Products In, On And Around Concrete

RAW EQUIPMENT BUILDING MATERIALS CORP.
2800 College Point Blvd., Flushing, New York 11354

PHONE: 718 461-2200  FAX: 718 762-3094
WEB: WWW.RAWEQUIPMENT.COM
EMAIL: SALES@RAWEQUIPMENT.COM
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CONCRETE FORMING ACCESSORIES

LIGHT CONSTRUCTION

SNAP-TY ASSEMBLY

SNAP-TY WITH CONE

MEDIUM AND HEAVY CONSTRUCTION

DAYTON SUPERIOR COIL TIE®

The Coil Tie is an extra strong, resistance welded tie designed to take the abuse encountered in medium and heavy concrete construction. An extremely simple tie, capable of many combinations and uses in the field, it may be used with or without Tycones or combined with Continuous Threaded Coil Rod to form an Adjustable Coil Tie.

SHE BOLT ASSEMBLY

Excellent system for architectural concrete or custom forming with primary advantages in gang forming applications. Crimped inner ties, or continuous contour threaded rod insure positive disconnect while tapered outer units can be used many times. Outer units are furnished with contour threads. External wall thickness spacing eliminates cones and washers.

TAPER TIE ASSEMBLY

Available in lengths to 30 inches with contour threads. Any thread length is available on special order.
CONCRETE FORM PANEL ACCESSORIES

LOOP TIES

RESIDENTIAL WALL TIE

BASE TIE

LOOP TIES WITH PLASTIC CONES

FLAT TIES

SAFE LOAD RATINGS–SWL
Safe load ratings for standard and heavy duty ties vary from 2,250 lbs. to 5,000 lbs. dependent upon the safety factor required and the size of the wire.

GANG FORM WALER SET
Consists of Plylag waler rod, steel bracket and hex nut. Used in different lengths to attach 2 x 4 and 2 x 6 walers to form panels, and 2 x 6 strongbacks used in gang sections.

WALER AND STRONGBACK TIES
Waler ties are used to attach lumber walers to the gang after the panels have been erected, using a Z-Tie Holder. Strongbacks are similarly attached using the longer strongback tie.

ONE-PIECE WALER CLAMP
Attaches simply through the wedge bolt slot in form panel side rails to provide wedge action take-up, securing single, double or scab walers in place.

GANG FORM BOLT
Used in conjunction with standard wedge bolts to convert form panel hand set assemblies for gang forming.

Z-TIE HOLDER
Used to attach and clamp double 2 x 4 or 2 x 6 walers to form panels. This method uses waler ties and standard wedge bolts.

BRACE PLATE
Accommodates 2 x 4 wood brace and is easily connected to formwork with the standard wedge bolt.
CONCRETE FORM PANELS

JOB BUILT FORMING SYSTEM

- Quality controlled manufacturing
- Two edge side for tight joints
- Tie slots 12” O.C.
- Wedge bolt slots 6” O.C.
- Minimal deflection with 2” x 1⅜” x ¾” cross members
- 60,000 P.S.I. yield strength on cross members
- 55,000 P.S.I. yield strength steel
- “Handles” for fast, easy handling
- ⅝” 9 H.D.O. long lasting plywood
- Reinforced corners with flat bar strap ⅝” x ⅜”
- Fast hardware connections
- Interchangeable with other systems
- Suitable for gang forming
- Full line of filler panels
- Inside corners
- Outside corners
- Filler angles
- Scaffold brackets
- Waler clamps
- Strong back clamps
- Wedge bolts
- Long bolts
- Priced right

SALES & RENTAL
# Steel Dog Form Hardware & Accessories

## Transition Ties™

### STANDARD TIE END TO 1/2" COIL ROD COMBINATION TIES

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Tie Type</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-6</td>
<td>Aluma-Coil™ Tie</td>
<td>3700</td>
<td>6&quot;</td>
</tr>
<tr>
<td>RC-4</td>
<td>Resi-Coil™ Tie</td>
<td>2500</td>
<td>4&quot;</td>
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<tr>
<td>RC-6</td>
<td>Resi-Coil™ Tie</td>
<td>2500</td>
<td>6&quot;</td>
</tr>
<tr>
<td>LC-4</td>
<td>Loop-Coil™ Tie</td>
<td>2800</td>
<td>4&quot;</td>
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<tr>
<td>LC-6</td>
<td>Loop-Coil™ Tie</td>
<td>2800</td>
<td>6&quot;</td>
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<tr>
<td>LC-7-2</td>
<td>Loop-Coil™ Tie</td>
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<td>7&quot;</td>
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<tr>
<td>Pre-Bent</td>
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<tr>
<td>Type A</td>
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<tr>
<td>Type B</td>
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### JOB-BUILT PLYWOOD

<table>
<thead>
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<tr>
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<td>2250</td>
<td>4 3/4&quot;</td>
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<tr>
<td>SC-64</td>
<td>Snap-Coil™ Tie</td>
<td>2250</td>
<td>6 1/4&quot;</td>
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<tr>
<td>SC-68</td>
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<td>2250</td>
<td>6 3/4&quot;</td>
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<tr>
<td>SC-48</td>
<td>Snap-Coil™ Tie</td>
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<td>4 1/4&quot;</td>
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### CAM-LOCK or SURE-LOCK

<table>
<thead>
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<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC-4</td>
<td>Loop-Coil™ Tie</td>
<td>2250</td>
<td>4&quot;</td>
</tr>
<tr>
<td>GC-6</td>
<td>Loop-Coil™ Tie</td>
<td>2250</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

### Rebar Hook

**Universal Connector for Coil Rod to Rebar**

Rebar Hooks quickly attach coil rod anywhere along the length of #6 (RH-6) or #8 (RH-8) rebar. For Stay-Form™ blind side walls, long tie substitutes on mass pours, and other uses.

1. Push onto rebar
2. Twist hook
3. Tighten coil rod

### Coil-Lag™

**Versatile Lag Bolt for Wood Lagging**

3/4" hex head lag bolt with swivel coil loop tie for temporary attachment of formwork to timber structures, such as soldier piles with wood lagging.

### Coil-Stud™

**Weld Stud Takes Only Seconds to Weld**

3/4" weld stud with swivel coil loop tie. Welds in seconds with standard arc stud welding gun to shear piling, soldier piles, or other structural steel.
BAR SUPPORTS FOR CONCRETE CONSTRUCTION

1. SLAB BOLSTERS - SB
   Used for support of bottom slab reinforcement. Top wire 4 gauge with corrugations 1" o.c. to insure positive spacing and tying. Legs 5" o.c. height 1/4" increments (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths.

2. SLAB BOLSTERS W/RUNNERS - SBR
   Used to support top layers of steel using the bottom layer of steel as a support base. Particularly efficient for use on slabs on grade where lower layer of steel is supported on wire chairs with plate or on concrete block. Wire and leg spacing same as Slab Bolster with addition of 7 ga. runner wire welded continuously to each leg (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths.

3. SLAB BOLSTERS W/PLATE - SBP
   Used to support bottom steel off sand or fill. Heavy gauge plate shop welded to the bottom of the legs of a Slab Bolster (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths.

4. BEAM BOLSTERS - BB
   Used to support the bottom bars in beams and girders. Usually placed perpendicular or across main reinforcing. Cut in the field from 5'-0" lengths to required length.

5. UPPER BEAM BOLSTERS - UBB
   Used to support a second or third layer of steel in a beam. Runners welded to legs bear on lower level of steel. Leg spacing same as Beam Bolster. Runners - 7 ga. wire for heights up to and including 2" - over 2" to 5" - 4 ga. wire runners welded continuously to the bottom of the leg. (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths, cut to required lengths in field.

6. BEAM BOLSTERS W/PLATE - BBP
   Used to support heavy bottom steel off sand or fill. Steel plate shop welded to the bottom of the wire legs of a Beam Bolster (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths.

7. INDIVIDUAL HIGH CHAIR - HC
   Used to support the top steel in slabs—in some cases directly, but in most cases a support, head rod, or carrier rod is used in conjunction with the High Chairs spaced maximum 4'-0" o.c. Closer spacing required where carrier bar or reinforcing steel is supported is #4 or less. Available in heights from 2" to 24". Wire gauges vary from 4 ga. to 0 ga. depending upon height—all chairs exceeding 1/2" in height are braced for extra strength.

