



**GLENCOE PARK DISTRICT**  
**Committee of the Whole Meeting**  
**Tuesday, January 5, 2021 - 7:00pm**  
**Zoom Video/Audio Conference or In-Person**

Consistent with the requirements of the Illinois Compiled Statutes  
5 ILCS 120/1 through 120/6 (Open Meetings Act), notices of this meeting were posted.  
Location of the meeting is **Zoom -or- Takiff Center**, 999 Green Bay Rd, Glencoe, IL 60022

The Board of Park Commissioners President determined that an in-person meeting is not practical or prudent due to the issuance by the Governor of a disaster declaration related to public health concerns in all or a part of the jurisdiction of the District, and the President stated that physical presence at the meeting location was determined by the District to be unfeasible due to the disaster. If you prefer to attend in-person, please enter Takiff Center around the back at the main entrance. Please note that the Board of Park Commissioners will be attending via Zoom, not in-person, and Executive Director Lisa Sheppard will be attending in-person.

**AGENDA**

- I. Call to Order
- II. Roll Call
- III. Matters from the Public
- IV. Discussion on Glencoe Beach Pier Re-Surfacing Concepts (pgs. 2-75)
- V. Discussion on Contract Design Services for Lakefront Park Center Bluff Stabilization, Crib Wall Replacement and, Drainage (pgs. 76-88)
- VI. Update on Capital Fund Balance Projection (pgs. 89-91)
- VII. Other Business
- VIII. Executive Session
  - A. Lease 5ILCS 120/2(c)(5)
- IX. Adjourn

**Three Ways to Join this Meeting on Zoom**

**Meeting ID:** 881 1309 5349  
**Password:** 999

**Via Phone Dial In**  
312-626-6799

**Via Computer**  
Go to Zoom.us, Click 'Join a Meeting', Enter the Meeting ID and Password above

**Via SmartPhone**  
If you don't already have the app, go to your smartphone's app store and load 'Zoom Cloud Meeting' (free)

The Glencoe Park District is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or facilities, are asked to contact the Park District at 847-835-3030. Executive Director E-mail address: lshppard@glencoeParkdistrict.com

**The Board of Park Commissioners welcomes public comments during all meetings.**

**Via Zoom Video** - Attend the Zoom meeting via video indicate your desire to speak once prompted that it is Matters from the Public.

**Via Zoom Dial In** - Attend the Zoom meeting via Dial In (audio only) and indicate your desire to speak once prompted that it is Matters from the Public.

**Via In Person** – Attend the meeting at Takiff Center

**Key rules governing participation**  
All comments will be limited to three (3) minutes per person and no longer than 30 minutes for all comments.



# **IV. Discussion on Glencoe Beach Pier Re-Surfacing**

Glencoe Park District  
January 5, 2021 Committee of the Whole Meeting

# MEMORANDUM

TO: Board of Park Commissioners  
FROM: Lisa Sheppard, Executive Director and Chris Leiner, Director of Parks & Maintenance  
SUBJECT: Pier Surfacing Concept for Board Discussion  
DATE: December 29, 2020

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Attached is the overview of the draft concept plans developed by Baird for the Glencoe Beach Pier Re-Surfacing Project. Caleb Barth, PE, from Baird, will attend the meeting to present the draft plans for discussion.



Mr. Chris Leiner  
Director of Parks and Maintenance | Glencoe Parks District  
999 Green Bay Road  
Glencoe, IL 60022

via email to cleiner@glencoeParkDistrict.com

**Status: Draft**  
December 11, 2020

**Reference # 13359.101.L2.RevA**

## **RE: GLENCOE PIER DECK REPLACEMENT CONCEPTUAL DESIGN**

Dear Mr. Leiner,

### **Introduction**

W.F. Baird & Associates Ltd. (Baird) is providing conceptual design services to the Glencoe Park District (Park District) for the repair/replacement of the Glencoe Beach pier deck in Glencoe, IL. Two conceptual alternatives were developed and are presented in this letter for the Park District's consideration.

The conceptual alternatives were developed with the criteria outlined in the previously issued Basis of Design (BoD) (reference 13359.101.L1.RevA).

### **Conceptual Design**

#### **Deck Replacement Alternatives**

The low elevation of the pier exposes the deck to severe environmental forces during periods of moderate to high water levels on Lake Michigan. Two alternative concepts were developed and evaluated, as summarized below. Conceptual sketches for each alternative are provided in **Attachment 1**. The evaluation of the alternatives was based upon a number of factors, including aesthetics, environmental impact, functionality, durability/resiliency, regulatory requirements, opinion of probable construction cost, construction duration, and maintenance requirements.

#### **Alternative 1 – More Robust Decking Replacement**

The Alternative 1 deck surface consists of composite decking. Notable features of Alternative 1 are as follows:

- Demo remaining asphalt overlay, existing perimeter angle, HSS handrail sleeve, and handrail. Preserve and protect the steel sheet pile channel cap.
- Install new pier perimeter angle and HSS sleeve.
- Place concrete overlay, minimum 3.5" thick, to level pier deck surface.

- Pressure wash existing pier concrete cap to develop bond with new concrete overlay. The layer between the existing concrete cap and the new overlay shall be designed for bonded behavior according to ACI 325.13R-06.
- General structural condition of the existing concrete cap and the new concrete overlay shall be assessed prior to installing the new concrete overlay. Deteriorated cracks, joints, and/or punchouts shall be repaired.
- Concrete compressive strength of 4,000 psi (28 days).
- Concrete overlay according to ACI 325.13R-06. Reinforcement (Welded wire or rebar) shall be added if active cracks are found in the existing concrete cap. The addition of fibers to the overlay might also be considered.
- Saw-cut joints designed according to ACI 360R-06 shall be used in the concrete overlay for crack control. Joints in the overlay shall also match and existing joints in the concrete cap.
- To provide adequate drainage, the concrete overlay shall include v-shaped drainage grooves with a 1% slope. The use of v-shaped blockouts might also be evaluated.
- Install 4x4 sleepers, anchor to pier concrete surface with brackets and post-installed concrete screw anchors:
  - Structural steel shapes and plates shall conform to ASTM A36.
  - Connection elements shall be hot-dip galvanized after fabrication.
  - Hot-dip galvanized ASTM A307 bolts shall be used to attach the sleepers to the sleeper brackets.
  - Stainless steel screw anchors shall be one of the following or approved equivalent:
    - Simpson stainless steel Titen HD screw anchors.
    - Hilti KWIK HUS-EZ SS316 stainless steel screw anchors.
- Install HDPE decking:
  - Weardeck, Lumberock, or approved equivalent HDPE Boards shall be used for the decking and sleeper system. Product literature for each is provided in **Attachment 2**.
  - Appropriate end-to-end and side-to-side spacing shall be provided between deck boards to account for thermal expansion, drainage, debris removal, and/or air circulation.
  - Simpson Strong-Tie Deck-Drive DCU composite screws or approved equivalent shall be used to attach the deck boards to the sleepers.
  - Minimum 2 screws shall be used at each board-sleeper intersection.
- Install new handrail and replace light fixtures.
- Top of deck elevation shall be increased by approximately 0'-6".

#### Alternative 2 – Cast-In-Place Concrete Overlay Deck

The Alternative 2 deck surface consists of a stamped concrete overlay. Notable features area as follows:

- Demo remaining asphalt overlay, existing perimeter angle, HSS handrail sleeve, and handrail. Preserve and protect the steel sheet pile channel cap.
- Place concrete overlay, minimum 5" thick, to level/slope pier deck surface:
  - Pressure wash existing pier concrete cap to develop bond with new concrete overlay. The layer between the existing concrete cap and the new overlay shall be designed for bonded behavior according to ACI 325.13R-06.

- General structural condition of the existing concrete cap and the new concrete overlay shall be assessed prior to installing the new concrete overlay. Deteriorated cracks, joints, and/or punchouts shall be repaired.
- Concrete compressive strength of 5,000 psi (28 days).
- Reinforcing steel shall be deformed steel bars conforming to ASTM A615 – Grade 60. Minimum rebar for crack control according to ACI 360R-06. Two layers of rebar steel might be needed where overlay thickness exceeds 8 inches.
- Smooth dowels shall conform to ASTM A615 – Grade 60. Doweled expansion joints shall be provided at appropriate locations (TBD).
- Joint protection (sealing and filling) according to ACI 360R-06.
- Stamped and/or colored finishing shall follow the recommendations given in ACI 310R-13. See **Attachment 3** for example stamp patterns.
- The finished surface shall have a 1% (or 1/8" per foot) slope to provide adequate drainage.
- Install new handrail and replace light fixtures.
- Top of deck elevation shall be increased by approximately 0'-3".

**Evaluation of Alternatives**

Table 1 presents a matrix comparison of the two alternative concepts. The alternatives have been ranked relative to one another under various factors to facilitate the Park District’s identification of a Preferred Alternative. The evaluation criteria included the following:

- Aesthetics – physical appearance / how well the alternative will match the overall ambiance of the existing Lakefront Park and Glencoe Beach structures;
- Environmental impact – the pollution and energy consequences of the manufacturing/production process of the primary materials;
- Functionality – slipperiness, thermal comfort, and wearability;
- Durability / Resiliency – ability to survive and recover from severe storm events;
- Regulatory requirements – complexity of the regulatory process to gain approval for the construction of the project;
- Opinion of probable construction cost – itemized cost estimate detail is provided in **Attachment 4**;
- Construction duration – how long construction will impact the use of the pier; and
- Maintenance requirements.

**Table 1: Matrix Comparison of Alternatives**

Evaluation Factor	Alt. 1	Alt. 2	Notes
Aesthetics	G	S	<ul style="list-style-type: none"> <li>• Composite decking is often preferred for its aesthetics over a concrete overlay (positive for ALT 1).</li> <li>• The concrete surface could be stamped with a flagstone pattern to align with other structures in the park. (positive for ALT 2)</li> </ul>

Evaluation Factor	Alt. 1	Alt. 2	Notes
Environmental Impact	G	S	<ul style="list-style-type: none"> <li>Composite products are often created from recycled plastics. (positive for ALT 1)</li> <li>Manufacturing cement results in high levels of CO2. Sourcing aggregate/sand locally often minimizes further impacts to the environment. (negative for ALT 1 &amp; 2)</li> </ul>
Functionality	G	G	<ul style="list-style-type: none"> <li>Composite decking retains heat more rapidly than concrete (positive for ALT 2)</li> <li>Composite decking is more flexible to foot traffic. (positive for ALT 1)</li> </ul>
Durability / Resiliency	G	E	<ul style="list-style-type: none"> <li>Alternative 2 has fewer modes of failure / damage that could be caused by the environment. (positive for ALT 2)</li> </ul>
Regulatory Requirements	G	G	<ul style="list-style-type: none"> <li>Both alternatives will have the same regulatory requirements; the regulatory requirements were defined in the BoD.</li> </ul>
Opinion of Probable Construction Cost (OPCC)	P	G	<ul style="list-style-type: none"> <li>The Alternative 1 OPCC exceeds the available budget; the durability of the system (i.e., minimize sleeper size and anchoring) could be adjusted/minimized to decrease the OPCC.</li> <li>The Alternative 2 OPCC meets the available budget.</li> </ul>
Construction duration	S	G	<ul style="list-style-type: none"> <li>The construction duration for ALT 1 will be longer than ALT 2. (positive for ALT 2)</li> </ul>
Maintenance	S	E	<ul style="list-style-type: none"> <li>Composite decking has been known to sag/warp unpredictably following installation. (negative for ALT 1)</li> <li>The cast-in-place concrete overlay should require minimal maintenance with proper construction QC/QA and expansion/control joint details. (positive for ALT 2)</li> </ul>

Note: E=Excellent, G=Good, S=Satisfactory, P=Poor

## Conclusion

The proposed pier deck replacement alternatives were developed to meet the owner's requirements and design criteria outlined in the BoD document with a goal of improving the durability of the pier deck and minimizing future maintenance requirements.

Baird recommends that the Park District review the information provided in the conceptual design letter and provide feedback and guidance on the desired improvements. The feedback and guidance provided will form the basis for the design development of the preferred alternative in the next phase of the work.

We appreciate the opportunity to work with the Park District on this project. Feel free to give me a call at 608-515-4587 with questions.

Best regards,



**Caleb Barth** | Marine Engineer  
Baird & Associates  
E: cbarth@baird.com

CC: Jamie Briones

Attachments:

- 1 - Conceptual Sketches
- 2 - Decking Product Literature
- 3 - Stamped / Colored Concrete Options
- 4 - Opinion of Probable Construction Cost



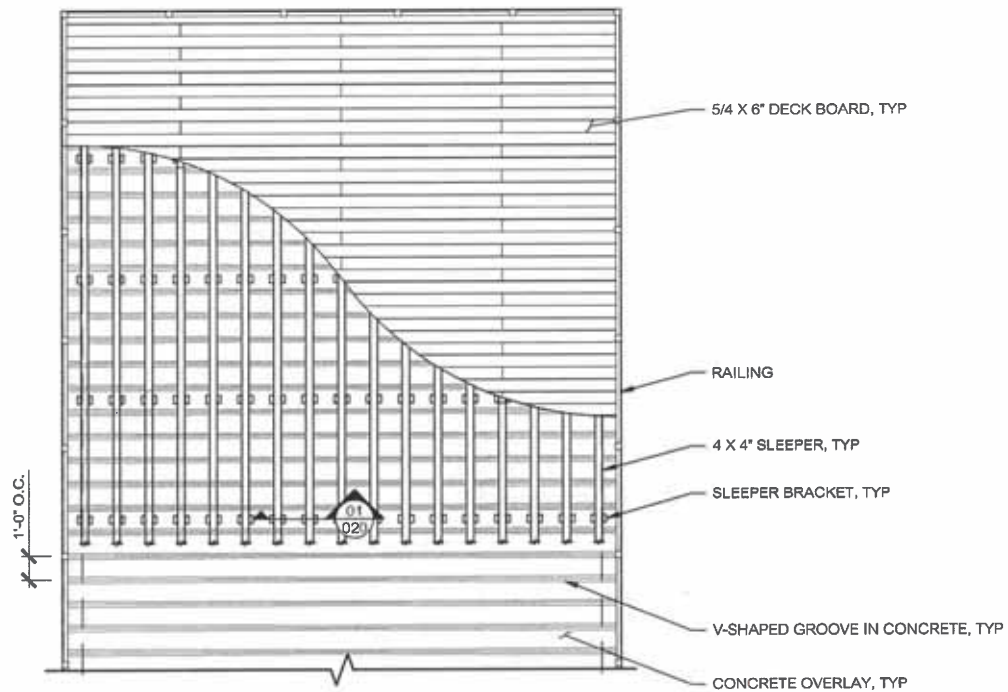
## **Attachment 1 - Conceptual Sketches**

