDEWALL PER FOOT (LBS)

TOP SLAB (LBS)

BOTTOM SLAB (LBS)

3600

13,600

10,200

17'-0"

SINGLE CUTOUT AVAILABLE.

LOW

HIGH

6"
750-1000-1250 GALLON SEAMLESS GREASE TRAP

**CONCRETE:** 4000 PSI  
**REINFORCEMENT:** ASTM A615 - GRADE 60  
ASTM A185 - GRADE 60  
**ENTRAINED AIR:** 5.0% - 9.0%  
- MEETS ASTM C890 -

**NOTES:**
- 4"Ø HIGH DENSITY POLYETHYLENE PIPE SEALS PROVIDED AT ALL PIPE CONNECTIONS SHOWN.  
- FUEL AND OIL RESISTANT GREY BUTYL (CS-440 OR EQUAL) REQUIRED ON ALL GREASE TRAPS.  
- INLET & OUTLET TEES SUPPLIED BY CONTRACTOR  
- NO BAFFLES INCLUDED  
- DESIGN CASE 4 (NON-TRAFFIC)

<table>
<thead>
<tr>
<th>TANK SIZE</th>
<th>TOP SLAB</th>
<th>BOTTOM</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>1760</td>
<td>6340</td>
<td>8100</td>
</tr>
<tr>
<td>1000</td>
<td>2180</td>
<td>7360</td>
<td>9540</td>
</tr>
<tr>
<td>1250</td>
<td>2680</td>
<td>8460</td>
<td>11,120</td>
</tr>
</tbody>
</table>

**WEIGHTS, LBS**

**ACAD DWG:** B29
### HEAVY DUTY GREASE TRAP

**750 - 1000 - 1200 GALLON**

HEAVY DUTY GREASE TRAP

**Features:**
- 4"Ø HIGH DENSITY POLYETHYLENE PIPE SEALS PROVIDED AT ALL PIPE CONNECTIONS SHOWN.
- INLET AND OUTLET TEES SUPPLIED BY CONTRACTOR.
- FUEL AND OIL RESISTANT GREY BUTYL (CS-440 OR EQUAL) REQUIRED ON ALL GREASE TRAPS.
- DESIGN CASE 3 (TRAFFIC)

**Concrete:**
- 4000 PSI
- REINFORCEMENT: ASTM A615 - GRADE 60
- ASTM A185 - GRADE 60
- ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890

**Notes:**
- 4"Ø HIGH DENSITY POLYETHYLENE PIPE SEALS PROVIDED AT ALL PIPE CONNECTIONS SHOWN.
- INLET AND OUTLET TEES SUPPLIED BY CONTRACTOR.
- FUEL AND OIL RESISTANT GREY BUTYL (CS-440 OR EQUAL) REQUIRED ON ALL GREASE TRAPS.
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>OUTSIDE HEIGHT</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INTEGRAL BASE (LBS)</th>
<th>TOTAL (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>4'-0&quot;</td>
<td>4'-7&quot;</td>
<td>5'-10&quot;</td>
<td>5'-7&quot;</td>
<td>5000</td>
<td>5600</td>
<td>10,600</td>
</tr>
<tr>
<td>1000</td>
<td>5'-0&quot;</td>
<td>5'-10&quot;</td>
<td>6'-10&quot;</td>
<td>6'-4&quot;</td>
<td>6000</td>
<td>6000</td>
<td>11,600</td>
</tr>
<tr>
<td>1200</td>
<td>5'-9&quot;</td>
<td>6'-7&quot;</td>
<td>7'-7&quot;</td>
<td>7'-7&quot;</td>
<td>6400</td>
<td>6000</td>
<td>12,400</td>
</tr>
</tbody>
</table>
HEAVY DUTY GREASE TRAP

1500 to 3000 GALLON

NOTES:
- INLET AND OUTLET TEES SUPPLIED BY CONTRACTOR.
- INLET AND OUTLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE.
- BAFFLE IS SEPARATE SLIDE-IN TYPE.
- FUEL AND OIL RESISTANT GREY BUTYL IS REQUIRED (CS-440 OR EQUAL).
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'I'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>INTEGRAL TOP HEIGHT INSIDE</th>
<th>INTEGRAL BASE HEIGHT INSIDE</th>
<th>OVERALL HEIGHT (LBS)</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INTEGRAL BASE (LBS)</th>
<th>BAFFLE (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>4'-6&quot;</td>
<td>5'-6&quot;</td>
<td>5'-3&quot;</td>
<td>2'-0&quot;</td>
<td>3'-6&quot;</td>
<td>11,400</td>
<td>13,400</td>
<td>13,400</td>
<td>3600</td>
</tr>
<tr>
<td>2000</td>
<td>6'-0&quot;</td>
<td>7'-0&quot;</td>
<td>6'-9&quot;</td>
<td>3'-6&quot;</td>
<td>3'-6&quot;</td>
<td>15,000</td>
<td>13,400</td>
<td>13,400</td>
<td>4600</td>
</tr>
<tr>
<td>2500</td>
<td>5'-2&quot;</td>
<td>6'-2&quot;</td>
<td>5'-11&quot;</td>
<td>2'-10&quot;</td>
<td>3'-4&quot;</td>
<td>17,200</td>
<td>16,400</td>
<td>16,400</td>
<td>3200</td>
</tr>
<tr>
<td>3000</td>
<td>6'-2&quot;</td>
<td>7'-2&quot;</td>
<td>6'-11&quot;</td>
<td>3'-10&quot;</td>
<td>3'-4&quot;</td>
<td>20,000</td>
<td>16,400</td>
<td>16,400</td>
<td>5800</td>
</tr>
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</table>

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
- MEETS ASTM C890 -
3500 to 5500 GALLON
HEAVY DUTY GREASE TRAP