8. INDIVIDUAL HIGH CHAIR W/PLATE - HCP
   Steel plates are welded to the bottom of the legs of Individual High Chairs to provide bearing on sand or fill. Available in same heights as H.C.

9. SPECIAL HIGH CHAIR - SHC
   Additional ring is welded around the legs of a High Chair at a specified distance for additional strength or when used on fill for better leg bearing. Can also be used to support steel off the lower mat.

10. CONTINUOUS HIGH CHAIR - CHC
    Used to support top reinforcing steel in slabs. Saves labor by the elimination of the set up time for the carrier or head rod. Material is packed for easy handling on job site. (spaced 4'-0" o.c. max.) Top wire 2 gauge, legs - 4 ga. for heights from 2" to 5", 2 ga. over 5" to 9", and 0 ga. for over 9". Legs 8" o.c. Stocked in 5'-0" lengths.

11. UPPER CONTINUOUS HIGH CHAIR - UCHC
    Used to support top layers of steel using the bottom layer of steel as a support base. Particularly efficient for use on slabs on grade where bottom layer of steel is supported on wire chairs with plate or on concrete blocks. Leg spacing same as CHC with addition of 4 gauge runner welded continuously to each leg. Stocked in 5'-0" lengths.

12. CONTINUOUS HIGH CHAIR W/PLATE - CHCP
    Used to support top steel off sand or fill. Steel plates welded along the legs of the CHC. Sizes same as CHC. (spaced 4'-0" o.c. max.) Stocked in 5'-0" lengths.

13. JOIST CHAIRS - JC
    Used to support two bottom bars in the ribs of Joist or Waffle type slabs. (spaced 4'-0" o.c. max.) Stocked in 3/4", 1" and 1-1/2" heights.

14. BAR CHAIRS - BC
    Used to support one bar or mesh on Waffle slabs. Stocked in 3/4", 1" and 1-1/2" heights.
## CONCRETE REINFORCEMENT

### WELDED WIRE REINFORCEMENT FABRIC
Standard width rolls 5’ x 150’. Other sizes available on request. Some sizes available in sheets. Some sizes available in galvanized before fabrication. Both sheets and rolls meet ASTM A-185 specifications.

### BUILDING FABRIC

<table>
<thead>
<tr>
<th>SPACING</th>
<th>STEEL &amp; WIRE GAUGE</th>
<th>W-NUMBER WIRE SIZE</th>
<th>WEIGHT CSF</th>
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<tr>
<td>6 x 6</td>
<td>10/10</td>
<td>W1.4/W1.4</td>
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<tr>
<td>6 x 6</td>
<td>8/8</td>
<td>W2.1/W2.1</td>
<td>30</td>
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<tr>
<td>6 x 6</td>
<td>6/6</td>
<td>W2.9/W2.9</td>
<td>42</td>
</tr>
<tr>
<td>6 x 6</td>
<td>5/5</td>
<td>W3.4/W3.4</td>
<td>49</td>
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<tr>
<td>6 x 6</td>
<td>4/4</td>
<td>W4/W4</td>
<td>58</td>
</tr>
<tr>
<td>6 x 6</td>
<td>3/3</td>
<td>W4.7/W4.7</td>
<td>68</td>
</tr>
<tr>
<td>6 x 6</td>
<td>2/2</td>
<td>W5.4/W5.4</td>
<td>78</td>
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<tr>
<td>6 x 6</td>
<td>1/1</td>
<td>W6.3/W6.3</td>
<td>91</td>
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<tr>
<td>6 x 6</td>
<td>0/0</td>
<td>W7.4/W7.4</td>
<td>107</td>
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<tr>
<td>6 x 12</td>
<td>0/3</td>
<td>W7.4/W4.7</td>
<td>_</td>
</tr>
<tr>
<td>4 x 8</td>
<td>12/14</td>
<td>W0.9/W0.5</td>
<td>12</td>
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<tr>
<td>4 x 4</td>
<td>14/14</td>
<td>W0.5/W0.5</td>
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</tr>
<tr>
<td>4 x 4</td>
<td>12/12</td>
<td>W0.9/W0.9</td>
<td>19</td>
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<tr>
<td>4 x 4</td>
<td>10/10</td>
<td>W1.4/W1.4</td>
<td>31</td>
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<tr>
<td>4 x 4</td>
<td>8/8</td>
<td>W2.1/W2.1</td>
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<td>3 x 3</td>
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<td>W0.9/W0.9</td>
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<td>2 x 2</td>
<td>10/10</td>
<td>W1.4/W1.4</td>
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### ASTM STANDARD REINFORCING BARS

<table>
<thead>
<tr>
<th>BAR SIZE</th>
<th>AREA (Nominal)</th>
<th>WEIGHT POUNDS PER FT</th>
<th>DIAMETER (Nominal)</th>
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<tbody>
<tr>
<td>#3</td>
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<td>0.376</td>
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<td>#4</td>
<td>0.20</td>
<td>0.668</td>
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<tr>
<td>#5</td>
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<td>0.625</td>
</tr>
<tr>
<td>#6</td>
<td>0.44</td>
<td>1.502</td>
<td>0.750</td>
</tr>
<tr>
<td>#7</td>
<td>0.60</td>
<td>2.044</td>
<td>0.875</td>
</tr>
<tr>
<td>#8</td>
<td>0.79</td>
<td>2.670</td>
<td>1.000</td>
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<tr>
<td>#9</td>
<td>1.00</td>
<td>3.400</td>
<td>1.128</td>
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<td>#10</td>
<td>1.27</td>
<td>4.303</td>
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<td>#11</td>
<td>1.56</td>
<td>5.313</td>
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<td>#14</td>
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<tr>
<td>#18</td>
<td>4.00</td>
<td>13.600</td>
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</tbody>
</table>

1. ASTM A615 grade 40 is limited to sizes #3 through #6.
2. ASTM A615 grade 60 available in sizes #3 through #18

### STOCK LENGTHS

RAW maintains a large inventory of Reinforcing Steel produced by domestic mills in 20 foot lengths in grade 60. All bars are produced to ASTM standards and can be furnished with mill spec reports, and certification. Call for pricing. 20 foot bars available in warehouse for customer pick-up.
Dandy Curb Bag

Dandy Curb Sack

Dandy Dewatering Bag

Dandy Bag

Dandy Sack

Dandy Curb
ENVIRO-SYSTEMS & ONE TON BAGS

CONCRETE WASHOUT BAGS

One Ton Washout Bag
SIZE: 40” w x 40” l x 24”t
CAPACITY: 18 Cubic Feet or 130 Gallons

Large Ready Mix Bag 42” x 42” x 43”
Ready Mix Chute Bag 20” x 20” x 19”

DEBRIS AND MATERIAL BAGS

One Ton Bags
SIZE: 40”w x 40”l x 48”h
CAPACITY: 1.65 Cubic Yard, 3,300 lbs.

Reinforced poly bags 18” x 30”
Burlap bags 17”x 27”

Lined Concrete Pump Bag 46” x 72” x 16”
Sonoco Construction Forms
Add Value and
Save Time
In Your Next
Construction Project

Sonotube® Concrete Forms for round concrete columns
Sonovoid® Concrete Tubes for concrete voids

Sonoco Construction Forms
• rain resistant
• lightweight
• variety of diameters
• variety of lengths
• can be cut on job

If it doesn’t say SONOTUBE®, it isn’t a SONOTUBE® Concrete Form!!!
CONCRETE PLACEMENT MATERIALS

POLYETHYLENE HOPPERS

STEEL CLAMPS
Fits both 8" and 12" steel collars and hoppers.

SIZES AVAILABLE
37" Square
8" Discharge
12" Discharge
14" x 27"
6" Discharge

STEEL COLLARS
SIZES:
9" to 8"
13" to 12"

ELEPHANT TRUNK
6" - 8" - 12" Diameters

GEORGIA BUGGIES

TREMIE PIPE
SIZES AVAILABLE
4 ft. Lengths
9" to 8" Diameter
13" to 12" Diameter

ALUMINUM CONCRETE CHUTE
**EXTRUDED POLYSTYRENE INSULATION**

While polymer is hydrophobic, typical “Beadboard” has a closed-cell structure within each individual bead, but voids between beads. It can be highly sensitive to water in all forms; vapor, liquid, and ice. Relatively good thermal resistance, moderate compressive and handling strength.