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IN PROGRESS  
DRAFT



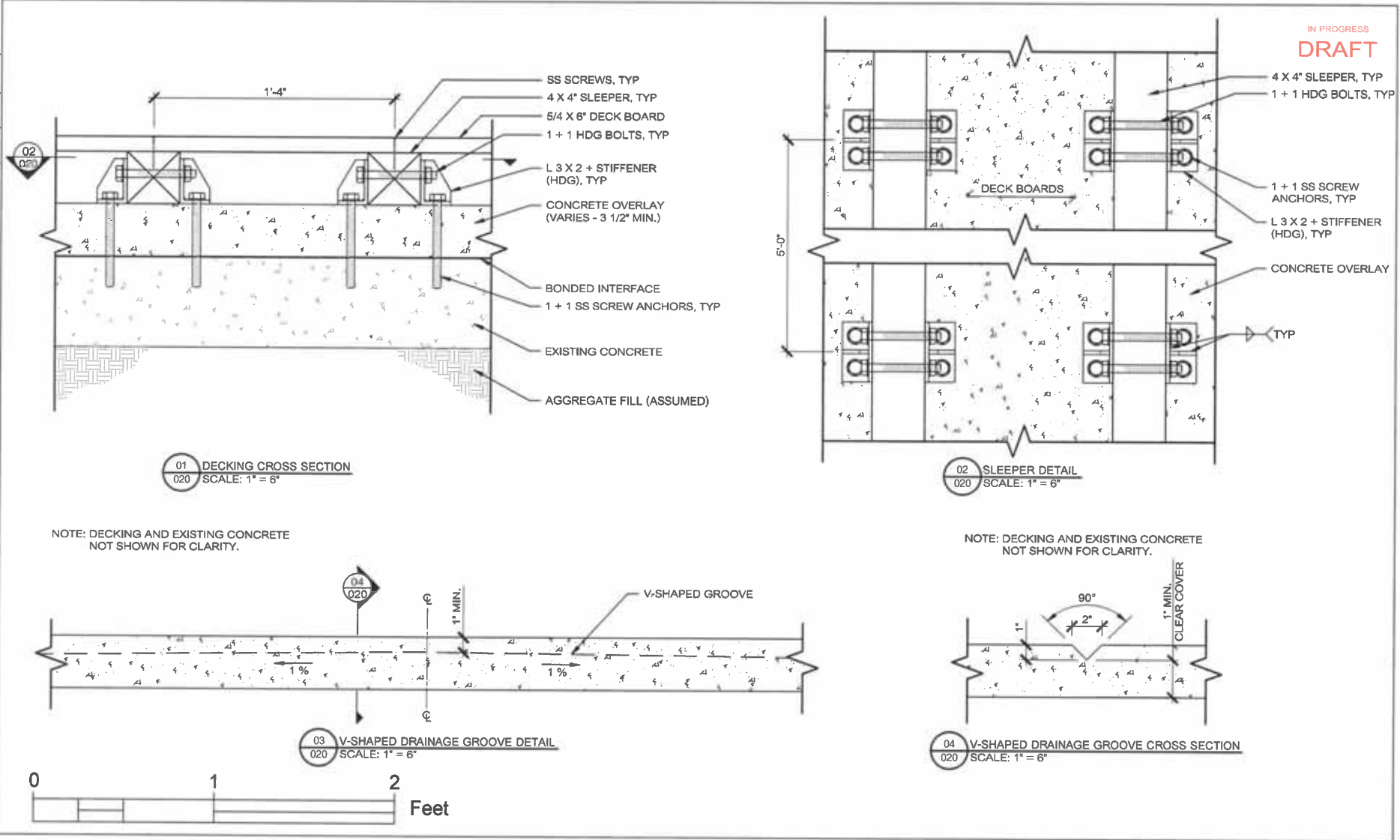
## ALTERNATIVE 1 PLAN VIEW

GLENCOE BEACH PIER DECK REPAIR

Project Number  
13359.101

Date  
2020-12-11

**Baird.**

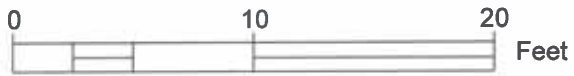
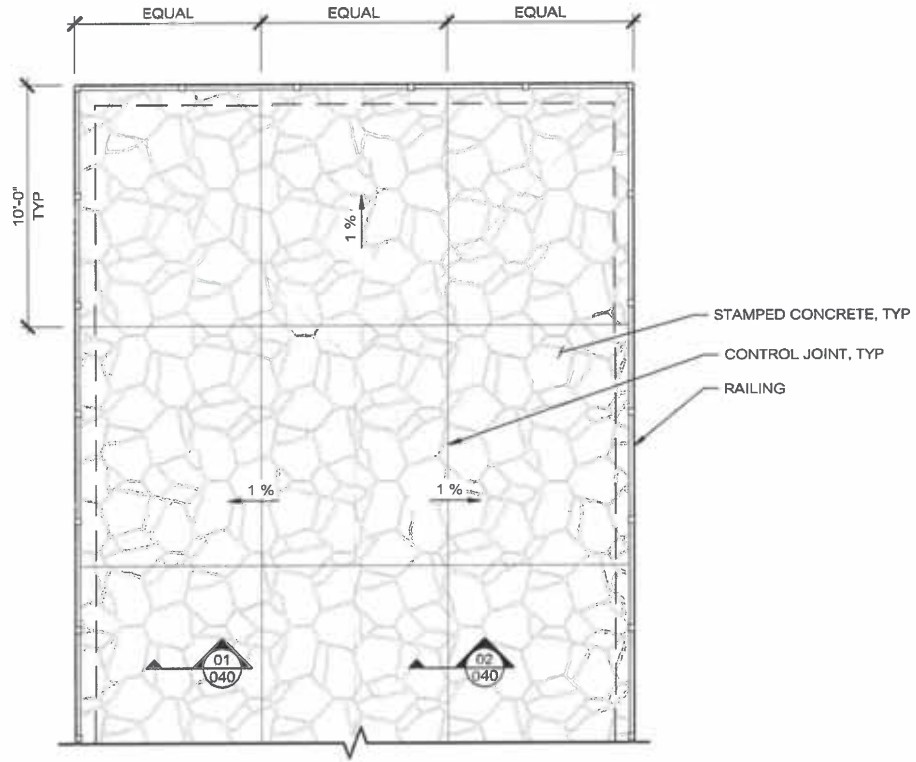


**ALTERNATIVE 1 DETAILS**  
GLENCOE BEACH PIER DECK REPAIR

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**DRAFT**



## ALTERNATIVE 2 PLAN VIEW

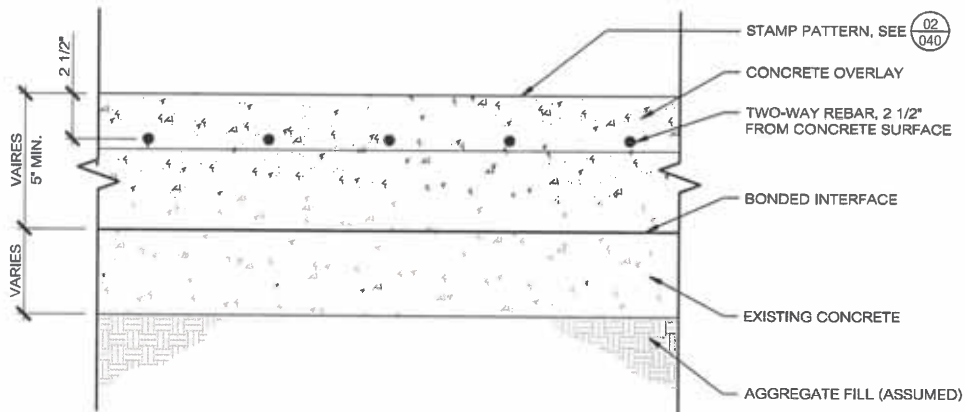
GLENCOE BEACH PIER DECK REPAIR

Project Number  
13359.101

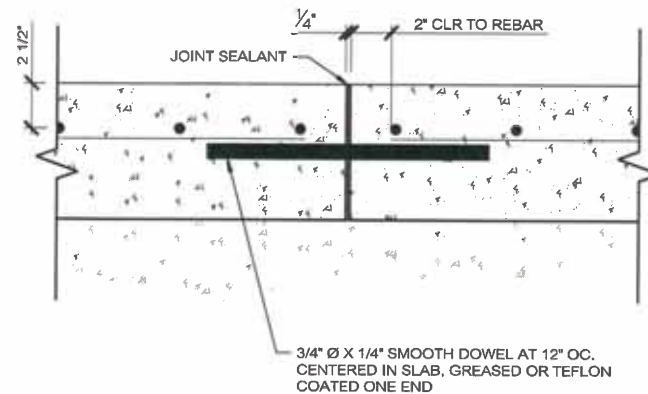
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2020-12-11

**Baird.**

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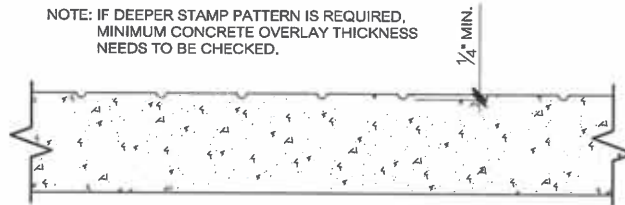


01 STAMPED CONCRETE CROSS SECTION  
020 SCALE: 1" = 6"

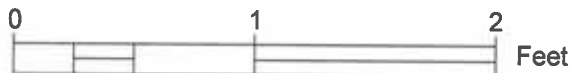


02 TYPICAL EXPANSION JOINT DETAIL  
040 SCALE: 1" = 6"

NOTE: IF DEEPER STAMP PATTERN IS REQUIRED,  
MINIMUM CONCRETE OVERLAY THICKNESS  
NEEDS TO BE CHECKED.



03 STAMP PATTERN DEPTH DETAIL  
020 SCALE: 1" = 6"



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## ALTERNATIVE 2 DETAILS

GLENCOE BEACH PIER DECK REPAIR

Project Number  
13359.101

Date  
2020-12-11

**Baird.**

## **Attachment 2 - Decking Product Literature**

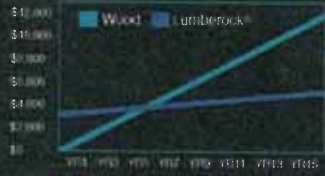
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### A SMART INVESTMENT

For most all Lumberock® costs rack up front than traditional wood products, however our synthetic lumber will never crack, rot, splinter or warp, and sticks built with Lumberock® require minimal maintenance. Compare that to traditional wood which requires a yearly staining and sealing — a time-consuming and expensive process. Within two years of installing Lumberock® your deck, you will have realized your investment and saved yourself thousands of labor.

#### Cost of Lumberock® vs. Cost of Wood



### CLEANING & CARE

One of the primary advantages to using Lumberock® is that the boards require almost no maintenance whatsoever after their installation. When dirt or debris begin to accumulate on your deck or dock, simply sweep it away, hose it off or gently wash the boards with soap and water. Any standard household cleaner can be used. Occasionally, mild acid or alkali will stain on dirt that has built up on the boards, so it will not penetrate the surface of the board, and can be removed with a light pressure washing. Additionally, stains from food, oil, fertilizers and grease will not adhere Lumberock® Premium Decking.



### WE ROCK — HERE'S WHY

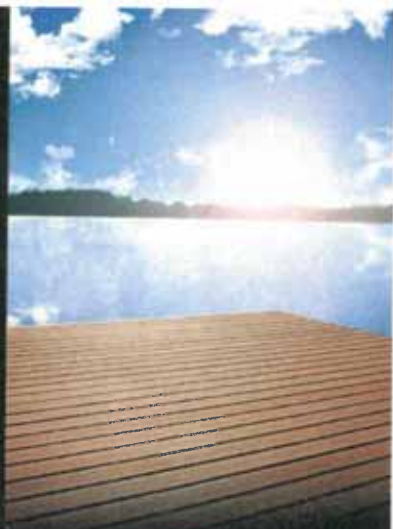
#### Completely Synthetic Deck/Dock Boards

Lumberock® uses innovative extrusion technology to combine a heavy-duty composite with high density polyethylene plastic. This formula allows for durable, long-lasting products that are resistant to mold, mildew, rot, splintering, cracking, staining, fading, and discoloration. Because of the high density polyethylene plastic, Lumberock® is resistant to water and does not absorb moisture, making it ideal for waterfront applications. Lumberock® is also resistant to staining and fading, making it ideal for high-traffic areas. Lumberock® is also resistant to mold, mildew, rot, splintering, cracking, staining, fading, and discoloration. Lumberock® is also resistant to mold, mildew, rot, splintering, cracking, staining, fading, and discoloration.

#### Traditional Installation

Lumberock® requires no special tools for installation. Standard carpenter tools will do the trick, and no pre-drilling is necessary. All of our boards feature rounded edges to help reduce the risk of injury from splinters created during installation.

Lumberock® should be fastened to the deck frame using standard framing spacers, with a 1/2" gap between boards. For 5/8" wide and deck boards, we recommend a 1/2" gap for 1/2" spacers. For 1" wide and 1 1/2" wide deck boards, we recommend a 1/2" gap for 1/2" spacers. For 1 1/2" wide and 2" wide deck boards, we recommend a 1/2" gap for 1/2" spacers. For 2" wide and 2 1/2" wide deck boards, we recommend a 1/2" gap for 1/2" spacers. For 2 1/2" wide and 3" wide deck boards, we recommend a 1/2" gap for 1/2" spacers.



**IDEAL FOR WATERFRONT APPLICATIONS**

Authorized Distributor/Dealer

Lumberock® Premium Decking  
885 Church Road, Elgin, IL 60123  
Visit [lumberock.com](http://lumberock.com) or call 800-480-2327

Find us on Facebook at [www.facebook.com/lumberock](http://www.facebook.com/lumberock)

A product of **ENGINEERED PLASTIC SYSTEMS**

EPS 11810477 © 2017 Lumberock® Premium Decking





*Solid!*

Lumberock™ is a synthetic dimensional lumber made from the unique combination of HDPE plastic and a natural mineral fill material.

- Increased Strength & Durability
- Minimal Maintenance
- Easy to Install
- No Permanent Staining
- Completely Waterproof
- No Organic Fills or PVC
- No Noticeable Fading
- Natural Wood-Grain Pattern
- Will Never Rot, Crack or Splinter
- High Performance
- Mold & Mildew Free
- Impenetrable Surface
- Cuts & Routers Like Wood



Lumberock™ is engineered to withstand harsh, wet environments making it the ideal choice for your deck, railing, boardwalk, or swimming pool project.