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>INTEGRAL TOP HEIGHT INSIDE</th>
<th>INTEGRAL BASE HEIGHT INSIDE</th>
<th>OVERALL HEIGHT INSIDE</th>
<th>OVERALL HEIGHT OUTSIDE</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INTEGRAL BASE (LBS)</th>
<th>BAFFLE WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3500</td>
<td>4'-6&quot;</td>
<td>5'-6&quot;</td>
<td>5'-3&quot;</td>
<td>1'-3&quot;</td>
<td>4'-3&quot;</td>
<td>5'-6&quot;</td>
<td>6'-8&quot;</td>
<td>18,200</td>
<td>25,600</td>
<td>6000</td>
</tr>
<tr>
<td>4000</td>
<td>5'-3&quot;</td>
<td>6'-3&quot;</td>
<td>6'-0&quot;</td>
<td>2'-0&quot;</td>
<td>4'-3&quot;</td>
<td>6'-3&quot;</td>
<td>7'-5&quot;</td>
<td>20,800</td>
<td>25,600</td>
<td>6800</td>
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<tr>
<td>4500</td>
<td>5'-9&quot;</td>
<td>6'-9&quot;</td>
<td>6'-6&quot;</td>
<td>2'-6&quot;</td>
<td>4'-3&quot;</td>
<td>6'-9&quot;</td>
<td>7'-11&quot;</td>
<td>22,600</td>
<td>25,600</td>
<td>7400</td>
</tr>
<tr>
<td>5000</td>
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<td>7'-6&quot;</td>
<td>7'-3&quot;</td>
<td>3'-3&quot;</td>
<td>4'-3&quot;</td>
<td>7'-6&quot;</td>
<td>8'-8&quot;</td>
<td>25,400</td>
<td>25,600</td>
<td>8200</td>
</tr>
<tr>
<td>5500</td>
<td>7'-3&quot;</td>
<td>8'-3&quot;</td>
<td>8'-0&quot;</td>
<td>4'-0&quot;</td>
<td>4'-3&quot;</td>
<td>8'-3&quot;</td>
<td>9'-5&quot;</td>
<td>28,000</td>
<td>25,600</td>
<td>9000</td>
</tr>
</tbody>
</table>

NOTES:
- INLET AND OUTLET TEES SUPPLIED BY CONTRACTOR.
- INLET AND OUTLET KNOCKOUTS PROVIDED FOR 6"Ø PIPE.
- BAFFLE IS SEPARATE SLIDE-IN TYPE.
- FUEL AND OIL RESISTANT GREY BUTYL IS REQUIRED (CS-440 OR EQUAL).
- DESIGN CASE 3 (TRAFFIC)
6000 to 8000 GALLON
HEAVY DUTY GREASE TRAP

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 60
ENTRAIN AIR: 5.0% - 9.0%
- MEETS ASTM C890 -

NOTES:
- INLET AND OUTLET TEES
  SUPPLIED BY CONTRACTOR.
- INLET AND OUTLET KNOCKOUTS PROVIDED
  FOR 6"Ø PIPE.
- BAFFLE IS CAST MONOLITHICALLY WITH EACH SECTION.
- FUEL AND OIL RESISTANT GREY
  BUTYL IS REQUIRED (CS-440 OR EQUAL).
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE GALLONS</th>
<th>LIQUID LEVEL 'L'</th>
<th>INLET HEIGHT 'I'</th>
<th>OUTLET HEIGHT 'O'</th>
<th>INTEGRAL TOP HEIGHT INSIDE</th>
<th>INTERMEDIATE HEIGHT INSIDE</th>
<th>INTEGRAL BASE HEIGHT INSIDE</th>
<th>OVERALL HEIGHT INSIDE</th>
<th>OVERALL HEIGHT OUTSIDE</th>
<th>INTEGRAL TOP (LBS)</th>
<th>INTEGRAL MEDIUM (LBS)</th>
<th>INTEGRAL BASE (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000</td>
<td>7'-8&quot;</td>
<td>8'-8&quot;</td>
<td>8'-5&quot;</td>
<td>2'-3&quot;</td>
<td>2'-0&quot;</td>
<td>4'-5&quot;</td>
<td>8'-8&quot;</td>
<td>9'-10&quot;</td>
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<td>4'-5&quot;</td>
<td>9'-2&quot;</td>
<td>10'-4&quot;</td>
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<td>8200</td>
<td>28,600</td>
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<td>10'-5&quot;</td>
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<td>11'-7&quot;</td>
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<td>11'-10&quot;</td>
<td>31,200</td>
<td>8200</td>
<td>28,600</td>
</tr>
</tbody>
</table>
Downstream Defender™
Stormwater Runoff System

Product Description
When rainwater flows over paved surfaces, it washes off a variety of solid and dissolved pollutants, many of which are settleable or floatable (hydrocarbons and trash) or can carry contaminants that must be prevented from reaching receiving waters. The Downstream Defender™ meets the stormwater challenge by maintaining higher removal efficiencies over a wider range of flow rates. Fort Miller’s Downstream Defender is an advanced hydrodynamic vortex separator that augments gravitational forces with rotary and shear forces to separate settleable solids in a smaller land area than conventional sedimentation basins. An oil/floatables trap is incorporated into the same vessel. The result is a compact solution for non-point source pollution prevention. The Downstream Defender can also be used as a pretreatment device before detention systems, mitigating wetlands, swales, filters, or other polishing systems.

Product Features

- **Standard sizes:** Inside diameters of 4’, 6’, 8’, or 10’-6”
- **Custom sizes:** Diameters up to 40’ for large-flow applications
- **Easy to permit:** Already approved by regulatory agencies around the world
- **Easy to install:** Delivered to site ready for installation and connection
- **Easy to maintain:** Annual cleaning recommended in most situations
- **No internal restrictions:** Low headlosses and reduced risk of blockage

Installation Locations Include
- New developments
- Streets and roadways
- Vehicle maintenance yards
- Airports, truck stops, shopping malls, restaurants, supermarkets, etc...
- Construction sites
- Parking lots
- Industrial and commercial facilities
Engineered and proven solutions to your construction opportunities

Visit our website or call us for more information on these and other products available from Fort Miller.