**MOLDED POLYSTYRENE INSULATION**

R-value of 5 per inch of thickness to help reduce energy costs and increase occupant comfort.

**MASONRY CAVITY WALLS**

**WALL FURRING**

**PERIMETER/FOUNDATION/UNDERSLAB**

**FOUNDATION**

**UNDERSLAB**

Insulation cells substantially magnified.
## Quick Reference Chart

<table>
<thead>
<tr>
<th>Expansion Joints</th>
<th>Description</th>
<th>Use</th>
<th>Specifications</th>
<th>Density/Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fibre</strong></td>
<td>Asphalt impregnated cellulose fiber</td>
<td>General, multi-purpose expansion joint filler for concrete sidewalks, driveways, highways, airport runways, etc.</td>
<td>ASTM D 1751-83, AASHTO M 213-74, FED. SPEC. HH-F-341F TYPE 1, CRD C 508-72, FAA SPEC. P610-2.7</td>
<td>25 LB/CUF. Lengths: 5', 10' and 12'</td>
</tr>
</tbody>
</table>
| **CeramAR**      | Synthetic foam of isomeric polymers. Closed-cell, gray color, flexible and highly resilient. Will absorb almost no water. | Excellent joint filler for use in horizontal or vertical applications. Compatible with all popular cold-applied sealants, caulks and hot-pour joint sealing compounds. Compresses easily for use with shrinkage-compensating concrete. | ASTM D 1752, Sections 5.1 through 5.4 with compression requirement modified to 10 psi minimum and 25 psi maximum. | Length: 10' Thickness: 1/4" to 1"
| **Gray Sponge Rubber** | Gray colored high quality blown sponge rubber | Used where complete resilience is essential, and gray color is specified. | ASTM D 1752-67 TYPE I, AASHTO M 153-70 TYPE I, FED. SPEC. HH-F-341F TYPE II, CLASS A, CRD C 509-70 TYPE I, FAA SPEC. P610-2.7 | 40 LB/CUF. Length: 10' Thickness: 1/8", 1/4", 1/2", 1/4", 1"
| **Cork**         | Granulated cork bonded together under heat and pressure with phenolic resin | Extensively used in sewage plants, floodwalls, filtration plants, and in bridge constructions. | ASTM D 1752-67, TYPE II, AASHTO M 153-70 TYPE II, FED. SPEC. HH-F-341F TYPE II, CLASS B, CRD C 509 TYPE II, FAA SPEC. P610-2.7 | 16 LB/CUF. Length: 10' Thickness: 1/4", 1/2", 1/2", 1/2", 1"
| **Self-Expanding Cork** | Similar in composition to standard cork, but is specially treated to enable it to expand 50% beyond original thickness | Used where it is essential to keep joints filled at all times. Water & sewage plants, dams, and tunnels. | ASTM D 1752 TYPE III, AASHTO M 153 TYPE III, FED. SPEC. HH-F-341F TYPE III, CLASS C, CRD C 509 TYPE III, FAA SPEC. P610-2.7 | 24 LB/CUF. Length: 10' Thickness: 1/8", 1/4", 1/2", 1/2", 1"
| **Strip-Joint**  | Cellular cross linked polyethylene foam with strip-off cap | Used for swimming pools, water & sewage treatment plants, and power plants. | ASTM D 624 DIE C, ASTM D 1056, ASTM D 1364, ASTM D 1667, ASTM D 2240 | 2.0 LB/CUF. Length: 100', 75', 50', 8' Thickness: 1/8", 3/8", 1/2", 1/2", 1"
| **FF-5**         | Closed cell neoprene sponge rubber | Used where complete resilience is essential, and the color is not specified. | ASTM D 1752-67 TYPE I, AASHTO M 153-54 TYPE I, FED. SPEC. HH-F-341F TYPE II, CLASS A | 35 LB/CUF. Slab 54" x 36" Thickness: 1/8" to 2"
| **Cross Linked Polyethylene** | Cellular cross linked polyethylene foam | Used for seismic separation joints in nuclear plants, and other critical construction applications. | ASTM D 3575 | 2.2 LB/CUF. Slab 48" x 48" Thickness: 1/8" to 3"
| **Sonoflex F**  | Expanded closed cell polyethylene foam | Filler strip for expansion joints in concrete highways, airport runways, streets, driveways, sidewalks, curbs, and gutters. Substitute for cane-fiber. | ASTM D 3575 | Length: 10' to 240' roll Thickness: 1/8" to 1"
| **Closed Cell Neoprene** | Neoprene sponge is a pre-formed compressible expansion joint filler and gasket | Used where oil, chemical, and high temperature resistance is required. | ASTM D 1056-68, 78 SCE 41-45, RE 41-45 | 7.20 LB/CUF. Slab: 42" x 72" Thickness: 1/8" to 2"
Thermocure II Curing Box

Econ-o-Cure Bag
The Econ-o-Cure is a tool to help field technicians meet ASTM C31 when testing concrete. Section 10.1.2 Initial Curing states "specimens shall be stored for a period up to 48 hours in a temperature range from 60 to 80 degrees F and in an environment preventing moisture loss from the specimens." Capacity - Holds up to 8 - 6" dia x 12" molds or 16 - 4" dia. x 8" molds. Sturdy, Portable and Lightweight. Easily folded for transportation and storage. Versatile - The sturdy box floor has a handle cut in and easily removes for use as a slump test platform. Proven - When used in conjunction with a heater, consistently meets standards even at extreme temperature.
WACKER NEUSON, VIBRASTRIKE & BARTELL

VIBRATORS/PUMPS/TROWELS

4 STROKE HAMMERS

SINGLE DIRECTION VIBRATORY PLATES

INTERNAL VIBRATORS

SUBMERSIBLE PUMPS

SELF-PRIMING TRASH PUMPS

BARTELL WALK BEHIND TROWELS

VIBRASTRIKE II
**SCREED KEYS, CAPS & ACCESSORIES**

**SCREED KEY**

**VINYL KEYWAY**

**BUTT SPLICE**

Butted joints aligned by single stake in end holes provided

**SCREED CAP**

Single-piece Zipcap

**STEEL STAKES**

**ZIPCAP-CONTROL JOINT**

Single-piece Zipcap

**TRAPEZOID REVEAL STRIP**

A semi-rigid reusable plastic strip which is nailable and yet rigid enough to form straight, neat rustication joint. Conceals plywood joints, or use to striate concrete surfaces. Standard lengths of 10’.

**CHAMFER STRIP**

A semi-rigid plastic strip which is nailable and reusable. It is used to chamfer the edges of concrete columns and beams, or provide “V” grooves on flat concrete surfaces. Standard lengths 10’.

