



eNewsletter

Summer 2013

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Precast Grease Interceptors

By Chuck Overbay, Concrete Sealants, Inc.

Each day throughout the United States, precast concrete grease interceptors provide value and service. Precast concrete performs in a variety of applications with outstanding results due to the versatility and durability of the product. Recently though, concrete grease interceptors have come under fire from various regulating agencies. In the Chicago area for example, regulators are specifying plastic or fiberglass reinforced polyester holding tanks over the traditional precast concrete structures.

According to one specifying agency, precast tanks cause concern in three basic areas.

Corrosion

Relocation of the inlet/outlet on site

Warranty

The alternative holding tanks claim to offer better effluent, no corrosion, installation flexibility, and a 30 year warranty. Additional claims against precast concrete are that concrete is condemned to corrode. The unpleasant odor escaping from installed concrete grease interceptors can cause health problems. Concrete interceptors do

not effectively address discharge compliance required by the Clean Water Act, (Proceptor, n.d.).

Alternative systems promote their product as the “new green alternative”. The popularity of these alternative systems has gained momentum in many large metropolitan areas. Precast concrete manufacturers need to be proactive and demonstrate the value of using concrete. If precast producers do not look into their rear view mirror the plastic and fiberglass systems will pass them by replacing concrete grease interceptors.

The National Precast Concrete Association can be an asset to producers who need assistance in combating alternative holding tanks. New technology provides precast concrete the ability to resist corrosion and deliver longer service life than the plastic or fiberglass alternatives. Progressive marketing strategies can make the difference between maintaining market presence or ceding a product line, which has long been a standard-bearer in the field of grease retention and removal.

(continued on page 2...)

OPCA Annual Conference Date Set

Our 2014 Annual Conference will be held in Columbus, OH on March 17-18. Watch for more details this fall.

Precast Grease Interceptors

(continued from page 1)

Here are a few ideas from an Ohio precast producer for demonstrating the attributes of precast concrete grease interceptors:

Installation is simpler and faster with less risk of damage during setting. Precast concrete grease and oil interceptor tanks are engineered to withstand both internal and external forces without relying on restraining soil or water as is necessary with some tanks made of other materials. You must fill most fiberglass or HDPE tanks with water at the same rate as you backfill around the exterior of the tank to avoid tank failure. Some tanks even require cast-in-place concrete reinforcement or some type of restraint. These elaborate installation

procedures increase the risk of eventual product failure due to improper installation, which is not a concern with our precast concrete interceptors.

Currently where environmental concerns are on the rise, precast concrete grease and oil interceptors are the environmentally friendly answer to your interceptor needs. Concrete is non-toxic and made from natural ingredients, so when used in underground applications, precast concrete grease and oil interceptors do not affect groundwater or surface water quality. Precast concrete interceptor tanks may contribute to LEED Requirements for Sustainable Sites and Material and

Resources, (E.C. Babbert, 2008).

Alternative holding systems are a reality. Their acceptance is ever increasing and quite often concrete producers do not realize the problem until it is too late. Our challenge is to continually improve the precast concrete product offering. Listen to what the specifying agencies desire and seek to understand what they want. Working together, we can ensure precast concrete remains a preferred product for the grease interceptor market.

Chuck Overbay is a Sales Representative and Lean Coordinator at Concrete Sealants, Inc. of Tipp City, OH.

"When you're green you're growing, when you're ripe you're rotten. When we stop getting better, we stop growing." ~ Phil Sorentino

Tech Talk...How do I do that?

By Eric Barger

Final Concrete Density: Don't forget the steel...

Precasters give out heavier weights of products to customers to ensure the customer will be ready to lift whatever comes their way. When it comes to logistics of getting precast products to the job site, a weight closer to reality is used in order to maximize delivery capacity. This creates two different weight classes used by precasters, customer weight and shipping weight.