Bridge Systems and Related Products:
- Inverset™ – precast precompressed composite bridge system
- Effideck™ – lightweight precast deck replacement system
- HY-SPAN® – three-sided bridge system
- Segmental, post-tensioned box girders
- Post-tensioned precast deck panels
- Bolt-down precast bridge parapets
- Precast concrete “Texas Rail” balustrades
- Box culverts
- Precast, segmental post-tensioned piers

Retaining Wall Systems:
- T-Wall™ – precast retaining wall system
- Sta-Wal™ – precast bin retaining wall system
- Iso-Grid™ – an M.S.E. wall system
- Terrastop™ – segmental block wall system
- Precast lagging wall panels
- Precast concrete wingwalls

Erosion Control Products and Systems:
- Armormat™ – a precast interlocking revetment and boat ramp system
- Sta-Pods™ – precast interlocking slope stabilization units

Environmental Products:
- Armor Cast™ – precast concrete and steel above-ground fuel storage systems
- Armor Vault™ – precast concrete and steel below-ground fuel storage systems
- Oil-Water Separators
- Storm water runoff systems
- Grit chambers
- Energy dissipaters

Custom Specialty Products:
- Super-Slab™ – precast pavement slabs for airports and highways
- Precast concrete airport control towers
- Jail cells
- Lock chamber walls and aprons
- Rock catchment barriers
- Utility trenches
- Custom underground structures for drainage, utilities, etc.

Highway Products:
- Median Barriers – Safety shape, Single Slope, Custom
- Asymmetrical median barrier
- Vari-Wall™ – variable height barrier with footing
- Noise Barriers – reflective and absorptive

Don’t forget our extensive line of complementary precast products:
- Manholes
- Precast curb
- Light pole bases
- Catch basins
- Drainage structures

Fort Miller specializes in “Invisible Construction™.”

If overnight, over the weekend, time-sensitive construction work is required, call Fort Miller.

The Fort Miller Co., Inc.
A Fort Miller Group Company
P.O. Box 98
Schuylerville, NY 12871
Tel (518) 695-5000
FAX (518) 695-4970
E-mail info@fortmiller.com
Web www.fortmiller.com

Your imagination is our only limitation
Product Description

If your project calls for maximum oil, grease and sediment separation with minimum maintenance, the PuriSep™ Differential Gravity Inclined Plate Separator is your choice.

Fort Miller’s PuriSep inclined plate separator works full time. Its self-cleaning parallel plates maintain laminar flow through the separator without plate fouling and without re-entrainment. It separates free oil and grease, as well as total petroleum hydrocarbons, to less than 10 PPM effluent content, and provides better than 99% separation of sediment and heavy solids (all particles are 60 microns or larger). In addition, PuriSep separators maintain these efficiencies for up to 225% of its designed flow rating. These separators do not stop functioning above a certain flow rate, thereby providing full-time environmental protection.

The FRP plates require no cleaning, back flushing with water or chemicals or periodic replacement of filters. The only maintenance is periodic draw-off of accumulated oil and sludge. Sludge draw-off is facilitated by perforated laterals on the floor of the tank that are connected to a header and riser. The sludge riser is conveniently located under one of the two manholes while the oil draw-off riser is located under the other.

PuriSep separators are easy to install: just excavate, set the tank, install inlet and outlet piping and backfill. No onsite assembly is required and units are available in precast concrete tanks for flows up to 2000 GPM. The plate design permits the use of minimum-sized tanks for each flow rating, thus providing savings in excavation and real estate costs. Because the tanks are concrete, special leak detection and corrosion protection are not required.

For more information on the highly efficient PuriSep oil water separator, or to discuss your specific application, call Ed Johnson at The Fort Miller Co., Inc. at (518) 695-5000 or (800) 355-TANK.
PuriSep™: A cost-effective design for a long-term investment.

PuriSep plants are designed for:
• Simultaneous removal of both rising and settling particles from their carrier fluid
• Removal of neutral gravity (non-settling) particles from their carrier fluid
• Removal of oil, grit and settleable solids for stormwater treatment
• Water clarification in the removal of settleable solids and neutral gravity particles
• Combination staged treatment in the sequential removal of rising, settling and/or neutral gravity particles by using dissolved air flotation (DAF)

Strong and Safe
• Constructed of corrosion-resistant materials
• All structural joints are welded for maximum strength
• Inside and outside are coated for maximum abrasion and corrosion-resistance
• A touch-up kit is provided to repair mars or scratches

User Friendly
• Highly-trained operators not necessary for long-term consistent and effective use
• System intentionally oversized to minimize maintenance
• Continuous evaluation to provide the best performing particle separation equipment technically possible

More than just manufacturing
Fort Miller will be with you throughout your project by:
• Manufacturing the vault
• Providing vault access
• Providing technical assistance during installation
• Conducting necessary performance testing

Particle Separation
• Flow distribution and collection networks provide for pressure drops and resulting flow distribution
• Separator removable for maintenance and inspection
• Storage space below separator for separated and settled sludge for collection and removal

Satisfied PuriSep Users:
✅ US Navy
✅ Boeing Company
✅ US DOT
✅ City of Seattle
✅ Brazos Electric Power
✅ Army Marine Corps
✅ US Army
✅ City of Los Angeles
✅ City of Honolulu
✅ PPG Industries
✅ Puget Sound Naval Shipyard
✅ Nellis Air Force Base

Visit our website or call for more information on PuriSep Oil Water Separators, our other environmental products, or any of Fort Miller’s other products for bridges, retaining walls, highways, erosion control, or any of our specialty products.
**MANHOLE SECTIONS**

**4’-0” I.D.**

**CONCRETE:** 4000 PSI
**REINFORCEMENT:** ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
**ENTRAINED AIR:** 5.5% - 9.5%

