

DESUTA

CONCRETE FORMS



1568 PERRY HIGHWAY

PORTERSVILLE, PA 16051

724-368-3230

www.desutaconcreteforms.com



DESUTA

CONCRETE FORMS

ALL MATERIALS DELIVERED. COMPETITIVE PRICING.

Many unlisted products are available.

724-368-3230

www.desutaconcreteforms.com

Forming & Shoring systems

Available for rental or purchase

- **Symons™ Handset Forms**
- **ULMA Megalite Handset Forms**
- **Conventional 10k Shoring**
- **Rasto Clamp Form System**
8x9 giant panels stocked locally
- **Steel Column Forms**

KAUFMAN Chemicals™ Available



DESUTA

CONCRETE FORMS

Dave Desuta
Owner / Sales

Office: 724 - 368 - 3230

Cell: 724 - 944 - 9661

desutaconcreteforms@gmail.com

1568 Perry Hwy

Portersville, PA 16051

www.desutaconcreteforms.com

Accessory Products:

Anchor bolts
Brick ledge forms
Circular Column forms (rent/purchase)
Coil rod/dwyidag rod
Coil ties/threaded products
Curb and sidewalk forms (purchase)
Cures and sealers
Dowel bar splicers
Drop in anchors
Expansion joint
Fiber Forms / Sonotubes
Formliners
Form release
Gates ties and hardware
Grouts and other chemicals
Hardware for steel forms
Overhang brackets (rent/purchase)
Pencil rod/catheads
Polyfilm
Rebar hooks, specialty forming hardware
Rebar caps
Rebar chairs
Scaffold plank (rent/purchase)
Snap ties for wood forms
Sprayers
Stake pullers
Steel stakes
Steel strapping
Parapet forms
Pipe Braces (6FT - 39FT)
Tie wire/bag ties
Ties and hardware for 1 1/8" forms
Trench drain
Void forms
Waterstops (all types)
Wood chamfer

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DESUTA
CONCRETE FORMS

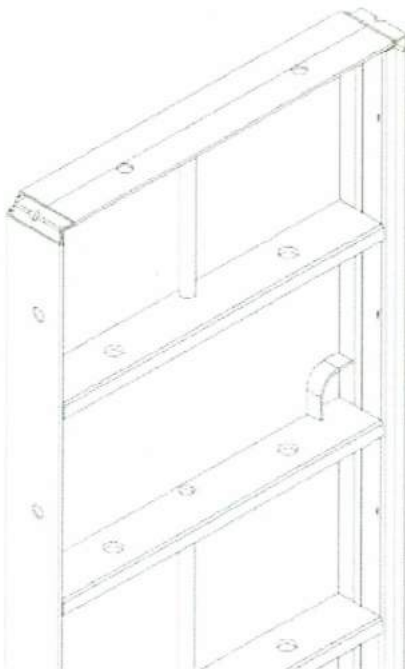
1568 Perry Hwy
Portersville, PA 16051
724-368-3230

www.desutaconcreteforms.com

Vertical hand set and gang
formwork system

Modular Formwork MEGALITE

The **MEGALITE** is a vertical formwork system for handset and gang forming applications, using quick connecting clamps to join panels together.



 **ULMA**

Modular Formwork MEGALITE

MEGALITE

The Modular Formwork MEGALITE is the ideal system to form foundations, walls, columns, elevators' cores and any kind of vertical structures without the need of a crane.

The maximum allowable concrete pressure is 1250 p.s.f.

Basic elements

The range of Panels of the MEGALITE system is furnished as follows: Heights: 8', 6' and 4', Widths 30", 24", 18", 12", 6", 4" and 2".

These Panels have the external frame formed by steel profiles and internal ribs by rectangular tubes. The corners of the frame are reinforced with special casting elements. The panel face is birch plywood riveted to the frame.

The external profiles have lateral holes, for connecting hardware and also can be used for joining to "steel-ply" Panels using wedge bolts.

The ribs are multi-punched allowing easy mounting of accessories at different convenient locations.



Fixed Clamp

The MEGALITE Fixed Clamp is the one element that completes the system. It is the principal component of the system responsible for joining and aligning the panels. The joining of the panels is easy and effortless as the clamp is wedged on by simply using a hammer.

Columns forming

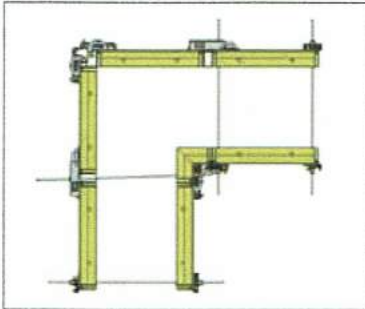
MEGALITE's Universal Panels will form any column width in 1" increments up to 30" without the use of ties. Rated at 1250 p.s.f. of pressure.



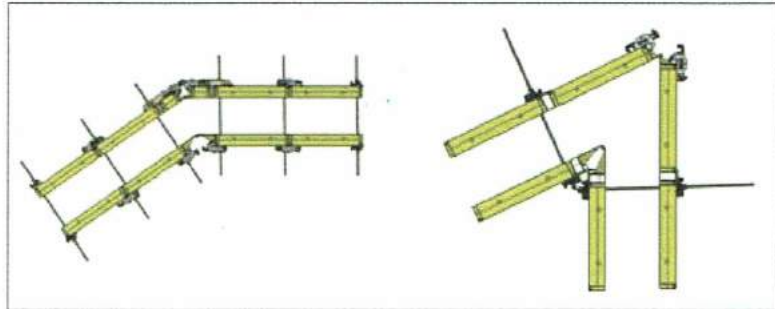


System's solutions

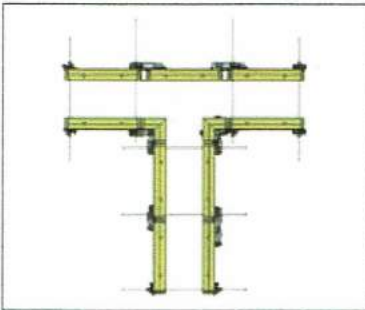
The Modular Formwork MEGALITE can easily form many wall conditions and configurations.



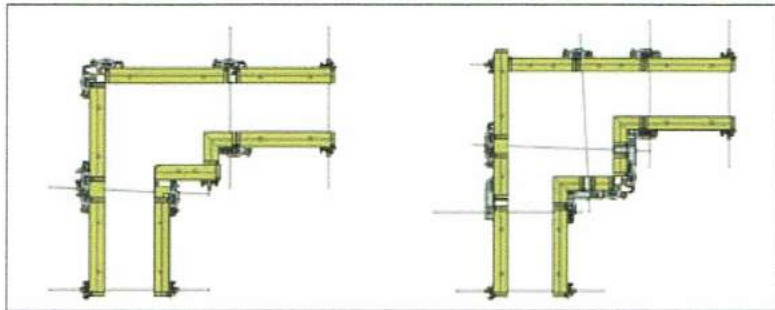
90° corners



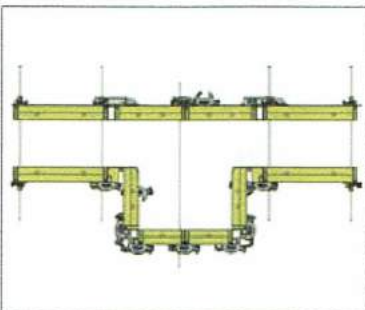
Corners at any angle



"T" intersections



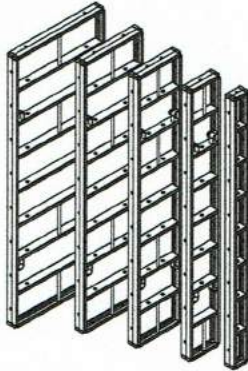
Corner pilasters



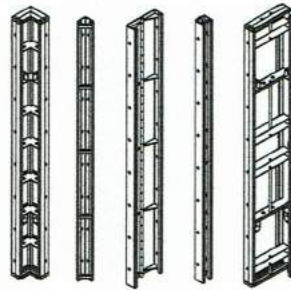
Middle of the wall pilasters

Basic components

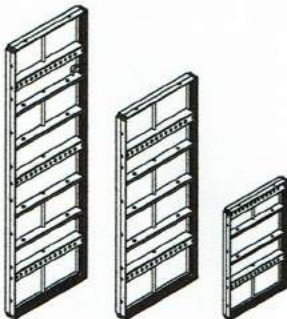
| | WEIGHT (lbs) | ITEM No. |
|-----------------|--------------|----------|
| ML panel 8'x30" | 125 | 1920340 |
| ML panel 6'x30" | 97 | 1920350 |
| ML panel 4'x30" | 67.5 | 1920360 |
| ML panel 8'x24" | 108 | 1920455 |
| ML panel 6'x24" | 83.8 | 1920456 |
| ML panel 4'x24" | 57.8 | 1920457 |
| ML panel 8'x18" | 91.3 | 1920473 |
| ML panel 6'x18" | 70.5 | 1920458 |
| ML panel 4'x18" | 48.5 | 1920459 |
| ML panel 8'x12" | 72.8 | 1920474 |
| ML panel 6'x12" | 56 | 1920460 |
| ML panel 4'x12" | 37.9 | 1920461 |
| ML panel 8'x6" | 54 | 1920475 |
| ML panel 6'x6" | 41 | 1920462 |
| ML panel 4'x6" | 27.8 | 1920463 |



| | WEIGHT (lbs) | ITEM No. |
|-------------------------------|--------------|----------|
| ML inside corner 8"x8" 8' | 84.4 | 1920242 |
| ML inside corner 8"x8" 6' | 64.8 | 1920246 |
| ML inside corner 8"x8" 4' | 45.2 | 1920250 |
| ML outside corner 8' | 48.7 | 1920082 |
| ML outside corner 6' | 36.6 | 1920080 |
| ML outside corner 4' | 24.5 | 1920075 |
| ML hinged inside corner 8' | 121 | 1920130 |
| ML hinged inside corner 6' | 90.6 | 1920146 |
| ML hinged inside corner 4' | 60.6 | 1920158 |
| ML hinged outside corner 8' | 80 | 1920128 |
| ML hinged outside corner 6' | 60 | 1920140 |
| ML hinged outside corner 4' | 40.1 | 1920152 |
| ML universal hinged corner 8' | 143 | 1920098 |
| ML universal hinged corner 6' | 105.4 | 1920100 |
| ML universal hinged corner 4' | 81.6 | 1920110 |



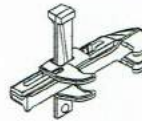
| | | |
|---------------------------|-------|---------|
| ML universal PANEL 8'x30" | 146 | 1920480 |
| ML universal PANEL 6'x30" | 109.8 | 1920490 |
| ML universal PANEL 4'x30" | 80.2 | 1920500 |



| | | |
|----------------------|-----|---------|
| MEGALITE fixed clamp | 2.2 | 1920818 |
|----------------------|-----|---------|



| | | |
|-----------------------|-----|---------|
| NEVI adjustable clamp | 8.8 | 1920851 |
|-----------------------|-----|---------|



| | | |
|-------------------|------|---------|
| NEVI lifting hook | 17.6 | 1920835 |
|-------------------|------|---------|



ULMA C y E, S. Coop.

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Phone: + 34 943 034900
Fax: + 34 943 034920

www.ulma-c.com

USA ULMA Form Works, Inc.

www.ulma-c.us

CANADA ULMA Construction System Canada Inc.

www.ulma-c.ca



MEGALITE

Medium duty steel panel formwork in imperial sizes



// Light, durable, handled without crane



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| Solutions | 5 |
| Basic components | 7 |



MEGALITE Medium duty panel formwork



// Features

- ▶ Modular wall and column formwork in **imperial measurements**.
- ▶ Ideal for use on any **vertical concrete structure in building construction** (walls, columns, pilasters, wall intersections, foundations).
- ▶ Handset system with light panels: **7 lbs/feet²**.
- ▶ **Maximum versatility**, combining multifunctional universal panel with the lateral holes on standard panels.
- ▶ Form face, phenolic or composite board, riveted to the **metal frame**.



▶ Handset erection of the formwork

▶ **Maximum concrete pressure:**

- **1250 psf**

▶ 2 rows of tie rods in height up to 8'.

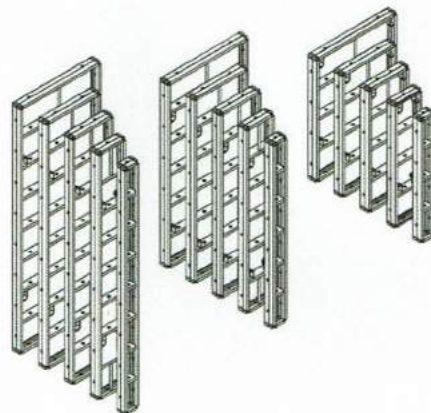
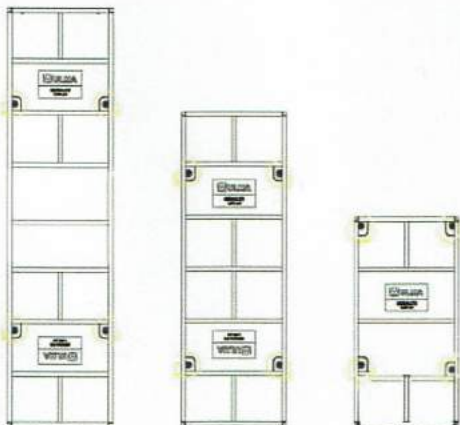
▶ **Height range:** 8', 6' and 4'.



▶ Forming of high walls with formwork gangs

▶ Gangs can be laid out every 6" by combining different panels.

▶ **Width range:** 30", 24", 18", 12" and 6".





MEGALITE Medium duty panel formwork

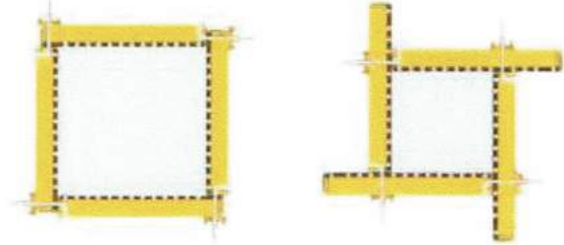


► **Columns with universal panel:**

- Column solution with panels of 6" x 6" to 30" x 30", adjustable in 1" increments.
- Wider columns are possible by joining panels longitudinally.



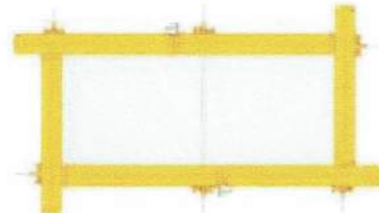
► Different column solutions with MEGALITE



► Columns from 6" x 6" to 27" x 27" adjustable in 1" increments.



► Maximum column of 30" x 30", using universal panels with outside corners tied with fixed clamps



► Large columns up to 57"

Panel connection: Clamps

- Fast and simple connection with one single strike of hammer.

Fixed Clamp



► Tying connecting panel profiles with fixed clamp

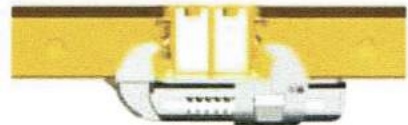


► Fixed clamps on formwork corner

Adjustable Clamp



► Connecting panel profiles with adjustable clamp



► Can be used to join panels together with a wood or steel filler up to 4" wide placed between the panels



// Advantages

- ▶ **Light panels** for easy handling.
- ▶ **Excellent concrete finishes.**
- ▶ **Versatile.** All kinds of solutions combining perpendicular connection wall panels with lateral holes and universal panels with **multi-punched ribs**.
- ▶ **Quick and easy connection** with MEGALITE Clamp.
- ▶ **High strength panels** with only two ties.
- ▶ **Lifting hook** for the lifting of assembled gangs
- ▶ **Long-lasting.** Steel frames with reinforced corners.