**EXPANSION JOINT CAP**

**DOVETAIL ANCHOR SLOT & ANCHORS**
LASER LEVELS

TRIMBLE LASER LEVELS

Model LL100N
Affordable Construction Laser
Features & Benefits
- Complete system in one case - includes LL100N laser, HR320 receiver, C59 receiver clamp, tripod, and choice of grade rod - allowing convenient storage for transportation
- Fully automatic self-leveling rotating laser provides fast and accurate setup
- One-person elevation control up to a 1,100 ft. diameter area for increased productivity

Model LL300N
Longer range Construction Laser
Features & Benefits
- More rugged, more accurate & longer range than the LL100N
- 1,650 ft. operating diameter
- Includes HL450 Laserrometer Receiver
- Built & Warranted to withstand a 5 ft. "Knock over"

Model LL300S
Medium Range Construction Laser
Features & Benefits
- Available in a system case with receiver, tripod and choice of grade rod
- Fully automatic self-leveling provides fast and accurate setup
- Optional RC402N remote control allows easy grade matching using the remote control from rod position
- 2,800 ft. operating diameter
- Built to withstand severe drops of up to 3 ft. onto concrete
- Comes with your choice of HL450 or HL750 receivers

Model LL500
Highly Accurate Construction Laser
Features & Benefits
- 1,600 ft. working diameter which increases productivity by reducing the need for multiple set ups on a large job site
- Self-leveling with built-in 'out-of-level' shut off that maintains accuracy over the entire work area, and minimizes errors
- High accuracy laser 1/10 in per 100 ft. with temperature compensation provides highly stable, repeatable accuracy even under large temperature changes

Model HV302
General Purpose Construction Laser
Features & Benefits
- The housing is rugged, lightweight and IP66 weatherproof making it easy for the contractor to carry and use in demanding job site conditions
- Fully automatic self-leveling in both horizontal and vertical for fast, accurate setups
- Single-axis manual slope mode with 'cross-axis' self-leveling allows grade matching for basic slope work, while maintaining accuracy in the cross-axis
- Highly visible 3A/3R beams and superior scanning functions making it easier for interior layout and aligning over longer range job sites (visible diameter of 320 ft)
- Automatic Grade Match and PlaneLok using the RC402N and HL760U

Model AL24M
Easy-to-use 24X optical auto level
Features & Benefits
- Double-sided, continuous horizontal tangent drives
- Stadia lines for simple distance measurement
- Convenient horizontal angle measurement
- Built-in bubble mirror and sighting guide
- Metal housing for increased durability

Tripods & Grade Rods

- no. 2161 'Aluminum' Tripod
- no. GR152 15" Aluminum' Rod
- 10' & 15' 'Lenker Rods'

SPECTRA PRECISION
ADA SOLUTIONS TILES
All of our truncated dome tactile surfaces are in full compliance with the American Disabilities Act Accessibility Guidelines (ADAAG), Public Right-of-Way (PROW) and California Title 24 Requirements. ADA Solutions Inc., products are approved for use by all major municipalities, DPWs and state DOTs.

TRANSPO® INDUSTRIES, INC.
Step-Safe® is a pre-cast polymer concrete tile that is designed to alert visually impaired pedestrians of impending hazards in pedestrian travel routes in public buildings and/or public rights-of-way. Step-Safe® complies with the minimum requirements as established by the Access Board and those of the US Department of Justice and the US Department of Transportation as defined in the American with Disabilities Act.
**PETROTAC®**

**PETROMAT®**
The durable and waterproof fabric system that retards pavement cracking and extends service life.

**PRO-GUARD®**
The heavy-duty paving repair membrane, engineered to improve pavement performance and extend service life.
SOIL REINFORCEMENT FABRICS
Provide separation and confinement to dissimilar soils; add modulus and tensile reinforcement to weak soil/aggregate systems.

SUBSURFACE DRAINAGE FABRICS
Provide filtration and high porosity for trench, French, and blanket drains.

SEDIMENT CONTROL SYSTEM
Provides silt retention to keep sediment on the job site, outlasts hay bales or burlap, and is available as a ready-to-install system.

ARMORED EROSION CONTROL FABRICS
Placed under riprap and gabions to prevent erosion of underlying soils.

EROSION CONTROL AND REVEGETATION MAT
A flexible, three dimensional mat that provides ground armor to resist erosion while allowing vegetation to establish.

ASPHALT OVERLAY FABRIC
Forms a tough, waterproof membrane between existing pavement and new asphalt overlay that strengthens the pavement and reduces reflective cracking.

RAILROAD FABRICS
Fabric is installed between ballast and subgrade to reinforce the railbed and drain excess soil moisture.

HIGH PERFORMANCE STABILIZATION FABRICS
Provide an extremely high level of tear strength and puncture resistance for tough soil-reinforcement conditions; well-suited for land reclamation and storage pond capping.

LANDSCAPE FABRIC
Provides vegetation control while allowing free passage of air and soil moisture.
TRANSVERSE CONTRACTION AND EXPANSION JOINTS
are made to meet the most rigid requirements of State,
Federal, and private specifications. For use in highways,
industrial concrete pavement, joints, and airport runways.

BAR-LOCK MBT COUPLERS

TRANSITION COUPLER

STANDARD COUPLER

SPEED DOWEL®

SPLICER

DOWEL-IN

DOWEL BAR
SPLICER SYSTEM

CONTRACTION (sawed joint)

EXPANSION (formed joint)

COMPLETED SPLICE
SAFETY NETS & FALL PROTECTION

STRONG MAN NETTING

Privacy Screen (Black/Green) 6’x150’, 8’x150’
Vertical Debris (Orange) 4’x150’, 5’-6” x 150’, 8’-6” x 150’
Polyethylene Knitted Mesh (Black) 4’x150’, 8’-6” x 150’

STRONG MAN PERSONNEL SAFETY NETS

ULTRA-SAFE & FALL-TECH PROTECTION

Harnesses and Lanyards
MOISTOP, PROTECTIVE & CONCRETE CURING MATERIALS

CLOSED CELL BLANKETS
Flexible curing blankets utilizing 3-5 layers of closed-cell polypropylene wrapped in a tough, waterproof covering. Lightweight and easy to handle, these blankets are superior thermal insulators with outstanding physical and chemical resistant characteristics. Available in 6’ x 25’ size.

BURLAP
Used for water curing concrete, assures uniform dispersion and allows periodic lapses in the application of water. Also used to roughen fresh concrete surfaces by wet dragging. 7½ ounce weight stocked in widths of 26, 32, 48 and 60 inches. 10 ounce weight available in widths of 24, 40, 48 and 60 inches. Rolls are approximately 100 feet long.

BURLENE
Laminated curing blanket of 10 ounce burlap and .004 inch white opaque polyethylene provides strength, water distribution, moisture retention, and reflective features. Stocked in widths of 10, 15 and 20 feet. Rolls are 100 feet long.

REINFORCED POLYETHYLENE FILM
A lamination of two poly films reinforced with fiber cords laid multi-directional. Material is lightweight, translucent and flexible even in the coldest temperatures. Available in clear or black in rolls 10 to 40 feet wide by 100 feet long.

POLYETHYLENE FILM
Lightweight and economical, retains its flexibility even in the coldest weather. Available in 4, 6, or 8 mil thicknesses and widths up to 40 feet wide in rolls 100 feet long.

MOISTOP

Moistop Ultra® represents a new standard for concrete underslab products. With water vapor permeance; tensile strength and puncture resistance that outperforms even thicker membranes, Moistop Ultra® exceeds ASTM E-1745-97 Class “A”, “B” and “C” requirements for underslab vapor retarders. Manufactured from ISO certified virgin resins through a unique process, Moistop Ultra® is extremely durable and puncture resistant.

Moistop Ultra® 15
Water vapor permeance of .01 perms.
Moistop Ultra® 10
Water vapor permeance of .02 perms.
POLYDRAIN® PRESLOPE AREA DRAIN SYSTEM

COMPONENT PARTS – BASIC PRESLOPE CHANNELS – ½ METER AND 1 METER LONG

Each segment represents a 1 meter length of PolyDrain channel.

Part No.   Vertical Outlet Locations

TRASH BASKETS

CATCH BASINS

HARDNOSE™

Connected sloping channels, each channel nom. 1 meter (39.19”) in. length

Part No. Vertical Outlet Locations

100 mm (4”) or 150 mm (6”) vertical outlet.

Non-sloping Channel locations – All have 100 mm (4”) and 150 mm (6”) vertical outlet.