**DESIGN CASE 1B** (TRAFFIC)

**DESIGN CASE 1C** (TRAFFIC)

**CONCRETE & REINFORCEMENT AS PER ASTM C478**

**24” I.D. OR 30” I.D. OPENING**

**COVER**
1785 LBS

**CONE**
2450 LBS

**2987 LBS**

**CONE**
2500 LBS

**BARREL**
875 LBS PER FOOT

4” (TYP)

**NOTES:**

- DESIGN CASE 1B (TRAFFIC)
- DESIGN CASE 1C (TRAFFIC)

**BASE UNIT**
875 LBS PER FOOT +
1849 LBS FOR BASE +
140 LBS FOR LIP
*SEE SHEET B-50 FOR AVAILABLE BASE OPTIONS*

**SEPARATE BASE**
1667 LBS
**MANHOLE BASE UNITS**

**CONCRETE:** 4000 PSI
**REINFORCEMENT:** ASTM A615 - GRADE 60
  ASTM A185 - GRADE 65
**MEETS ASTM C478**
**ENTRAINED AIR:** 5.5% - 9.5%
**DESIGN CASE 1B & 1C (TRAFFIC)**

**PIECE AngULUS AVAILABLe TO BOTH RIgHT ANd LElF ORIENfATIONS**

<table>
<thead>
<tr>
<th>&quot;X&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
</tr>
<tr>
<td>105°</td>
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<tr>
<td>135°</td>
</tr>
<tr>
<td>150°</td>
</tr>
<tr>
<td>165°</td>
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</table>

**TYPICAL OPENINGS AND POLYPROPYLENE MANHOLE CONNECTORS CONFORMING TO ASTM C923.**

**NOTES:**
- TURNOVER BASES HAVE 12"Ø FORMED OPENINGS AND POLYPROPYLENE MANHOLE STEPS ORIENTED AS SHOWN.
- THE FORMED OPENINGS ACCEPT 6"Ø OR 8"Ø KOR-N-SEAL FLEXIBLE PIPE TO MANHOLE CONNECTORS CONFORMING TO ASTM C923.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

POLYPROPYLENE STEPS @ 12" O.C.

NOTE: WELDED WIRE FABRIC REINFORCEMENT IS CONTINUOUS THROUGH KNOCKOUTS
HEAVIEST PICK: ± 4,720 LBS.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

RISER UNIT
2070 LBS.

BASE UNIT
3460 LBS.

POLYPROPYLENE
STEPS @ 12" O.C.

NOTES:
• DESIGN CASE 1B
  (TRAFFIC)
• DESIGN CASE 1C
  (TRAFFIC)

PLAN VIEW
CROSS SECTION TYPICAL OF RISER AND BASE UNIT
MANHOLE SECTIONS

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ENTRAYED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

24" I.D. OR 30" I.D. OPENING

COVER
2722 LBS

REDUCER
2320 LBS

CONE
4540 LBS

CONE
3675 LBS

RISER
1296 LBS PER FOOT

BASE UNIT*
1296 LBS PER FOOT +
225 LBS FOR LIP +
2842 LBS FOR BASE
*SEE SHEET B-50 FOR AVAILABLE BASE SECTIONS

SEPARATE BASE
4020 LBS

NOTES:
- DESIGN CASE 1B (TRAFFIC)
- DESIGN CASE 1C (TRAFFIC)

THE FORT MILLER CO., INC.
PO BOX 98
SCHUYLERVILLE, NY 12871
PHONE: (518) 695-5000
FAX: (518) 695-4970
www.fortmiller.com
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

NOTE: WELDED WIRE FABRIC REINFORCEMENT IS CONTINUOUS THROUGH KNOCKOUTS

HEAVIEST PICK: ± 7,890 LBS.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

6'-0" I.D.

MANHOLE SECTIONS

24" I.D. OR 30" I.D.
OPENING

COVER
4083 LBS

7'-2"

4'-0"

1'-5"

1'-0"

TRANSITION SLAB
4900 LBS

RISER

1798 LBS PER FOOT
1'-0" MIN.
8'-0" MAX

8"

6'-0"

7"

1798 LBS PER FOOT

SEPARATE BASE
3800 LBS

STEPS @ 12" O.C.

BASE UNIT*
*SEE SHEET B-50 FOR AVAILABLE BASE SECTIONS

NOTES:
DESIGN CASE 1B
*TRAFFIC
DESIGN CASE 1C
*TRAFFIC

**PLATFORM
6541 LBS MAX
**PLATFORM DESIGN CASE 6

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FAX: (518) 695-4970
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SCHUYLERVILLE, NY 12871
FORT MILLER
PO BOX 98

ASTM A185 - GRADE 65 (WWF)
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
CONCRETE & REINFORCEMENT AS PER ASTM C478

NOTES:
DESIGN CASE 1B
*TRAFFIC
DESIGN CASE 1C
*TRAFFIC
6'-6" I.D.
MANHOLE SECTIONS

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

24" I.D. OR 30" I.D.
OPENING

COVER
4864 LBS

7'-9"

TRANSITION SLAB
5310 LBS

6'-6"

RISER
5" TYP.

7½" 1'-0" MIN.

7'-0" MAX

7½"

BASE UNIT:
*SEE SHEET B-50 FOR AVAILABLE BASE SECTIONS

STEPS @
12" O.C.

7'-0" MAX

8"

2098 LBS PER FOOT +
417 LBS FOR LIP +
4740 LBS FOR BASE

NOTES:
• DESIGN CASE 1B (TRAFFIC)
• DESIGN CASE 1D (TRAFFIC)

OPENING AS REQUIRED

*PLATFORM
7164 LBS MAX
*PLATFORM DESIGN CASE 6

7729 LBS

SEPARATE BASE
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
CONCRETE & REINFORCEMENT AS PER ASTM C478

24" I.D. OR 30" I.D.
OPENING

COVER
5660 LBS

8'-0"
7'-0"
8"
1'-1"

TRANSITION SLAB
6480 LBS

OPENING AS REQUIRED

8" 1'-1"

*PLATFORM
8829 LBS MAX
*PLATFORM DESIGN CASE 6

2421 LBS PER FOOT

RISER
5" TYP.

