



The Globe

Earth Contact Products, LLC



2017 World of Concrete Las Vegas Convention Center



Attendance this year was down compared to last year (mainly because of Con/Expo this year). The attendance was recorded as 50,770 visitors that registered. However, from talking to several vendors and contractors everyone has seen an increase in business and are looking forward to 2017 year.

ECP had an excellent show even with the down attendance. We got to visit several of our existing contractors and several new installers.

If you have never been to the World of Concrete, you might want to plan a trip. It is amazing to see all the different products available in one location.



A & N Electric Cooperative Case Study –Tangier, VA Lattice Tower Structure – See Inside



Water Channel and Cove Channel Product Spotlight – See Inside



2017 WOC Product Spotlight – Back Cover

ECP Reminder Tips

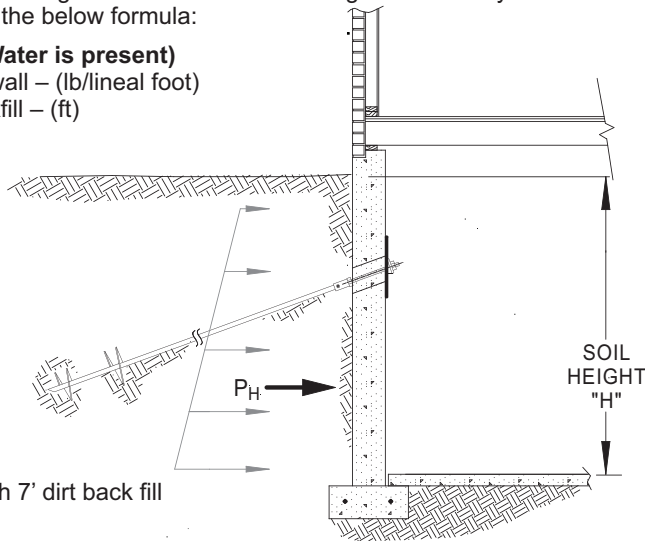
How to calculate Hydrostatic Pressure on a Basement Wall?

In the ECP Ninth Edition pages 28-31 we discuss the loads on a basement walls as well as a retaining wall. Basement wall designs that see hydrostatic pressure would use the below formula:

$$PH = 45 \times (H^2) \quad (\text{Water is present})$$

PH = Soil Load on wall – (lb/lineal foot)

H = Height of Backfill – (ft)



Example: 8' wall with 7' dirt back fill

$$PH = 45 \times (H^2)$$

$$PH = 45 \times (7^2)$$

$$PH = 2205 \text{ lbs/ lineal foot}$$

Upcoming 2017 - 2018 Events

NFRA 2017 Annual Conference

April 19-21, 2017

Hilton Houston NASA Clear Lake
Houston, TX

Basement Health Association Regional Meeting

June 1-2, 2017

Gaylord Opryland Resort
Nashville, TN

TEI Hollow Bar Drill School

June 6-8, 2017

Montrose, CO

DFI Helical Pile & Tieback Seminar

September 2017

Montreal, QC, Canada

ECP Building Blocks Workshop 2017

September 2017

Kansas City, MO

DFI 41st Annual Conference on Deep Foundations

October 24-27, 2017

New Orleans Marriott
New Orleans, LA

NAHB International Builders Show

January 9-11, 2018

Orange County Convention Center
Orlando, FL

World of Concrete 2018

Exhibits: January 23-26, 2018

Seminars: January 22-26, 2018

Las Vegas Convention Center
Las Vegas, NV

NARI Remodeling EXPO

January 19-21, 2018

Madison Marriott Convention
Center
Middleton, WI

2016 Building Blocks Workshop Vendors

Carbon Fiber

Rhino Carbon Fiber

Luke Secrest

Office: 614-264-5462

lsecrest@rhinocarbonfiber.com

Financing

GreenSky Credit

Reid Benjamin

Office: 404-400-2980

reid.benjamin@greenskycredit.com

Gear Drives

Superior Truck Equipment, Inc (ESKRIDGE)

Gina Dipperschmidt

Office: 913-302-1301

gd@superiortruck.com

Hydraulics

Enerpac

Russ Snygg

Office: 515-490-0261

Russ.snygg@enerpac.com

Power Tools

Hilti

Michael Judin

Office: 800-879-8000

michael.judin@hilti.com

Software

Foundation Accelerator

Brad Huxol

Office: 816-803-4554

brad@foundationaccelerator.com

Sump Pumps

Pro Series Pumps

Preston Alper

Office: 847-732-4235

preston@glenronics.com

Website Design

Websites to Impress

Austin Scott

Office: 712-792-4427

Notable Basketball Quotes

If you want to go fast-go alone; If you want to go far,
you have to go with others"

–Dale Brown- former LSU Coach

If what you have done yesterday still looks big to you.
You haven't done much today.

-Mike Krzyzewski- Duke Coach

Failure is good. Its fertilizer. Everything I've learned about
coaching I've learned from mistakes.

– Rick Pitino – Louisville Coach

Loyalty is not unilateral. You have to give it to receive it.

- Pat Summitt – Former Tennessee Women's Coach

Case History

**ECP Torque Anchors™
Model DLS-863-144-14**



Completed Lattice Tower Structure – The tops of the ECP Torque Anchor™ helical piles are visible at ground level.