▶ Safe working platforms



▶ Strong steel frames



▶ Wall solutions with Universal panel

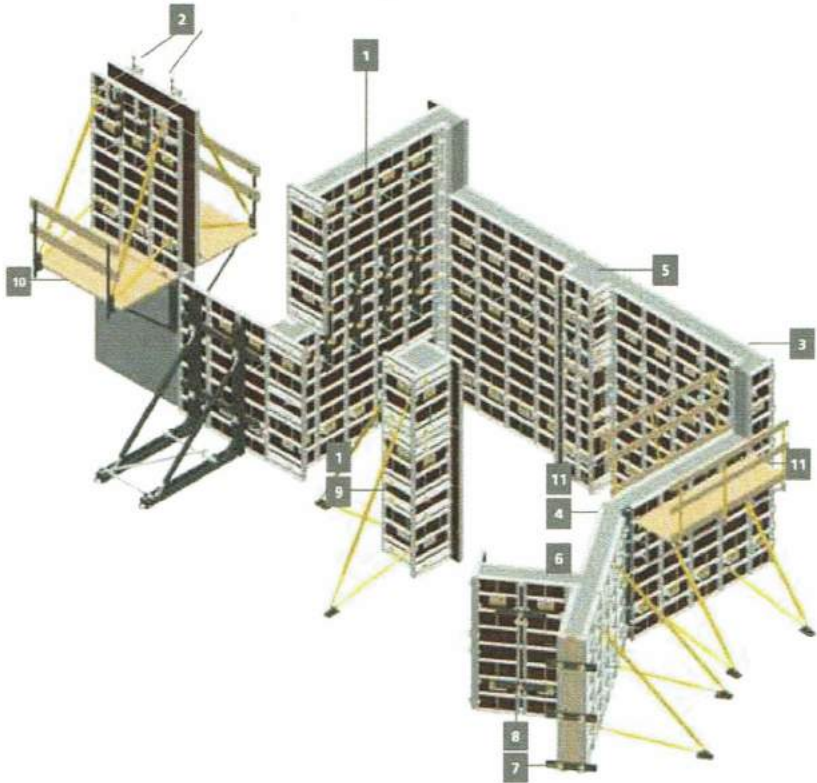


MEGALITE Medium duty panel formwork



// Solutions

- 1 Panel connection: Clamps
- 2 Gang lifting
- 3 90° Corners
- 4 Hinged corners
- 5 Pilaster
- 6 90° wall intersections
- 7 Bulkheads
- 8 Fillers
- 9 Columns
- 10 Climbing support brackets
- 11 Walkway platforms / Guardrails



Gang lifting

The MEGALITE Lifting Hook is an accessory component for lifting gangs using a crane. A minimum of two Hooks must be used for gang lifting.

The lifting hook has a maximum safe working load of **2650 lbs.**



1.- Opening



2.- Placing



3.- Fastening

► Basic installation of the lifting hook to the panel's profile



► Lifting of gang

90° Corners

► Outside face



With universal panel



With outside corner

► Inside face



With rigid Inside corner

Hinged corners

Hinged corners on the inside and outside of the wall. Angle between 75° and 180°





MEGALITE Medium duty panel formwork



Pilasters

- ▶ With Universal hinged corner UHC



- ▶ With Universal Panel



- ▶ With Waler



- ▶ Pilaster in corner with universal hinged corner



Compensations

- ▶ Job built filler $0 < x < 2''$



- ▶ Filler $2'' & 4''$



- ▶ Job built filler $2'' < x < 4''$



Bulkheads

- ▶ With Universal Panel



- ▶ With Waler



90° wall intersections

- ▶ Combining the Inside Corner with the different panel widths

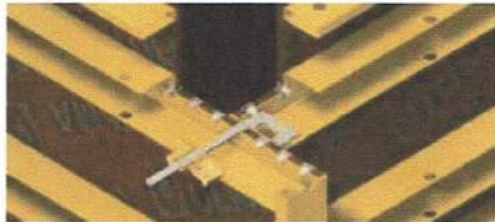


Climbing support brackets



- ▶ The bracket supports the walkway platform and the formwork.

Columns



- ▶ Solved with Universal panels, connected with Bulkhead hooks and Plate nuts 15



Walkway platforms / Guardrails



- ▶ Walkway brackets & guardrail posts ▶ Total and collective protection



MEGALITE Medium duty panel formwork



Basic components

PANELS

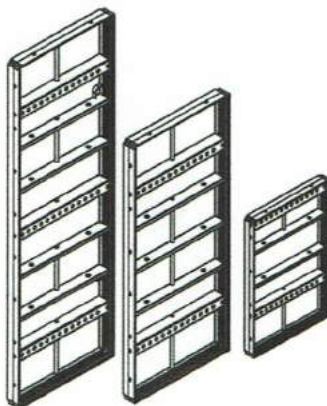
| | | |
|-------------------|---------|------|
| ML panel 8' x 24" | 1920455 | 108 |
| ML panel 6' x 24" | 1920456 | 83.8 |
| ML panel 4' x 24" | 1920457 | 57.8 |
| ML panel 8' x 18" | 1920473 | 91.3 |
| ML panel 6' x 18" | 1920458 | 70.5 |
| ML panel 4' x 18" | 1920459 | 48.5 |
| ML panel 8' x 12" | 1920474 | 72.8 |
| ML panel 6' x 12" | 1920460 | 56 |
| ML panel 4' x 12" | 1920461 | 37.9 |
| ML panel 8' x 6" | 1920475 | 54 |
| ML panel 6' x 6" | 1920462 | 41 |
| ML panel 4' x 6" | 1920463 | 27.8 |

Forming face: phenolic or composite board



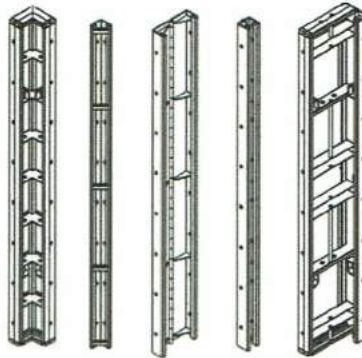
| | | |
|-----------------------------|---------|------|
| ML universal panel 8' x 30" | 1920480 | 145 |
| ML universal panel 6' x 30" | 1920490 | 110 |
| ML universal panel 4' x 30" | 1920500 | 80.2 |

Forming face: phenolic or composite board



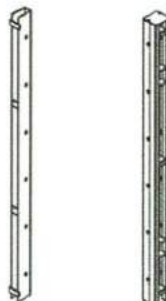
CORNERS

| | | |
|-------------------------------|---------|-------|
| ML inside corner 8' x 8' 8" | 1920242 | 84.4 |
| ML inside corner 8' x 8' 6" | 1920246 | 64.8 |
| ML inside corner 8' x 8' 4" | 1920250 | 45.2 |
| ML outside corner 8' | 1920082 | 48.7 |
| ML outside corner 6' | 1920080 | 36.6 |
| ML outside corner 4' | 1920075 | 24.5 |
| ML hinged outside corner 8' | 1920128 | 80 |
| ML hinged outside corner 6' | 1920140 | 60 |
| ML hinged outside corner 4' | 1920152 | 40.1 |
| ML hinged inside corner 8' | 1920130 | 121 |
| ML hinged inside corner 6' | 1920146 | 90.6 |
| ML hinged inside corner 4' | 1920158 | 60.6 |
| ML universal hinged corner 8' | 1920098 | 143 |
| ML universal hinged corner 6' | 1920100 | 105.4 |
| ML universal hinged corner 4' | 1920110 | 81.6 |



COMPENSATIONS

| | | |
|-------------------------|---------|------|
| ML compensation 2" x 8" | 1920050 | 39.7 |
| ML compensation 2" x 6" | 1920052 | 29.8 |
| ML compensation 2" x 4" | 1920054 | 20.1 |
| ML compensation 4" x 8" | 1920067 | 47.8 |
| ML compensation 4" x 6" | 1920072 | 36.8 |
| ML compensation 4" x 4" | 1920059 | 25.4 |



CONNECTORS - LIFTING

| | | |
|--------------|---------|------|
| Lifting hook | 1920835 | 17.6 |
|--------------|---------|------|



| | | |
|----------------------|---------|-----|
| Megalite Fixed Clamp | 1920818 | 2.2 |
|----------------------|---------|-----|



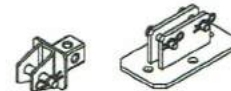
| | | |
|---------------------------|---------|-----|
| Megalite Adjustable Clamp | 1920851 | 8.8 |
|---------------------------|---------|-----|



PIPE BRACES

| | | |
|------------------------|---------|-----|
| Pipe brace head type B | U190025 | 2.2 |
|------------------------|---------|-----|

| | | |
|-----------------|---------|------|
| Pipe brace shoe | 1900144 | 10.9 |
|-----------------|---------|------|



| | | |
|--------------------------------------|---------|----|
| Pipe brace 1.1-1.7 (3'-7" to 4'-11") | 1900134 | 17 |
|--------------------------------------|---------|----|

| | | |
|---------------------------------------|---------|------|
| Pipe brace 2.4-3.5 (7'-10" to 10'-9") | 1900123 | 53.4 |
|---------------------------------------|---------|------|

| | | |
|--------------------|---------|------|
| Pipe brace 3.6-4.8 | 1908168 | 95.5 |
|--------------------|---------|------|

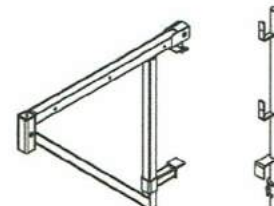
| | | |
|------------------|---------|-----|
| Pipe brace 5.1-6 | 1900147 | 112 |
|------------------|---------|-----|



WORKING PLATFORMS - SAFETY ELEMENTS

| | | |
|--------------------------|---------|------|
| MEGALITE walkway bracket | 1920041 | 20.1 |
|--------------------------|---------|------|

| | | |
|-----------------------------------|---------|-----|
| MEGAFORM walkway bkt post (black) | 1904311 | 7.5 |
|-----------------------------------|---------|-----|



| | | |
|---------------------------|---------|-----|
| MEGALITE handrail bracket | 1920854 | 3.3 |
|---------------------------|---------|-----|





DESUTA

CONCRETE FORMS

Order Date:

1568 PERRY HWY
PORTERSVILLE, PA 16051

OFFICE: 724-368-3230
FAX: 724-368-3728

1. CUSTOMER INFORMATION:

Customer Name:

2. PROJECT INFORMATION:

Job:

Street:

City/State:

POC:

POC #:

Ship Via:

Shipping date:

| DRAWING INCLUDED | DATE: | | | WEIGHT EACH | Extended WEIGHT |
|-----------------------------|---------|------------------|------------------|-------------|-----------------|
| | ORDERED | SHIPPED TRUCK #1 | SHIPPED TRUCK #2 | | |
| <u>ULMA MEGALITE</u> | | | | | |
| MEGALITE 30" X 8' | | | | 125.00 | |
| MEGALITE 24" X 8' | | | | 108.00 | |
| MEGALITE 18" X 8' | | | | 91.30 | |
| MEGALITE 12" X 8' | | | | 72.80 | |
| MEGALITE 6" X 8' | | | | 54.00 | |
| MEGALITE 4" X 8' | | | | 46.30 | |
| MEGALITE 2" X 8' | | | | 39.40 | |
| MEGALITE 30" X 6' | | | | 97.00 | |
| MEGALITE 24" X 6' | | | | 83.80 | |
| MEGALITE 18" X 6' | | | | 70.50 | |
| MEGALITE 12" X 6' | | | | 56.00 | |
| MEGALITE 6" X 6' | | | | 41.00 | |
| MEGALITE 4" X 6' | | | | 35.20 | |
| MEGALITE 2" X 6' | | | | 29.70 | |
| MEGALITE 30" X 4' | | | | 67.50 | |
| MEGALITE 24" X 4' | | | | 57.80 | |
| MEGALITE 18" X 4' | | | | 48.50 | |
| MEGALITE 12" X 4' | | | | 37.90 | |
| MEGALITE 6" X 4' | | | | 27.80 | |
| MEGALITE 4" X 4' | | | | 24.20 | |
| MEGALITE 2" X 4' | | | | 19.80 | |
| <u>Corners</u> | | | | | |

| | | | | | |
|----------------------------------|--|--|--|--|--------|
| MEGALITE 8" X 8' Inside Corner | | | | | 84.40 |
| MEGALITE 8" X 6' Inside Corner | | | | | 64.80 |
| MEGALITE 8" X 4' Inside Corner | | | | | 45.20 |
| MEGALITE OUTSIDE CORNER 8' | | | | | 48.70 |
| MEGALITE OUTSIDE CORNER 6' | | | | | 36.60 |
| MEGALITE OUTSIDE CORNER 4' | | | | | 24.50 |
| MEGALITE UNIV HINGE CORNER 8' | | | | | 143.00 |
| MEGALITE UNIV HINGE CORNER 6' | | | | | 105.40 |
| MEGALITE UNIV HINGE CORNER 4' | | | | | 81.60 |
| MEGALITE INSIDE HINGE CORNER 8' | | | | | 121.00 |
| MEGALITE INSIDE HINGE CORNER 6' | | | | | 90.60 |
| MEGALITE INSIDE HINGE CORNER 4' | | | | | 60.60 |
| MEGALITE OUTSIDE HINGE CORNER 8' | | | | | 80.00 |
| MEGALITE OUTSIDE HINGE CORNER 6' | | | | | 60.00 |
| MEGALITE OUTSIDE HINGE CORNER 4' | | | | | 40.10 |
| Clamps | | | | | |
| MEGALITE Panel Clamp | | | | | 2.20 |
| MEGALITE Adj. Clamp | | | | | 8.80 |
| Ties & Tie Hardware | | | | | |
| 15MM X 12IN INNER UNIT | | | | | 0.98 |
| 15MM X 36IN INNER UNIT | | | | | 2.94 |
| 15MM X 48IN INNER UNIT | | | | | 3.80 |
| 15MM X 60IN INNER UNIT | | | | | 4.80 |
| 15MM X 78IN INNER UNIT | | | | | 6.10 |
| 15MM 41IN TAPER(18)TIE 3/4-1IN | | | | | 5.10 |
| 15MM 49IN TAPER(24)TIE 3/4-1IN | | | | | 5.26 |
| 15MM 57IN TAPER(32)TIE 3/4-1IN | | | | | 7.90 |
| 15MM 65IN TAPER(40)TIE 3/4-1IN | | | | | 8.76 |
| 15MM X 4IN X 6IN TIE PLATE/NUT | | | | | 2.20 |
| 15MM X 5IN X 8IN TIE PLATE/NUT | | | | | 5.48 |
| ACC TIE NUT SWIVEL 5" DIA | | | | | 2.00 |
| 15MM SHE-BOLT | | | | | 1.82 |
| Accessories | | | | | |
| MEGALITE Panel Lift Hook | | | | | 17.60 |
| MEGALITE Walkway Bracket | | | | | 19.10 |
| MEGALITE GUARD RAIL POST | | | | | 7.50 |
| ALIGNER STRUT SHORT 3' | | | | | 20.00 |
| ALIGNER STRUT LONG 6' | | | | | 25.00 |
| ALIGNER STRUT COMPLETE 3'X6' | | | | | 45.20 |
| D1 7'6"-14' STEEL PIPE BRACE | | | | | 95.00 |
| D4 14'-23' STEEL PIPE BRACE | | | | | 130.00 |
| D5 23'-39' STEEL PIPE BRACE | | | | | 208.00 |
| D1 6'-11' GALAVANIZED PIPE BRACE | | | | | 60.00 |
| D4 14'-23' GALVANIZED PIPE BRACE | | | | | 85.00 |

| | | | | | |
|------------------------------|--|--|--|---------------------|--------|
| HEAVY DUTY BLUE PIPE BRACE | | | | | 250.00 |
| RASTO PIPE BRACE HEAD | | | | | 2.00 |
| BOLT AND NUT PIPE BRACE HEAD | | | | | 1.00 |
| BULKHEAD BOLT | | | | | 1.30 |
| SHORT WALER HOOK | | | | | 1.10 |
| LONG WALER HOOK | | | | | 1.20 |
| PANEL BOLT 5" | | | | | 0.60 |
| PANEL BOLT 8" | | | | | 0.80 |
| HEXAGON NUT | | | | | 0.80 |
| BULKHEAD NUT | | | | | 1.50 |
| ECCENTRIC WASHER | | | | | 0.70 |
| ACC WALER SPAN NUT | | | | | 1.40 |
| GALVANIZED WALER MULTI (39") | | | | | 27.40 |
| GALVANIZED WALER 120(48") | | | | | 18.68 |
| YELLOW WALER (65") | | | | | 45.00 |
| YELLOW WALER (36") | | | | | 37.00 |
| BLACK WALER (60") | | | | | 30.00 |
| BLACK WALER (30") | | | | | 12.00 |
| BLUE WALER (54") | | | | | 37.00 |
| BLACK WALER (72") | | | | | 45.00 |
| GALVANIZED HINGED WALER | | | | | 40.00 |
| OSHA WALKWAY PLANK 16' | | | | | 64.00 |
| OSHA WALKWAY PLANK 8' | | | | | 32.00 |
| 5 GALLON BUCKET | | | | | 2.18 |
| METAL CRATE | | | | | 225.00 |
| WOOD PALLET | | | | | 30.00 |
| WIRE BASKET | | | | | 150.00 |
| STANDARD HOLD DOWN CLAMP | | | | | 1.00 |
| <i>Purchase Items</i> | | | | | |
| 5/8" X 4" TAPCON (LTD) | | | | | |
| 3/4" WOOD CHAMFER | | | | | |
| 1" WOOD CHAMFER | | | | | |
| 5 GAL FORM OIL | | | | | |
| 55 GAL FORM OIL | | | | | |
| KRYSTAL 25 SEALER | | | | | |
| X PLUGS | | | | | |
| X PLUG BRUSH AND SOCKET | | | | | |
| PVC CONES | | | | | |
| 3/4" X 10' PVC STICK | | | | | |
| 3/4" X 12" PVC SLEEVE | | | | | |
| 5/8" X 19'1" DWYIDAG ROD | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | TOTAL WEIGHT | |



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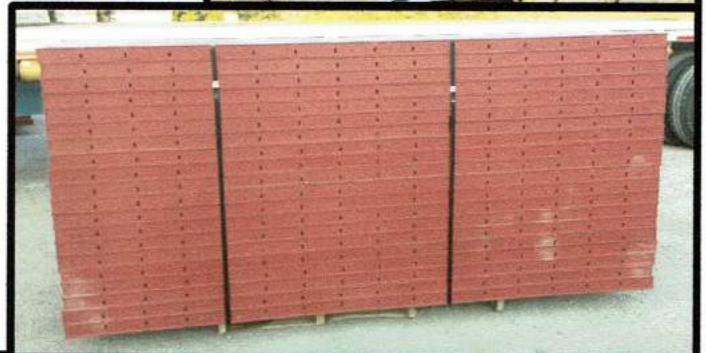
Advantages of Symons Panels:

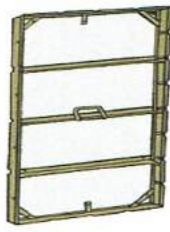
1. Speed of assembly increases worker productivity.
2. Less materials needed for project completion.
3. Easy to learn and use.
4. Lightweight for 1-2 person assembly without needing a crane.
5. Guaranteed 1000psi pour pressure.
6. Panels weigh about 8lb/sqft.
7. Stackable for higher pours.
8. Fast and easier form stripping capability
9. Able to be reused for longer use and durability.