8"

7'-0"
8"
1'-0" MIN.
8'-0" MAX

SEPARATE BASE
8155 LBS

STEPS @ 12" O.C.

6'-0" MAX

BASE UNIT*
*SEE SHEET B-50 FOR AVAILABLE BASE SECTIONS

2421 LBS PER FOOT +
486 LBS FOR LIP +
5490 LBS FOR BASE

NOTES:
• DESIGN CASE 1B (TRAFFIC)
• DESIGN CASE 1D (TRAFFIC)
**CONCRETE:** 4000 PSI
**REINFORCEMENT:** ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
**ENTRAINED AIR:** 5.5% - 9.5%
**CONCRETE & REINFORCEMENT AS PER ASTM C478**

**COVER**
7419 LBS

**TRANSITION SLAB**
9400 LBS

**OPENING AS REQUIRED**

**PLATFORM**
11474 LBS
*PLATFORM DESIGN CASE 6*

**SEPARATE BASE**
10893 LBS

**RISER**
3092 LBS PER FOOT

**BASE UNIT:**
(INTEGRAL BASE, NOT MONOLITHIC)
*SEE SHEET B-50 FOR AVAILABLE BASE SECTIONS*

**NOTES:**
- DESIGN CASE 1B (TRAFFIC)
- DESIGN CASE 1D (TRAFFIC)
**MANHOLE SECTIONS**

**10'-6" I.D.**

**CONCRETE:** 4000 PSI

**REINFORCEMENT:**
- ASTM A615 - GRADE 60
- ASTM A185 - GRADE 65

**ENTRAINED AIR:** 5.5% - 9.5%

**WALL THICKNESS DOES NOT CONFORM TO ASTM C478, BUT HS-20 LIVE LOADING STILL APPLIES.**

---

**24"I.D. OR 30" I.D. OPENING**

- **COVER**
  - 11,634 LBS

**TRANSITION SLAB**

- 12,500 LBS

**OPENING AS REQUIRED**

- *PLATFORM*
  - 19,143 LBS
  - *PLATFORM DESIGN CASE 6*

**SEPARATE BASE**

- 18,387 LBS

---

**RISER**

- 3526 LBS PER FOOT
- 2'-0" MIN., 6'-0" MAX

**BASE UNIT**

- (INTEGRAL BASE, NOT MONOLITHIC)
- 3526 LBS PER FOOT + 840 LBS FOR LIP + 11,057 LBS FOR BASE

---

**NOTES:**

- DESIGN CASE 1B (TRAFFIC)
- DESIGN CASE 1D (TRAFFIC)
MANHOLE BASE DETAIL SHEET

MANHOLE BASE TYPE
FIELD CONDITIONS, DEPTH OF STRUCTURE, AND EQUIPMENT AVAILABILITY ARE FACTORS TO CONSIDER IN SELECTING THE TYPE OF BASE. PLEASE CONSULT OUR OFFICE FOR DETAILS.
ADDITIONAL DETAILS ARE GIVEN ON THE CATALOG PAGES FOR SPECIFIC SIZED MANHOLES.

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>WEIGHTS, LBS</th>
<th>STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURE INSIDE DIA.</td>
<td>T_W</td>
<td>T_B</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>6&quot;</td>
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<td>6'-0&quot;</td>
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<td>8&quot;</td>
</tr>
<tr>
<td>6'-6&quot;</td>
<td>7.2&quot;</td>
<td>8&quot;</td>
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<td>8&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>9&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>10'-6&quot; **</td>
<td>8&quot;</td>
<td>8&quot;</td>
</tr>
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</table>

* INCREASED BASE THICKNESS IS AVAILABLE.
** WALL THICKNESS DOES NOT CONFORM TO ASTM C478.
ROUND, SQUARE OR RECTANGULAR SHAPES AVAILABLE, CONSULT OUR OFFICE FOR MORE INFORMATION.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60 (REBAR)
ASTM A185 - GRADE 65 (WWF)
ENTRAINED AIR: 5.5% - 9.5%
-MEETS ASTM C890-

ROUND OR SQUARE OPENING AS REQUIRED

INSIDE HEIGHT KNOCKOUT SIZE

<table>
<thead>
<tr>
<th>INSIDE HEIGHT</th>
<th>KNOCKOUT SIZE</th>
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</thead>
<tbody>
<tr>
<td>3'-0&quot;</td>
<td>18&quot;x30&quot;</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>18&quot;x42&quot;</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>18&quot;x54&quot;</td>
</tr>
</tbody>
</table>

WEIGHTS

<table>
<thead>
<tr>
<th>TOP SLAB LBS</th>
<th>BOTTOM SLAB LBS</th>
<th>PER VF LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>570</td>
<td>680</td>
<td>690</td>
</tr>
</tbody>
</table>

KNOCKOUTS CENTERED ON ALL FOUR WALLS

FM JOB NO.: ____________
DATE: ____________
CONTRACTOR: ____________
PROJECT: ____________

THE FORT MILLER CO., INC.
PO BOX 98
SCHUYLERVILLE, NY 12871
PHONE: (518) 695-5000
FAX: (518) 695-4970
www.fortmiller.com
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

2'-0" x 2'-0" I.D.
CATCH BASIN

WEIGHTS

<table>
<thead>
<tr>
<th>BOTTOM SLAB</th>
<th>PER VERT. FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBS.</td>
<td>LBS.</td>
</tr>
<tr>
<td>675</td>
<td>750</td>
</tr>
</tbody>
</table>

NOTES:
- DESIGN CASE 2 (TRAFFIC)
2'-6" x 2'-6" ID
STOCK KNOCKOUT
CATCH BASIN

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.5% - 9.5%
-MEETS ASTM C890-