New 25 kV 2-Bay Distribution Structure

Chesapeake Bay Island - Tangier, Virginia

This small island community needed to increase electrical capacity to provide for the future needs of the homes and the Tangier Marina. The design conditions required that a new electrical equipment tower structure be constructed to support ultimate capacities of 45 kips in compression, 34 kip tension and 31 kip lateral.

The new substation was at an elevation very close to sea level, which

offered many challenges for the new structure. These challenges included ocean wave proximity, up to 140 mph hurricane force winds and extreme ice loads of up to one-inch.

Subsurface Exploration and Geotechnical Engineering performed a soil analysis and provided foundation design recommendations. The soils at the site consisted of 2 feet of fill soil overlaying 4 feet of soft to medium sandy clays. Below the sandy clay to a depth of 31 feet was medium compact silty sand. The geotechnical engineer recommended a foundation consisting of four 30 inch diameter concrete caissons.

The electrical utility, A&N Cooperative, found that bringing concrete to the island on a barge would cost a prohibitive \$11,000 per yard! A&N requested Power Services engineering to provide the geotechnical soil data and the foundation loading criteria to ECP. The ECP team designed and fabricated a custom Torque Anchor™ Helical Pile foundation that would meet the design criteria, and a pile system that could be installed using an A&N line truck with torque motor. The custom ECP Torque Anchor™ piles were rotated into the soil until reaching stable soil at 12 foot depth.

The ECP helical pile system not only supports the load, the helical piles were rapidly installed at cost far less than the cost of drilling and casting concrete! In addition, the ECP Torque Anchor™ Piles were immediately ready after installation for loading without the need for concrete curing time.



| Project Summary | |
|----------------------------------|---|
| Project: | 25 kV 2-Bay Distribution Structure |
| Engineer: | Power Services, Raleigh, N.C. |
| Installer: | T & D Solutions North Carolina |
| Product Installed: | 4 ECP DLS-863-144-14 Torque Anchor™ Tubular 8-5/8" dia. x 12' long with single 14" diameter helical plate and custom mounting) |
| Custom Mounting Plate: | 22" Square x 1.5" thick 4 Anchor Bolts – 1-1/4" Diameter |
| Ultimate Design Capacity: | Compressive - 45,000 lb. Tensile - 34,000 lb. Lateral – 31,100 lb. |

Product Spotlight

ECP Cove Channel and Water Channel

Cove Channel

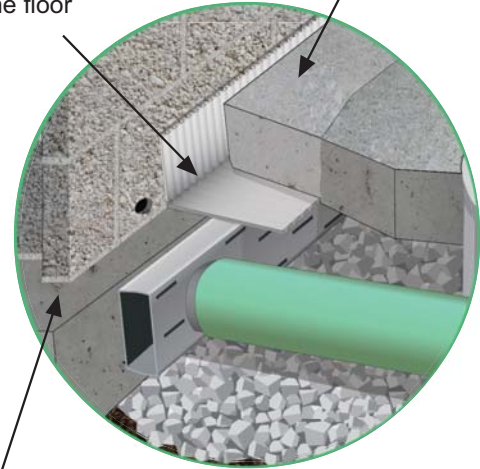


Properties:

- Comes in 250' continuous roll
- Pre-scored 10" wide x 5" tall
- Thickness .168"
- White color
- Cove channel cap available (sold separately)

Cove Channel
Around interior
perimeter under
the floor

Basement
Floor



Cold joint
(area where the foundation
meets the footing)
can allow
water to penetrate from
exterior of the foundation
inside the basement

Water Channel

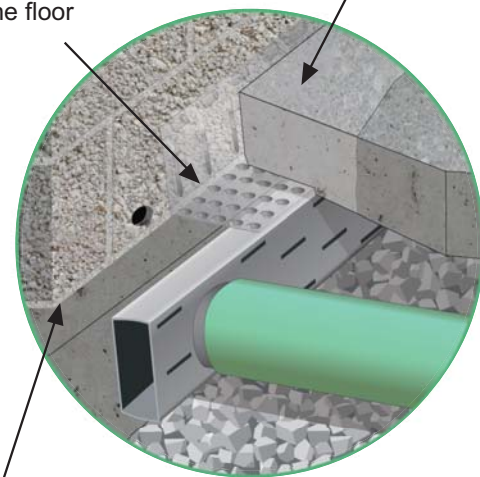


Properties:

- Comes in 6' sections
- Pieces are 8.5" wide
- 35 mils thick
- Made from 50% recycled materials
- Transparent for visual inspection

Water Channel
Around interior
perimeter under
the floor

Basement
Floor



Cold joint
(area where the foundation
meets the footing)
can allow
water to penetrate from
exterior of the foundation
inside the basement

WOC Special Product Spotlight



www.medusaw.skilsaw.com

When there's concrete to conquer, **MEDUSAW™** makes the job a whole lot easier. It's the world's first fully integrated worm drive saw designed specifically for scoring and cutting concrete accurately.



www.da-mite.com

When a job has no blasting specifications, use **Dā-mite®**, the non-explosive rock splitting mortar, to quickly and quietly break concrete, rock and more.



www.surface Shields.com/dust-containment-wall

Dust Shield Pro Extendable Containment Poles



www.accessconstructionequipment.com

Mini conveyor for moving dirt and rock into basement or crawlspace.