Symons Steel Ply Forming System

Locally Stocked in Western, PA

Available for Rental or Purchase





DESUTA

CONCRETE FORMS

RASTO

CLAMP FORM SYSTEM



1568 Perry Highway
Portersville, PA 16051 USA
724-368-3230 • FAX 724-368-3728

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System Design



The RASTO concrete forming system is a modular design suitable in handset or gangform applications.

Modular versatility

Panels come in 23 different sizes and can be combined vertically or horizontally to create almost any dimension. A full line of accessories and hardware makes configuring gangs and setting details quick and simple.

Adjustable and strongback clamps eliminate the need for walers even when moving large gangs. At an average weight of 6.5lbs/sqft, this is one of the best weight/pressure ratios in the industry.



System strength

RASTO panels are manufactured with rust resistant hot-dipped galvanized or dip painted steel frames. The form face is a 1/2" HDO and/or Russian Birch plywood to provide a high quality concrete finish.

Panels, clamps and ties are designed to withstand 60 kN/m² (1250 psf) of concrete pressure.

Clamps

The panel clamp is a light weight, inexpensive clamp which connects panels at the vertical joints.

While needing only a small spud wrench to tighten, it is faster and more reliable than hammer driven wedge clamps.



Panels

RASTO panels are clamped together to create almost any wall or column dimension. They can also be stepped to accommodate uneven footing or slab elevations.

Panel sizes

RASTO panels come in heights of 270 cm and 150m (9'-10" to 4'-11" nominal). Widths from 90 cm to 30 cm (36" to 12")

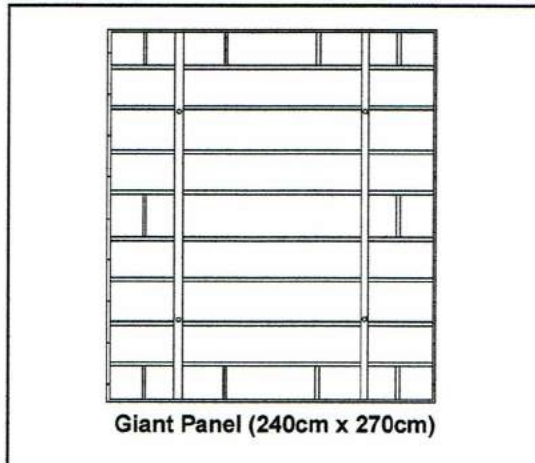
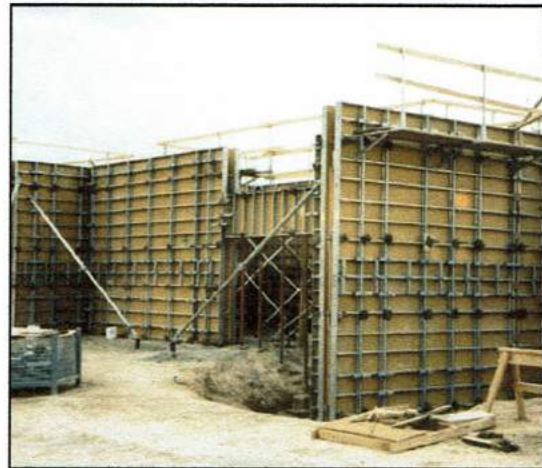
Gangform productivity

Giant Panels are available for forming large walls. Their 240 cm wide and 270 cm high (7'-10" x 8'-10") size makes creating large gangs very fast, and reduces the materials required. This large panel option is a great way to boost productivity!

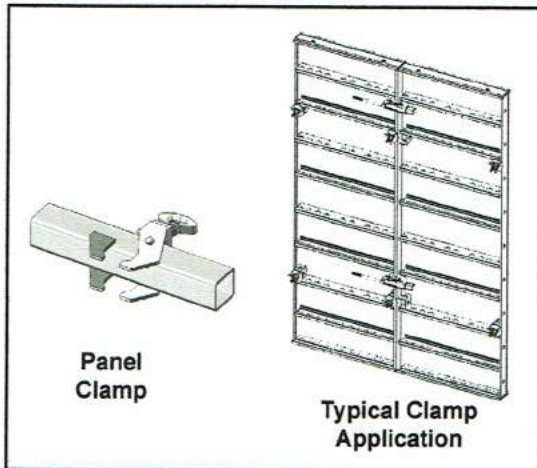
Handset capability

The 270 cm x 75 cm (8'-10" x 2'-6") panel and smaller sizes are also frequently utilized in handset applications. The panels quickly clamp together to create one of the fastest setting handset systems.

The 270 cm x 75 cm (8'-10" x 2'-6") panel weighs only 153lbs and can also be moved by two men. These panels are "ganged" by hand and then set in place by crane, minimizing the amount of crane time needed for gang forming.



Clamps and Connectors



Panel Clamp

In one operation, the panel clamp aligns panels and clamps them into position with flush, tight joints. It straddles the panel cross-members to provide vertical alignment and eliminates the need for walers in most common applications.

Adjustable Clamp

The Adjustable Clamp spans flers up to 15 cm (6") wide and is also utilized at horizontal joints for up to 23' tall gangs.

StrongBack Clamp

The Strongback Clamp quickly stiffens and aligns tall FormRight gangs with stacking panels. A Strongback End Clamp attaches to the Strongback Clamp for tall "face up" gang assembly.

Outer Corner Clamp

The Outer Corner Clamp connects two panels to form a 90° outside corner.

Nuts and Bolts

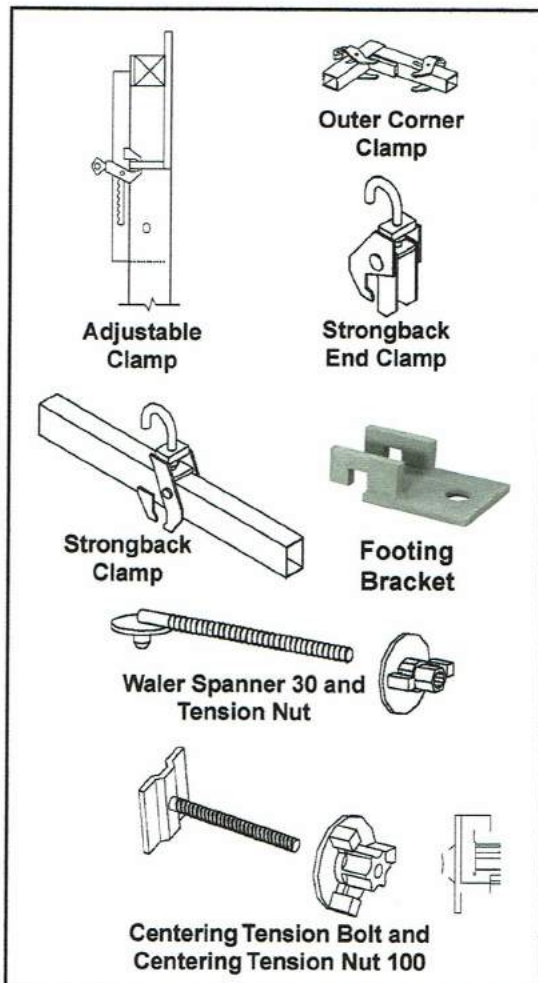
The Centering Tension Bolt distributes loads evenly across the RASTO profile. The Centering Tension Bolt Nut 100 centers itself evenly in the RASTO profile. They connect panels to hinged corners, mounting bulkheads and other applications RASTO is used with.

Waler Spanner

The Waler Spanner (30) with the Waler Spanner Tension Bolt connect Multi-Purpose Walers and Adjustment Walers to panels.

Footing Bracket

The footing bracket is used to anchor forms to help secure, align, and prevent uplift.



Corners

Most RASTO corners are formed using standard RASTO panels, Inside Corner Panels and Panel Clamps. Other components provide additional form layout options that create an adaptable, productive system.

Inside Corner

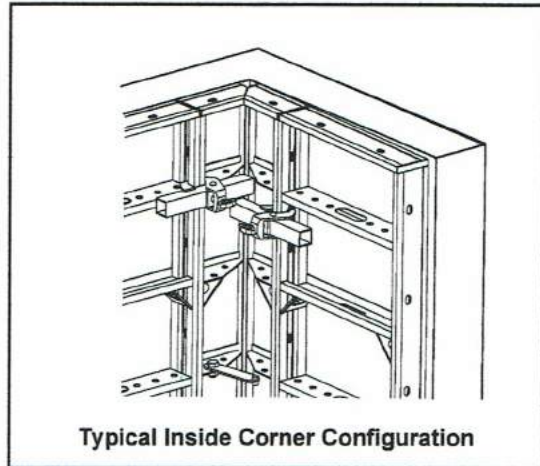
The 30 cm (12" nom.) wide Inside Corner is available in 150 cm, 270 cm and 300 cm heights. Unlatching the stiffener flexes the corner, allowing it to be reduced by approximately 2 degrees to aid stripping.

Outside Corners

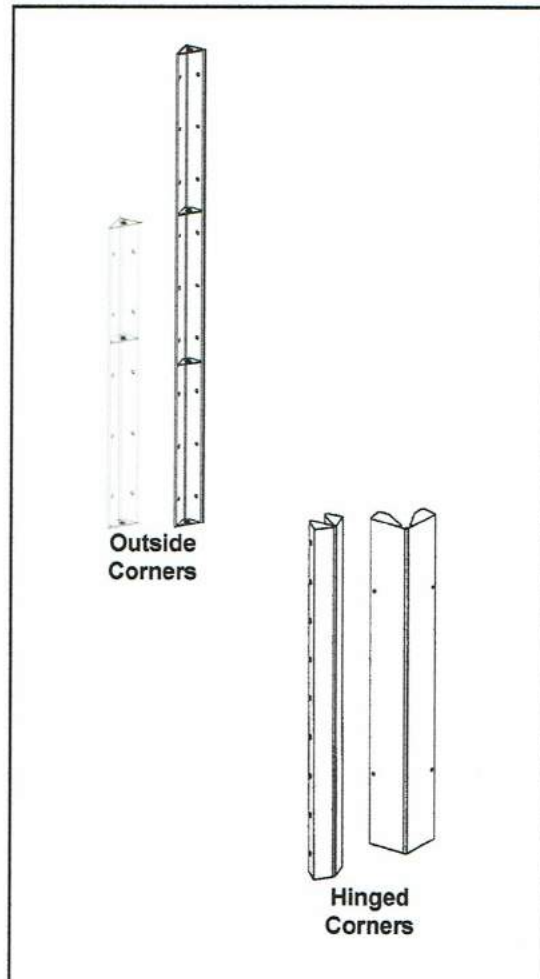
Outside Corners are attached to panels with Accessory Bolts and Centering Nuts.

Hinged Corners

The 15 cm (6" nom.) wide Hinged Corner creates corner angles of 90° to 300°. The 30 cm (12" nom.) wide Hinged Corner forms corner angles from 60° to 150°. Both are available in 150 cm, 270 cm and 300 cm (4'-11", 8'-10" and 9'-10") heights.



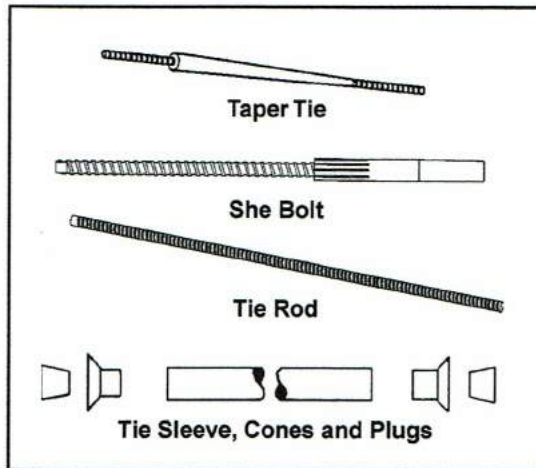
Typical Inside Corner Configuration



Outside Corners

Hinged Corners

Ties and Accessories



RASTO panel design includes reinforced tie holding bays located next to the edge profiles. If a tie is not inserted in a holding bay, a Panel Plug is inserted to fill the tie hole. One tie nut typically supports adjacent panels.

Taper Ties

Taper Ties are 15 mm ($\frac{5}{8}$ ") diameter and come in lengths to accommodate wall thickness up to 36". The same size standard Tie Nut is used on both ends of the Taper Tie to simplify hardware needs.

She Bolts

These reusable outer tie units are used with a cut-to-size $\frac{5}{8}$ " inner unit and standard Tie Nuts.

Tie Rods

The reusable Tie Rods are available in 6" increments and are used in combination with Sleeves and Cones. Sleeves are cut-to-length and Cones are added to ensure the proper spacing between the two erected forming faces. Tie Sleeve Plugs close the openings left in the wall.

Tie Holding Clip

The Tie Holding Clip holds the Tie Rod away from the form in "dry tie" applications (i.e.: top ties and bulkheads).

Tie Nuts

The Swivel Tie Nut (85) pivots up to 10° for battered walls and other applications. It includes a swivel bearing plate. The standard Tie Nut does not pivot, but is used in most applications.

Frame Tie Plate

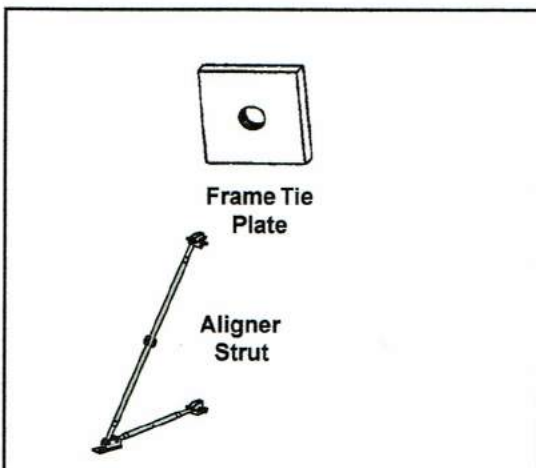
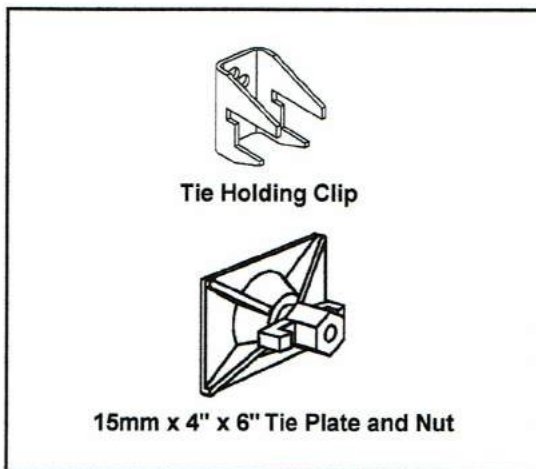
The Frame Tie Plate is used at panel corners to cover the joint where all four corners meet

Pipe Braces

Different size pipe braces are available ranging from as little as 5' to as much as 39'.