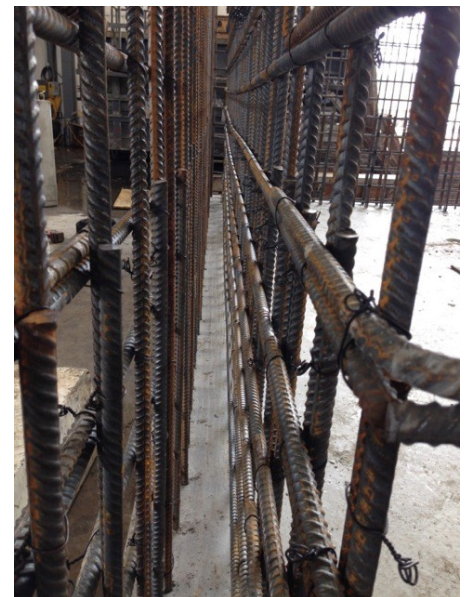
To further refine the process, precasters should start taking into account the final concrete density that includes steel reinforcement to get an idea of average concrete density.

When loading out a truck, maximizing what is on the truck becomes paramount to maximizing profit, reducing environmental impact, and helping to control driver overtime along with many other relevant business aspects.

Find out how to calculate the final concrete density and download a free tool to boot. [CLICK FOR A FREE TOOL](#)

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Eric Barger is the Vice President of C.R. Barger and Sons, Inc. in Lenoir City, TN.

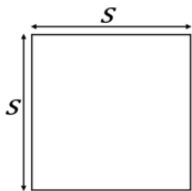


GEOMETRY SHAPES AND SOLIDS

SQUARE

$$P = 4s$$

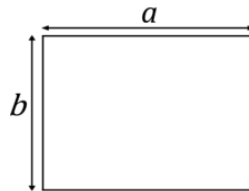
$$A = s^2$$



RECTANGLE

$$P = 2a + 2b$$

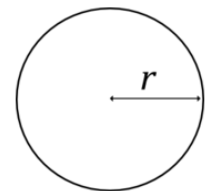
$$A = ab$$



CIRCLE

$$P = 2\pi r$$

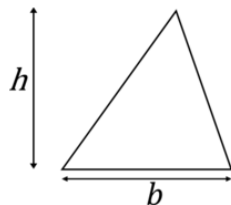
$$A = \pi r^2$$



TRIANGLE

$$P = a + b + c$$

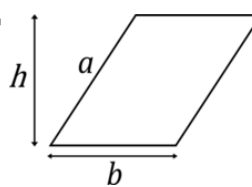
$$A = \frac{1}{2}bh$$



PARALLELOGRAM

$$P = 2a + 2b$$

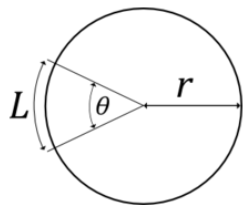
$$A = bh$$



CIRCULAR SECTOR

$$L = \pi r \frac{\theta}{180^\circ}$$

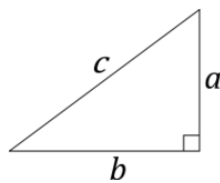
$$A = \pi r^2 \frac{\theta}{360^\circ}$$