Minimum overall depth (No. 010) 128 mm or 5.1”
Maximum overall depth (No. 300) 309 mm or 12.2”
Inside top width (all channels) 100 mm or 4.0”
Maximum cross section flow areas 25, 400 mm” or 39.9 sq. in.
Length of slope system 30 mm or 98.1 feet
Channel bottom thickness 20 mm or 1.0” (nom.)
PolyDrain systems can be extended to greater lengths by Insertion of any number of non-slope channels (No. 021, 091, 095, 096, 191, and 291) at the appropriate locations, or by the addition of PolyWall sidewall extensions

TCHELL DATA

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8694_Catalog_Layout 1  11/20/17  9:12 AM  Page 26
WR MEADOWS

DRAINAGE APPLICATION CHART FOR VERTICAL AND HORIZONTAL USE

A. Backfilled Walls
MEL-ROL .................. MEL-DRAIN 5012/5035
MEL-ROL LM ............... MEL-DRAIN 5012/5035-B
HYDRAlastic 836 .......... MEL-DRAIN 5012/5035-B

B. Blindside Walls
HYDRAlastic 836 .......... MEL-DRAIN 5035
PRECON .................. MEL-DRAIN 5035

Plaza Decks
PRECON .................. MEL-DRAIN 9055
MEL-ROL .................. MEL-DRAIN 9055
HRM 714 .................. MEL-DRAIN 9055-B
HYDRAlastic 836 .......... MEL-DRAIN 9055-B

Split Slab
PRECON .................. MEL-DRAIN 9055
MEL-ROL .................. MEL-DRAIN 9055
HRM 714 .................. MEL-DRAIN 9055-B
HYDRAlastic 836 .......... MEL-DRAIN 9055-B

Planters
HYDRAlastic 836 .......... MEL-DRAIN 9055-B

Under Slabs
PRECON .................. MEL-DRAIN 5035
GREENSTREAK® P.V.C. & HYDROPHILIC WATERSTOPS

TYPES OF WATERSTOPS

WATERSTOPS FOR NON-WORKING JOINTS

RIBBED FLAT WATERSTOP
Construction or contraction joints where little or no movement is expected. Ribbed shapes provide a better seal than dumbbell shapes.

DUMBBELL WATERSTOP
Construction or contraction joints where little or no movement is expected.

BASE SEAL WATERSTOP
Ideal for slab-on-grade joints or walls which will be back-filled. Easy to form.

LABYRINTH WATERSTOP
Primarily used in vertical joints where little or no differential movement is expected. Does not require split forming and adds a key to the joint. Difficult to use in horizontal joints.

SPLIT WATERSTOP
Available in ribbed with centerbulb and dumbbell shapes. Eliminates the need for split form bulkhead.

WATERSTOPS FOR WORKING JOINTS

RIBBED WITH CENTERBULB WATERSTOP
The most versatile type of waterstop available. The centerbulb accommodates lateral, transverse and shear movement. Larger centerbulbs accommodate larger movements.

DUMBBELL WITH CENTERBULB WATERSTOP
Accommodates lateral, transverse and shear movements. Ribbed shapes provide better sealing characteristics.

TEAR WEB WATERSTOP
Accommodates large movements. Upon joint movement the tear web ruptures allowing the U-bulb to deform without putting the material in tension.

GREENSTREAK® PVC WATERSTOP PHYSICAL PROPERTIES

<table>
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<th>PROPERTY</th>
<th>TEST ASTM</th>
<th>NOMINAL VALUE</th>
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<tr>
<td>Water absorption</td>
<td>D 570</td>
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<tr>
<td>Tear resistance</td>
<td>D 624</td>
<td>350/lb. in.</td>
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<td>Ultimate elongation</td>
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<td>Tensile strength</td>
<td>D 638</td>
<td>2250 psi min.</td>
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<td>Low temperature brittleness</td>
<td>D 746</td>
<td>Passed @ -35°F / -37°C</td>
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<td>Stiffness in flexure</td>
<td>D 747</td>
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<td>Ozone resistance</td>
<td>D 1149</td>
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<td>Volatile loss</td>
<td>D 1203</td>
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<td>Hardness Shore A15</td>
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<td>Accelerated extraction</td>
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<td>• Tensile strength</td>
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<td>Effect of Alkali</td>
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GREENSTREAK® Waterstop is manufactured in widths from 4” to 12” and in thicknesses from ⅛” to ⅜”.

Over 110 different sizes and profiles are available to meet the most demanding requirements.

HYDROPHILIC WATERSTOPS

Waterstops for joints in concrete.
STEEL REINFORCEMENT PRIMERS
BONDING AGENTS
REPAIR MORTARS
   – Hand Applied
   – Formed
   – Machine Applied
PROTECTIVE LEVELING
MORTARS/SURFACE FILLERS
PROTECTIVE IMPREGNATIONS AND COATINGS
JOINT SEALING AND ADHESIVE SYSTEMS
   – Building Sealants
CONTROL JOINT SYSTEMS
RUNWAY / ROADWAY / DOT SEALANTS
HIGH PERFORMANCE JOINT SYSTEM
PICK-PROOF AND TAMPER-RESISTANT SEALANTS
MULTI-PURPOSE ADHESIVE SEALANTS
SEALANT PRIMERS
EPOXY RESIN & STRUCTURAL ENGINEERING SYSTEMS
CRACK REPAIR AND INJECTION RESINS
MULTI-PURPOSE STRUCTURAL ADHESIVES
COATINGS AND FLOORING
GROUTING QUICKSET MORTARS
   – Grouting Mortars
   – Grout Aids
QUICKSET MORTARS
TOTAL CORROSION MANAGEMENT
WATERSTOP SYSTEMS
LIQUID APPLIED ROOFING & WATERPROOFING
   – Sikalastic Traffic Systems
SPECIAL ADDITIVES AND ACCESSORIES
SIKADUR® EPOXY RESINS

Sikadur, the family brand used for construction epoxy resin products by Sika has dominated the construction industry for over 50 years.

Product solutions range from bonding agents, crack repair solutions, epoxy grouts to epoxy overlay and segmental bridge adhesives - just to name a few.

THE Sikadur® BRAND OFFERS
THE FOLLOWING PRODUCT SOLUTIONS:

BONDING AGENTS
- Sikadur 32 Hi-Mod
- Sikadur 32 Hi-Mod LPL

CRACK REPAIR AND INJECTION
- Sikadur 33
- Sikadur 35 Hi-Mod LV
- Sikadur 35 Hi-Mod LV LPL
- Sikadur 52
- Sikadur Crack Fix
- Sikadur Crack Weld
- Sikadur Injection Gel
- Sikadur 55 SLV

STRUCTURAL ADHESIVE
- Sikadur 31 Hi-Mod Gel
- Sikadur 31 Hi-Mod Gel LPL
- Sikadur 32 Hi-Mod
- Sikadur 32 Hi-Mod LPL
- Sikadur 33
- Sikadur 35 Hi-Mod LV
- Sikadur 35 Hi-Mod LV LPL

GROUTING AND GROUT AIDS
- Sikadur 42 Grout-Pak
- Sikadur 42 Grout-Pak PT
- Sikadur 42 Grout-Pak LE

CONTROL JOINT SYSTEM
- Sikadur 51 NS
- Sikadur 51 SL
- Sikadur 31 Hi-Mod Gel
- Sikadur Combiflex SG System

EPOXY RESIN OVERLAYS &MORTARS
- Sikadur 21 Lo-Mod LV
- Sikadur 22 Lo-Mod
- Sikadur Epoxy Broadcast Overlay System
- Sikadur 22 Lo-Mod FS
- Sikadur 23 Lo-Mod Gel
- Sikadur 25 Lo-Mod EPU
- Sikadur 35 Hi-Mod LV
- Sikadur 35 Hi-Mod LV LPL
- Sikadur 43 Patch-Pak
- Sikadur Balcony System

STRUCTURAL STRENGTHENING SYSTEM
- Sikadur 30
- Sikadur 300
- Sikadur 301
- Sikadur 330 US
- Sikadur 340
- Sikadur Hex 300

SEGMENT AND BRIDGE ADHESION
- Sikadur 31, SBA (20-45°F)
- Sikadur 31, SBA Normal Set
- Sikadur 31, SBA Slow Set

Sika Corporation is proud to be the most trusted brand for epoxy resins in construction. We continuously strive to maintain our leadership position by introducing innovative solutions and look forward to another 50 years of success!
BRIDGE DECK FORMING
Adjustable Joist Hangers
Bridge Overhang Brackets
Haunch and Fillet Forming
Pres-Steel, Coil Rod & Con-Beam Hangers
Screed Supports

CHEMICALS
Bond Breakers
Cleaners / Strippers
Concrete Repair / Restoration
Curing Compounds / Sealers
Expoxy
Floor Levelers
Form Release Agents
Grout
Hardeners / Industrial Toppings
Liquid Densifiers
Surface Retarders