ROUND OR SQUARE
OPENING
AS REQUIRED

CONCRETE TOP SHOWN
CAST IRON TOP AVAILABLE

1'-0" OR 2'-0"
INTERMEDIATE
SECTIONS AVAILABLE

INSIDE HEIGHT KNOCKOUT SIZE
2'-6"  24"x24" SQ.
3'-0"  24"x30"
4'-0"  24"x42"
5'-0"  24"x54"

WEIGHTS

<table>
<thead>
<tr>
<th>TOP SLAB</th>
<th>BOTTOM SLAB</th>
<th>PER VF</th>
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<td>770</td>
<td>920</td>
<td>830</td>
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FM JOB NO.: ____________
DATE: ____________
CONTRACTOR: ____________
PROJECT: ____________

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SCHUYLERVILLE, NY 12871

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FAX: (518) 695-4970
www.fortmiller.com
2'-6" x 2'-6" x 2'-6" ID
STOCK CATCH BASIN

CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

DESIGN CASE 2 (TRAFFIC)

WEIGHTS

<table>
<thead>
<tr>
<th>FLAT SLAB TOP</th>
<th>CATCH BASIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBS.</td>
<td>LBS.</td>
</tr>
<tr>
<td>770</td>
<td>2400</td>
</tr>
</tbody>
</table>

NOTES:
* DESIGN CASE 2 (TRAFFIC)
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890-

WEIGHTS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>W &amp; L</th>
<th>TOP SLAB (LBS.)</th>
<th>BOTTOM SLAB (LBS.)</th>
<th>VERTICAL FOOT (LBS.)</th>
<th>ROOF THICKNESS 'T'</th>
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</thead>
<tbody>
<tr>
<td>2'-6&quot; x 2'-6&quot;</td>
<td>770</td>
<td>919</td>
<td>900</td>
<td>5&quot;</td>
<td></td>
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<tr>
<td>2'-6&quot; x 4'-0&quot;</td>
<td>1313</td>
<td>1313</td>
<td>1125</td>
<td>6&quot;</td>
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<tr>
<td>3'-6&quot; x 4'-0&quot;</td>
<td>1688</td>
<td>1688</td>
<td>1275</td>
<td>6&quot;</td>
<td></td>
</tr>
<tr>
<td>3'-0&quot; x 3'-0&quot;</td>
<td>1200</td>
<td>1200</td>
<td>1050</td>
<td>6&quot;</td>
<td></td>
</tr>
</tbody>
</table>

OPENINGS CAN BE CAST IN FLAT SLAB AS REQUIRED

RISER SECTIONS 1'-0" TO 6'-0" AVAILABLE

FLAT JOINT (TYP)

SIDEWALL OPENINGS OR KNOCKOUTS AS REQUIRED

NOTES:
• DESIGN CASE 2 (TRAFFIC)
• POLYPROPYLENE STEPS AVAILABLE.

PHOTO COPY DE MATERIAL OPTIONS

PO BOX 98
SCHUYLERVILLE, NY 12871
PHONE: (518) 695-5000
FAX: (518) 695-4970
www.fortmiller.com
### CATCH BASINS

- **CONCRETE:** 25 MPa (3626 PSI)
- **REINFORCEMENT:** ASTM A615 - GRADE 60
  
  ASTM A185 - GRADE 65
- **ENTRAINED AIR:** 5.0% - 9.0%

### GENERAL NOTES:
- Above drawing is a representation of a NYSDOT catch basin.
- All catch basins are produced in conformance with Section 706.04 of the N.Y.S. Standard Specification.
- Wall thickness (6” or 8”) is determined by overall depth of structure.
- See sheet B-59 for specific English and metric width and length dimensions for various types of catch basins.
<table>
<thead>
<tr>
<th>CB TYPE</th>
<th>WIDTH</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>&quot;A&quot;</td>
<td>915</td>
<td>915</td>
<td>3'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>&quot;B&quot;</td>
<td>1220</td>
<td>915</td>
<td>4'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>&quot;C&quot;</td>
<td>1525</td>
<td>915</td>
<td>5'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>&quot;D&quot;</td>
<td>2030</td>
<td>915</td>
<td>6'-8&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>&quot;E&quot;</td>
<td>915</td>
<td>1220</td>
<td>3'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>&quot;F&quot;</td>
<td>1220</td>
<td>1220</td>
<td>4'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>&quot;G&quot;</td>
<td>1525</td>
<td>1220</td>
<td>5'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>&quot;H&quot;</td>
<td>2030</td>
<td>1220</td>
<td>6'-8&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>&quot;J&quot;</td>
<td>915</td>
<td>1525</td>
<td>3'-0&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>&quot;K&quot;</td>
<td>1525</td>
<td>1525</td>
<td>5'-0&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>&quot;L&quot;</td>
<td>2030</td>
<td>1525</td>
<td>6'-8&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>&quot;M&quot;</td>
<td>915</td>
<td>2030</td>
<td>3'-0&quot;</td>
<td>6'-8&quot;</td>
</tr>
<tr>
<td>&quot;N&quot;</td>
<td>1220</td>
<td>2030</td>
<td>4'-0&quot;</td>
<td>6'-8&quot;</td>
</tr>
<tr>
<td>&quot;O&quot;</td>
<td>1525</td>
<td>2030</td>
<td>5'-0&quot;</td>
<td>6'-8&quot;</td>
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<td>6'-8&quot;</td>
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<tr>
<td>&quot;Q&quot;</td>
<td>865</td>
<td>915</td>
<td>2'-10&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>&quot;R&quot;</td>
<td>865</td>
<td>1170</td>
<td>2'-10&quot;</td>
<td>3'-10&quot;</td>
</tr>
<tr>
<td>&quot;S&quot;</td>
<td>610</td>
<td>815</td>
<td>2'-0&quot;</td>
<td>2'-8&quot;</td>
</tr>
<tr>
<td>&quot;T&quot;</td>
<td>660</td>
<td>1065</td>
<td>2'-2&quot;</td>
<td>3'-6&quot;</td>
</tr>
<tr>
<td>&quot;U&quot;</td>
<td>865</td>
<td>965</td>
<td>2'-10&quot;</td>
<td>3'-2&quot;</td>
</tr>
</tbody>
</table>

CONCRETE: 25 MPa (3626 PSI)
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%
CONCRETE: 3000 PSI OR 4,000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.5% - 9.5%

ENDWALL (AS REQUIRED) WITH PIPE OPENING.