## Available Colors



## DOCK PROFILES

### 5/4 x 6 DOCK BOARD



Actual Dimensions:  
1"x5.5" (2.5cm x 14cm)  
Lengths:  
12ft, 16ft, 20ft

### 2 x 6 DOCK BOARD



Actual Dimensions:  
1.5"x5.5" (3.8cm x 13.7cm)  
Lengths:  
12ft, 16ft, 20ft

### 2 x 8 DOCK BOARD



Actual Dimensions:  
1.5"x7.5" (3.8cm x 19cm)  
Lengths:  
12ft, 16ft

### 1 x 10 TRIM BOARD



Actual Dimensions:  
0.75"x9.5" (1.9cm x 24cm)  
Lengths:  
8ft

### 1 x 1-1/2 PILING STRIP



Actual Dimensions:  
0.75"x9.5" (1.9cm x 3cm)  
Lengths:  
8ft

BACKED BY OUR  
**LIMITED LIFETIME WARRANTY**



# Product Information and Installation Guide



# Product Information and Installation Guide

## Product Composition:

High Density Polyethylene (HDPE) resin and a proprietary blend of additives including pigments, UV inhibitors, and AO stabilizers.

## Product Features and Benefits:

- Highest Live Load Capacity Ratings in the industry
  - Our 5/4x6" board supports 120 lbs/SqFt at 24" O.C.
  - Requires less understructure
- Heat Reflective
  - Reduces our boards surface temperatures by 30 percent
  - New Barefoot colors stay cool for bare feet
- 8 vibrant colors in a bold wood grain, slip-resistant finish:
  - Cool Gray, Sand, Cedar, Weatherwood, Saddle, White, Barefoot Grey, Barefoot Sand
  - Maximum color retention with 25-year UV package
- 25-year Commercial Warranty and Lifetime Residential Warranty
- Custom cut-to-order program reduces waste, cost and labor
- Available in up to 28 ft. lengths ( industry exclusive)
- Minimal thermal expansion & contraction
  - Maximum of 1/32" on a 20' board
- Easy to maintain
  - Clean with soap and water or a pressure cleaner at a safe distance
- Weatherproof and Waterproof
  - Withstands harsh heat, hurricanes and saltwater
- Rated for ground contact and underwater installation
- No mold or mildew
- Easy for builders to use
  - Rip, edge and route our product
  - Core color matches skin



## Decking Profiles:

### **Standard Deck Board 5/4x6"**

**Actual Dimensions: 1.05x5.5"**

**Standard Lengths: 12' 16' 20'**

**Custom Lengths: Up to 28'**

**Woodgrain: One Side**

**Colors Available: All**

### **Standard Deck Board 5/4x8"**

**Actual Dimensions: 1.05x7.25"**

**Standard Lengths: 12' 16' 20'**

**Custom Lengths: Up to 28'**

**Woodgrain: One Side**

**Colors Available: All**

### **Standard Deck Board 2x6"**

**Actual Dimensions: 1.35x5.5"**

**Standard Lengths: 12' 16' 20'**

**Custom Lengths: Up to 28'**

**Woodgrain: One Side**

**Colors Available: All**



### **Standard Deck Board 2x4"**

**Actual Dimensions: 1.5x3.5"**

**Standard Lengths: 16' 20'**

**Custom Lengths: Not available**

**Woodgrain: Both Sides**

**Colors Available: All**

### **Standard Deck Board 2x8"**

**Actual Dimensions: 1.5x7.25"**

**Standard Lengths: 12' 16' 20'**

**Custom Lengths: Not Available**

**Woodgrain: Both Sides**

**Colors Available: All colors at 12' and 16'. White, Cedar, and Saddle at 20'.**

### **Standard Deck Board 2x10"**

**Actual Dimensions: 1.5x9.25"**

**Standard Lengths: 12' 20'**

**Custom Lengths: Not Available**

**Woodgrain: Both Sides**

**Colors Available: All colors at 12'. White, Cedar, and Saddle at 20'.**

### **Standard Deck Board 1/2x6"**

**Actual Dimensions: 0.5x5.5"**

**Standard Lengths: 18'**

**Custom Lengths: Not Available**

**Woodgrain: Both Sides**



Colors Available: All

**Standard Deck Board 1/2x10"**

Actual Dimensions: 0.5x9.5"

Standard Lengths: 12'

Custom Lengths: Not Available

Woodgrain: Both Sides

Colors Available: All

**Custom Lengths:**

Our Custom Cut-to-Order Program provides customers the opportunity to purchase custom length boards up to 28ft at no additional cost. Reduce waste, labor, and time on the job.

Profiles offered: 5/4x6", 5/4x8", and 2x6"

Minimum: 800 linear feet per cut.



## Standard Decking Bundle: Sizes and Weights

Use these standard bundle quantities and weights for calculating truckloads. Truckload orders are approximately 44,000lbs or at least 18-21 pallets. Use weights for orders of standard lengths and weight per foot to calculate total weights for Custom Cut to Length Program orders. If you need 12 or 20' lengths, it is possible to order full bundles.

Profile	PCS/Bundle	12' wt per Bundle	16' wt per Bundle	20' wt per Bundle	Wt per Ft
5/4 X6"	64	1459 lbs	1946 lbs	2432 lbs	1.90 lbs
5/4 X8"	48	1475 lbs	1966 lbs	2458 lbs	2.56 lbs
2 X 4"	36	N/A	968 lbs	1210 lbs	1.68 lbs
2 X 6"	40	1162 lbs	1549 lbs	1936 lbs	2.42 lbs
2 X 8"	30	1296 lbs	1728 lbs	2160 lbs	3.60 lbs
2 X10"	25	1335 lbs	N/A	2225 lbs	4.60 lbs
1/2 X6"	64	Available in bundles of 18 ft @ 1037 lbs			0.90 lbs
1/2X10"	48	Available in bundles of 12 ft @ 979 lbs			1.60 lbs



## BASIC INSTALLATION INFORMATION:

WearDeck Reinforced Polymeric Lumber in all profiles produces decking that easily exceeds generally accepted standards for application.

1.  $5/4$ " decking spans 24 inches on center (O.C.) for deck and dock applications.

Live Load Capacity:

266 lbs./ft<sup>2</sup> at 16" O.C.

120 lbs./ft<sup>2</sup> at 24" O.C.

2.  $2$ " x  $6$ " decking spans 24 inches O.C. for deck and dock applications.

Live Load Capacity:

306 lbs./ft<sup>2</sup> at 24" O.C.

## Joist Spacing:

WearDeck is designed to perform above accepted standards at the 24" on center spacing as indicated above. However, using the generally accepted decking joist spacing standards provides an installation far superior to any competitor. We recommend the installation guidelines below for exceptional performance.

### $5/4$ x $6$ " joists spacing

16" on center

12" on center if installed diagonally. Commercial applications are generally a minimum of 12 inches on center

(Always refer to the overriding local building code requirements)

### $2$ x $6$ " joists spacing



24" on center

16" on center if installed diagonally. Commercial applications are generally 16" on center, possibly 12" for straight commercial applications. (Always refer to the overriding local building code requirements)

For commercial applications, **ALWAYS** follow local municipal building code standards for ALL commercial installations, which generally require closer joist spacing by applicable code.

### Check Your Joists:

- All joists must be level to each other in order to attain a proper quality installation. **This is responsibility of the homeowner, builder or contractor.**
- Joists may require blocking/bridging in order to maintain straight and level joists based on material used to construct deck. **This is the responsibility of the homeowner, builder or contractor.**
- For cantilevering; 5/4" x 6" maximum of 2" & 2 x 6" maximum of 4".
  - Provide a minimum of a 1/8" to 1/4" inch gap between exterior walls, pilings, posts, & retaining walls or any solid fixed structure when installing all decking. This is to accommodate any potential movement of main structures (walls, pilings, posts etc....) not the deck board.
  - WearDeck's unsurpassed strength & stability adds significantly to the structural stability of any deck or dock structure, when properly applied.
  - WearDeck has a directional grain pattern, which for appearance purposes ONLY is best applied with the 5 grain peaks on board face running in the same direction. Wood grain pattern repeats every 37.5 inches.

### FASTENING & WORKABILITY:

WearDeck works well with a variety of fastening options listed below. We recommend building with Stainless Steel Composite Deck Screws. Stainless Steel Composite Deck Screws offer exceptional longevity and appearance as they capture surface material. Screws that are not designed specifically for





composite deck boards will not provide the best or proper appearance at the board's surface.

### Examples of Acceptable Fasteners:

1. Starborn, Simpson Strong-Tie, Deckmate, TrapEase by Fasten Master, Tiger Claw, etc.
2. We recommend CAMO for excellent for drive tools and concealed fastening applications. As with use on any decking application, concealed fastening methods do not provide as strong of an application as face fastening.

### Fastening Recommendations:

When face fastening a 5/4" board, use at a minimum, a #9 x 2 1/2" exterior rated composite type screw.

3. When face fastening a 2" board, use at a minimum, a #10 x 2 3/4
4. " exterior rated composite type screw.
5. Predrilling is NOT GENERALLY REQUIRED, however in the extreme cold of winter, testing to determine best method of application is recommended.
6. WearDeck can be installed with standard tools used for installing any wood deck or dock.
7. A **MINIMUM** of 2 fasteners should be placed from 1/2 to 1 inch from ends & edges of decking at a minimum of every 24 inches or every joist for proper standard decking applications. Your particular application may require a more fasteners based on needs of your structure. Applications for other than standard decking use, example 2x8s or 2x10s, may require special bolts or screws based on your particular application or structures needs.
8. 1/2" x 6" or 1/2" x 10" Fascia is designed for use as trim over a completely solid, level boardto board, surface. WearDeck Fascia is not designed to be used as decking, decking cap or any walkable wear surface or to span any distance without solid level board-to-board support.



When used properly, as designed for fascia or trim purposes, should be installed as indicated below:

- A.  $\frac{1}{2}$ " x 6" should be fastened with a minimum of 2 screws every 12 inches starting at 1" from ends and edges of each board, allowing  $\frac{1}{16}$ " inch gap between ends / butt joints of each board, screw should be at least a #8 x 1  $\frac{5}{8}$ " long. Example of cap capture screw would be; Deckmate #8 x 1  $\frac{5}{8}$ " T20 star drive composite
- B.  $\frac{1}{2}$ " x 10" should be fastened with a minimum of 2 screws every 12 inches applied vertically starting at 1" from ends and edges of each board, allowing  $\frac{1}{16}$ " inch gap between ends of each board, screw should be at least a #8 x 1  $\frac{5}{8}$  inches long. Example of cap capture screw would be; Deckmate #8 x 1  $\frac{5}{8}$ " T20 star drive composite.
- C. Screws can be composite deck type screw with cap capture threads or standard style threads, cap capture style screws provide the best appearance.

\*\*\* MINIMUM requirements stated above but **Fastening & fastener decisions are entirely the responsibility of the homeowner, builder or contractor.**

## **DECK SPACING GUIDELINES:**

WearDeck provides the most stable composite decking board on the market today. Because of our strenuous manufacturing standards, WearDeck outperforms any known product in the industry today, particularly in terms of thermal expansion and contraction tolerance during the extreme heat of summer or the extreme cold of winter.

Thermal Expansion =  $\frac{1}{32}$ " in the length of a 20'  $\frac{5}{4}$  x 6" or 2 x 6" deck board

This allows for generally unheard of spacing requirements:



- End to end spacing minimum of 1/16 inch.
- Side to side spacing minimum of 1/16 inch. \*

\*General building practices call for wider side to side spacing to allow for proper drainage, debris removal and/or air circulation, PLEASE consider these factors when installing any decking material. WearDeck is rated for ground contact and can be installed underwater.

## FACE FASTENING GUIDELINES:

Even with WearDeck's superior characteristics we recommend using the most commonly accepted fastening methods. Use of a quality composite decking style screw is recommended for best performance and appearance.

1. Straight at 90° to deck board.
2. When face fastening place screws NO closer than ½ inch from the end and ½ inch from the side from side edge of deck board, using 2 screws at each joist connection. Builders most often find that installing screws approximately 1" from end and edges of boards provides a better look and overall optimal application.
3. A MINIMUM of 2 fasteners should be placed from ½ to 1 inch from ends & edges of decking at a minimum of every 24 inches or every joist for proper standard decking applications. Your particular application may require a more fasteners based on needs of your structure. Applications for other than standard decking use, example 2x8s or 2x10s, may require special bolts or screws based on your particular structures needs.
4. MINIMUM requirements are stated but ALL **Fastening & fastener decisions are the responsibility of the homeowner, builder or contractor.**

## CLEANING:

Generally keeping the decking surface rinsed to remove excess dirt and debris will keep surface in excellent condition. We recommend periodic cleaning for the best overall appearance.

1. Promptly clean any stain with a good household cleaner and a natural bristle brush.



2. However, if dirt is allowed to build up on the surface for a prolonged time tougher buildup may occur which could require extra effort to remove.
3. WearDeck has NO organic compounds so WearDeck will not support mildew or mold growth but if allowed to become and stay dirty the dirt, soil, debris will grow mold or mildew, requiring extra effort to clean. Again, standard cleaning practices will keep your WearDeck beautiful for years.
4. Cleaning solutions such as; DAWN dishwashing solution, 409, Simple Green, Fantastik, etc. should work well for general cleaning needs.
5. IF there is a grill on the deck, a non-rubber backed mat is recommended to protect against grease drops. If grease stains or any stain occurs they should be cleaned as soon as possible. The longer they remain the harder they are to remove from any surface / any product. DAWN dishwashing solution generally does an excellent job removing most grease stains.
6. Pressure Washing is **NOT RECOMMENDED**. However, if pressure washer is used always keep spray tip from 12 to 18 inches away from deck material with a wide fan spray setting at medium pressure. **NEVER** use a fine point spray setting when cleaning any plastic, composite or wood decking material, as fine point spray on a pressure washer can and will most often damage any decking material regardless of type.