Scaffold Brackets

Scaffold brackets with easy connection points and walk plank that meets OSHA standards is available.



Walers

Two Hinged Waler 170s are required to form a complete hinged waler assembly for non-rectangular corners. Each Hinged Waler 170 includes a Pivot Pin.

An Adjustment Waler 120 provides length adjustments and is typically used for creating bulkheads.

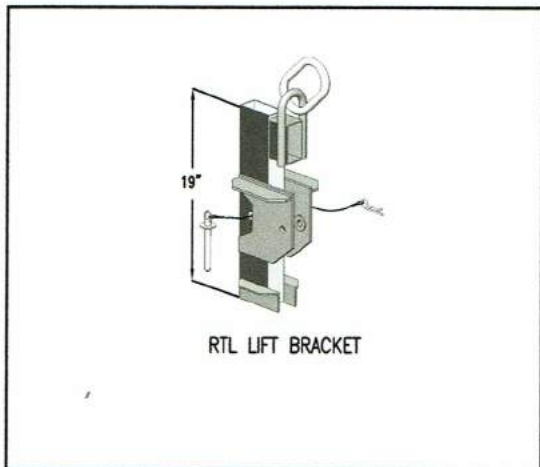
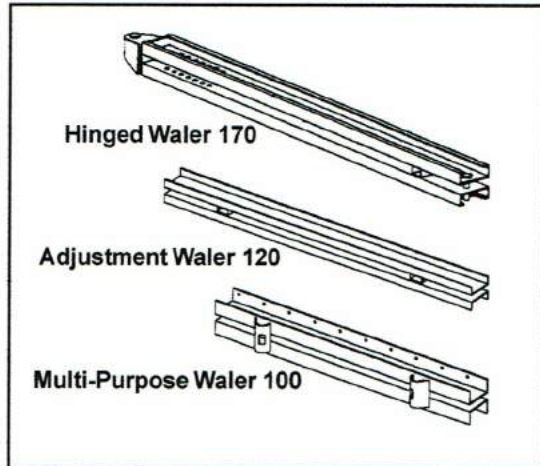
The Multi-Purpose Waler 100 is used like the Adjustment Waler 120, and can be used to create tension resistant filler alignment. It also features holes for nailing.

RASTO Lift Brackets

The RTL Lift Bracket has a maximum load capacity of 2,000 at a 4:1 safety rating. A minimum of two lift brackets are required to lift a gang of up to 265 sqft.

Note: The actual total area will depend on the total weight of the panels and hardware.

Caution: The angle for the attached lifting lines must be greater than or equal to 60 degrees from horizontal. If they are less than 60 degrees, or if more than two brackets are used, a spreader beam must be used.



RASTO

CLAMP FORM SYSTEM

1568 Perry Highway
Portersville, PA 16051 USA
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Intangible benefits of choosing RASTO from Desuta Concrete Forms.

LOCALLY STOCKED

Located along the I79 corridor in Western PA. We are the closest gang forming system available for this region. This greatly reduces freight cost and improves service availability for any additional materials needed.

WELL MAINTAINED

Every effort is taken to ensure clamps and hardware is in working condition when it arrives on the job. We maintain our forms with good plywood faces and are continually renovating/upgrading our rental fleet.

ENGINEERING AND FIELD SERVICE

When renting RASTO from DCF we strive to produce the most accurate and thoughtful layout drawings possible in the quickest amount of time for contractors to review.

We also have knowledgeable field service available when it makes sense to lend a hand on the job site.

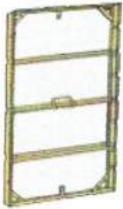
STRAIGHT FORWARD BILLING

DCF is a company that strives to bill projects exactly as agreed upon at time of acceptance.

We are also very fair and reasonable during the closeout process.

Handling "paperwork" from deliveries to returns and then final billing will help exceed the contractors experience in using the RASTO Clamp System.





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CONCRETE FORMS

Date:

1568 PERRY HWY
PORTERSVILLE, PA 16051

OFFICE: 724-368-3230
FAX: 724-368-3728

1. CUSTOMER INFORMATION:

Customer Name:

2. PROJECT INFORMATION:

Job:

Street:

City/State:

POC:

POC#:

Shipping date:

Ship Via:

DRAWING INCLUDED: YES / NO

DATE:

| DESCRIPTION | ORDERED | SHIPPED TRUCK #1 | SHIPPED TRUCK #2 | SHIPPED TRUCK #3 | WEIGHT EACH | Extended WEIGHT |
|---------------------------|---------|------------------|------------------|------------------|-------------|-----------------|
| RASTO | | | | | | |
| RASTO 240x270 Panel | | | | | 650.00 | |
| RASTO 90x270 Panel | | | | | 153.00 | |
| RASTO 75x270 Panel | | | | | 132.30 | |
| RASTO 70x270 Panel | | | | | 133.00 | |
| RASTO 65x270 Panel | | | | | 123.30 | |
| RATSO 60x270 Panel | | | | | 118.00 | |
| RASTO 55x270 Panel | | | | | 112.00 | |
| RASTO 50x270 Panel | | | | | 107.00 | |
| RASTO 45x270 Panel | | | | | 100.00 | |
| RASTO 30x270 Panel | | | | | 96.00 | |
| RASTO 5x270 Steel Filler | | | | | 50.00 | |
| RASTO 10x270 Steel Filler | | | | | 97.00 | |
| RASTO 90x150 Panel | | | | | 91.00 | |
| RASTO 75x150 Panel | | | | | 79.20 | |
| RASTO 70x150 Panel | | | | | 87.00 | |
| RASTO 65x150 Panel | | | | | 72.00 | |
| RASTO 60x150 Panel | | | | | 69.00 | |
| RASTO 55x150 Panel | | | | | 66.00 | |
| RASTO 50x150 Panel | | | | | 62.00 | |
| RASTO 45x150 Panel | | | | | 60.70 | |
| RASTO 30x150 Panel | | | | | 50.00 | |
| RASTO 5x150 Steel Filler | | | | | 28.00 | |
| RASTO 10x150 Steel Filler | | | | | 54.00 | |

| Corners | | | | | | |
|----------------------------------|--|--|--|--|--------|--|
| RASTO 30x270 Inside Corner | | | | | 146.00 | |
| RASTO 30x150 Inside Corner | | | | | 83.60 | |
| RASTO 30x270 Hing Corn (wood) | | | | | 158.30 | |
| RASTO 30x150 Hing Corn (wood) | | | | | 91.30 | |
| RASTO 15x270 Hinged Corner | | | | | 110.50 | |
| RASTO 15x150 Hinged Corner | | | | | 61.70 | |
| 150CM RASTO Outside Corner | | | | | 20.00 | |
| 270CM RASTO Outside Corner | | | | | 36.00 | |
| Filler Angles | | | | | | |
| RASTO Filler Angle 270 | | | | | 27.20 | |
| RASTO Filler Angle 150 | | | | | 15.10 | |
| Clamps | | | | | | |
| RASTO Panel Clamp | | | | | 6.56 | |
| RASTO Outside Corner Clamp | | | | | 13.50 | |
| RASTO Adj. Clamp | | | | | 10.66 | |
| RASTO Strongback Clamp | | | | | 12.60 | |
| RASTO Strongback End Clamp | | | | | 5.90 | |
| Ties & Tie Hardware | | | | | | |
| 15MM X 12IN INNER UNIT | | | | | 0.98 | |
| 15MM X 36IN INNER UNIT | | | | | 2.94 | |
| 15MM X 48IN INNER UNIT | | | | | 3.80 | |
| 15MM X 60IN INNER UNIT | | | | | 4.80 | |
| 15MM X 78IN INNER UNIT | | | | | 6.10 | |
| 15MM 41IN TAPER(18)TIE 3/4-1IN | | | | | 5.10 | |
| 15MM 49IN TAPER(24)TIE 3/4-1IN | | | | | 5.26 | |
| 15MM 57IN TAPER(32)TIE 3/4-1IN | | | | | 7.90 | |
| 15MM 65IN TAPER(40)TIE 3/4-1IN | | | | | 8.76 | |
| 15MM X 4IN X 6IN TIE PLATE/NUT | | | | | 2.20 | |
| 15MM X 5IN X 8IN TIE PLATE/NUT | | | | | 5.48 | |
| ACC TIE NUT SWIVEL 5" DIA | | | | | 2.00 | |
| ACC TIE HOLDING CLIP TOP | | | | | 4.94 | |
| 15MM SHE-BOLT | | | | | 1.82 | |
| Accessories | | | | | | |
| RASTO Panel Lift Bracket | | | | | 14.76 | |
| RASTO Walkway Bracket | | | | | 27.96 | |
| ACC GUARD RAIL POST (US) | | | | | 9.60 | |
| ALIGNER STRUT SHORT 3' | | | | | 20.00 | |
| ALIGNER STRUT LONG 6' | | | | | 25.00 | |
| ALIGNER STRUT COMPLETE 3'X6' | | | | | 45.20 | |
| D1 7'6"-14' STEEL PIPE BRACE | | | | | 95.00 | |
| D4 14'-23' STEEL PIPE BRACE | | | | | 130.00 | |
| D5 23'-39' STEEL PIPE BRACE | | | | | 208.00 | |
| D1 6'-11' GALAVANIZED PIPE BRACE | | | | | 60.00 | |



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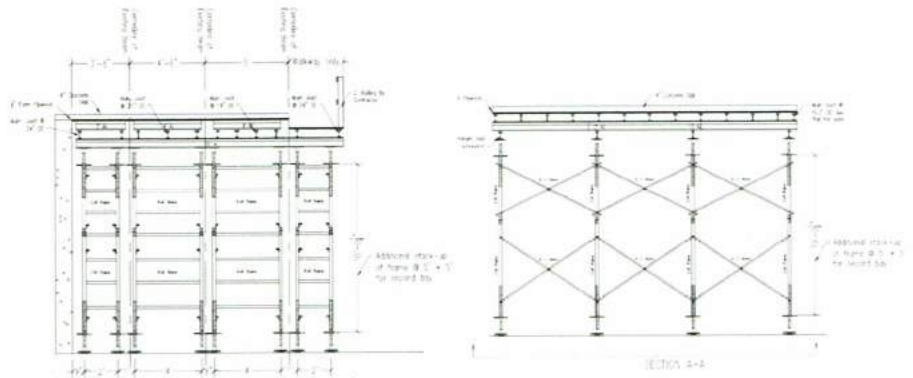
SHORING FRAMES AND POSTS

Speak with our design and Engineering specialist to create a safe, easy to follow a step-by-step architectural layout. We also provide design and structural guidance throughout your project.

Locally Stocked in
Western Pennsylvania

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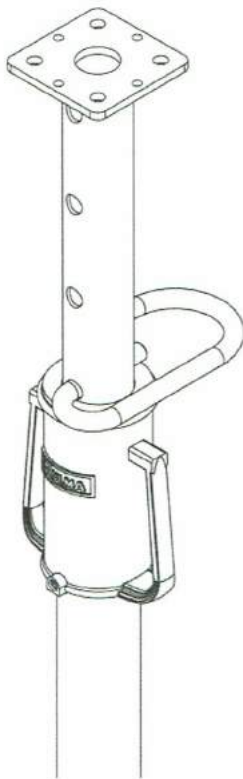
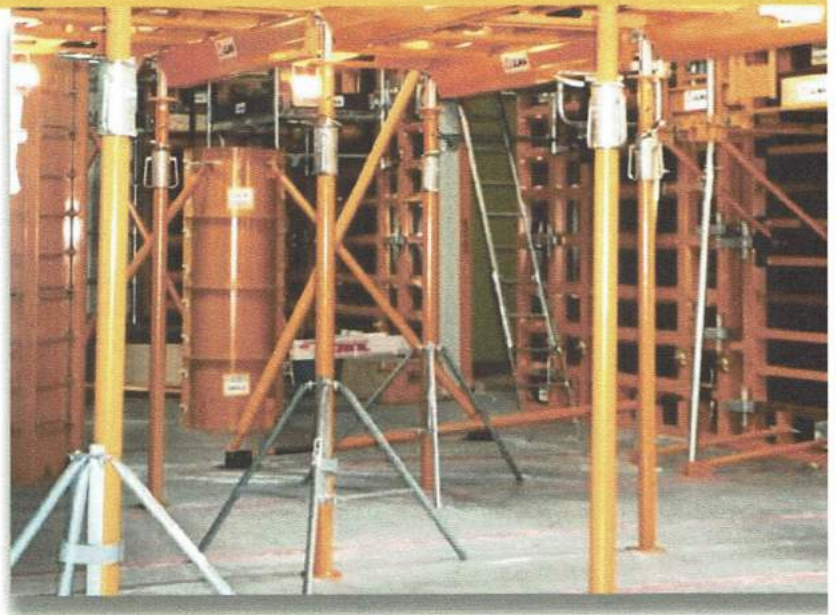
10K Hi-Load Shoring System



Special design for regulating and securing at heights, light and easy to handle

PS Post Shore

ULMA's PS POST SHORE is well known and in great demand on the market. It has been used for shoring in countless construction projects, and our customers still prefer it because of its efficiency and ease of use.



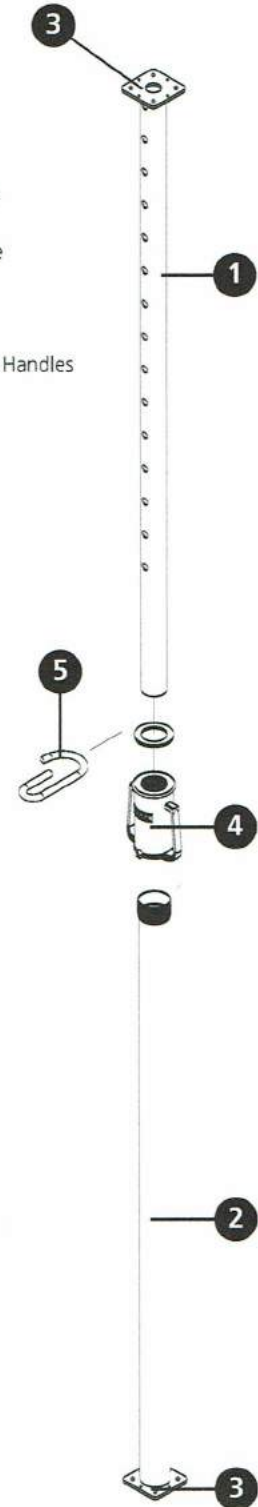


Features of PS POST SHORES

- Protected Covered Threads.
- Ear Handles.
- End Plates.

- 1 Internal Tube
- 2 External Tube
- 3 End Plates
- 4 Nut with Ear Handles
- 5 Pin

| NAME | MIN. HTS. | MAX. HTS | WEIGHT (lbs) |
|--------|-----------|----------|--------------|
| PS611 | 6' - 2" | 11' - 2" | 62 |
| PS813 | 8' - 2" | 13' - 2" | 72 |
| PS1116 | 10' - 9" | 15' - 7" | 80 |



PS Post Shore

PS POST SHORE

It is characterized by its special height regulating and fastening design, making the **PS POST SHORE** an extremely robust shoring element, while at the same time light and easy to handle.

The epoxy resin coating techniques give it an effective anti-rust protective coating.