FORMING AND SHORING
Aluminum Shoring
Ganged Formwork
Garage Beam System
Handset Formwork
Highway Forms
Jump Forms
Modular Deck Shoring
One Sided Frames
Self Spanning Forms
Steel Frame Shoring

FORMLINERS
ABS Plastic
Polystyrene Plastic
Precision Cut Foam
Solid Urethane
Urethane-Skinned Foam

PAVING
Dowel Bar Expansion Caps
Dowel Bar Retrofit System
Elastomeric and Hot Pour Joint Steel
Metal Keyway Form Systems
Tie Bar Assemblies
Transverse Bar Assemblies
Welded Dowel Assemblies
Wire Basket without Dowels

PRECAST
Anchors and Lift Systems
Coil / Ferrule Inserts
Core Plugs
Magnets
Precast Forms
Rustications / Chamfers
Sandwich Panel Connector
Shear Connectors
Slotted Inserts

REBAR SPlicing
Forged Dowel Bar Couplers
Lockshear Bolt Couplers
Shear Resistance Products
Straight Thread Couplers
Taper Thread Couplers

REBAR SUPPORTS
Concrete Dobies
Continuous Plastic and Steel Bar Supports
Individual Plastic and Steel Bar Supports
Mesh Chairs
Paving Chairs
Side Form Spacers

TIES AND ACCESSORIES
Modular Form Ties
Single Waler System
Ties and Accessories

TILT-UP
Braces and Brace Anchors
Helical Ground Anchors
Setting Plugs
Strongback System
Tilt-up Anchors and Lifting Systems

COLORED ADMIXTURES
CHROMIX® Admixtures for Color-Conditioned Concrete™
CHROMIX® Conpatch™
SCOFIELD® Integral Color SG
SOLACHROME® High-SRI Concrete Systems

DRY-SHAKE COLORED HARDENERS
LITHOCHROME® Color Hardener
EMERCHROME® Floor Hardner

INTERIOR CONCRETE FLOORING SYSTEMS
SCOFIELD™ Overlay™
SCOFIELD™ Xpedite™ Overlay™
SCOFIELD™ Underlay™ Premium Grade
SCOFIELD™ Underlay™ Standard Grade
SCOFIELD™ Bondaid™ Primer
SCOFIELD™ Slimpatch™

CHEMICAL STAINS
LITHOCHROME® Chemstain™
LITHOCHROME® Chemstain™ Enhancer

TEXTURING SYSTEMS FOR FLOORS
LITHOTEX® Pavecrafters®
LITHOCHROME® Antiquing Release
LITHOTEX® Liquid Release
LITHOTEX® Top Surface Retarder
SCOFIELD™ Texturetop™

CURING AND SEALING MATERIALS
LITHOCHROME® Colorwax™
COLORCURE® Concrete Sealer
SCOFIELD™ Curesel™ Semi Gloss and Gloss
CEMENTONE® Clear Sealer
LITHOCHROME™ Coating Remover

HIGH-PERFORMANCE COATINGS
SCOFIELD™ Clearcoat™
SCOFIELD™ Repello®
SCOFIELD® Revive™ Color Refresher
SCOFIELD® Formula One™ Polished Concrete System
QUALITY CHEMICAL PRODUCTS

STOCKING DISTRIBUTORS FOR:
Chemical Sprayers • Epoxies • Grouts • Patching and Restoration • Adhesives • Sealants
Waterproofing • Cures • Anti-Graffiti Products • Cleaners & Strippers • Admixtures • Hardeners
Floor Treatments • Bonding Agents • Bond Breakers • Coatings and Toppings • Joint Fillers • Fasteners
Polyurethanes • Sanitile Polyesters • Bitumastics • Color Admixtures • Carbomastics • Floor Underlayments

BY

Sakrete

Sika

Weld-Crete

Owens Corning

INNOVATIONS FOR LIVING™

H.B. Fuller

Larsen Products Corp

Trumbull

Owens Corning Roofing and Asphalt, LLC

Dayton Superior

Scofield Systems

HDV SYSTEMS

Sure-Klean®

Hudson

Sure-Klean® Professional Division

ADEKA

Delta Polymers, Inc.

Delta

Anti-Hydro International, Inc.

Quickrete

Carbol ine

Karcher

Quikrete

Karnak

Simpson Strong-Tie
FORM RELEASE #25

W.B. CURE

STRONG BOND

CONCRETE SHIELD
An acrylic polymer resin specifically formulated for curing, hardening, dustproofing, and sealing freshly placed concrete. Meets ASTM C-309, Type 1, Type 1-D, Class A and B, AASHTO M-148, and NAVDOCK 13 YF specifications.

RS-1
An emulsified asphalt that is rapid-setting, and low consistency for penetration and surface treatment. Meets N.Y.C. D.O.T. and ASTM D-977 specifications.

RC-70

NEW CONSTRUCTION CLEANERS & STAIN REMOVERS
600 Detergent • Vanatrol® • 101 Lime Solvent • Mortar & Grout Remover • Light & Heavy Duty Concrete Cleaner • Degreaser & Etch • 800 Stain Remover • Ferrous Stain Remover • White Scum Remover • Smoke Remover • Asphalt & Tar Remover • Lime Putty Remover • Efllorescence Control System

RESTORATION CLEANERS
Heavy Duty Restoration Cleaner • Limestone Restorer • Limestone Afterwash • 766 Masonry Prewash • Heavy Duty Paint Stripper • Poultice • Marble Cleaners • Masonry Cleaner • Defacer Eraser® • Graffiti Control & Remover

WEATHER SEAL
Weather Seal Siloxane • Weather Seal H40 • Weather Seal 201GP • Weather Seal SS • Blok-It®

CONSOLIDECK® DECK SEAL
Cur-To-Spec® MS • Consolideck® Saltguard® • Consolideck® SX • Consolideck® H40
CHARTS AND USEFUL INFORMATION

COMMON NAIL SIZES AND THEORETICAL COUNT PER POUND

<table>
<thead>
<tr>
<th>Common Finishing C.C.</th>
<th>Sinker Smooth Box</th>
<th>Casing Double Head</th>
<th>Spike</th>
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<tr>
<td>4d</td>
<td>3d</td>
<td>2d</td>
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**Nail sizes start at 2d which is 1" long. They range up to 60d size which is 6" in length. The 2d through 16d are in 1/8" increments. Nails above 16d increase by 1/4" increments.**

**Gauge Numbers**

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**Gauge Wire Size**

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**Steel Wire Gauges**

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**Decimal Equivalents of Steel Wire Gauge**

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**Plain Wire Sizes**

- Gauge 8
- Gauge 9
- Gauge 10
- Gauge 11
- Gauge 12
- Gauge 13
- Gauge 15
- Gauge 16
- Gauge 17
- Gauge 18
INDUSTRIAL TOOLS
MARSHALLTOWN FINISHING TOOLS

MAGNESIUM SCREEDS
Best for hand screeding, these are made of a hard magnesium alloy that can't rust or rot, and won't load up with mud. They are lightweight, durable, and have long-wearing edges. End caps keep out dirt and mix. Available in three cross sections: 1 x 4 inches, lengths 6 to 14 feet; 2 x 4 inches, lengths 6 to 16 feet; and 2 x 5 inches, lengths 6 to 24 feet.

RAKES AND KUMALONGS
Magnesium alloy rakes are unbelievably strong and light. Concrete won't stick or cling as it does on other materials. Rakes are made in two sizes—19½ inch, which fits inside concrete carts, and 24 inch, both with 54 inch long handles. Kumalongs are perfect concrete placing tools. Spread, tamp, smooth, and float, all with one tool. Available with hook for lifting reinforcing steel. Made of 14 gauge steel, 20 x 4 inches, with a 54 inch handle.

ALUMINUM AND MAGNESIUM BULL FLOATS
Aluminum bull floats: 8 inches by 42, 48, and 60 inches. Magnesium bull floats: 8 inches by 42, 48, 54, and 60 inches. Aluminum extension handles: 1¼ inch diameter by 4, 5, 6, 8, and 10 feet long.

PAVERS STRAIGHTEDGE
Die-straight and lightweight, this straightedge is a one-piece hollow, heat treated aluminum extrusion. The flat bottom and sharp edges make accurate checking easy. It is 12 feet long, lightweight aluminum, with a 1¾ inch diameter handle.