## RE-DECKING AN OLD DECK OR DOCK:

**IMPORTANT:** When re-decking an old deck or dock after removal of old surface material it is necessary that the remaining structure be properly inspected, re-nailed and/or re-screwed. Boards should be replaced where necessary before new decking can be installed on what then should be a secure deck structure that is very importantly, level board to board. **This is the responsibility of the homeowner, builder or contractor.**



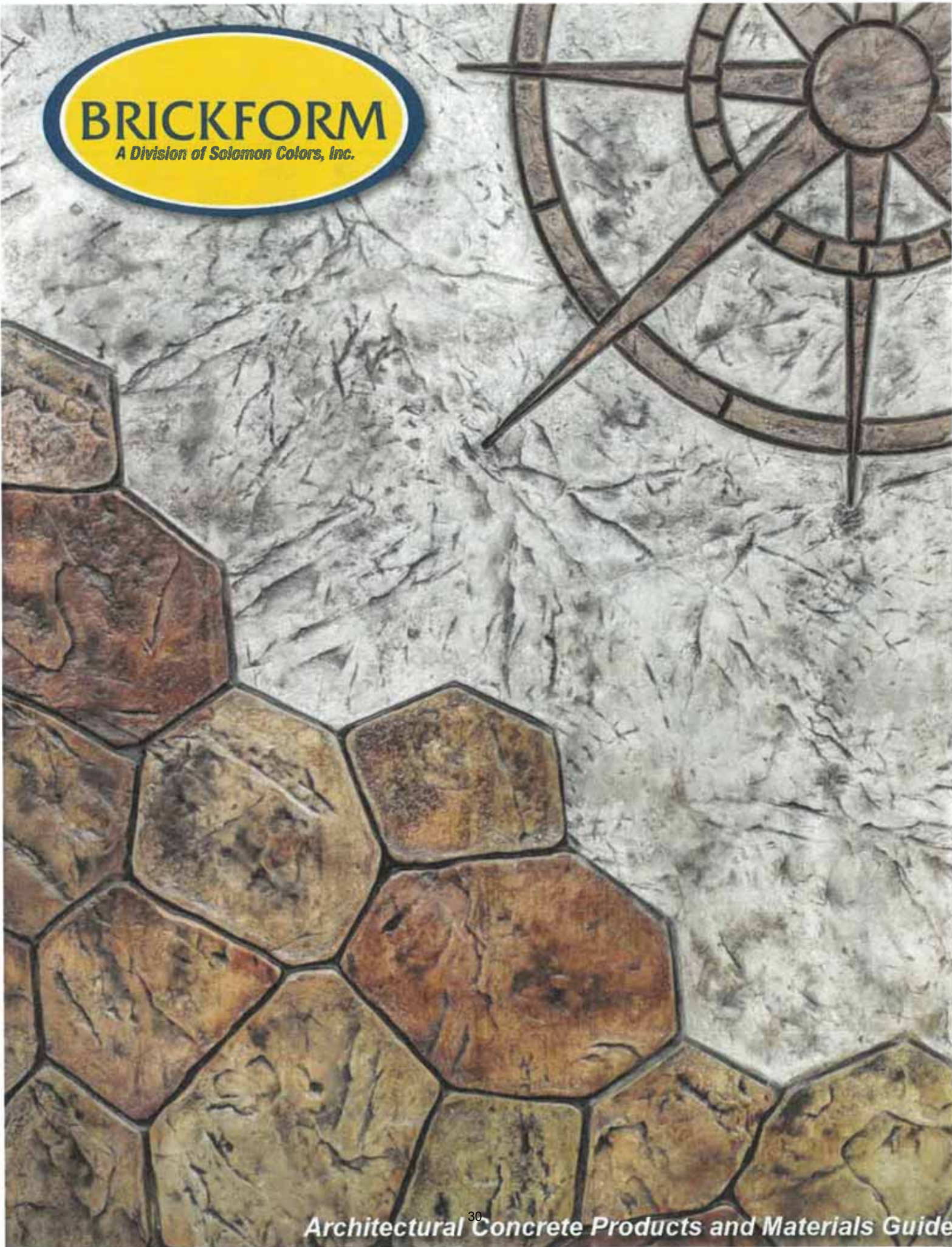
## **Attachment 3 Stamped/Colored Concrete Options**

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**BRICKFORM**

*A Division of Solomon Colors, Inc.*





**Find a Local Distributor**

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8:00a to 6:00p CST

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**Technical Service**

1-833-45COLOR

(1-833-452-6567)

**More Information Online**

[www.Brickform.com](http://www.Brickform.com)

[www.solomoncolors.com](http://www.solomoncolors.com)



**Table of Contents**

**Why Buy Brickform? ..... 3**

**Web/Training & Stamp App... 4**

**Texturing Products ..... 5-67**

    Seamless Texture Skins ..... 5-15

    Concrete Dimensions Stencils..... 16-21

    Paladiano Texture Mats ..... 22-28

    Stone Texture Mats ..... 29-42

    Slate Texture Mats ..... 43-47

    Brick Texture Mats ..... 47-49

    Wood Texture Mats ..... 50-53

    Tile Texture Mats..... 54

    Border Tools..... 55

    Creative Images Texture Mats ..... 56-59

    Contractors Choice ..... 60

    Gang Tools..... 61

    Overlay Texture Mats ..... 62

    Cal-Trans Series Texture Mats ..... 62

    Graphic Warning Texture Mats ..... 62

    Ultra-Liners ..... 63

    Step-Liners ..... 64-65

    Paper Stencils..... 66-67

    Imprint Tools ..... 68

    Texturing Accessories ..... 69

**Coloring Products ..... 70-87**

    Color Hardener ..... 70-71

**Sample Combinations foldout**

        Antique Release ..... 72-73

        FreestylePRO ..... 74

        Cem-Coat ..... 75

        Antique-It ..... 76

**Standard Color Selection Guide**

        DAY1 ..... 77

        Liquid Release ..... 78

        MagVibe..... 78

        Surface Deactivator ..... 79

        Brickform Powdered Color ..... 80

**Powdered Integral Color Card**

**Solomon Dry Pigment**

**Ready Mix Color Card**

                Solomon Colors Powdered Color ..... 81

                Blush-Tone Acid Stain..... 82-83

                E-Stain ..... 84-85

                ARTesian Stain ..... 86-87

**Polishing Products..... 88-91**

    Lythic ..... 88-89

    Pro Dye *PLUS* ..... 90-91

**Finishing & Maintenance 92-93**

    E-Etch..... 92

    Evaporation Retarder..... 92

    Neutra Clean..... 92

**Resurfacing Products ... 94-103**

    Stampable Overlay ..... 94-95

    Micro-Topping ..... 96-97

    SM Professional Grade..... 98-99

    Vertical Mix ..... 100-101

    Triple Seven Bond Coat..... 102

    Overlay Liquid Colorant ..... 102

    Turtle Set ..... 102

**Sealers..... 104-109**

    UreMax WB ..... 104

    Poly-Astic..... 104

    DecoPoxy ..... 104

    Stealth-Seal ..... 104

    Stealth-Seal Premium..... 104

    Gem Cure & Seal..... 105

    Satin Cure & Seal ..... 105

    Gem-Seal..... 106

    Poly-Seal ..... 106

**NEW** Poly-Tint..... 106

    Safety-Seal ..... 106

    Satin-Seal ..... 107

    Strip-It ..... 107

    Premium Acrylic Floor Finish ..... 107

    Tinta' Seal..... 108

    Traction Grip ..... 108

    Matte-Magic..... 108

    Sealer Properties Checklist ..... 109

**Systems Approach to Decorative Concrete.. 110-111**

## Seamless Skins

Brickform Seamless Skins™ are feathered-edged skins that produce continuous texture with no grout or joint lines. Brickform texture skins are available in ultra-flexible, classic flex, and standard flex materials, all designed with unsurpassed quality. Seamless skins are compatible with Brickform Stampable Overlay.



### **Rough Stone Texture (C)**

*A natural stone texture characterized by a continuous coarse surface with several distinguishing veins*



See page 15 for ordering information.



**Blue Stone Texture (A)**  
*A natural stone surface with a sandy texture that includes clefts which leave a layered appearance*



**Limestone Texture (B)**  
*A natural stone surface, similar to Veronica Stone but with a finer texture*



**Heavy Stone Texture (D)**  
*A rough, natural stone surface containing chips, fractures, pockmarks and veins*



**Sanded Slate Texture (E)**  
*Similar to our slate texture with the addition of a lightly sanded appearance across the entire texture field*



**Renaissance Slate Texture (F)**  
*A natural stone surface with a slight sandstone texture that includes various veins, typically running in a similar direction.*

See page 15 for ordering information.



**Chiseled Slate Texture (G)**

*A naturally laminated stone texture, split along parallel planes, hand-tooled to create a chipped, fragmented look.*



**Yucatan Texture (J)**

*A stone surface consisting of deep chips, pits and fractures creating a continuously undulating texture.*



**Roman Slate Texture (H)**

*A sanded slate stone surface that utilizes dips, ridges and veins to create a continuously changing texture across the entire surface.*



**Original Roman Slate Texture (I)**

*A smooth slate stone surface that utilizes dips, ridges and veins to create a continuously changing texture across the entire surface.*



**Sierra Seamless Texture (K)**

*A natural stone texture with an ocean-worn surface that combines rough, heavy, stone appearance with water-washed ridges, veins and clefts.*





**Texas Sea Shells (M)**  
*Random pieces of sea shells and coral of various sizes, shapes and types laid in a random fashion over a field of sand.*

See page 15 for ordering information.



**Rocky Mountain Stone Texture (L)**  
*A natural stone surface that incorporates a rough, uneven texture with naturally etched veins and ridges.*



**Veronica Stone (M)**  
*The design is similar Bush Stone, and appears to be created by a mason's bush hammer with a pitted and irregular surface.*



**Smooth Slate Texture (O)**  
*A naturally laminated stone texture, split along parallel planes, creating an uneven surface that incorporates various veins and ridges.*



**Desert Slate Texture (P)**  
*A simulated slate texture that combines numerous clefts and irregular surfaces to create the ideal concrete impressions.*



**Casa Rubia (Y)**  
*A unique hand-chiseled texture that yields a thatch-like appearance. Great for pool decks.*

See page 15 for ordering information.



**Elk Mountain Texture (Q)**  
*A consistent light stone texture, making it appealing for indoor and outdoor applications*



**Elk Mountain Texture (veined) (R)**  
*A light stone texture with well-placed fractures, making it appealing for indoor and outdoor applications*



**Regal Ashlar Slate (S)**  
*A robust texture with constantly changing ridges that bring a majestic and noble look to any surface*



**Cracked Mud (T)**  
*A bold, daring, natural earth texture with a surface that looks and feels real*



**Lunar Rock (U)**  
*An out-of-this-world look that will transform any hardscape. The surface boasts a meteor shower of texture with a variety of impacted stones.*



**Super Slate (V)**  
*A blended slate pattern with enhanced highlights.*



**Sidewalk Stone (W)**  
*A rustic blend of soft and strong textures giving a traditional feel to any surface.*



**Riviera Texture (X)**  
*A naturally laminated stone texture split along parallel planes creating an uneven surface that incorporates various veins and ridges.*



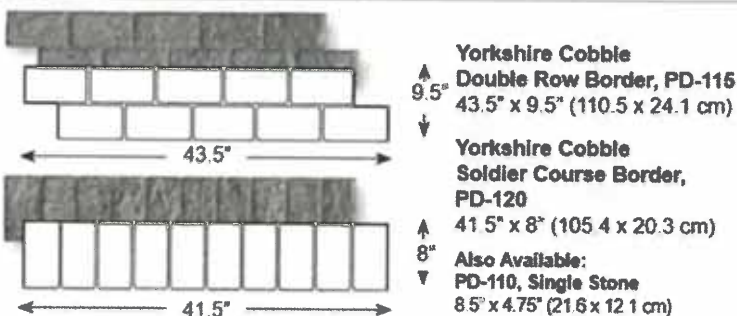
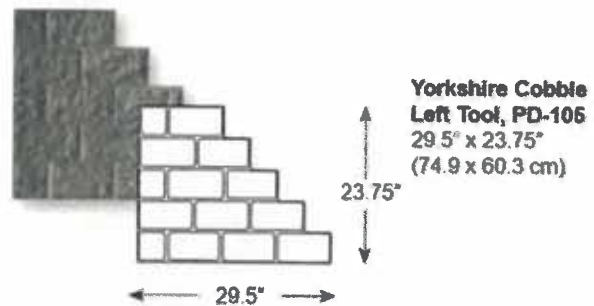
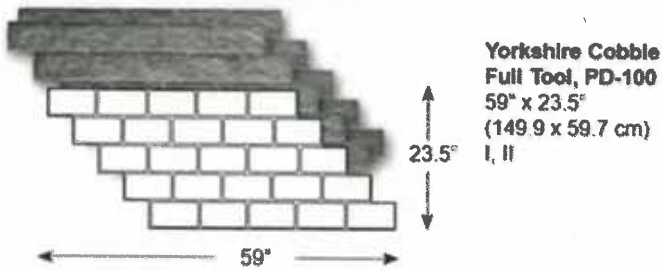
## Paladiano Texture Mats by Bob Harris

These speciality tools are cast from natural stones in historical regions with authentic textures and shapes that are pleasing to the eye from all angles. England, Italy, Bulgaria, Greece, Cyprus and France are the locations which inspired the "Wonders of the World" stamping tool line.

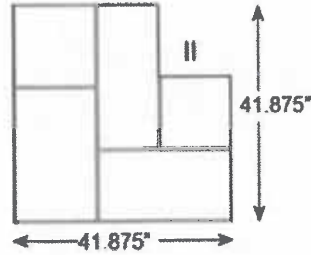
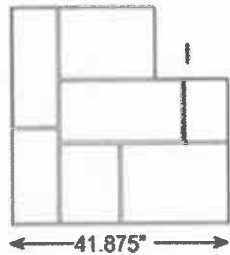


Part #	YORKSHIRE COBBLE	Size	Weight	# per set
PD-100	Full tools	59" x 23.5"	22 lbs	6
PD-105	Left	29.5" x 23.75"	11 lbs	2
PD-110	Single Stone	8.5" x 4.75"	1 lb	3
PD-115	Double Row Border	43.5" x 9.5"	9 lbs	1
PD-120	Soldier Course Border	41.5" x 8"	7 lbs	1
PD-125	2x2 skin	24" x 24"	4 lbs	1
PD-130	1x1 skin	12" x 12"	1 lb	1
PD-100F	Full Floppy	59" x 23.5"	16 lbs	1
FM-6570	Touch-up wheel			1
PD-100S	Full set YORKSHIRE COBBLE with Instructional DVD			17

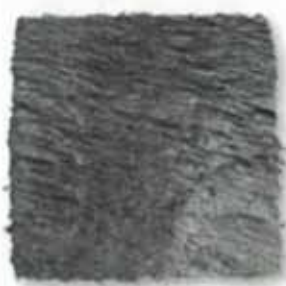
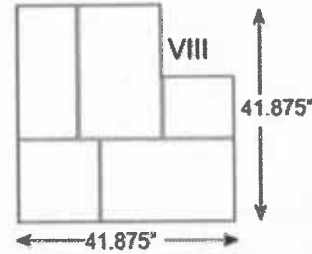
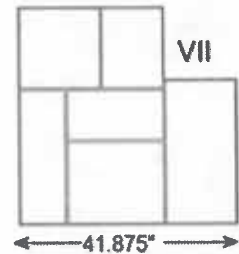
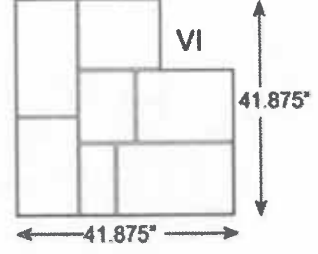
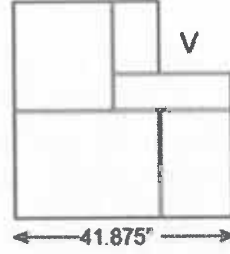
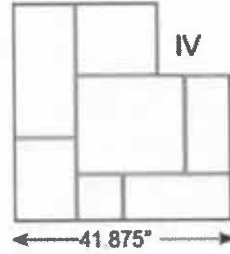
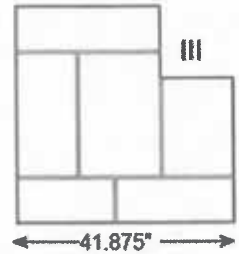
### Yorkshire Cobble