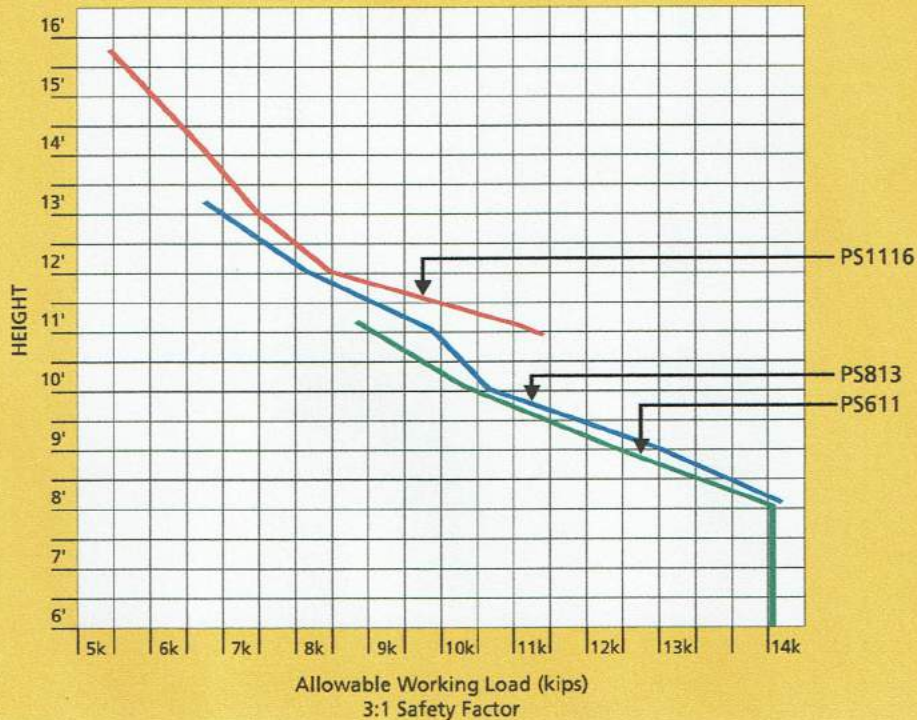
It is designed for shoring in horizontal formwork systems and for the various shoring needs that emerge in construction.

There are three types of Post Shores in the PS range, allowing customers to

select the most appropriate one for each need, depending on load and height requirements.

Below is a table with the collapse loads for **PS POST SHORES** based on heights reached by both with the progressive extension of the Internal Tube.

This data is for new, plumbed and central vertical load Props. Props should always be used unitarily between support and load; they should not be placed one above the other for greater height, since this can lead to unplumbing and effective loss of load capacity.





DESUTA

CONCRETE FORMS

Order Date:

Shoring Order Form

1568 PERRY HIGHWAY
PORTERSVILLE, PA 16051

OFFICE: 724-368-3230
FAX: 724-368-3728

1. CUSTOMER INFORMATION:

CUSTOMER:

2. PROJECT INFORMATION:

Job Name:
Street:
City/State/Zip:
On site POC:
POC#:
Shipping date:
Ship Via:

| DATE: | | | | | |
|------------------------------|---------|-----------------|-----------------|-------------|-----------------|
| DESCRIPTION | ORDERED | SHIPPED TRUCK 1 | SHIPPED TRUCK 2 | WEIGHT EACH | Extended WEIGHT |
| FRAMES | | | | | |
| FRAME HILOAD 2W X 4H | | | | 36.0 | |
| FRAME HILOAD 2W X 5H | | | | 45.0 | |
| FRAME HILOAD 2W X 6H | | | | 58.0 | |
| FRAME HILOAD 4W X 4H | | | | 43.0 | |
| FRAME HILOAD 4W X 5H | | | | 54.0 | |
| FRAME HILOAD 4W X 6H | | | | 67.0 | |
| FRAME LEDGER BEARING 4W X 5H | | | | 54.0 | |
| FRAME LEDGER BEARING 4W X 6H | | | | 67.0 | |
| CROSSBRACES | | | | | |
| CROSSBRACE, 3,4FT X 4W | | | | 11.0 | |
| CROSSBRACE, 3,4FT X 5W | | | | 13.1 | |
| CROSSBRACE, 3,4FT X 6W | | | | 15.0 | |
| CROSSBRACE, 3,4FT X 7W | | | | 16.7 | |
| CROSSBRACE, 3,4FT X 8W | | | | 18.4 | |
| CROSSBRACE, 3,4FT X 10W | | | | 22.0 | |
| ACCESSORIES | | | | | |
| CONNECTOR, UNIVERSAL | | | | 0.8 | |
| RIVET | | | | 0.3 | |
| HITCH PIN | | | | 0.1 | |
| J-HEAD 5X8 | | | | 8.2 | |
| U-HEAD 8X8 | | | | 13.0 | |
| BY PASS PLATE | | | | 10.0 | |
| BASEPLATE, SCREW | | | | 7.7 | |
| BASEPLATE, FRAME | | | | 6.7 | |
| SCREWJACK, HILOAD 36IN | | | | 10.5 | |

| DESCRIPTION | ORDERED | SHIPPED TRUCK 1 | SHIPPED TRUCK 2 | WEIGHT EACH | Extended WEIGHT |
|-----------------------------------|---------|-----------------|-----------------|-------------|-----------------|
| 3M U-HEAD SCREWJACK | | | | | |
| 3M BASE-PLATE SCREWJACK | | | | | |
| SHORE ATTACHMENT | | | | 7.0 | |
| <i>POST SHORE</i> | | | | | |
| POST SHORE BASE | | | | 24.7 | |
| SHORE STAFF, 5FT | | | | 15.5 | |
| SHORE STAFF, 7FT | | | | 21.0 | |
| RIVET | | | | 0.3 | |
| HITCH PIN | | | | 0.1 | |
| J-HEAD 5X8 | | | | 8.2 | |
| U-HEAD 5X8 | | | | 13.0 | |
| BASEPLATE, SCREW | | | | 7.7 | |
| NAILING PLATE, STAFF | | | | 1.5 | |
| NAILING PLATE, BASE | | | | 1.5 | |
| ACROW POST SHORE #0 (3'6-6'0) | | | | 36.0 | |
| ACROW POST SHORE #1 (5'9-10'3) | | | | 46.0 | |
| ACROW POST SHORE #2 (6'6-11') | | | | 49.0 | |
| ACROW POST SHORE #3 (8'6-13') | | | | 56.0 | |
| ACROW POST SHORE #4 (10'6-15'6) | | | | 69.0 | |
| HD GALV POST SHORE (6'6" - 11'0") | | | | 53.0 | |
| HD GALV POST SHORE 2 FT EXTENSION | | | | 10.5 | |
| <i>ALUMA BEAM</i> | | | | | |
| ALUMA BEAM 21'0" | | | | 84.0 | |
| ALUMA BEAM 20'0" | | | | 80.0 | |
| ALUMA BEAM 19'0" | | | | 76.0 | |
| ALUMA BEAM 18'0" | | | | 72.0 | |
| ALUMA BEAM 17'0" | | | | 68.0 | |
| ALUMA BEAM 16'0" | | | | 64.0 | |
| ALUMA BEAM 15'0" | | | | 60.0 | |
| ALUMA BEAM 14'0" | | | | 56.0 | |
| ALUMA BEAM 13'0" | | | | 52.0 | |
| ALUMA BEAM 12'0" | | | | 48.0 | |
| ALUMA BEAM 11'0" | | | | 44.0 | |
| ALUMA BEAM 10'6" | | | | 42.0 | |
| ALUMA BEAM 10'0" | | | | 40.0 | |
| ALUMA BEAM 9'0" | | | | 36.0 | |
| ALUMA BEAM 8'0" | | | | 32.0 | |
| ALUMA BEAM 7'0" | | | | 28.0 | |
| ALUMA BEAM 6'0" | | | | 24.0 | |
| <i>ALUMA STRINGER</i> | | | | | |
| STRINGER, 20'0" | | | | 104.0 | |
| STRINGER, 18'0" | | | | 72.8 | |
| STRINGER, 16'0" | | | | 84.0 | |
| STRINGER, 14'0" | | | | 73.0 | |
| STRINGER, 12'0" | | | | 62.0 | |

| DESCRIPTION | ORDERED | SHIPPED TRUCK 1 | SHIPPED TRUCK 2 | WEIGHT EACH | Extended WEIGHT |
|-----------------------------|---------|-----------------|-----------------|-------------|-----------------|
| STRINGER, 10'0" | | | | 52.0 | |
| STRINGER, 8'0" | | | | 41.6 | |
| <i>ALUMA ACCESSORIES</i> | | | | | |
| POST SOCKET ALUMINUM | | | | 1.8 | |
| A-CLAMP ASSEMBLY | | | | 0.3 | |
| BOLT ASSY ALUMA 1/2 X 1-1/2 | | | | 0.2 | |
| W-CLAMP ASSEMBLY | | | | 0.5 | |
| MULTI BRACKET | | | | 3.5 | |
| MULTI HINGE | | | | 7.0 | |
| PACKING CLIP | | | | 0.3 | |
| ABC CLAMP | | | | | |
| <i>STEEL BEAM W8X10</i> | | | | | |
| 4FT W8X10 BEAM | | | | 40.0 | |
| 5FT W8X10 BEAM | | | | 50.0 | |
| 6FT W8X10 BEAM | | | | 60.0 | |
| 7FT W8X10 BEAM | | | | 70.0 | |
| 8FT W8X10 BEAM | | | | 80.0 | |
| 9FT W8X10 BEAM | | | | 90.0 | |
| 10FT W8X10 BEAM | | | | 100.0 | |
| 12FT W8X10 BEAM | | | | 120.0 | |
| 13FT W8X10 BEAM | | | | 130.0 | |
| <i>DOUBLE CHANNEL WALER</i> | | | | | |
| WALER, 5X2FT | | | | 29.0 | |
| WALER, 5X3FT | | | | 45.0 | |
| WALER, 5X4FT | | | | 57.5 | |
| WALER, 5X5FT | | | | 70.9 | |
| WALER, 5X6FT | | | | 84.3 | |
| WALER, 5X8FT | | | | 113.3 | |
| WALER, 5X10FT | | | | 140.1 | |
| WALER, 5X12FT | | | | 169.0 | |
| WALER, 5X14FT | | | | 195.8 | |
| WALER, 5X16FT | | | | 224.7 | |



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CONCRETE FORMS

1568 Perry Hwy
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These forms leave your concrete column with a smooth finished product free of voids and minimal seams.

Easy to assemble with $\frac{1}{2}$ " x 2" nuts and bolts included with the form rental.

Half round sections (up to 48") and Quarter round sections for over 48" diameter forms make for easy handling and ability to bolt together for crane lifting and moving.

With the ability to pour one column per form per day (curing time permitting), you can save time and money with this fast and easy to use form system. Reuse for multiple pours within the 28 - Day rental period for one price.

Lateral pressure should not exceed 3000 PSF on forms through 36" diameter or 2000 PSF of forms over 36" diameter.

Give us a call for a quote
for your next Column
Form Rental!!
Competitive Pricing!!

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Steel Column Forms



We stock the following sizes in
Western PA:

Diameter: 16in, 18in, 20in, 24in,
26in, 28in, 30in, 36in, 42in, 44in,
48in, 54in, 60in, 72in

Height: 2ft, 4ft, 6ft, and 8ft
(stackable to make longer)

Other sizes available upon request,
usually 3 - 5 days lead time.





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AVAILABLE SIZES:

8IN X 12FT

10IN X 12FT

12IN X 12FT

14IN X 12FT

16IN X 12FT

18IN X 12FT

20IN X 12FT

24IN X 12FT

30IN X 12FT

36IN X 12FT

42IN X 12FT

48IN X 12FT

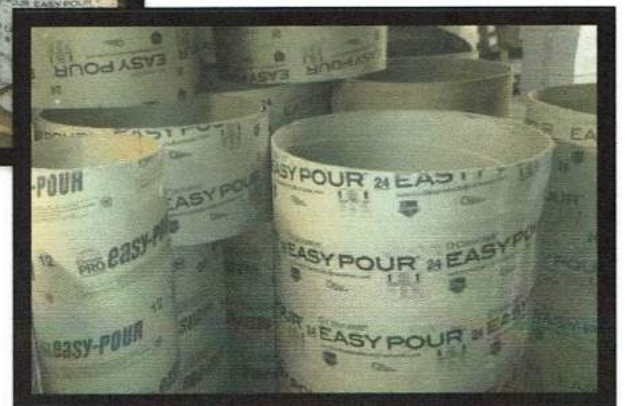
These can be cut to any size.

Other various diameters, lengths
and weather-shield also
available, but may require more
lead time

SONOTUBES/COLUMN FIBER FORMS



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FormKote OTC

Description

FormKote OTC is a chemically reactive, ready to use concrete form release agent. It is formulated to be applied to forms prior to concrete placement and to facilitate their removal following concrete set. FormKote OTC is non-hazardous, and its' low viscosity facilitates easy spraying and cleaning up. FormKote OTC meets the rigid VOC content requirements of the Ozone Transport Commission (OTC), Lake Michigan Air Directors Consortium (LADCO), as well as the Environmental Protection Agency (EPA).

Uses

FormKote OTC provides both a chemical and physical release to all types of concrete forms, including steel, conditioned aluminum, all types of plywood & lumber, and fiberglass. Release is accomplished easily without the use of force or equipment that can damage form work. The resulting concrete is clean with minimal spalling.

Features

FormKote OTC helps extend the life of wood forms, and due to the rust-inhibiting agents prevents rust on metal forms.

FormKote OTC minimizes concrete buildup on ready-mix trucks, mixers, spreader-finishers, buggies, chutes, etc.

Higher coverage rates, leads to lower costs. Over 3-4 times the area covered by the same quantity of physical type release agents.

FormKote OTC may be used on forms previously treated with other oil based form release agents.

The better performance and cleaner release from FormKote OTC shortens the stripping time to an absolute minimum.

FormKote OTC leaves no residues or stains, when properly applied.

Concrete surfaces cast against FormKote OTC, may be painted and caulked with proper preparation.

FormKote OTC may be used on conditioned aluminum, steel, plastic, fiberglass, plywood, etc.

Free of waxes, silicones, and diesel fuel.

VOC Compliant

Technical Data

| | Method | Results |
|----------------|-------------|---------------|
| Color | ASTM D-1500 | <1 |
| Clarity | visual | clear |
| Bulk Density | ASTM D-1250 | 7.1 lb./gal. |
| Viscosity, SUS | ASTM D-2161 | <40 @100°F |
| Pour Point | ASTM D-97 | -40°F |
| Flash Point | ASTM-93 | 236°F |

Compliance

CE-204, CW-03101 and CEGS-03300

VOC Content

<250 grams/liter- Complies with applicable EPA, OTC, and LADCO specifications.

Packaging

| | |
|-----------------|-----------------|
| 275 gallon tote | 1,040.88 Liters |
| 55 gallon drum | 208.15 Liters |
| 5 gallon pail | 18.93 Liters |

Application

FormKote OTC is ready to use and requires no dilution.

Method:

FormKote OTC may be applied by spraying, roller, mopping, or brush. However, spraying is by far the best method, as the material is atomized to help prevent over-application, which can cause surface imperfections. Only apply to clean and dry forms. Clean application equipment with mineral spirits.

If using on new wooden forms of all types, it is imperative that FormKote OTC be applied multiple times until complete saturation prior to the first use.

Proper application is imperative, as over-application will lead to surface imperfections.

Coverage:

| | |
|--|----------------------------------|
| Untreated Plywood (CDX) | 700-1,200 ft ² /gl. |
| Pre-oiled Plywood (BBOES) | 1,000-1,500 ft ² /gl. |
| Medium Density Plywood (MDO) | 1,500-2,000 ft ² /gl. |
| Steel, Plastic, Fiberglass, Aluminum, or High Density Plywood (HDO) | 2,000-2,500 ft ² /gl. |

Treat brackets, tie rods, shoring and scaffolding daily or as required to soften existing build-up and prevent future accumulations. Actual coverage rates depend upon the type of material and the porosity of the form surface.

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Krystal 15 Emulsion

Description

Krystal 15 Emulsion is a state of the art, water emulsion of styrene acrylate copolymers. This high quality polymer produces a VOC compliant compound for curing freshly placed concrete. This product provides a cure and seal while assuring total resistance to yellowing from ultraviolet exposure. It is particularly suited for concrete where VOC requirements or safety concerns make solvent based systems inappropriate

In addition, this product is unique in that it has built in freeze/thaw protection. While it will solidify if frozen, after thawing and gentle stirring, it will be as good as new.

Uses

This product provides a totally clear membrane for new concrete or old. It will make clean up at the end of the job, much easier. It provides an alternative to solvent-based materials where fumes may be objectionable. It, also, helps minimize spalling of exterior concrete.