PYTHAGOREAN THEOREM

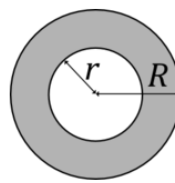
$$a^2 + b^2 = c^2$$

$$c = \sqrt{a^2 + b^2}$$



CIRCULAR RING

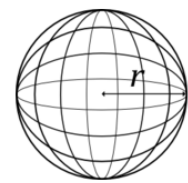
$$A = \pi(R^2 - r^2)$$



SPHERE

$$S = 4\pi r^2$$

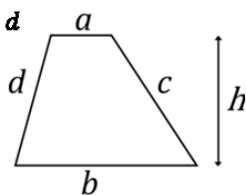
$$V = \frac{4\pi r^3}{3}$$



TRAPEZOID

$$P = a + b + c + d$$

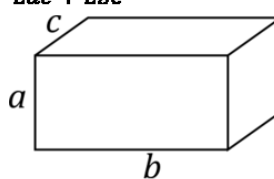
$$A = h \frac{a+b}{2}$$



RECTANGULAR BOX

$$A = 2ab + 2ac + 2bc$$

$$V = abc$$

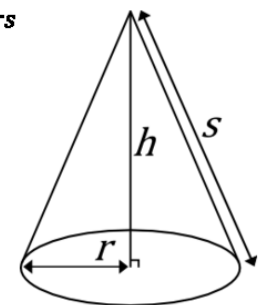


RIGHT CIRCULAR CONE

$$A = \pi r^2 + \pi rs$$

$$s = \sqrt{r^2 + h^2}$$

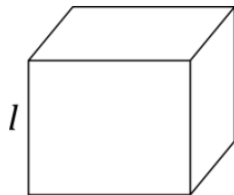
$$V = \frac{1}{3}\pi r^2 h$$



CUBE

$$A = 6l^2$$

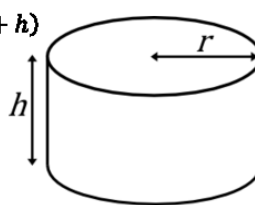
$$V = l^3$$



CYLINDER

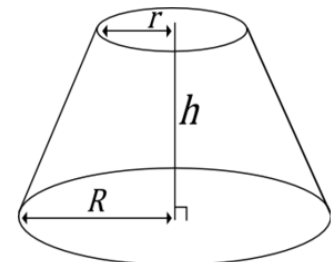
$$A = 2\pi r(r + h)$$

$$V = \pi r^2 h$$



FRUSTUM OF A CONE

$$V = \frac{1}{3}\pi h(r^2 + rR + R^2)$$



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- Simultaneous Equation Solver
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Ohio Precast Concrete Association

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OUR PURPOSE

The Ohio Precast Concrete Association (OPCA) is a group of producer members and associated industries cooperating together as an association. The intent being to bring pertinent issues and information that impact the Precast Concrete Industry, to the attention of government agencies which participate in the origination of these issues.

The OPCA is interested in assisting these agencies by providing expert advice and counsel in the development of regulations involving the industry and the general public.

The OPCA producer and associate members whose products and services range from the construction of buildings and highways to the manufacture of precast concrete products for the treatment of commercial and residential waste water. The OPCA member products and services affect the lives of nearly every Ohioan on a daily basis.

Some specific areas of interest being pursued by the OPCA are as follows:

The introduction of new sewage guidelines relating to the specific construction and operation of home waste water treatment products (septic tanks, aerators, etc.) by the Ohio department of health and the Ohio EPA.

The introduction of programs and policies relating to the testing of materials and products being used on Ohio Department of Transportation projects.

The development of quality control procedures and inspections services training by the Ohio Department of Transportation.

The Ohio Precast Concrete Association will be expanding its' scope of interest as membership roles grow and diversify. The need for input, regarding issues and regulations which effect the large segment of the public which it serves, comes to the forefront.

OPCA Member Companies

PRODUCER MEMBERS

- E.C. Babbert, Inc.
- Everly Concrete Products, Inc.
- Hanson Pipe and Precast
- J.K. Precast, LLC
- Lindsay Concrete Products
- Mack Industries
- Norwalk Concrete Industries
- Poland Concrete Products, Inc.
- Premier Precast Products
- Quaker City Septic Tanks, LLC
- Scioto Valley Precast
- Sickels Septic Tanks, Inc.

- Spoerr Precast Concrete, Inc.
- Stiger Precast, Inc.
- Uniontown Septic Tank, Inc.
- United Precast, Inc.

ASSOCIATE MEMBERS

- A-lok Products, Inc.
- A.L. Patterson, Inc.
- Blackthorn, LLC
- Champion Pump Company
- Concrete Sealants, Inc.
- EJ, Inc.
- Engineered Wire Products, Inc.
- Euclid Chemical

- Hamilton Kent, LLC
- Infiltrator Systems, Inc.
- Jet, Inc.
- Mixer Systems, Inc.
- Ohio Electric Control, Inc.
- Polylok, Inc. / Zabel Environmental
- Premiere Concrete Admixtures, LLC
- Sika Corporation
- St. Mary's Cement
- Tuf-Tite, Inc.
- W.P. Hilts & Company