# Fractured Cyprus Slate



**Fractured Cyprus Slate  
Full Tool, PD-600**  
41.875" x 41.875"  
(106.4 x 106.4 cm)  
I, II, III, IV, V, VI, VII, VIII



**Fractured Cyprus Slate  
Small Skin, PD-605**  
24" x 24"  
(61 x 61 cm)

**Also Available:**  
PD-610, Extra-Small Skin  
12" x 12" (30.5 x 30.5 cm)

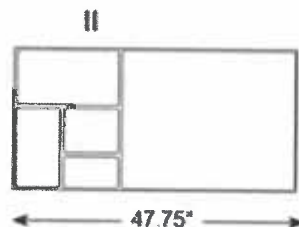
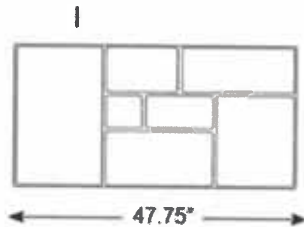


Part #	FRACTURED CYPRUS SLATE	Size	Weight	# per set
PD-600	Full tool	41.875" x 41.875"	33 lbs	8
PD-605	2x2 skin	24" x 24"	4 lbs	2
PD-610	1x1 skin	12" x 12"	1 lb	1
PD-600F	Full Floppy	41.875" x 41.875"	20 lbs	1
FM-6520	Touch-up wheel			1
PD-600S	Full set FRACTURED CYPRUS SLATE with Instructional DVD			13

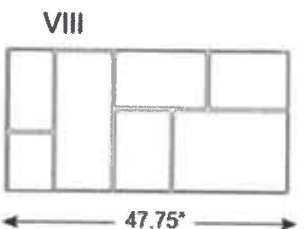
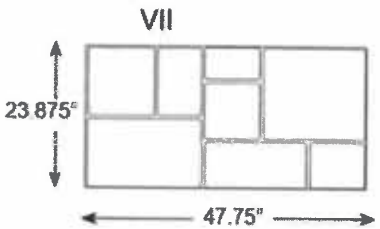
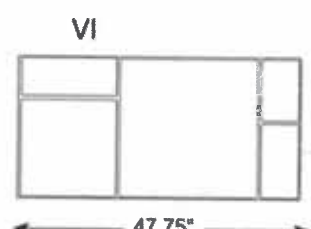
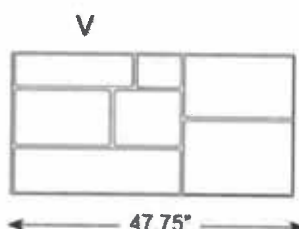
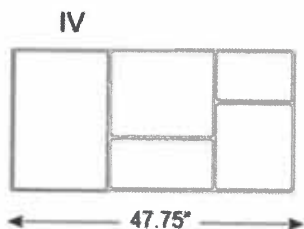
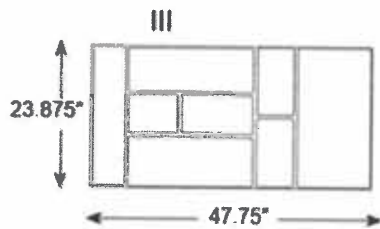


Part #	STONES OF ATHENS	Size	Weight	# per set
PD-400	Full tool	47.75" x 23.875"	24 lbs	6
PD-405	2x2 skin	24" x 24"	4 lbs	3
PD-410	1x1 skin	12" x 12"	1 lb	1
PD-400F	Full Floppy	47.75" x 23.875"	17 lbs	2
FM-6570	Touch-up wheel			1
PD-400S	Full set STONES OF ATHENS with Instructional DVD			15

**Stones of Athens** 



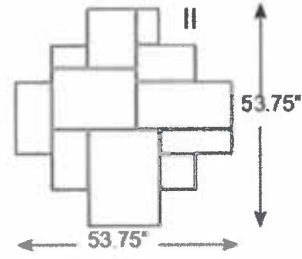
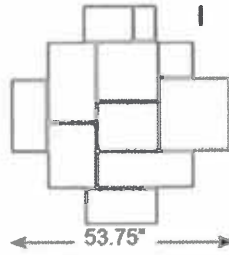
**Stones of Athens Full Tool, PD-400**  
 47.75" x 23.875"  
 (121.3 x 60.6 cm)  
 I, II, III, IV, V, VI, VII, VIII



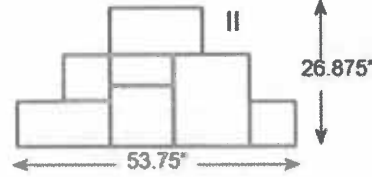
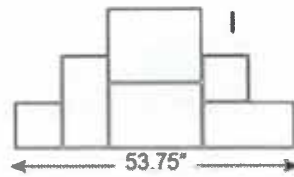
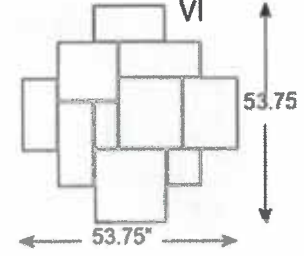
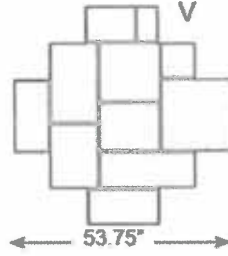
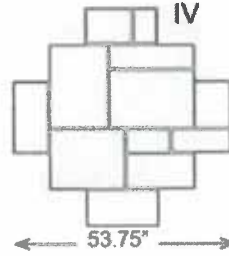
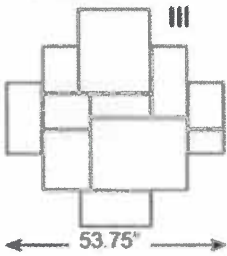
**Stones of Athens Small Skin, PD-405**  
 24" x 24"  
 (61 x 61 cm)

**Also Available:**  
 PD-410, Extra-Small Skin  
 12" x 12" (30.5 x 30.5 cm)

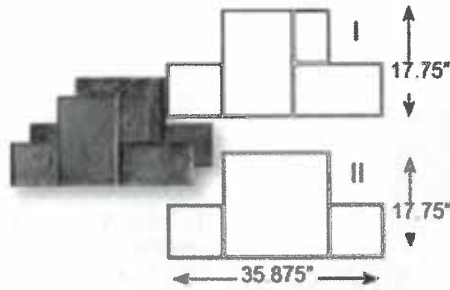
# Rotating Venetian Marble



**Rotating Venetian Marble Full Tool, PD-500**  
 53.75" x 53.75"  
 (136.5 x 136.5 cm)  
 I, II, III, IV, V, VI



**Rotating Venetian Marble Half Tool, PD-505**  
 53.75" x 26.875"  
 (106.4 x 68.3 cm)  
 I, II



**Rotating Venetian Marble Quarter Tool, PD-510**  
 35.875" x 17.75"  
 (91.1 x 45.1 cm)  
 I, II



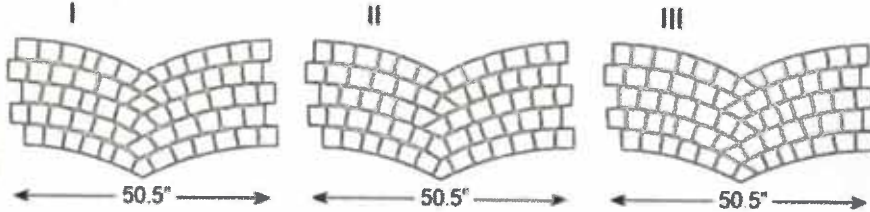
**Pavimento of Paris Small Skin, PD-515**  
 24" x 24"  
 (61 x 61 cm)

**Also Available:**  
 PD-520, Extra-Small Skin  
 12" x 12" (30.5 x 30.5 cm)

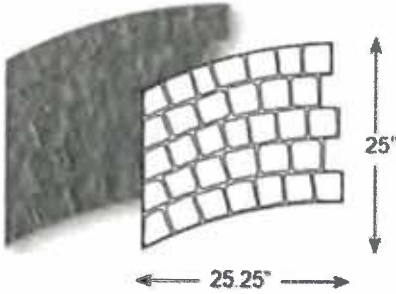


Part #	ROTATING VENETIAN MARBLE	Size	Weight	# per set
PD-500	Full tool	53.75" x 53.75"	30 lbs	6
PD-505	Half Tool	53.75" x 26.875"	20 lbs	2
PD-510	1/4 Tool	35.875" x 17.75"	10 lbs	2
PD-515	2x2 skin	24" x 24"	4 lbs	2
PD-520	1x1 skin	12" x 12"	1 lb	1
PD-500F	Full Floppy	53.75" x 53.75"	25 lbs	1
FM-6540	Touch-up wheel			1
PD-500S	Full set ROTATING VENETIAN MARBLE with Instructional DVD			15

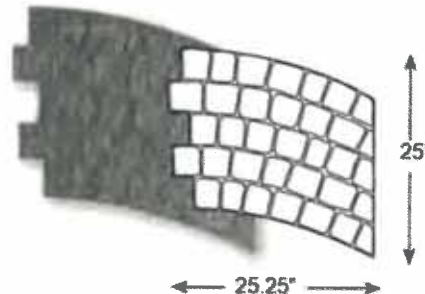
# Pavimento of Paris



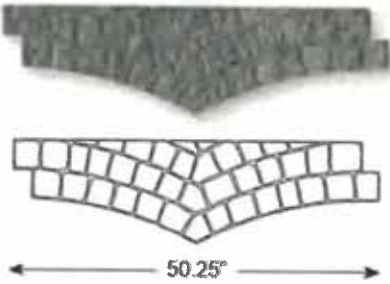
**Pavimento of Paris**  
**Full Tool, PD-200**  
 50.5" x 25"  
 (128.3 x 63.5 cm)  
 I, II, III



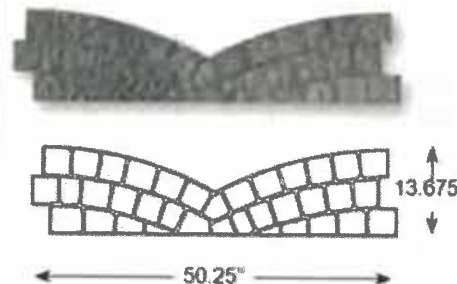
**Pavimento of Paris**  
**Half Tool, Left, PD-206**  
 25.25" x 25"  
 (64.1 x 63.5 cm)



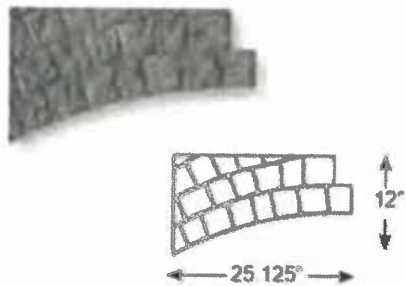
**Pavimento of Paris**  
**Half Tool, Right, PD-210**  
 25.25" x 25"  
 (64.1 x 63.5 cm)



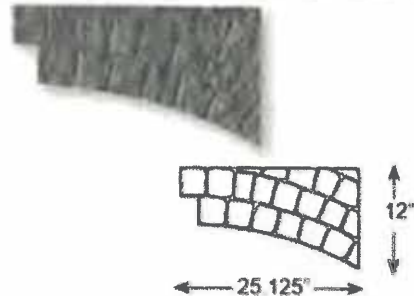
**Pavimento of Paris**  
**Half Tool, Top, PD-216**  
 50.25" x 12"  
 (127.6 x 30.5 cm)



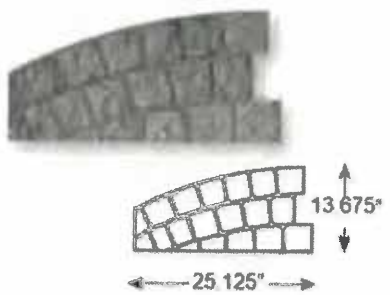
**Pavimento of Paris**  
**Half Tool, Bottom, PD-220**  
 50.25" x 13.675"  
 (127.6 x 34.7 cm)



**Pavimento of Paris**  
**Quarter Tool, Top Left, PD-217**  
 25.125" x 12"  
 (63.8 x 30.5 cm)



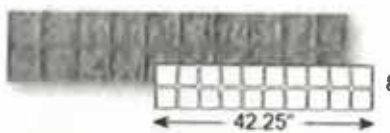
**Pavimento of Paris**  
**Quarter Tool, Top Right, PD-216**  
 25.125" x 12"