Physical Characteristics 75°F & 50% R.H.

| | |
|------------------|---------------------------------|
| Color | Wet: White Dry: Clear |
| NVM | 15% |
| Viscosity | 40-90 cps |
| Specific Gravity | 1.01 |
| Dry Time | 1-2 hours |
| Recoat Time | 2-24 hours |
| Foot Traffic | 2-4 hours |
| Wheel Traffic | 6-10 hours |
| VOC Content | < 350 g/L |
| Moisture Loss | <0.45 kg/m ² |
| | ASTM C156 |
| Flash Point | >500°F |
| Odor | Slight solvent |
| Shelf Life | 1 year in unopened container |

Compliances

ASTM C-309, Type I or ID, Class A & B
Meets the Class A requirements for UV stability as per ASTM C-1315, Section 6.4.1

Packaging

208.16 Liters (55 gal. drum)
18.93 Liters (5 gal. pail)

Coverage Rate

Curing/Sealing 200-300 ft²/gl.
New Concrete

Sealing/Dustproofing 300-400 ft²/gl.
Old Concrete

Application

Surface should be clean, free of grease, oil, standing water and other foreign matter as per ASTM D-4258. Apply evenly with clean sprayer with nozzles specifically designed for curing compounds, such as Chapin nozzle # 1-5937 or equal. Apply as soon as the surface is sufficiently hard, so that it will not be marred. Do not puddle. Short napped rollers may also be used.

If using as a curing compound, apply as soon as finishing operations are completed and the surface will not be marred by the application. Do not apply over puddles. Subsequent coats should be applied on top of *dry* Krystal 15 Emulsion.

Clean equipment with clean water before the product dries. After drying, Curing Compound Remover or strong solvents, such as Xylene, MEK, or Toluene will soft and help to remove the film.

The use of SureGrip, added directly to Krystal 30 OTC prior to application, will provide a slip-resistant surface.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.

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Krystal 25

Description

Krystal 25 is our highest quality non-yellowing curing & sealing compound for use in areas not affected by the AIM VOC regulations instituted by LADCO and/or OTC. It contains increased amounts of acrylic modified styrene-acrylate copolymer solids for better sealing of the concrete surface from stains and provides a more dustproofed slab. It assures total resistance to yellowing from ultra violet exposure. It is classified as non-yellowing according to the ASTM C-1315 specification.

Uses

This tough copolymer concrete treatment is designed for exterior applications only, and for both above and below grade. Easily applied, Krystal 25 provides a premium performance, and a long lasting gloss to the slab. It is compatible with conventional carpet and resilient flooring adhesives. Krystal 25 is recommended for curing, hardening, dustproofing and sealing of both new and old concrete surfaces, as well as being recommended as a curing & sealing compound for exposed aggregate concrete. By changing the reflective index of the natural aggregates, the colors come to life. Gray aggregates appear black and weak colors appear stronger. Krystal 25 also serves to keep the white or light colored cement matrix clean.

Compliances

ASTM C-309, Type I, Classes A & B
ASTM C-1315, Type I, Class A
AASHTO M-148, Type I, Class B
Fed. Spec. TTC-800A, Type I

Technical Data @75°F

| | |
|--------------------------|---------------------------------|
| NVM | 25% min. |
| Viscosity | ~60 cps. |
| Dry Time | <1 hour |
| VOC Content | <675 g/l |
| UV degradation | passes |
| Moisture Loss | <0.30 g/l |
| Appearance | Water clear |
| Color | 1 Gardner |
| Adhesion, ASTM D 4541 | passes |
| Alkali & Acid Resistance | passes |
| Shelf Life | 2 year in unopened container |

Packaging

55 gallon drums (208 liters)
5 gallon pails (18.9 liters)
1 gallon cans (3.78 liters)

Directions

Fresh Concrete – Krystal 25 should be applied within 1-2 hours after completion of the finishing operation, or as soon as possible after surface water has disappeared. Coat surface uniformly, leaving no pinholes or gaps, at a coverage rate of 300-400 ft² per gallon for the first coat. Apply with hand sprayers equipped with nozzles specifically designed for high solids curing compounds, such as Chapin nozzle 1-5937 or equal. Apply as soon as the surface is sufficiently hard, so that it will not be marred. Do not puddle.

Apply a second coat at 400-450 ft² per gallon, after the previous coat has dried at least overnight. Be sure that both coats are dry and hard before opening slabs to traffic. Aged Concrete - Remove all foreign matter. Apply as described above, however the coverage rate may vary from 400-500 ft² per gallon depending on texture and porosity of surface. When used on old concrete, due to the uneven porosity of concrete, a blotchy appearance may develop.

Krystal 25 may also be roller-applied, although a more even application is accomplished by spraying on the product then immediately back rolling over the applied area to re-distribute any heavy or puddled spots. Back rolling must be done immediately behind the spray application. Do not attempt to overwork the roller as this can cause bubbling, stringing and roller nap pull-out. The used rollers must be disposed of properly due to the flammability of the product.

The use of SureGrip, added directly to Krystal 25 prior to application, will provide a slip-resistant surface.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.

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Krystal 30

Description

Krystal 30 is our highest quality non-yellowing curing & sealing compound. It contains increased amounts of modified acrylic co-polymers for better sealing of the concrete surface from stains, and provides a more dustproofed slab. It assures total resistance to yellowing from ultra violet exposure. Krystal 30 meets all aspects of ASTM C-1315, and is classified as a non-yellowing (Class A) curing & sealing compound.

Uses

This tough copolymer concrete treatment is designed for exterior applications only, and for both above and below grade. Easily applied, Krystal 30 provides a premium performance and long lasting gloss and "wet-look" to the floors. In fact, the gloss is measured at 100%. Krystal 30 is compatible with both conventional carpet and resilient flooring adhesives. Krystal 30 is recommended for curing, hardening, dustproofing and sealing of both new and old concrete surfaces, and is recommended as both a curing compound and sealer for exposed aggregate concrete. By changing the reflective index of the natural aggregates, the colors come to life

Compliances

ASTM C-309, Type I, Class A & B
ASTM C-1315, Type I, Class A
AASHTO M-148, Type I

Physical Characteristics@75°F & 50% RH

| | |
|-----------------------------|-------------------------------|
| Color | Clear |
| NVM | 30% |
| Viscosity | 60-100 cps. |
| Specific Gravity | 1.01 |
| Dry Time | 1-2 hours |
| Recoat Time | 2-24 hours |
| Foot Traffic | 2-4 hours |
| Wheel Traffic | 6-10 hours |
| VOC Content | <650 g/l |
| Moisture Loss (ASTM C-156) | <.30 kg/m ² |
| Specular Gloss (ASTM D-523) | 100% |
| Flash Point | >105°F TCC |
| Shelf Life | 2 years in unopened container |

Packaging

55 gallon drums (208 liters)
5 gallon pails (18.9 liters)
1 gallon cans (3.78 liters)

Directions

Fresh Concrete – Krystal 30 should be applied within 1-2 hours after completion of the finishing operation or as soon as possible after surface water has disappeared. Coat surface uniformly, leaving no pinholes or gaps, at a coverage rate of 300-400 ft² per gallon for the first coat. Apply with hand sprayers equipped with nozzles specifically designed for high solids curing compounds, such as Chapin nozzle 1-5937 or equal. Apply as soon as the surface is sufficiently hard, so that it will not be marred. Do not puddle.

Apply second coat at 400-450 ft² per gallon, after previous coat has dried at least overnight. Be sure both coats are dry and hard before opening slabs to traffic.

Aged Concrete - Remove all foreign matter. Apply as described above, however the coverage rate may vary from 400-500 ft² per gallon depending on texture and porosity of surface. When used on old concrete, due to the uneven porosity of concrete, a blotchy appearance may develop.

Krystal 30 may also be roller-applied, although a more even application is accomplished by spraying on the product then immediately back rolling over the applied area to re-distribute any heavy or puddled spots. Back rolling must be done immediately behind the spray application. Do not attempt to overwork the roller as this can cause bubbling, stringing and roller nap pull-out. The used rollers must be disposed of properly due to the flammability of the product.

The use of SureGrip, added directly to Krystal 30 prior to application, will provide a slip-resistant surface.

Notes

Prior to use, STOP and read & understand the label, product data sheet, and current Safety Data Sheet for Krystal 30. Do not thin. This product will not freeze; however bring the temperature of the product up to at least 60°F by leaving it in a warm environment. Never apply direct heat to the product. Heavy applications can lead to improper drying, bubbling and discoloration. Do not apply to surfaces meant to receive a cementitious topping. Not for interior use. Due to the extremely low flash point, Krystal 30 should NOT be used inside any structures, or be allowed to enter any structures. This product is highly flammable, and vapors may ignite explosively,

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SurePlug

Regular Set
Slow Set
Fast Set

Description

SurePlug is a fast setting, non-shrinking, hydraulic cement compound, formulated to stop leaks in all types of concrete or masonry surfaces; and is particularly designed to instantly stop the flow of running water. SurePlug requires the addition of only water before plugging and sealing cracks. Available in three set times of 30 seconds (Fast Set), 1 minute (Regular Set), and 3 minutes (Slow Set).

Uses

SurePlug is used to plug all cracks and openings in concrete, masonry walls, dams, manholes, wells, tanks and stops water seepage at the junction of walls and floors. It is effective even under hydrostatic pressure. It is also used for anchoring bolts, hand railings, repairing cracks in concrete floors, and utility structures.

Physical Properties @ 75°F

| | |
|--------------------------|-------------------|
| Color | Concrete Gray |
| Compressive Strength | 6 hours 400 psi |
| ASTM C- 109 | 1 day 2,000 psi |
| | 7 days 3,500 psi |
| | 28 days 6,000 psi |
| Flexural Strength | 28 days 1,200 psi |
| (ASTM C-78) | |
| Tensile Strength | 28 days 800 psi |
| (ASTM C-496) | |
| Gillmore Needle Set Time | |
| Slow | 3-5 minutes |
| Regular | 40-60 seconds |
| Fast | 20-30 seconds |

Packaging/Yield

10 lb. plastic pail - .09 ft³ (157 in³)
50 lb. plastic pail - .45 ft³ (778 in³)

Directions

Surface Preparation

All cracks or openings should be carefully prepared by cleaning out foreign matter, and cutting out loose materials. Also the crack must be opened to a minimum width of 1" at the surface. Wherever possible, square out the crack to the extent of making it larger at the base. Cracks should not be left in a sharp V form, particularly where water under hydrostatic pressure is to be dammed off.

If possible, chip the crack into the form of an inverted V. Mix SurePlug with clean water to the consistency of putty, using only enough SurePlug that can be placed in 15 seconds. Mixing time should not take more than 1/2 minute.

After filling a crack or hole, the plug should be kept damp to assure complete hydration of the cement. Never re-temper or re-mix SurePlug. If areas to be patched are holding water under pressure, weep holes should be made at the base of the wall to relieve the pressure. In extremely warm weather use ice water to retard and slow down the set of SurePlug. In cold weather of less than 40°F, we recommend that all surfaces to be plugged, as well as the SurePlug, should be warmed to approximately 70°F, to achieve a more normal setting rate and for best results.

Mixing

Gradually add SurePlug to clean water and mix with a small trowel. Mix material to consistency of putty with no slump. Force material into the crack or hole using maximum pressure and hold until set occurs. When repair areas are under high water pressure, start at the top of the area and work down. Hold SurePlug in your hand until heat is felt and then force material into crack or void. Do not ever add plasticizers, accelerators, retarders, or any other ingredients besides potable water unless advised by Kaufman Products in writing.

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SurePoxy 117

Description

SurePoxy 117 is a 100%-solids, high-modulus, two-component, fast-setting epoxy gel. SurePoxy 117 provides a rigid, non-shrinking adhesive for use in both dry and damp applications. It is insensitive to moisture before, during, and after cure. SurePoxy 117's unique non-abrasive formula makes application significantly easier with pressure injection equipment. SurePoxy 117 is intended for application from 60-95°F. Temperature variations during cure will effect the strength gain time.

Uses

SurePoxy 117 is ideally suited as a chemical anchor when adding new lanes to highways, or additional runways at airports. SurePoxy 117 is chemically engineered expressly for use with automated injection equipment. Follow pressure equipment manufacturers directions. Use to adhere parking bumpers and sealing cracks and ports for injection of epoxy into concrete.

Specifications

ASTM C-881, Types I, II, IV & V, Grade 3, Class C (modified for faster set)
AASHTO M-235, Types I, II, IV & V, Grade 3, Class C (modified for faster set)

VOC

0 grams/liter

Packaging

600 Milliliter (22 oz.) 6 per carton
3.785 Liter (1 gal. unit)
5.68 Liter (1.5 gal. unit)
7.5L (2 gal. unit)
37.85L (10 gal. unit)
416.35 Liter (110 gal. unit)

Temperature Conditions

Store at 40-95°F. Condition material to 60-85°F before using.

Physical Properties - Uncured @72°F, 50% RH

| | | |
|---|--------------------------------|-----------|
| Mixing Ratio | 1:1 by volume | |
| Color | A-white; B-gray; Mixed-gray | |
| Viscosity | Non-Sag Gel | |
| Shelf Life | 2-year minimum | |
| Pot Life (conditioned to 72°F & cured at following temps) | | |
| | 72°F | 42°F |
| 1 quart | 8-12 min. | 60 min. |
| Bead | 20-30 min. | 3-4 hrs. |
| Final Cure | 1 day | 7-10 days |

Cured

| | | |
|--|--|-----|
| HDT (ASTM D-648) | 125°F | |
| Bond Strength (ASTM C-882) | 2,100 psi. min. @ 14 days | |
| Compressive Strength 1:1 Mortar (ASTM D-695) | 4,000 psi. @ 2 hrs 12,000 psi. @ final cure | |
| Compressive Yield Strength | 12,000 psi. @ 7 days | |
| Compressive modulus | 460,000 psi. @ 7 days | |
| Flexural Strength | 15,000 psi. @ 7 days | |
| Shear Strength (ASTM D-732) | 3,900 psi. @ 7 days | |
| Water Absorption (ASTM D-570) | .5% max | .1% |
| Pull Out Test (ASTM E-488) | 34,000 psi. @ 7 days | |
| Shore D Hardness (ASTM-2240) | 80 min. | |
| Shrinkage (ASTM C-883) | .002 max. | |

All values approximate-will vary with temperature and humidity.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.

Directions

Surface Preparation

All surfaces must be free of foreign matter and be structurally sound. Prepare surfaces by acid etching, mechanical scarification or sand-blasting. Drill hole and blow out loose dust and debris from the back of the hole moving forward using oil and moisture-free compressed air and brush. Remove foreign matter from surfaces.

Application

Static Mixers – Load a cartridge of SurePoxy 117 into a Kaufman Products' manual or pneumatic mixing gun. If using a manual gun use our high-viscosity gun, item number 016A. Call Kaufman Products technical services department for questions regarding other manual or pneumatic guns.

Dispense SurePoxy 117 until a bead of material is produced that is uniform in color. There must be no visible color streaking, indicating improper mixing of the SurePoxy 117. Typically the first few inches of epoxy cartridges are not adequately mixed to achieve advertised strengths. Discard this improperly mixed material. SurePoxy 117 cartridges must be dispensed under constant, uniform pressure not exceeding 50 psi. If dispensing is not constant, re-establish the same uniform color again before dispensing into the hole(s).

Insert the tip of the static mixer all the way to the back of the hole to be grouted. Dispense material and gradually withdraw the mixer as the hole fills up completely. Check constantly to avoid air pockets and unevenly mixed components. In addition, prior to inserting the material into the hole, visually inspect SurePoxy 117 to determine if the two components are mixing evenly. Always test a small amount of SurePoxy 117 to verify that the material has been adequately mixed, and will harden properly before proceeding. Periodic testing throughout the job is necessary to make certain that the material is consistently being mixed correctly on the jobsite. After injecting the SurePoxy 117, place the dowel bar or threaded rod slowly into the hole while turning the anchor.

Hand mixing - Mix SurePoxy 117 until the color is completely uniform and without any color streaking. Insert into hole and fill from the back outward until the hole is completely full. Insert anchoring device with a twisting motion all the way to the back of the already grouted hole. Attach grout containing plastic disc onto dowel or rebar to prevent run out. For cold weather work it helps to make the discharge opening of static mixers larger by cutting off the smallest opening. Depth of embedment is typically 10-15 times the bolt diameter. Always test a small amount of SurePoxy 117 to verify that the material has been adequately mixed, and will harden properly before proceeding.

Notes

Clean equipment with SurePoxy Thinner, or other aromatic solvents (such as Xylene), immediately after use. Jobsite tests should be conducted in order to verify anchor performance.

Precautions

Minimum age of the concrete is 3-7 days old. Epoxy resins will form a vapor barrier. Do not allow SurePoxy 117 to remain into the static mixer for more than 5 minutes, as the material will begin to solidify causing blockages and impeding future material from being mixed. Do not thin. Not for sealing cracks under hydrostatic pressure. Read Material Safety Data before using. This product is intended as an anchoring adhesive in relatively low mass volumes, and is not intended for use with a constant suspended load. Cold temperature makes the gel thicker and more difficult to mix properly. Warm the material to temperatures above 70°F before using. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather. Always pay special attention to cartridges to determine that the static mixer is properly mixing the material.