DARBIES
Concrete finishing darbies of mahogany and magnesium in both straight and tapered styles are carried in stock for immediate delivery. All are designed for the professional.

HAND TROWELS
Unlimited selection of trowels for concrete finishing, plastering, bricklaying, caulking, etc., is carried in stock.

FLOATS
Concrete floats of steel, magnesium, redwood, laminated canvas resin, teak, and bodark are the stock in trade for the concrete finisher. A wide selection of various types are carried in stock.

EDGERS
Hand models in aluminum, stainless steel, and bronze, with straight or curved ends, and large comfortable handles. In widths from 1½ to 4 inches. Walking edgers have adjustable angle handles 60 inches long, and a stainless steel face in widths from 6 to 10 inches.

GROOVERS
Sidewalk groovers in bronze and stainless steel in many widths and styles of bits are available from stock. All are smoothly finished, and have no rivets that could mar the finish. Standard sizes are 6 inches long by 4½ inches wide with bits to ½ inch wide by 1 inch deep.

PAVEMENT FINISHING BROOMS
This broom has flat steel tines on ⅜ inch spacing to produce a uniform rough grooved surface for non-slip concrete on roads and bridges. Head is of molded canvas impregnated phenolic, laminated for warp resistance and exposure to moisture. Widths are 24 and 36 inches. Complete with adjustable angle extension handle.
GRINDERS

DWE4517
7" 8,500 RPM 4HP Angle Grinder
- High power 4 HP (maximum motor HP)
- 8,500 rpm motor with overload protection provides higher operating speeds under load.
- Low-profile guard allows for work in tight areas.
- 2-position side handle provides improved ergonomics for specific applications.

DWE4519
9" 6,500 RPM 4HP Angle Grinder
- High power 4 HP (maximum motor HP) 6,500 rpm motor with overload protection provides higher operating speeds under load.
- Low-profile guard allows for work in tight areas.
- 2-position side handle provides improved ergonomics for specific applications.

DCG414T2
FLEXVOLT® 60V MAX* 4-1/2"-6" (115mm-150mm) Grinder with Kickback Brake
- Brake engages when trigger is released, stopping speeds at 1.5 seconds with standard grinding wheel (4-1/2" x 1/4"
- Baked enameled steel, non-hubbed.
- 8,000 RPM Speed allows the use of up to 6" wheels.

DWE402N
4-1/2" (115mm) Small Angle Grinder W/ No Lock-On
- 11.0 Amps AC/DC. 11,000 RPM motor design for fast material removal and high overload protection.
- Low-profile gear case allows for access into tight spaces.
- One-Touch Guard allows for 360 degree rotation of the guard with a single action.

HAMMERDRILL & IMPACT DRIVERS

DCK299P2
20V MAX® XR® Lithium Ion Brushless Premium Hammerdrill & Impact Driver Combo Kit (5.0 Ah)
INCLUDES:
- DC896B 20V MAX® XR® 3-Speed 1/2" Hammerdrill
- DCF887B 20V MAX® XR® 1/4" Impact Driver
- (2) DCB205 20V MAX® XR® 5.0 Ah High Capacity Lithium Ion Batteries (5.0 Ah)
- Charger
- (2) Belt Hooks
- 300° Side Handle
- Kit Box

DCD996P2
20V MAX® XR® Lithium Ion Brushless 3-Speed Hammerdrill Kit
INCLUDES:
- DCD996B 20V MAX® XR® Lithium Ion Brushless 3-Speed Hammerdrill
- (2) DCB205 - 20V MAX® XR® High Capacity Lithium Ion Batteries (5.0 Ah)
- Charger
- Belt Hook
- 300° Side Handle
- Kitbox

DCF887B
20V MAX® XR® Brushless 1/4" 3-Speed Impact Driver (Tool Only)
- 3-speed settings for optimized application versatility.
- Precision driver in speed 1 for precise applications and added control.
- LEDs with 20-second delay after trigger release, provide visibility without shadows.

IMPACT WRENCHES

DCF889M2
20V MAX® Lithium Ion 1/2" High Torque Impact Wrench Kit (4.0 Ah)
- 690 ft-lbs of maximum torque to perform a wide range of heavy-duty fastening applications.
- Variable speed trigger with electric brake provides user improved control.

DW292K
1/2" (13mm) Impact Wrench Kit
- 345 ft-lbs of max breaking torque.
- 1/2" detent pin anvil.
- Forward/reverse selector switch.
- Soft grip handle for increased comfort.

DCF880B
20V MAX® Lithium Ion 1/2" Impact Wrench (Tool Only)
- Compact 5.70” front to back, lightweight (4.4 lbs) design fits into tight areas.
- 3 LEDs with 20-second delay after trigger release, provide visibility without shadows.
DEWALT

RECYCROPLATIGSAW

FLEXVOLT

60V

DCS388T2
FLEXVOLT® 60V MAX Brushless Reciprocating Saw Kit
- Powerful 13.0 Amp motor delivers the power needed for heavy duty applications
- 0-2,700 RPM and 1-1/2" stroke length for fast and efficient cutting

DMS311K
13.0 Amp Reciprocating Saw Kit
- Powerful 13.0 Amp motor delivers the power needed for heavy duty applications
- 0-2,700 RPM and 1-1/2” stroke length for fast and efficient cutting

ROTARY HAMMERS

20V X3

DCH133M2
20V MAX* XR® Brushless 1” D-Handle Rotary Hammer Kit
- Optimized 2.2J. concussion provides faster, then durable: two-speed action
- Durable German Engineered mechanism for long service life, even in the hardest concrete

DZ526SK
1-1/8” SDS+ Rotary Hammer Kit
- 5.0 Joule impact energy for fast drilling and chipping speed
- 6.5 Amp high performance motor
- Rotating brush ring delivers full power torque in forward and reverse

CIRCULAR SAW

DWS535
7-1/4” Worm Drive Circular Saw
- 13.8 lb. Lightweight magnesium construction for optimum user handling, comfort, and strength
- Double-volt magnetism bellows provide a tough and solid cutting platform
- Extra wide saw hook accepts material up to 2-1/2” wide

COMBINATION HAMMERS

D25481K
1-9/16” SDS Max Combination Hammer
- 6.1 Joule of impact energy provides increased power without the cord
- H-Shape - Active Vibration Control® reduces vibration felt by the user of the hammer up to 90% from the D25481K with standard hammer

DUST EXTRACTOR VACUUMS

DWS012
10 Gallon Wet/Dry HEPA Dust Extractor with Automatic Filter Cleaning
- Automatic Filter Clean pulses every 30 seconds for continuous operations
- without stopping to clean filter
- Powerful 15.5amp motor delivers 150 CFM of airflow for maximum suction
- Power Tool Activation controls the dust off operations of the vacuum with a power tool

*All levels rated to 20V MAX*, maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.
*All levels rated to 60V MAX*, maximum initial battery voltage (measured without a workload) is 60 volts. Nominal voltage is 54.
**DEWALT’s Tools & Apparel** is a registered trademark of DEWALT IP, LLC. DEWALT’s Tools & Apparel design is used to provide users with a high visible zero-zero mark of the following features:
- The battery pack is designed to provide a high visible zero-zero mark of the following features:

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Simpson Strong-Tie is your source for concrete solutions

Simpson Strong-Tie offers innovative solutions for infrastructure, commercial, industrial and residential construction. Our code-listed products, general-purpose anchors and fasteners, and new products to repair, protect and strengthen concrete and masonry provide the product solutions required to tackle your toughest application. And our knowledgeable field and engineering teams are here to support you from bid to installation.

Contact us to learn more about how Simpson Strong-Tie can improve efficiency and reduce overall installed cost. Call us at (718) 461-2200 or visit www.rawequipment.com.
MISCELLANEOUS CONCRETE TOOLS & SAFETY GEAR

HARD HATS
Made of high density polyethylene, and molded with features to meet functional and safety specifications. They provide excellent impact, penetration, chemical, and voltage resistance. Internal suspension adjusts and locks for head sizes from 6¾ to 8. In several colors, with or without sweat band, chin strap, winter liner, etc. Weighs less than 12 ounces.