**Pavimento of Paris**  
**Quarter Tool, Bottom Left, PD-222**  
 25.125" x 13.675"  
 (63.8 x 34.7 cm)



**Pavimento of Paris**  
**Quarter Tool, Bottom Right, PD-221**  
 25.125" x 13.675"  
 (63.8 x 34.7 cm)



**Pavimento of Paris**  
**Stacked Bond, PD-230**  
 42.25" x 8.5" (107.3 x 21.6 cm)



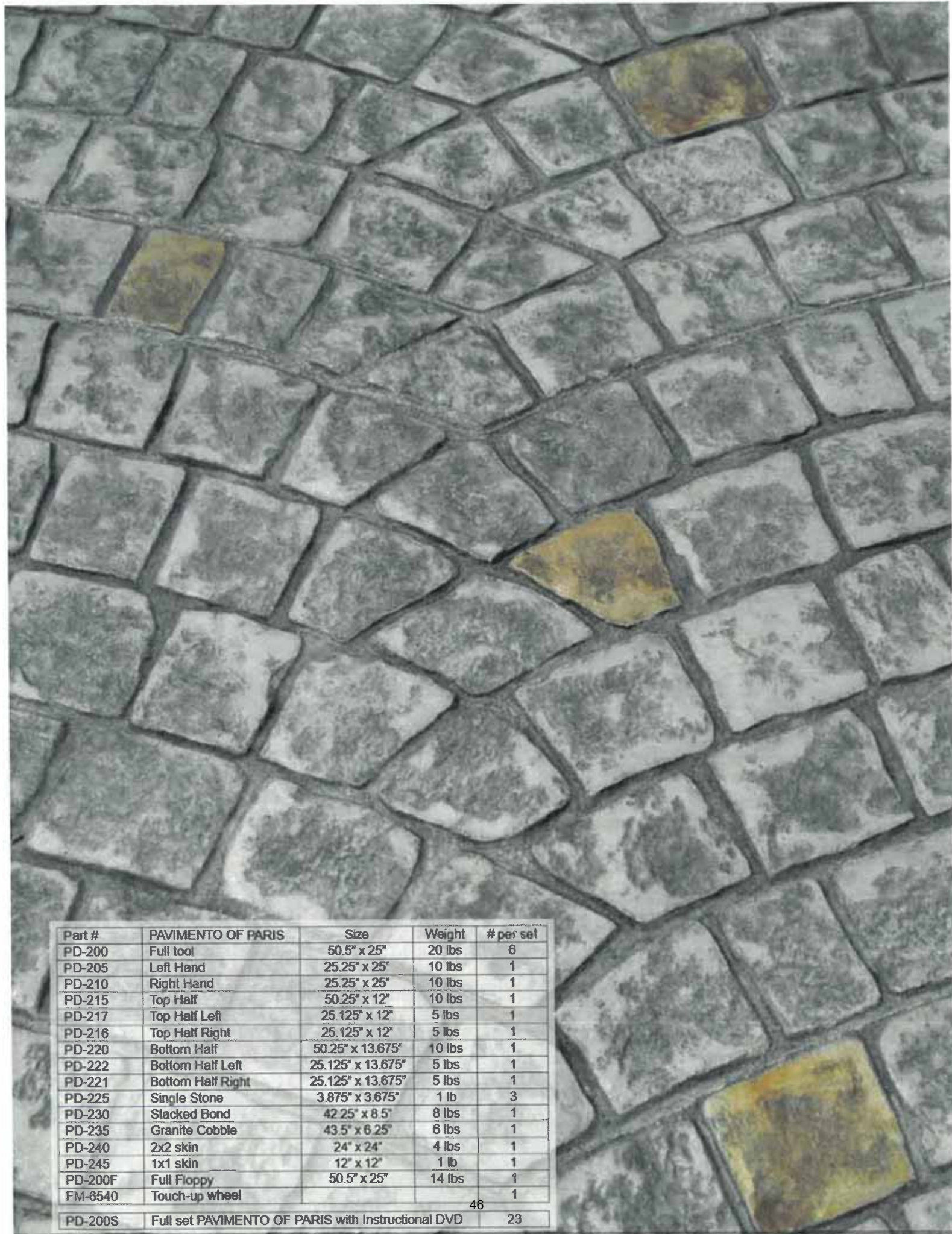
**Pavimento of Paris**  
**Granite Cobble, PD-235**  
 43.5" x 6.25" (110.5 x 15.9 cm)

**Also Available:**  
**PD-226, Single Stone**  
 3.875" x 3.675" (9.8 x 9.3 cm)



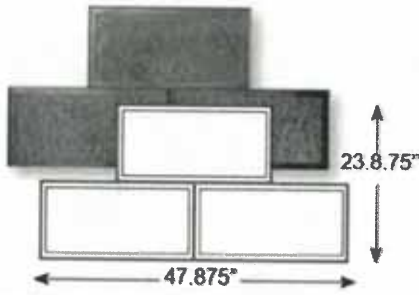
**Pavimento of Paris**  
**Small Skin, PD-240**  
 24" x 24"  
 (61 x 61 cm)

**Also Available:**  
**PD-246, Extra-Small Skin**  
 12" x 12" (30.5 x 30.5 cm)

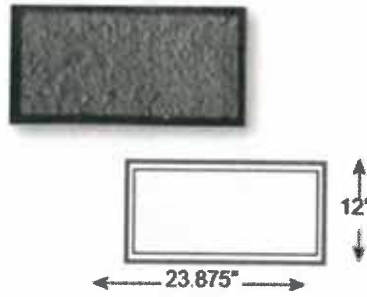


Part #	PAVIMENTO OF PARIS	Size	Weight	# per set
PD-200	Full tool	50.5" x 25"	20 lbs	6
PD-205	Left Hand	25.25" x 25"	10 lbs	1
PD-210	Right Hand	25.25" x 25"	10 lbs	1
PD-215	Top Half	50.25" x 12"	10 lbs	1
PD-217	Top Half Left	25.125" x 12"	5 lbs	1
PD-216	Top Half Right	25.125" x 12"	5 lbs	1
PD-220	Bottom Half	50.25" x 13.675"	10 lbs	1
PD-222	Bottom Half Left	25.125" x 13.675"	5 lbs	1
PD-221	Bottom Half Right	25.125" x 13.675"	5 lbs	1
PD-225	Single Stone	3.875" x 3.675"	1 lb	3
PD-230	Stacked Bond	42.25" x 8.5"	8 lbs	1
PD-235	Granite Cobble	43.5" x 6.25"	6 lbs	1
PD-240	2x2 skin	24" x 24"	4 lbs	1
PD-245	1x1 skin	12" x 12"	1 lb	1
PD-200F	Full Floppy	50.5" x 25"	14 lbs	1
FM-6540	Touch-up wheel			1
PD-200S	Full set PAVIMENTO OF PARIS with Instructional DVD			23

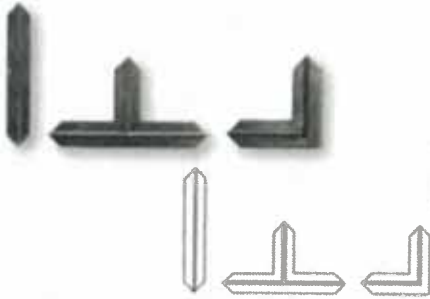
# Hammered Sofia Stone



**Hammered Sofia Stone  
Full Tool, PD-300**  
47.875" x 23.875"  
(121.6 x 60.6 cm)



**Hammered Sofia Stone  
Single Stone, PD-305**  
23.875" x 12"  
(60.6 x 34.7 cm)



**Hammered Sofia Stone  
Joint Tools, PD-310**  
Assorted sizes



**Hammered Sofia Stone  
Small Skin, PD-315**  
24" x 24"  
(61 x 61 cm)

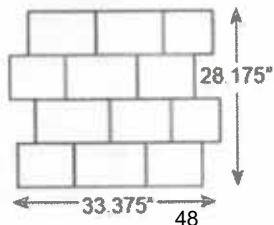
**Also Available:**  
PD-320, Extra-Small Skin  
12" x 12" (30.5 x 30.5 cm)



Part #	HAMMERED SOFIA STONE	Size	Weight	# per set
PD-300	Full tool	47.875" x 23.875"	18 lbs	8
PD-305	Single Stone	23.875" x 12"	6 lbs	2
PD-310	Joint tools	assorted	1 lb	3
PD-315	2x2 skin	24" x 24"	2 lbs	1
PD-320	1x1 skin	12" x 12"	1 lb	1
PD-300F	Full Floppy	47.875" x 23.875"	12 lbs	1
47 PD-300S	Full set HAMMERED SOFIA STONE with Instructional DVD			16

## Stone Texture Mats

Whether you want the look of granite, blue stone, old English cobblestone, Mexican tile, or pavers, Brickform offers an array of texture mats that simulate a broad range of natural stone materials. Achieving these beautiful results with Brickform precision tools is often more affordable and easier than it is with natural materials. Brickform has a stone texture tool ready to complement any design theme – from an Italian Villa to an English Country Garden.



### **Large Cobble, FM-680**

28.125" x 33.375" (71.43 x 84.77 cm) Blue

Larger rough-cut cobblestones

Matching skin/touch-up wheel Smooth Slate/TW-1

Joint width 1/4"-1/2", depth 3/8"

Stone size 6 1/2"-6 3/4" wide, 7 1/2"-11 1/4" long





**Tuscany Stone, FM-1775**

28" x 40" (71.12 x 101.60 cm)

Red, Yellow and Blue

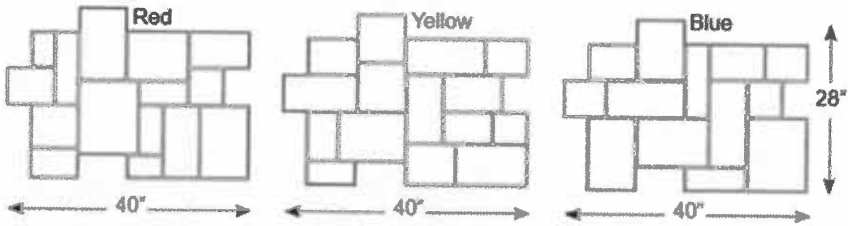
A large tool with a stone texture and interlocking joints on all four sides

Matching skin/touch-up wheel: Rough Stone/TW-5

Joint 1/4" wide, 3/16" deep

Stone sizes vary from 3 1/8" x 7 3/4" to 3 1/8" x 9 1/4"

Also Available: Tuscany Border, FM-1785



**Rough Cut Ashlar, FM-100 S/O**

24" x 24" (60.96 x 60.96 cm)

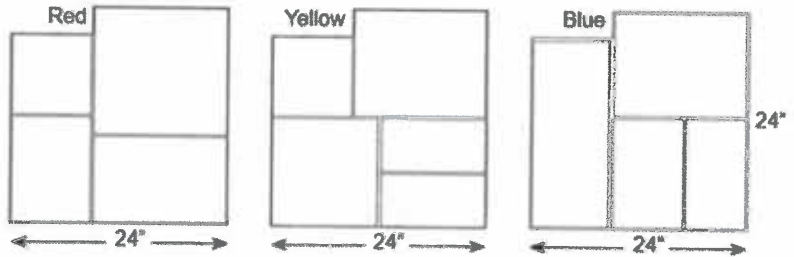
Red, Yellow and Blue

Rough hand-tooled stones arranged in an Ashlar pattern

Matching skin/touch-up wheel: Rough Stone/TW-2

Grout 1/4"-3/8" wide, 1/4" deep

Available as gang tool, see page 61 for details



**Australian Ashlar Cut Stone, FM-150 S/O**

23.25" x 23.25" (59.05 x 59.05 cm)

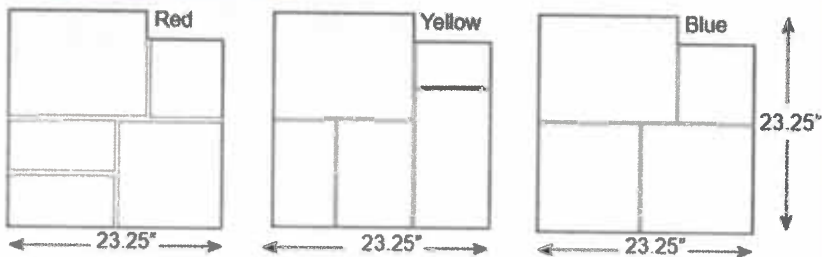
Red, Yellow and Blue

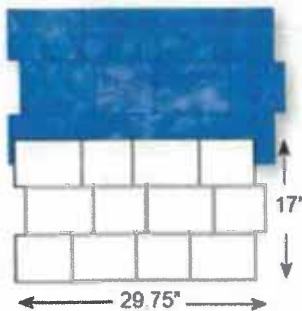
A coarse rugged Blue Stone set in an Ashlar pattern

Matching touch-up wheel: TW-1

Grout 1/4"-3/4" wide

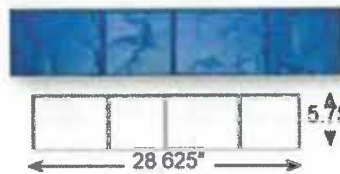
Grout 1/8" deep





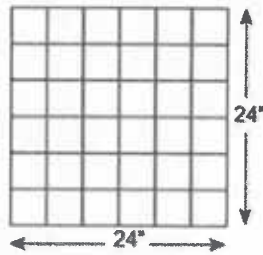
**London Cobble, FM-540 S/O**  
 17" x 29.75" (43.18 x 75.56 cm) Blue  
 A traditional lightly textured cobblestone pattern  
 Matching skin/touch-up wheel. Slate/TW-1  
 Joint 1/8"-1/4" wide, 1/4" deep  
 Stone size 5 1/2"-5 3/4" wide, 6"-8" long

Available as gang tool, see page 59 for details  
 Available as Contractors Choice, EF-540.

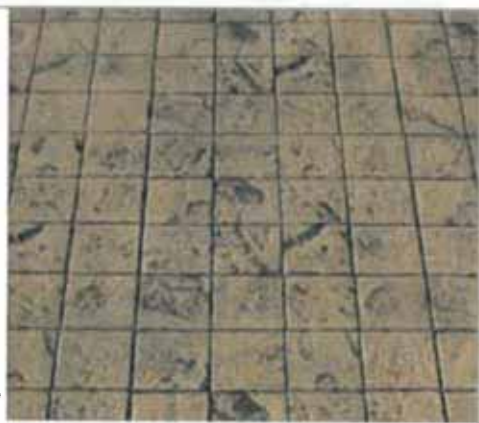
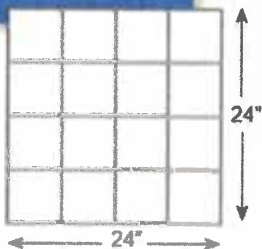


**London Cobble Strip, FM-560 S/O**  
 5.75" x 28.625"  
 (14.605 x 72.71 cm) Blue  
 Matching skin/touch-up wheel. Slate/TW-1  
 Joint 1/8"-1/4" wide, 1/4" deep  
 Stone size 5 1/2"-5 3/4" wide, 5 1/4"-8" long

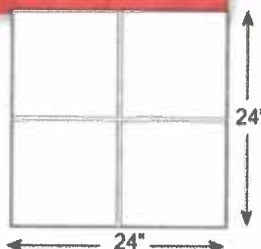
A lightly textured cobblestone pattern in a single strip



**4" x 4" Slate Sets, FM-200 S/O**  
 24" x 24" (60.96 x 60.96 cm) Red  
 Slate texture with a hand-chiseled edge  
 Matching skin/touch-up wheel: Smooth Slate/TW-1  
 Joint size 1/8"-1/4" wide  
 Stone size 4"



**6" x 6" Granite Sets, FM-250 S/O**  
 24" x 24" (60.96 x 60.96 cm) Blue  
 Rough Stone texture with a hand-chiseled edge  
 Matching skin/touch-up wheel: Rough Stone/TW-1  
 Joint size 3/8"-1/2" wide, 1/4" deep  
 Stone size 5 3/4"



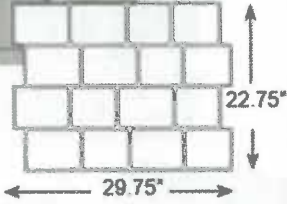
**12" x 12" Cut Stone, FM-300 S/O**  
 24" x 24" (60.96 x 60.96 cm) Red  
 A rough natural stone, hand-tooled to create a chipped and fragmented texture  
 Matching skin/touch-up wheel: Smooth Slate/TW-1  
 Joint size 1/4"-3/4" wide, 3/8" deep  
 Stone size 12"