The NTSB has stated that epoxy adhesive products are approved for short term loads only and should not be used in sustained tensile load adhesive anchoring applications where adhesive failure could result in a public safety risk. Consult a design professional prior to use.

For professional use only. Not for sale to or use by the general public.

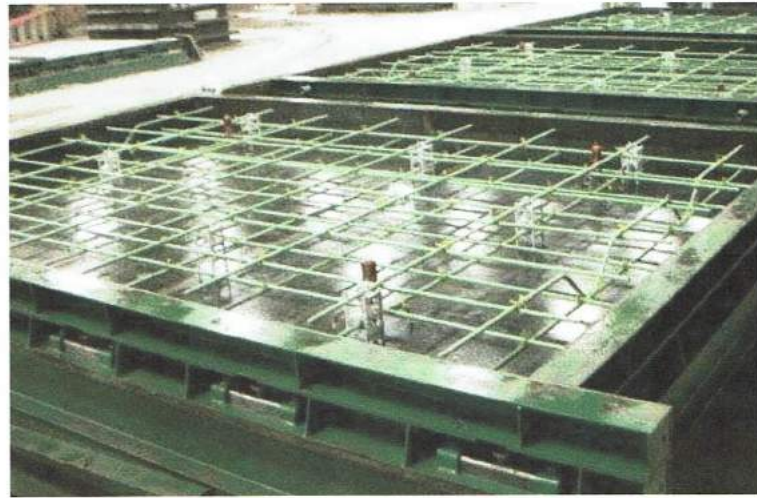
LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.



Durajoint[®]
Waterstop
"The Original"



Preco[®]
Forming Accessories



PROVIDING PERFORMANCE PRODUCTS TO THE CONCRETE INDUSTRY FOR OVER 60 YEARS

Durajoint[®]
Concrete Accessories



Durajoint[®] Waterstop

"The Original"

Durajoint[®] PVC Waterstop is designed for use in concrete construction containing joints with one or more sides of the joint subject to hydrostatic pressure. Durajoint Waterstop is used as a barrier within the joint to prevent the passage of liquid through or across the joint. It spans the joint equally and is embedded in the concrete on both sides of the joint to accommodate lateral and transverse movement which can cause the joint to open, close, or misalign.

COMPOSITION AND MATERIAL Durajoint PVC Waterstop is extruded from an elastomeric plastic compound consisting of virgin polyvinyl chloride and additional resins, plasticizers and stabilizers to meet or exceed the requirements and performance criteria of the Corps of Engineers Specification CRC-C 572-74. Durajoint PVC Arctic Grade Waterstop is available to meet Ontario Hydro Standard M-264-81.

RIBBED TYPE WITH CENTERBULB

| | HEAD OF WATER FT. | |
|---|-------------------|--|
| Type 3 Type 3A Construction joints. | 65 | |
| Type 4 Construction joints. For higher heads of water or larger movement than Type 3. | 100 | |
| Type 4B Similar to Type 4, however tapered for economical but effective water stoppage. | 100 | |
| Type 5 Heavier duty than Type 4. Will resist displacement during concrete pour. | 125 | |
| Type 5A Similar to Type 5. Recommended for small dams and hydro projects. | 125 | |
| Type 5BR Extra heavy duty. Will also resist displacement during pour. | 125 | |
| Type 6 For large expansion joints in retaining walls or roof slabs. | 150 | |
| Type 7 For large heads of water - dams, major reservoirs, sewage plants or locks. | 150+ | |
| Type 7BR Use when extra movement in both shear and expansion is expected. | 150+ | |
| Type 7C Will accommodate extra movement in both expansion and shear. | 150+ | |
| Type 7D1 For larger heads of water - dams, reservoirs, sewage plants or locks with larger movement. | 150+ | |

RIBBED TYPE WITH CENTERBULB

| | HEAD OF WATER FT. | |
|--|-------------------|--|
| Type 7F For large transverse and shear movements in major structures. | 150+ | |
| Type 8 For exceptionally high heads of water and application in major structures, dams, power houses, etc. | 150+ | |
| Type 9 Extra heavy duty for higher heads of water and will resist displacement during pour. | 150 | |
| Type 10 Will accommodate extra movement in both expansion and shear. | 150 | |
| Type 31 For extra high dams. | 250+ | |
| Type M3 Economical shape for use in expansion joints of 1" or less. | 150 | |

SPLIT RIBBED TYPE WITH CENTERBULB

| | | |
|---|------|--|
| Type 300 Same as Type 3 but has one split flange. | 65 | |
| Type 400 Same as Type 4 but has one split flange. | 100 | |
| Type 500 Same as Type 5 but has one split flange. | 125 | |
| Type 700 Same as Type 7 but has one split flange. | 150+ | |
| Type 3100 For extra high dams. | 250+ | |

DUMBBELL TYPE - SPLIT WITHOUT CENTERBULB

| | | |
|---|-----|--|
| Type DB-200 For expansion joints 1/2" or less in width. | 100 | |
| Type DB-300 For expansion joints 1" or less in width. | 100 | |

NOTE: Head pressure ratings are for reference only. Actual ability to resist head pressure depends on the quality of concrete and placement.

TYPE OF JOINTS

Working Joints – Large amount of movement occurs.

Non-Working Joints – Little or no movement occurs.

Control Joints – Purposely created planes of weakness to predetermine the location of a crack during the curing and contraction of concrete.

Expansion or Isolation Joint – Separates or isolates abutting concrete structures such as slabs, walls, or footings.

Construction Joints – Placed at the interruption in the placement of concrete.

TYPES OF WATERSTOP

Ribbed w/ Centerbulb (RCB) – Most common and versatile type of waterstop. Used in expansion, contraction, and construction joints where a large amount of movement is expected. The greater amount of expected movement, the larger the centerbulb should be. Ribbed profiles provide better watertight sealing than non-ribbed profiles.

Ribbed w/o Centerbulb (RF) – Joints where little or no movement is expected.

Dumbbell w/o Centerbulb (DB) – Below-grade joints where little or no movement anticipated.

Dumbbell w/ Centerbulb (DCB) – Selected application where movement will be present.

Split Ribbed and Dumbbell – To eliminate split form work.

Baseal® Type Joint Seals – For on grade installation at the bottom of concrete slabs to prevent upward seepage of ground water through joints, or to waterproof joints at wall/slab junctions.

RIBBED TYPE WITHOUT CENTERBULB

| | HEAD OF WATER FT. | |
|--|-------------------|--|
| Type 2 For construction joints. | 65 | |
| Type 11 Construction joints in foundation walls and footings where greater hydrostatic pressure is anticipated. | 125 | |
| Type 11A For deep embedment in construction and expansion joints where shear movement is not anticipated. | 150 | |
| Type 11B Durajoint flat ribbed waterstops are used in construction joints where little or no movement is expected. Found generally in below grade footings, walls and slabs. | 100 | |
| Type 11C | 150 | |
| Type 12 Construction joints in foundation walls and footings. | 65 | |
| Type 13 Construction joints in foundation walls and footings where greater hydrostatic pressure is anticipated. | 125 | |
| Type 14 For deep embedment in construction and expansion joints where shear movement is not anticipated. | 150 | |
| Type 15 Construction joints in foundation walls and footings. | 125 | |

DUMBBELL TYPE WITHOUT CENTERBULB

| | HEAD OF WATER FT. | |
|---|-------------------|--|
| Type DB-1 For construction joints. | 65 | |
| Type DB-2 For expansion joints 1/2" or less in width. | 100 | |
| Type DB-3 For expansion joints 1" or less in width. | 100 | |
| Type DB-4 For expansion joints 1" or less in width. | 100 | |
| Type DB-5 For composition joints below grade where little or no movement is expected. | 90 | |
| Type DB-7 Same as Type DB-5 but will take higher head of water. | 100 | |
| Type DB-8 Economical shape for construction joints below grade. | 65 | |

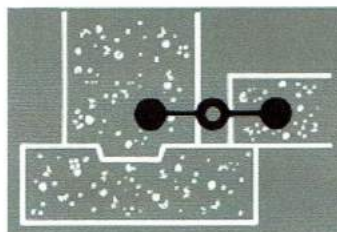
DUMBBELL TYPE WITH CENTERBULB

| | | |
|---|-----|--|
| Type DB-6 For expansion joints up to 1-1/2" in width. Will accommodate both transverse and longitudinal movements. | 150 | |
| Type DB-9 For expansion joints 1" or less in width. | 100 | |
| Type DB-10 For horizontal and vertical expansion joints where reinforcing steel does not allow use of 9" waterstop. | 125 | |
| Type DB-11 To be used in large pours with expected movements, floodwalls, large treatment plants. | 150 | |

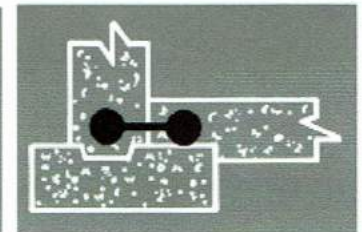
** Please note –*

In addition to PVC, all profiles are also available in TPER (chemical resistant) and Arctic Grade

EXPANSION JOINTS



CONSTRUCTION JOINTS



POST-APPLIED RETRO-FIT KITS

Designed to attach new concrete structure to existing concrete. Providing watertight joint with limited movements.

| | |
|--|--|
| Type 36RT Kit Includes: 10 ft piece Type 36 2-10 ft stainless steel baton bars w/ SS anchor bolts | |
| Type 18RT Kit Includes: 10 ft piece Type 18 2-10 ft stainless steel baton bars w/ SS anchor bolts | |
| Type 12RT Kit Includes: 10 ft piece Type 12 2-10 ft stainless steel baton bars w/ SS anchor bolts | |
| Type 9RT Kit Includes: 10 ft piece Type 9 2-10 ft stainless steel baton bars w/ SS anchor bolts | |
| Type 29RT Kit Includes: 10 ft piece Type 29 1-10 ft stainless steel baton bar w/ SS anchor bolts | |
| Type 29A-RT Kit Includes: 10 ft piece Type 29A 1-10 ft stainless steel baton bar w/ SS anchor bolts | |

BASEAL® TYPE JOINT SEALS

| | |
|---|---------------------|
| Type 60 For construction joints in slabs and walls. | |
| Type 60A For construction joints in slabs and walls | NEW YORK TYPE E |
| Type 61 Heavy duty for construction joints in slabs and walls. | |
| Type 62 Heavy duty for expansion joints. | |
| Type 66 Base seal for wall and slab construction joints. | |
| Type 70 Base seal for wall and slab construction joints. | |

CRACK INDUCERS

| | | |
|---|-----------------------------|--|
| Type 55CI 6" x 1-5/8" | HEAD OF WATER FT. 100 | |
| Type 325CI 9-27/32" x 2-35/64" | 150 | |
| SPECIAL SHAPES | | |
| Type 16 Bridge deck joint to meet California State Hwy. Dept. specifications. | NA | |
| Type 17 For greater embedment in construction joints or thin walls and slabs. | 50 | |
| Type 27 For construction joints on highways and bridges. | NA | |
| Type 28 For construction joints on highways and bridges. | NA | |

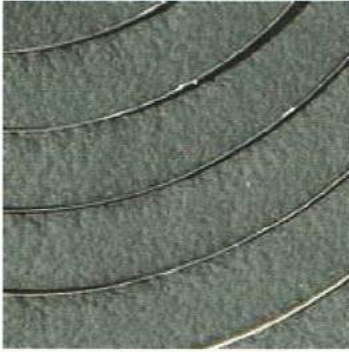
Typical Properties (PVC) (CRD-C-572-74)

| Property | Test Method | Requirement Limits |
|-----------------------------|-------------|--|
| Tensile Strength | ASTM D638 | 2000 psi (13.3 MPa) |
| Ultimate Elongation | ASTM D638 | 350% |
| Specific Gravity | ASTM D792 | 1.38 |
| Stiffness in Flexure | ASTM D747 | 700 psi min. |
| Tear Resistance | ASTM D624 | 300 lbs./in. min. |
| Ozone Resistance | ASTM D1149 | Passed |
| Low Temperature Brittleness | ASTM D746 | No Cracking, Brittleness or Splitting at -35°F/-37°C |
| Hardness Shore A15 | ASTM D2240 | 79+/-3 |
| Water Absorption | ASTM D570 | 0.15% max |
| Accelerated Extraction | CRD-C 572 | |
| Ultimate Elongation | Par 7.1 | 300% min. |
| Tensile Strength | Par 7.1 | 1600 psi min. |
| Effects of Alkalies | CRD-C 572 | |
| Loss Weight | Par 7.2 | 0.10% Max. |
| Gain Weight | Par 7.2 | 0.25% Max. |
| Hardness Change | | +/-5 Points |

Suggested Specification

All waterstop shall be Durajoint® PVC Waterstop as manufactured by Durajoint® Concrete Accessories. It shall be an extrusion of virgin polyvinyl chloride and additional resins, plasticizers and stabilizers which meet or exceed the performance values of the Corps of Engineers specifications. Profile types and dimensions of the waterstops shall be those shown in the project specifications.

Durajoint EXPAND-Tite Hydrophilic Waterstop



Durajoint EXPAND-Tite is a flexible concrete construction joint waterstop that is easy to install in non-moving joints. It is composed of bentonite clay and butyl rubber to withhold its physical integrity after expanding.

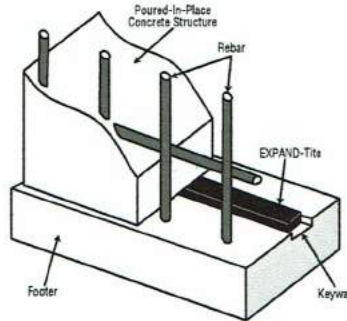
EXPAND-Tite expands in a controlled fashion when exposed to moisture and will not expand beyond a point where the hydration process reduces the effectiveness of the waterstop.

When installing EXPAND-Tite the concrete surface needs to be dry and free of contamination. EXPAND-Tite Primer is also recommended before the placement of the waterstop.



Typical Physical Properties

| Description | Method | EXPAND-Tite |
|---------------------------------------|------------|------------------------------|
| Color | | Black |
| Specific Gravity | ASTM D-71 | 1.35+/-5 |
| Hydrocarbon Content | ASTM D-4 | 47% min. |
| Volatile Matter | ASTM D-6 | 1% max |
| Penetration, cone @77°F, 150gm; 5 sec | ASTM D-217 | 40 +/-5 |
| Application Temp. | | -10° to 125°F (-22° to 52°C) |
| Service Temp. | | -30° to 180°F (-34° to 82°C) |



Available in three sizes:

- Part #EXP100 (Cetco RX101)
3/4" x 1" x 16'8" roll (6 rolls/carton)
- 100 linear ft./carton
- Part #EXP150 (Cetco RX101T)
1/2" x 1-1/4" x 16'8" roll (6 rolls/carton)
- 100 linear ft./carton
- Part #EXP200 (Cetco RX102)
3/8" x 3/4" x 25' roll (8 rolls/carton)
- 200 linear ft./carton

Durajoint SEAL-Tite Non-Hydrophilic Waterstop



Durajoint SEAL-Tite is a flexible concrete construction joint waterstop that is easy to install. SEAL-Tite will not shrink, oxidize, or harden with age and is rugged in temperatures from 30°F to +200°F.

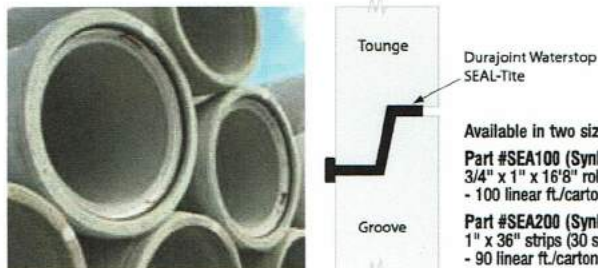
When installing SEAL-Tite the concrete surface needs to be clean, dry and free of contamination.

SEAL-Tite Primer is also recommended when installing on wet concrete, when temperatures are below 40°F, in vertical joints.