RAINWEAR
Foul weather suits and coats in ultra flexible, light-weight PVC-Nylon, or in heavy duty 2-ply laminated PVC. Three piece suits include snap-on hood with drawstring, jacket with storm fly front, and single bib overall with fly front and elasticized suspenders. All are reinforced at stress points, ventilated, and have snap take-ups at arm and leg cuffs, and waist. Sizes medium, large, and extra large, in yellow or orange.

BOOTS
Two types. Over-the-foot Safety Boot with steel toe and shank insert, and steel arch support. 15 inches high, barred sole and heel, sizes 5 to 13, in black. Over-the-shoe boot has soft toe, 17 inches high, has large top opening for easy on and off, and rubber gusset at the knee for tightening after boot is on. Sizes 7 to 14, in yellow.

CONSTRUCTION FIRST AID KIT
Twenty-five person size has complete assortment of treatment aids for on-the-job first aid of common injuries. Refillable. Has handy hanger for slip attachment to field office wall.

CONTRACTOR TOOLS
Shovels—Long handle with plain end, or short handle with steel reinforced D end, round point for digging, or square end for general purpose use. All have closed back to minimize accumulation of soil, or concrete build-up, and a rolled step. Extra long socket gives added strength to durable ash handle. Blade approximately 9 by 12 inches.

Sledges—Double face hammers, 3 to 16 pounds with 36 inch handles. Also 3 pound hammers with double face or cross peen, short handles.

Tampers—8 x 8 inches, 12 pounds; or 12 x 12 inches, 18 pounds. Both have 60 inch handles.

RAKES AND LUTES
Bow Rake—16 x 3¾ inches, 60 inch handle.
Aluminum Asphalt Lute Rake—36 x 4 inches, one serrated edge, one plain edge. 82 inch handle.
Asphalt Tar Rake—17 x 4½ inch head, 18 inch steel shank. 60 inch handle.
Mortar Hoes—10 x 6 inch perforated blade, 8 inch ferrule, 66 inch handle.
TRAFFIC SAFETY & SPECIALTY TAPES

TRAFFIC DIRECTION

SAFETY FLAGS

SAFETY BARRICADES

BARRICADE TAPE

UNDERGROUND WARNING TAPES

CONE SAFETY GATE

SAFETY CONES

SAFETY DRUMS

EMERGENCY LIGHTS
THANK YOU FOR CONSIDERING RAW EQUIPMENT AS ONE OF YOUR SUPPLIERS. IN ORDER FOR US TO PROCESS THIS APPLICATION, WE WILL NEED THE FOLLOWING INFORMATION. PLEASE ANSWER ALL THE QUESTIONS OR WE WILL NOT BE ABLE TO PROCESS THE APPLICATION. PLEASE PRINT.

NAME __________________________ PHONE # __________________________

BILLING ADDRESS __________________________ FAX # __________________________

CITY __________________________ STATE __________ ZIP __________

SHIPPING ADDRESS __________________________

CITY __________________________ STATE __________ ZIP __________

CHECK ONE: INDIVIDUAL □  PARTNERSHIP □  CORPORATION □

PRODUCT LINE __________________________ DATE BUSINESS FOUNDED __________

FEDERAL EIN __________________________ CONTRACTOR’S LIC # __________

OFFICERS OF THE CORPORATION/OWNER: (PLEASE PRINT)

1. PRESIDENT/OWNER __________________________ SS# __________________________

HOME ADDRESS __________________________

HOME PHONE: __________________________

2. VICE PRESIDENT __________________________ PHONE: __________________________

3. SECRETARY/TRES __________________________ PHONE: __________________________

IF SUBSIDARY, LIST NAME AND ADDRESS OF HOME OFFICE OR PARENT COMPANY:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
CREDIT REFERENCES

PLEASE PROVIDE U.S. EQUIPMENT SUPPLIERS AS TRADE REFERENCES

1. NAME ______________________ PHONE ____________________ FAX ____________________
   ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

2. NAME ______________________ PHONE ____________________ FAX ____________________
   ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

3. NAME ______________________ PHONE ____________________ FAX ____________________
   ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

4. NAME ______________________ PHONE ____________________ FAX ____________________
   ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

5. NAME ______________________ PHONE ____________________ FAX ____________________
   ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

NAME OF BANK __________________________ ACCOUNT # __________________________

ADDRESS ______________________ CITY ______________________ STATE _________ ZIP ___________

PHONE ______________________ FAX ____________________

CONDITIONS OF SALE: TERMS NET 30 DAYS. A LATE PAYMENT FEE OF 1-1/2 % PER MONTH WILL BE ASSESSED AGAINST OUTSTANDING BALANCES OVER 30 DAYS. THE UNDERSIGNED AGREES TO PAY ALL COSTS OF COLLECTION, OR COSTS OF ATTEMPTING TO COLLECT DELINQUENT PAYMENTS, INCLUDING REASONABLE ATTORNEY FEES OF 20%, WHETHER THE SAME IS COLLECTED THROUGH SUIT OR OTHERWISE. THE UNDERSIGNED ALSO AGREES TO ABIDE BY COMPANY POLICIES AND PROCEDURES, AND PERSONALLY GUARANTEES THE PAYMENT OF ALL BILLS INCURRED HERE BY THE ABOVE MENTIONED COMPANY.

***MUST BE SIGNED BY OWNER/OFFICER OF COMPANY***

PRINT NAME ________________________________

SIGNED ________________________________ DATE __________

44
50TH ANNIVERSARY SALES EVENT

DON'T MISS OUT ON YOUR CHANCE TO SAVE!

STOP IN TO RECEIVE 10% OFF*
YOUR NEXT ORDER WITH THIS VOUCHER

SALE PRICE GOOD THROUGH 09/01/18
STORE HOURS: 7:00 AM - 4:00 PM MONDAY - FRIDAY

Date ________________________________

Company Name ________________________________

Name ________________________________

Invoice No. ________________________________

Authorized Signature ________________________________

RAW EQUIPMENT BUILDING MATERIALS CORP.
2800 College Point Blvd., Flushing, New York 11354
PHONE: 718 461-2200  FAX: 718 762-3094
WEB: WWW.RAWEQUIPMENT.COM
EMAIL: SALES@RAWEQUIPMENT.COM

Thank You!

*Not to be combined with any other offer. No copies of this page will be accepted. 1 Per Customer or Company.
In 1967 Richard A. Wallace pursued “The American Dream”. He had a vision and passion to become one of the leading suppliers in the construction industry. With his family by his side he followed his dream working hard, taking risks, making sacrifices and with much determination he founded RAW EQUIPMENT.

The American Dream in the 60’s gave everyone inspiration to shoot for the stars, aim high, work hard and anything was possible. Dick, as he was known, with his wife Jean believed in the dream. They were proud of their country and stayed determined to be successful. Don’t get us wrong that dream came with a price and wasn’t easy. They started the company out of their home with the kitchen as an office. When the phone rang, it was usually a potential customer and Dick would work his magic making sure he had a satisfied client with hopes of building a long-term relationship. He balanced coaching his boy’s baseball teams, a bowling league with his wife Jean and socializing as a member of the Bayside Yacht Club.

Even though he is gone over 24 years, as you walk through the doors of RAW EQUIPMENT, his dreams spark something inside all of us that “anything is possible”. Through the years as the business grew, many friendships were formed. Dick made sure that his customers were treated like family, even at his own expense. He understood hard times and was always willing to lend a helping hand. His heart was made of gold and whoever was lucky enough to have known him recognize that. And if you never met this amazing man, we know as you walk though those very same doors you will be greeted with a warm smile and see the same sparkle in the eyes of the staff for they have learned from the best. His motto “Products In, On And Around Concrete” still echoes at RAW today. RAW’s growth over the past 50 years is based on the solid foundation put in place by Richard A. Wallace.
### PRODUCTS IN, ON AND AROUND CONCRETE

RAW EQUIPMENT BUILDING MATERIALS CORP.
2800 COLLEGE POINT BLVD., FLUSHING, NEW YORK 11354
E-MAIL: sales@rawequipment.com
www.rawequipment.com

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Flushing, NY 11354