**Windsor Cobble, FM-500 S/O**  
 22.75" x 29.75" (57.78 x 75.56 cm) Blue

*A traditional cobblestone pattern with wider joints*

Matching skin/touch-up wheel: Smooth Slate/TW-2  
 Joint size 1/4"-3/4" wide, 1/2" deep  
 Stone size 5 1/4"-5 1/2" wide, 6"-7 1/4" long

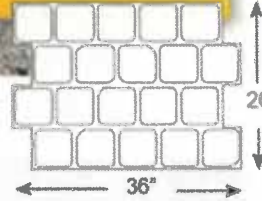


**6" x 6" Edinburgh Cobble, FM-520**

26" x 36" (66.04 x 91.44 cm) Yellow

*A rugged weathered cobblestone pattern*

Matching touch-up wheel: TW-7  
 Joint size 1/2"-3/4" wide, 1/2" deep  
 Stone size 5 3/4"-6" wide, 5 7/8"-6 1/4" long  
 Available as Contractors Choice, EF-520



**Cheshire Cobble**

(Smooth Grout), FM-525

20.5" x 46" (52.07 x 116.84 cm) Red

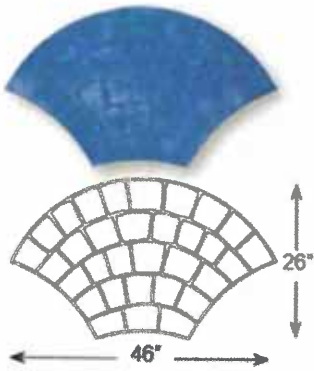
*A traditional cobblestone pattern with smooth, ungrouted joints*

Matching touch-up wheel: TW-1

Joint size 1/4"-3/4" wide, 3/8" deep

Stone size 4 3/4"-4 1/4" wide, 5 1/4"-9 1/4" long

**HINT! Matching thin mats "flopies" are available for all Brickform Texture Mats**



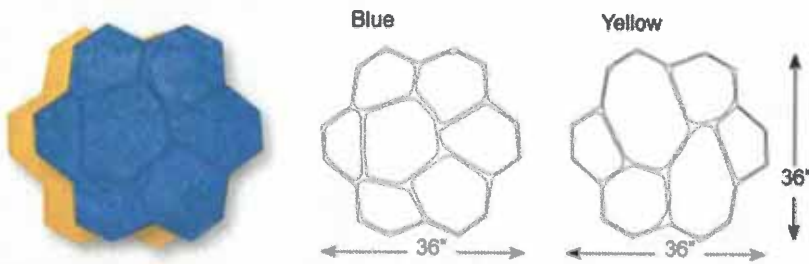
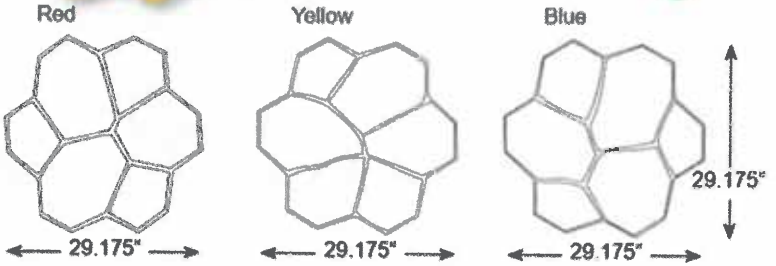
**European Fan, FM-650 S/O**  
 26" x 46" (66.04 x 116.84 cm) Blue  
 An elegant European fan pattern, consisting of slightly curved rectangular slate stones  
 Matching skin/touch-up wheel: Smooth Slate/TW-2  
 Joint size 1/4"-1/2" wide, 3/8" deep  
 Stone size 3 1/2"-5 1/2" wide, 4"-6 1/2" long

Available as Contractors Choice, EF-650 



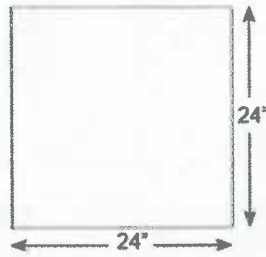
**Random Stone, FM-700**  
 29.125" x 29.125" (73.97 x 73.97 cm) Red, Yellow and Blue. Heavily textured random fieldstones  
 Matching skin/touch-up wheel: Rough Stone/TW-2  
 Joint size 1/4"-3/4" wide, 3/8" deep  
 Stone size 7"-11 1/2" wide, 10"-15" long

Available as Contractors Choice, EF-700 



**Large Random Stone, FM-750**  
 36" x 36" (91.44 x 91.44 cm) Yellow and Blue  
 Similar to Random Stone but 40% larger  
 Matching skin/touch-up wheel: Rough Stone/TW-7  
 Joint size 1/2"-1" wide, 3/8" deep  
 Stone size 7"-14" wide, 13"-20 1/2" long





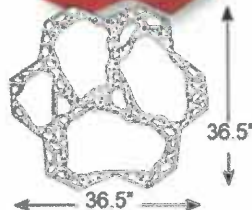
**24" x 24" Yucatan Stone, FM-1100 S/O**

24" x 24" (60.96 x 60.96 cm) Blue  
 A single square of rough Yucatan stone texture  
 Matching skin/touch-up wheel: Yucatan/TW-5  
 Surrounding joint size 1/4" wide, 1/4" deep



**4" x 8" Cut Stone Border, FM-1225**  
 8.375" x 33.5" (21.27 x 85.09 cm) Red  
 A border of slate rectangles laid side-by-side  
 Matching skin/touch-up wheel: Smooth Slate/TW-3  
 Joint size 1/4" wide, 1/4" deep  
 Stone size 4" wide, 8" long

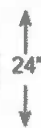
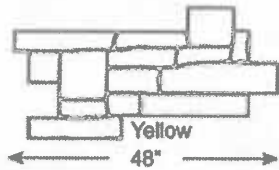
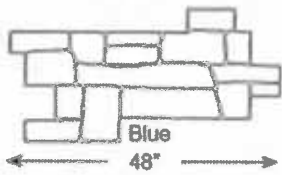
**Also Available: Cut Stone Single Brick**  
 FM-1284, 4" x 8"



**Patio Stone, FM-1295 S/O**

36.5" x 36.5" (92.71 x 92.71 cm) Red  
 A roughly textured arrangement of random stones  
 Joint size 1/2"-2 1/2" wide

**HINT! Matching thin mats "flopies" are available for all Brickform Texture Mats**



**Roman Cobble, FM-1465**

48" x 24" (121.9 x 61cm)

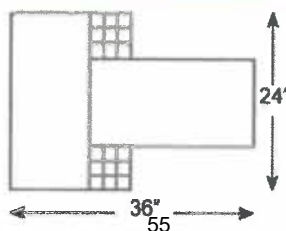
Blue and Yellow

*A historic reproduction of cobbles that have a variety of stone shapes for old world appeal.*

Matching skin/touch-up wheel:

Rough Stone/TW-6

Joint size 1/8"-1/2" wide, 1/8"-3/8" deep



**Basket Weave**

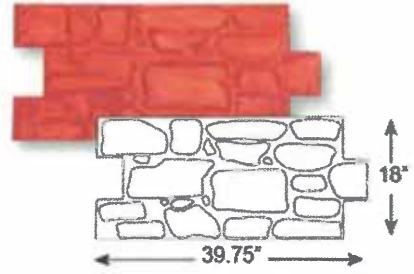
**New Stone**

**Weave Look, FM-460**

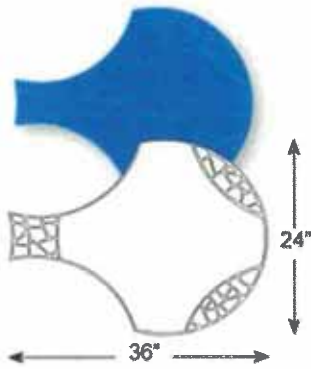
36" x 24" (91.44 x 61cm) Blue

Matching skin Regal Ashlar Slate

*S/O - Compatible with Brickform Stampable Overlay*



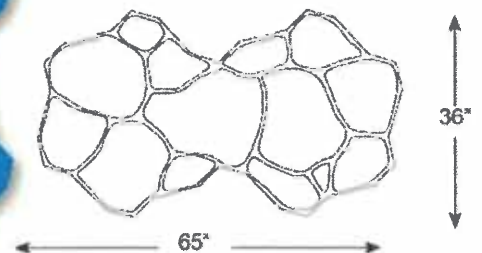
**English Field Stone, FM-1350**  
 18" x 39.75" (45.72 x 100.965 cm) Red  
 A natural arrangement of river rock  
 emulating the look of smooth English fieldstones  
 Matching touch-up wheel: TW-6  
 Joint size 1/4"-1" wide, 1/4" deep  
 Stone size 1"-6" wide, 1"-11 1/4" long



**Circulos Del Sol, FM-640**  
 24" x 36" (60.96 x 116.84 cm)  
 Blue  
 Matching skin: Regal Ashlar Slate  
 Also Available:  
 FM-640LR, Left/Right  
 FM-640TB, Top/Bottom



**Lincoln Trail Large Random, FM-760**  
 65" x 36" (165.1 x 91cm)  
 Blue







59.75"

59.7557"

**Lotus Blossom Medallion, FM-2492**  
60" x 60" (152.4 x 152.4 cm) Yellow  
Joint size 3/8" wide, 3/8"-1/2" deep

## Slate Texture Mats

Slate is a sleek, metamorphic rock with fine veining patterns. The grain pattern of slate makes it a common resource for tile flooring because it is easily split into thin sheets. Brickform slate texture tools recreate the elegant, clean design of slate without the expense and hassle of installing fragile natural stones. Brickform Ashlar texture mats reflect the handcrafted, intricately-fitting stones of historic Ashlar configurations.



### 36" Ashlar Cut Slate, FM-3120 S/O

36" x 36" (91.44 x 91.44 cm)

Red, Yellow and Blue

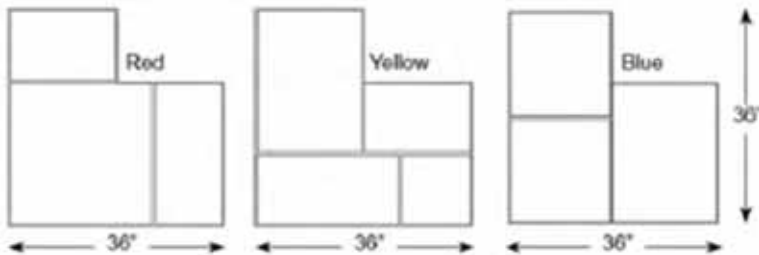
Stones with a slate surface in an Ashlar pattern

Matching skin/touch-up wheel.

Smooth Slate/TW-5

Joint size 1/4"-1/2" wide, 1/4" deep

Available as Contractors Choice, EF-3120



### Ashlar Cut Slate, FM-3125 S/O

23.125" x 23.125" (58.74 x 58.74 cm)

Red, Yellow and Blue

A naturally laminated stone texture split along parallel

planes, hand-tooled to create a more pronounced,

chipped, fragmented texture with small, deep joints

Matching skin/touch-up wheel Smooth Slate/TW-1

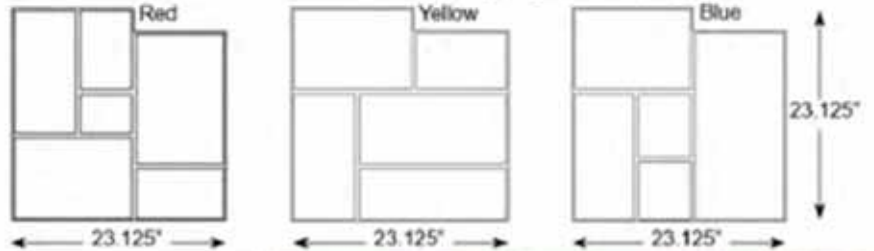
Joint size 1/4"-1/2" wide, 1/4" deep

Stone size 5 1/4"-9 1/4" wide, 6 1/4"-20 1/4" long

Available as Contractors Choice, EF-3125



\* Available as gang tool, see page 61 for details.



### Aidan Ashlar, FM-3130 S/O

23.125" x 23.125" (58.74 x 58.74 cm)

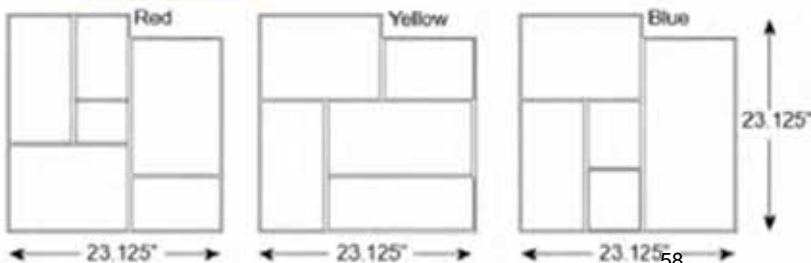
Red, Yellow and Blue

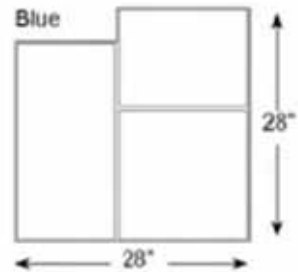
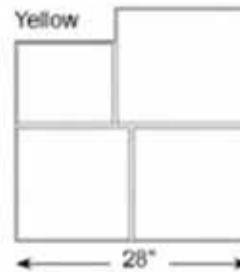
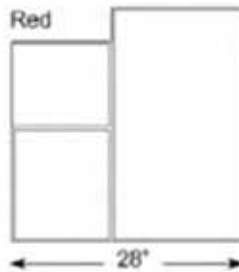
Similar to the Ashlar Cut Slate but with broad shallow joints

Matching skin/touch-up wheel: Smooth Slate/TW-5

Joint size 1/4"-3/4" wide, 1/2" deep

Stone size 5 1/4"-9 1/4" wide, 6 1/4"-20 1/4" long

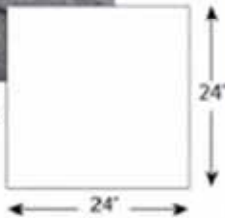
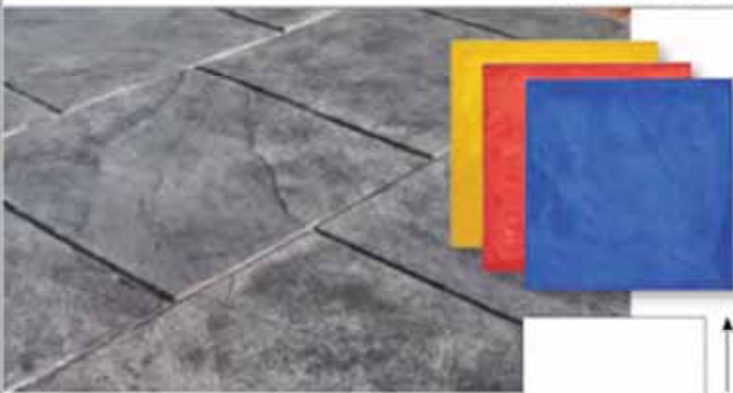