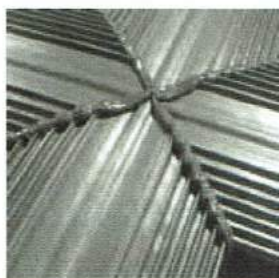
Typical Physical Properties

| Description | Method | SEAL-Tite |
|-------------------------|------------|--------------------|
| Color | | Black |
| Specific Gravity | ASTM D-71 | 1.35-1.40 |
| Penetration, CONE @77°F | ASTM D-217 | 60-70 mm |
| Flash Point. C.O.C., °F | ASTM D92 | 450°F (232°C) min. |
| Fire Point. C.O.C., °F | ASTM D92 | 450°F (232°C) min. |
| Ductility, 77°F | ASTM D113 | >10.0 cm |



Available in two sizes:

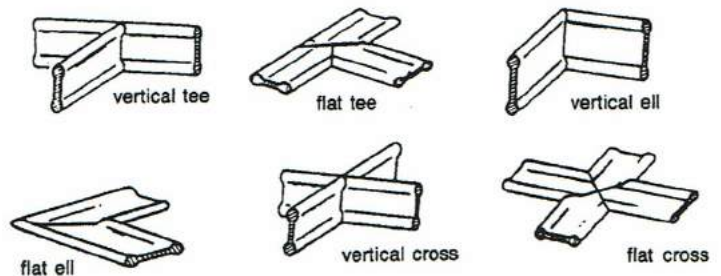
- Part #SEA100 (Synko-Flex SF302)
3/4" x 1" x 16'8" roll (6 rolls/carton)
- 100 linear ft./carton
- Part #SEA200 (Synko-Flex SF312)
1" x 36" strips (30 strips/carton)
- 90 linear ft./carton



Factory Made Splices Available on Request

Factory prefabricated 100% spark tested for quality assurance

- Flat Cross & Vertical Cross
- Vertical Tee & Flat Tee
- Flat Ell & Vertical Ell



For additional waterstop profiles, including custom splices, please contact Durajoint Concrete Accessories @ 888-833-8308.



 **Preco**[®]
Forming Accessories

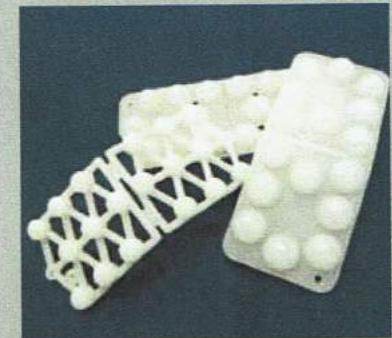
**Popular
Cast-In-Place Products**

| DESCRIPTION | PCS. / CTN. |
|--|----------------------------------|
| Preco[®] Rebar Safety Cap - OSHA #3 - #8 Bar <i>(exclusive patented multi-reuse feature)</i> | 100 |
| Preco[®] Mushroom Caps | 500 |
| Preco[®] Chamfer - PVC 3/4" x 350LF 1" x 170LF <i>(Additional sizes & types available)</i> | 350LF 170LF |
| Preco[®] Slab/Beam Bolsters - Plastic 3/4" x 30" 1" x 30" 1-1/2" x 30" 2" x 30" 2-1/2" x 30" 3" x 30" <i>(Additional sizes available)</i> | 80 80 55 40 40 32 |
| Preco[®] Slab On Grade Chairs (SOG) SOG20 1-1/2" - 2" SOG30 2-1/2" - 3" <i>(Additional sizes available)</i> | 1000 240 |
| Preco[®] Uni-Chairs UNI15 1" - 1-1/2" UNI25 2" - 2-1/2" UNI35 3" - 3-1/2" UNI45 4" - 4-1/2" <i>(Additional sizes available)</i> | 250 250 300 200 |
| Preco[®] High Stack Chairs HIC20 2" HIC30 3" <i>(Additional sizes available)</i> | 250 200 |
| Preco[®] Clips - Rebar & Mesh 1" H-Clip, #4 - #6 1-1/2" K-Clip, #4 - #6 2" M-Clip, #4-#6 2" Barspan Clip, Mesh - #9 <i>(Additional sizes & types available)</i> | 3000 2500 1000 1000 |
| Preco[®] Wheels - Rebar & Mesh 1" W14MN, Mesh - #5 1-1/2" W84MN, Mesh - #3 1-1/2" W1534, #3 - #4 2" W97MN, #4 - #6 <i>(Additional sizes & types available)</i> | 1000 500 500 250 |
| Preco[®] Board Cap - Zip Strip 1/2" x 10LF 1" x 10LF | 500LF 500LF |
| Preco[®] Debonding Sheathing Slit Sheathing Non-Slit Sheathing <i>(2000LF Continuous Reels Available)</i> | 2500LF 1750LF 2000LF |
| Preco[®] T-Strip 1" x 10LF <i>(Additional sizes available)</i> | 500LF |

**Popular
Precast Products**



| DESCRIPTION | PCS. / CTN. |
|--|------------------------------------|
| Durajoint® SEAL-Tite , Non-Hydrophilic Waterstop SEA100 3/4" x 1" x 16'-8" (100LF) ~ Synko-Flex SF30 SEA200 1" x 36" (90LF) ~ Synko-Flex SF312 | 6 rolls 30 strips |
| Durajoint® EXPAND-Tite , Hydrophilic Waterstop EXP100 3/4" x 1" x 16'-8" (100LF) ~ Cetco RX101 EXP150 1/2" x 1-1/4" x 16'-8" (100LF) ~ Cetco RX101T EXP200 3/8" x 3/4" x 25' (200LF) ~ Cetco RX102 | 6 rolls 6 rolls 8 rolls |
| Precos® Chamfer - PVC Starting at 3/4" (see description and photo on proceeding page) | |
| Precos® Slab/Beam Bolsters - Plastic Starting at 3/4" (see description and photo on proceeding page) | |
| Precos® Panel Pads 2-1/2" x 6" x 7/16" (Additional sizes and types available) | 400 |
| Precos® Chain Guard 4 1/4" Wide (Additional sizes available) | 200 |
| Precos® Rebar (EAR) & Mesh (EAM) Chairs EAR15 1- 1/2" EAR20 2" EAM10 1" EAM15 1-1/2" (Additional sizes & types available) | 1000 500 1000 1000 |
| Precos® Shims 3.5" x 1-1/2" x 1/4" x 1/16" (wedge shim) 2" x 2" x 1/2" 3" x 3" x 1/4" 6" x 4" Shim Pack (3 -1/4", 2 - 1/8", 1 - 1/16") Custom Shim Packs (Additional sizes & types available) | 1000 500 500 50 Pallet |
| Precos® High Stack Chairs Starting at 2" (see description and photo on proceeding page) | |
| Precos® Clips - Rebar & Mesh Starting at 1" (see description and photo on proceeding page) | |
| Precos® Wheels - Rebar & Mesh Starting at 1" (see description and photo on proceeding page) | |
| Precos® Debonding Sheathing Slit and Non-Slit Sheathing (see description and photo on proceeding page) | |





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- DI65 Scaffold Board
- Dimensions: 2IN x 10IN x 16FT
- Weight: 64 lbs

Desuta Concrete Forms carries a premium DI-65 Southern Yellow Pine Plank in lengths of 8 and 16 ft. Hand selected and individually graded. Our plank is mill graded and is DI-65 certified and insured. The ends are clipped with a 45-degree cut at all four corners to help prevent end shearing. The ends are rodded with a metal rod that has a brad on each end to secure the rod permanently in place, to help prevent warping, cracking, and splitting. The side of the plank is printed in Large Print OSHA to pass your jobsite inspection.

8' OSHA DI-65 Pine Plank

- DO65 Scaffold Board
- Dimensions: 2in x 10in x 8ft
- Weight: 32 lbs

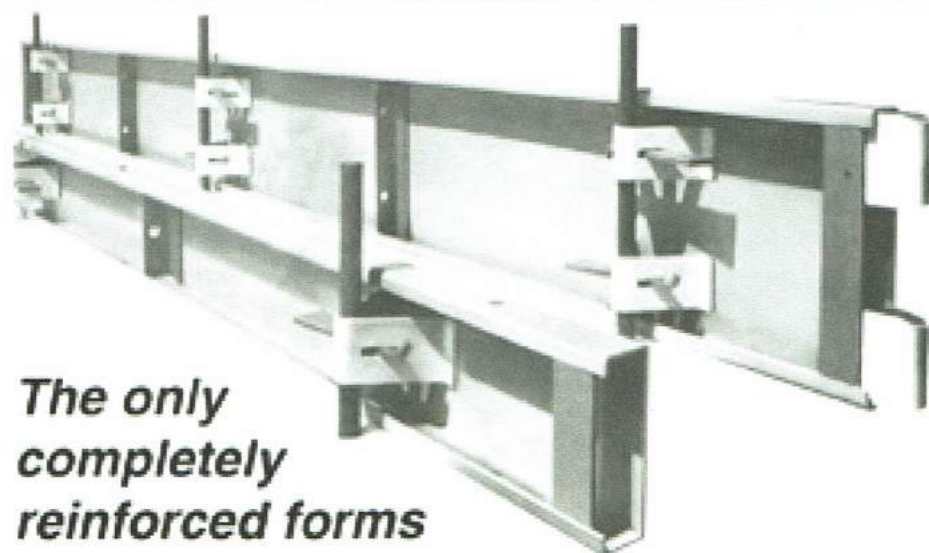


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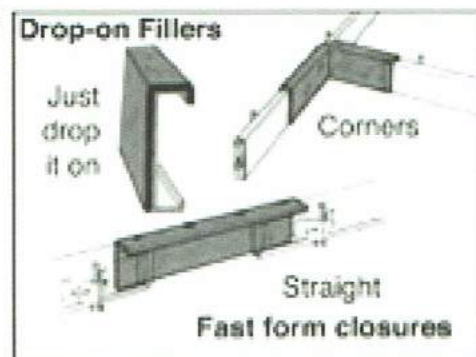
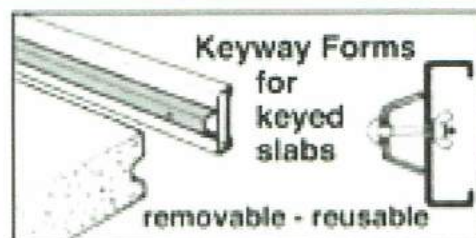
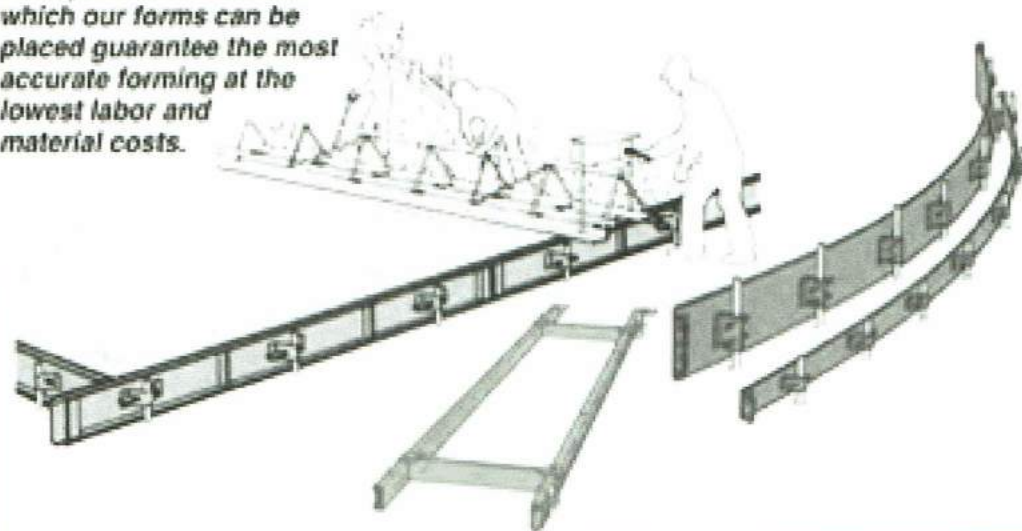
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lowest labor and
material costs.*



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*The most accurate method
of forming curbs & gutters*



STRAIGHT FORMS



battered face



single radius



double radius



drive over



straight



partial batter



full batter

Curb face forms & division plates fabricated to meet any specification



RADIUS FORMS



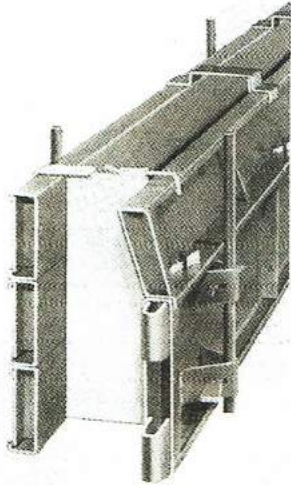
HIGH CURB FORMING – Straight and Radius

for any curb height or profile required

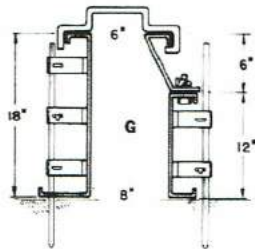
With STRAIGHT FORMS

For Partial Batter Curbs

To start the forming, stake the back form to line, install the division plates, 2 for the first 10', then 1 for subsequent forms, stake the bottom front form, set the curb face form on the bottom form, lock it to the bottom form with the slotted bolts and wedges, latch it to the division plates, install 2 top spreaders. To strip, remove the top spreaders, release the division plate latches, remove the slotted bolts and wedges, remove the face form, remove the stakes and forms.

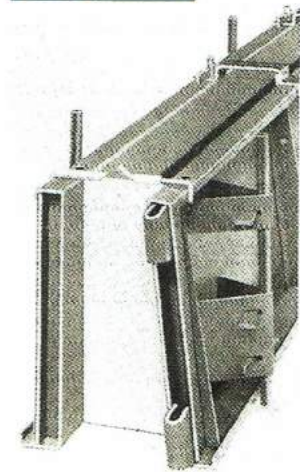


Back face with 6" stacked forms

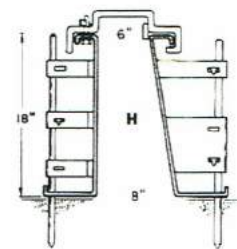


For Full Batter Curbs

To start the forming, stake the back form to line, install the division plates with the clip holes matching the holes in the straight form, 2 for the first 10', then 1 for subsequent forms, lock them to the back form with the slotted bolts and wedges; set the full batter form, latch it to the division plates, hook two top spreaders to the batter form, located so that the holes match the back form, lock the top spreaders to the back form with the slotted bolts and wedges. To strip, reverse the procedure.



Full height forms both sides



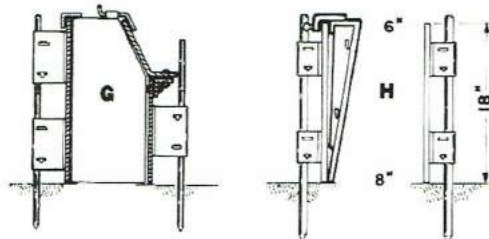
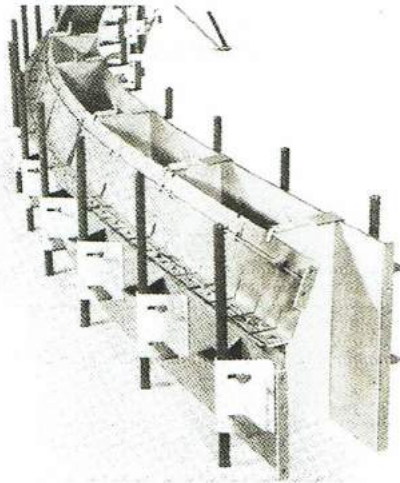
With FLEXIBLE FORMS/7 Stake Pockets

For Partial Batter Curbs

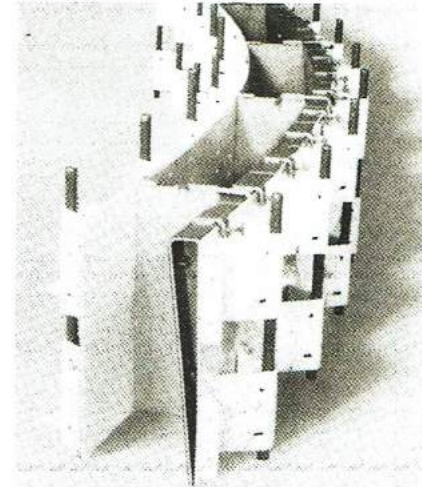
The only System that provides an exact batter on a radius. Minimum Radius 4'6"

To set the flexible forms for the partial batter follow the same procedure as with the straight forms. Use 6 division plates for each 10' length, top spreaders are not required.

To set the flexible forms for the full batter, stake the back form to line, put the small clip of the division plates on this form, 6 are required for each 10' section. Lock the batter face plates to the other form with the thumb screws, slip it under the large clips of the division plates and stake it in place.



For Full Batter Curbs



Full height segmented batter face plates are used.



A 2" flexible rail locks the curb face form to the bottom form.