3½" x 2½" x ½"
GALVANIZED ANGLE IRON FRAME TO RECEIVE RETICULINE GRATING.
NOTE: CAST IRON ANGLE FRAME & GRATING AVAILABLE TOO.

3/4" DIAMETER SLEEVE
TONGUE AND GROOVE JOINT

WEIGHT 625 LBS PER L.F.

NOTES:
• FOR ADDITIONAL INFORMATION SEE NYS DOT STANDARD SHEET 604-1.
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR: 5.0% - 9.0%
-MEETS ASTM C890, C857-

(FLAT SLAB TOP AVAILABLE)

INTTEGRAL TOP SECTION

INTERMEDIATE SECTIONS AS REQUIRED

TONGUE AND GROOVE OR SHIPLAP JOINTS.

INTEGRAL BASE SECTION

NOTES:
- CUSTOM OPENINGS AS REQUIRED.
- POLYPROPYLENE STEPS AVAILABLE.
- SEE DESIGN SECTION FOR DESIGN PARAMETERS.
- EXTENDED BASES AVAILABLE ON SOME SIZES.
  PLEASE CONSULT OUR OFFICE.
- SPECIAL HEIGHT SECTIONS AVAILABLE SUBJECT TO DESIGN CRITERIA & REVIEW.
- DESIGN CASE 3 (TRAFFIC)

<table>
<thead>
<tr>
<th>SIZE (I.D.) WIDTH x LENGTH</th>
<th>BASE SLAB (LBS.)</th>
<th>ROOF SLAB (LBS.)</th>
<th>VERT. FT. (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4'-0&quot; x 4'-0&quot;</td>
<td>1880</td>
<td>1880</td>
<td>1350</td>
</tr>
<tr>
<td>4'-0&quot; x 6'-0&quot;</td>
<td>2630</td>
<td>3520</td>
<td>1650</td>
</tr>
<tr>
<td>5'-0&quot; x 5'-0&quot;</td>
<td>2700</td>
<td>3620</td>
<td>1650</td>
</tr>
<tr>
<td>5'-0&quot; x 7'-0&quot;</td>
<td>3600</td>
<td>4825</td>
<td>1950</td>
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<td>5'-0&quot; x 10'-0&quot;</td>
<td>4950</td>
<td>6630</td>
<td>2400</td>
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<tr>
<td>6'-0&quot; x 8'-0&quot;</td>
<td>4725</td>
<td>6330</td>
<td>2250</td>
</tr>
<tr>
<td>6'-0&quot; x 10'-0&quot;</td>
<td>5775</td>
<td>7740</td>
<td>2550</td>
</tr>
<tr>
<td>6'-0&quot; x 12'-0&quot;</td>
<td>6825</td>
<td>9150</td>
<td>2850</td>
</tr>
</tbody>
</table>
CONCRETE:  4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ENTRAINED AIR:  5.0% - 9.0%
-MEETS ASTM C890, C857-

DESIGN CASE 2
(TRAFFIC)

C OF STRUCTURAL BEAM
REQUIRED IN INTERMEDIATE ONLY

WEIGHTS

<table>
<thead>
<tr>
<th>BASE SLAB LBS.</th>
<th>ROOF SLAB LBS.</th>
<th>PER VERTICAL FOOT LBS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,200</td>
<td>13,668</td>
<td>3,600</td>
</tr>
</tbody>
</table>

FLAT SLAB TOP AVAILABLE

8"  4'-3" MAX
6"  2'-0" MAX
6"  4'-5" MAX
6"  8"  6"

INTEGRAL BASE SECTION

INTEGRAL TOP SECTION

INTERMEDIATE SECTIONS AS REQUIRED

TOP SECTION

OPENINGS AS REQUIRED

6"  8'-0"
6"  4'-5" MAX
5'-10"
17'-0"

NOTES:

- DESIGN CASE 2
  (TRAFFIC)
- DESIGN CASE 3
  (TRAFFIC)
- OPENINGS AS REQUIRED
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%

**SOME GRADE EXTENSIONS ARE AVAILABLE IN PALLETTIZED QUANTITIES ONLY.**

**QUANTITIES AS FOLLOWS:**

- 1½" & 2" THICK @ (6) PER PALLET
- 3" THICK @ (4) PER PALLET

**ALL OTHER SIZES ARE AVAILABLE INDIVIDUALLY.**

**DESIGNED FOR AASHTO H-20 LOADING**

**SOIL PRESSURE 120 PCF**

**DESIGN CASE 1 (TRAFFIC)**
CONCRETE: 4000 PSI
REINFORCEMENT: ASTM A615 - GRADE 60
ASTM A185 - GRADE 65
ENTRAINED AIR: 5.0% - 9.0%

NOTES:
- DESIGN CASE 1 (TRAFFIC)
- SQUARE AND RECTANGULAR ACCESS EXTENSIONS ARE ALSO AVAILABLE. PLEASE CONSULT OUR OFFICE.

### WEIGHTS, LBS

<table>
<thead>
<tr>
<th>I.D.</th>
<th>SLAB THICKNESS</th>
<th>SLAB WEIGHT</th>
<th>LBS./FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'-0&quot;</td>
<td>4&quot;</td>
<td>238</td>
<td>480</td>
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<tr>
<td>2'-6&quot;</td>
<td>5&quot;</td>
<td>433</td>
<td>578</td>
</tr>
<tr>
<td>3'-0&quot;</td>
<td>6&quot;</td>
<td>570</td>
<td>665</td>
</tr>
</tbody>
</table>
A variety of hatch styles and sizes can be used in square, rectangular or round structures. Before we can prepare shop drawings, we must have a technical data sheet of the hatch showing the following information:

1. Type of mount
2. Step location
3. Location of hatch in roof slab
4. Drain location (if required)
5. Hinge location & orientation
6. Design loading

Note: Skirts for hatches are available upon request.
Perma-curb™
precast concrete curb

Product Description
Perma-Curb™ provides an aesthetically pleasing and cost effective alternative to conventional cast-in-place and granite curb. Not only is the linear foot price competitive, but the product can also be installed by a small crew not inhibited by seasonal limitations. The material is produced locally and delivered quickly. A layout drawing can be supplied indicating the piece mark number and location. The wide variety of lengths, radii and shapes in stock will expedite your installation schedule. Perma-Curb™ provides a durable, consistent texture that resists abrasion and freeze-thaw cycles.

Product Features
Concrete strength 5,000 psi at 28 days
Entrained air 5.0% to 9.0%
Water cement ratio less than 0.40
Average freeze thaw loss less than 4%
No steel reinforcement
Smooth form finish
Over 500,000 linear feet installed
**Typical Installation Notes**

Set and adjust to line and grade on pads of bedding material. Bedding to be dry concrete or gravel. Units should be “backed” with concrete for all radius pieces and 1'-0" on both sides of the joint for straight pieces. Units butt together without mortar, 0" - 3/8" joint allowable. Field cut units as required.

### Standard radius units

<table>
<thead>
<tr>
<th>Radius (ft)</th>
<th>Inside Radius</th>
<th>Outside Radius</th>
<th># Pieces per 1/4 Circle</th>
<th>Length</th>
<th>Arc Length per Degree (inches)</th>
<th>Approximate Weight (lbs/piece)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>R1 1/2</td>
<td></td>
<td>Bullnose</td>
<td>3'-8&quot;</td>
<td>0.31</td>
<td>410</td>
</tr>
<tr>
<td>2.5</td>
<td>R2 1/2</td>
<td>1</td>
<td>3'-11&quot;</td>
<td>0.52</td>
<td>440</td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>R5</td>
<td>2</td>
<td>3'-11&quot;</td>
<td>1.05</td>
<td>440</td>
<td></td>
</tr>
<tr>
<td>6.5</td>
<td>R6 1/2</td>
<td>2</td>
<td>5'-01&quot;</td>
<td>1.36</td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>R7 1/2</td>
<td>3</td>
<td>3'-11&quot;</td>
<td>1.57</td>
<td>440</td>
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<tr>
<td>10.0</td>
<td>IR10</td>
<td>2</td>
<td>7'-10&quot;</td>
<td>2.09</td>
<td>875</td>
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<td>15.0</td>
<td>IR15</td>
<td>3</td>
<td>7'-10&quot;</td>
<td>3.14</td>
<td>875</td>
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<td>20.0</td>
<td>IR20</td>
<td>4</td>
<td>7'-10&quot;</td>
<td>4.19</td>
<td>875</td>
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<td>25.0</td>
<td>IR25</td>
<td>5</td>
<td>7'-10&quot;</td>
<td>5.24</td>
<td>875</td>
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<td>30.0</td>
<td>IR30</td>
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<td>7'-10&quot;</td>
<td>6.28</td>
<td>875</td>
<td></td>
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<td>35.0</td>
<td>IR35</td>
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<td>7'-10&quot;</td>
<td>7.33</td>
<td>875</td>
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<td>40.0</td>
<td>IR40</td>
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<td>8.38</td>
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<td>50.0</td>
<td>IR50</td>
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<td>7'-10&quot;</td>
<td>10.47</td>
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<td>60.0</td>
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<td>7'-10&quot;</td>
<td>18.75</td>
<td>875</td>
<td></td>
</tr>
</tbody>
</table>

Note: For radii greater than 90'-0" use standard straight sections.

### STANDARD STRAIGHT UNITS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Mark No.</th>
<th>Length</th>
<th>Weight (lbs/piece)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>S4</td>
<td>4'-0&quot;</td>
<td>450</td>
</tr>
<tr>
<td>Standard</td>
<td>S6</td>
<td>6'-0&quot;</td>
<td>675</td>
</tr>
<tr>
<td>Standard</td>
<td>S8</td>
<td>8'-0&quot;</td>
<td>900</td>
</tr>
<tr>
<td>Drop Type 1 (driveway areas)</td>
<td>DL1, DR</td>
<td>7'-6&quot;</td>
<td>820</td>
</tr>
<tr>
<td>Driveway Drop Section (1&quot; reveal)</td>
<td>D4</td>
<td>4'-0&quot;</td>
<td>330</td>
</tr>
<tr>
<td>Drop Type II (handicapped areas)</td>
<td>DRI, DRI*</td>
<td>6'-0&quot;</td>
<td>675</td>
</tr>
<tr>
<td>Inside Corner</td>
<td>I8</td>
<td>8'-0&quot;</td>
<td>900</td>
</tr>
<tr>
<td>Outside Corner</td>
<td>E8</td>
<td>8'-0&quot;</td>
<td>900</td>
</tr>
</tbody>
</table>

*Drop sections Type II can utilize straight and radius sections. 0" reveal in handicap drop section areas with a 1:12 transition slope.
The Fort Miller Co., Inc. was founded on the belief that customer satisfaction and product quality were paramount to success. Over the years this philosophy has proven itself many times over, elevating The Fort Miller Co., Inc. to be the #1 choice for precast concrete products for local and regional markets. We endeavor to consistently improve our product line, explore new concepts and be the leader throughout the industry.

Most significantly, we at The Fort Miller Co., Inc. know our success is based on your success. Listening, designing, providing and servicing have never been taken lightly at our company. These are not only our roots, but also the embodiment of our entire business philosophy.

If you’re new to The Fort Miller Co., Inc., Welcome Aboard! We’re looking forward to working with you every step of the way on any project where we may be of service. If you’re an existing customer of ours, we thank you for your support and will do our best to keep YOU number ONE.