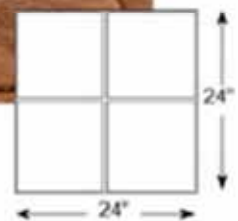
**Large Ashlar Cut Slate**  
**FM-3150 S/O**  
 28" x 28" (71.12 x 71.12 cm)  
 Red, Yellow and Blue

Similar to Ashlar Cut Slate but the overall size is larger, with a softer texture  
 Matching skin/touch-up wheel: Smooth Slate/TW-5  
 Joint size 1/4"-1/4" wide, 1/2" deep  
 Stone size 10"-16" wide, 12"-26" long

Available as Contractors Choice, EF-3150



**24" x 24" Slate Texture, FM-3200 S/O**  
 24" x 24" (60.96 x 60.96 cm)  
 Red, Yellow and Blue  
 One complete stone with hand-tooled slate texture  
 Matching skin/touch-up wheel: Smooth Slate/TW-5

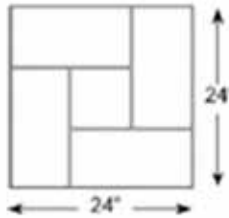


**12" x 12" Slate, FM-3250 S/O**  
 24" x 24" (60.96 x 60.96 cm) Blue  
 Slate tiles laid in a parallel pattern  
 Matching skin/touch-up wheel: Smooth Slate/TW-5  
 Joint size 1/4"-1/2" wide, 1/2" deep  
 Stone size 12" square



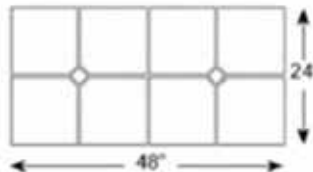
**12" x 12" Slate Border**  
**FM-3300 S/O**  
 12" x 48" (30.48 x 121.92 cm) Red  
 A border of four 12" slate squares in a row  
 Matching skin/touch-up wheel: Smooth Slate/TW-5  
 Joint size 1/4" wide, 1/2" deep

S/O - Compatible with Brickform Stampable Overlay



**California Weave, FM-3500 S/O**

24" x 24" (60.96 x 60.96 cm) Red  
 Slate bricks form a woven pattern around a slate square.  
 Matching skin/touch-up wheel. Smooth Slate/TW-5  
 Joint size 1/2"-1/4" wide, 1/8" deep  
 Stone sizes 8"x8" and 6"x16"



**Slate with Diamond Inset**

**FM-3350 S/O**  
 24" x 48" (60.96 x 121.92 cm) Blue  
 An elegant arrangement of Italian slate, with diamond-shaped  
 insets for added detail  
 Matching skin/touch-up wheel. Smooth Slate/TW-5  
 Joint size 1/2" wide, 1/8" deep  
 Stone size 12" square, diamond inset size 4" square



**Walkway Slate, FM-3400 S/O**

18" x 36" (45.72 x 91.44 cm)

\*Red, Yellow and Blue

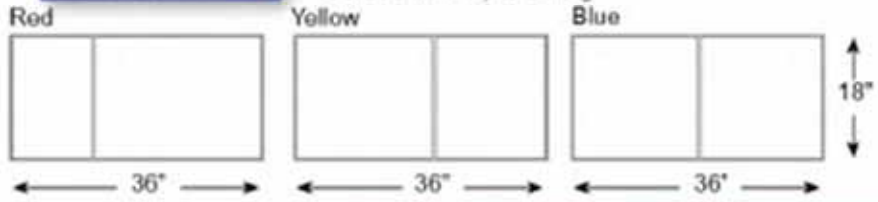
\*Stone sizes vary

Square and rectangular slate tiles, of various sizes, set in parallel rows.

Matching skin/touch-up wheel: Smooth Slate/TW-5

Joint size 1/2"-5/8" wide, 1/2" deep

Stone size 18" wide, 12"-24" long



**Grand Ashlar, FM-3675**

36" x 36" (91.44 x 91.44 cm)

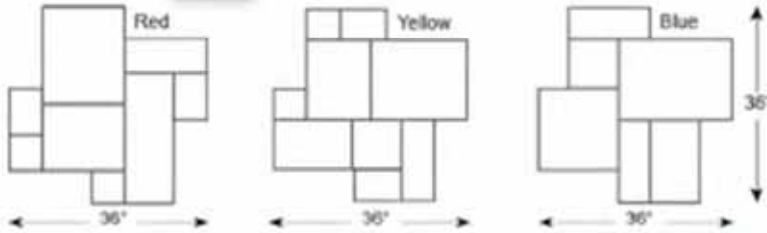
Red, Yellow and Blue

Stones of various shapes and sizes laid in an Ashlar pattern, with a slate texture

Matching touch-up wheel: TW-5

Joint size 1/4"-1/2" wide, 1/4" deep

Stone size 6"-15" wide, 6"-22" long



**New England Basket Weave FM-3600 S/O**

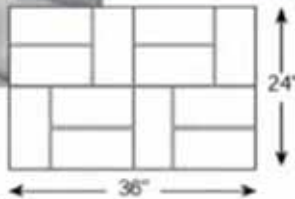
24" x 36" (60.96 x 91.44 cm) Blue

Hand-tooled slate in a basket weave pattern

Matching skin/touch-up wheel: Smooth Slate/TW-5

Joint size 1/2"-5/8" wide, 1/2" deep

Stone size 6" wide, 12" long



**Herringbone Slate, FM-3550 S/O**

32" x 40" (81.28 x 101.6 cm) Blue

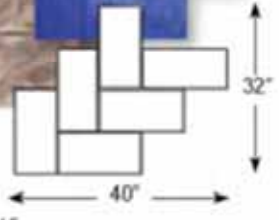
A classic herringbone pattern of slate stones

laid at right angles to each other

Matching skin/touch-up wheel: Smooth Slate/TW-5

Joint size 1/2"-5/8" wide, 1/2" deep

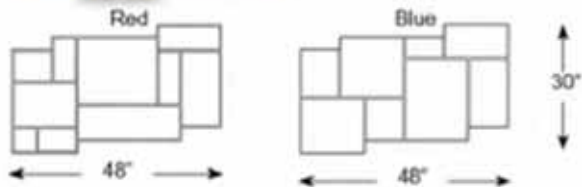
Stone size 8" wide, 16" long



**American Ashlar Slate, FM-3160**

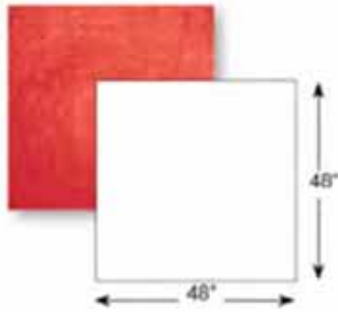
48" x 30" (121.9 x 61cm)

Red and Blue



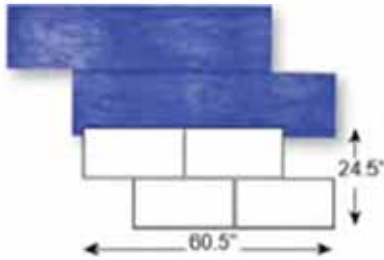
S/O - Compatible with Brickform Stampable Overlay


**Slate Texture Mats** *Made-to-Order*  *2-week production lead time*



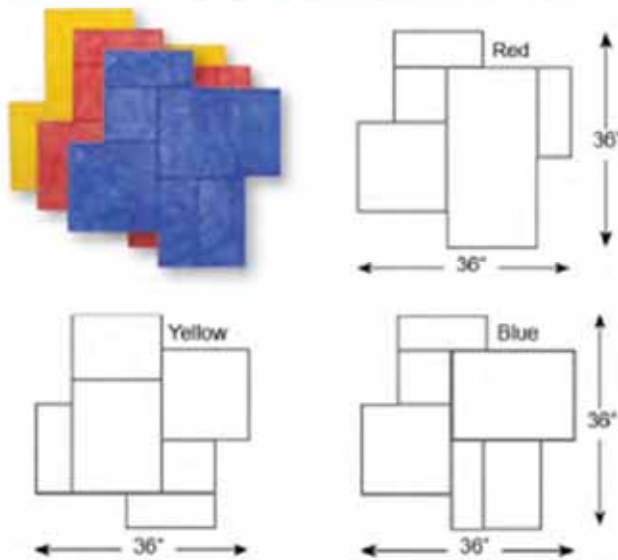
**48" x 48" Slate Texture w/joint,**  
**FM-3190 S/O**   
 48" x 48"  
 (121.92 x 121.92 cm) Red  
 A large single stone with slate texture  
 and sharp cut corners and quarter  
 inch surrounding joint

Matching skintouch-up wheel:  
 Smooth Slate/TW-5  
 Surrounding joint 1/4" wide, 1/4" deep



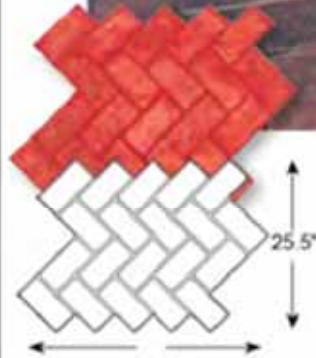
**Running Bond Slate,**   
**FM-3575**  
 24.5" x 60.5"  
 (62.23 x 153.67 cm) Blue  
 Renaissance slate texture set in a  
 running bond pattern

Matching skintouch-up wheel: Slate/  
 TW-3  
 Joint size 1/2" wide, 1/4" deep  
 Stone size 11 1/2" wide, 23 1/2" long




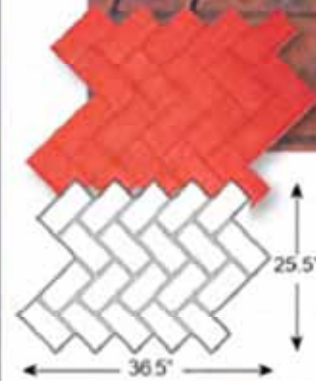
**Regal Ashlar (Blue Stone), FM-3650 S/O**   
 36" x 36" (91.44 x 91.44 cm) Red, Yellow, and Blue  
 Blue stone textured tiles, with worn beveled edges, arranged in an ashlar pattern  
 Touch-up wheel: TW-5  
 Joint size 1/2" wide, 1/4" deep. Stone size 6"-15" wide, 9"-30" long

**Brick Texture Mats**



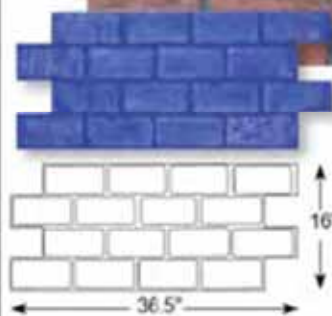
**Herringbone Used Brick**  
**FM-5000 S/O**

25.5" x 36.5" (64.77 x 92.71 cm) Red  
 A weatherworn brick surface with an uneven  
 texture and rounded broken edges  
 Matching skintouch-up wheel: Used Brick/TW-4  
 Joint size 1/2"-1/2" wide, 1/4" deep  
 Brick size 3 1/2" wide, 7 1/2" long  
 Available as gang tool, see page 59 for details.  
 Available as Contractors Choice, EF-5000 




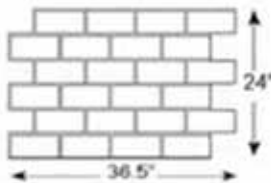
**Herringbone New Brick**  
**(Fine Grout), FM-5050 S/O**

25.5" x 36.5" (64.77 x 92.71 cm) Red  
 A wire-cut common brick texture with sharp  
 corners and few indentations or irregularities  
 over the surface  
 Matching skintouch-up wheel: New Brick/TW-4  
 Joint size 1/2"-1/2" wide, 1/4" deep  
 Brick size 3 1/2" wide, 7 1/2" long



**Running Bond Used Brick**  
**FM-5100 S/O**

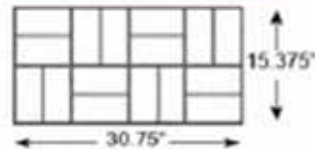
16" x 36.5" (40.64 x 92.71 cm) Blue  
 Used bricks laid end-to-end, with sandy joints  
 Matching skintouch-up wheel: Used Brick/TW-4  
 Joint size 1/2"-1/2" wide, 1/4" deep  
 Brick size 3 1/2" wide, 7 1/2" long  
 Available as Contractors Choice, EF-5100   
 Available as gang tool, see page 61 for details.



**Running Bond New Brick**  
**FM-5150 S/O**

24" x 36.5" (60.96 x 92.71 cm) Red  
A running bond pattern with smooth joints  
Matching skin/touch-up wheel: New Brick/TW-4  
Joint size 1/2"-1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long

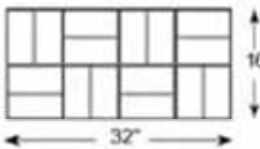
Available as Contractors Choice, EF 5150



**Basket Weave Used Brick**  
**FM-5200 S/O**

15.375" x 30.75" (39.05 x 78.10 cm) Blue  
Used bricks in a basket weave pattern with smooth ungrouted joints  
Matching skin/touch-up wheel: Used Brick/TW-4  
Joint size 1/2"-1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long

Available as gang tool, see page 61 for details.



**Basket Weave New Brick**  
**FM-5250 S/O**

16" x 32" (40.64 x 81.28 cm) Blue  
New bricks in a basket weave pattern with sandy joints  
Matching skin/touch-up wheel: New Brick/TW-4  
Joint size 1/2"-1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long



**Herringbone New Brick**  
**(Sanded Joint) FM-5900 S/O**

25.25" x 36.5" (64.12 x 92.71 cm) Red  
New bricks with sandy joints  
Matching skin/touch-up wheel: New Brick/TW-4  
Joint size 1/2"-1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long

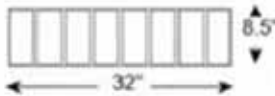


**4" x 8" New Brick Border,**  
**FM-5325, S/O**

8.5" x 32.25" (21.59 x 81.92 cm) Red  
A border of new bricks laid side-by-side  
Matching skin/touch-up wheel: New Brick/TW-7

Also Available: **4" x 8" Used Brick Border, FM-5300 S/O**

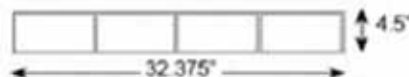
8.5" x 32" (21.59 x 81.28 cm) Red  
A border of used bricks laid side-by-side  
Matching skin/touch-up wheel: Used Brick/TW-4  
Joint size 1/2"-1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long



**Single New Brick, FM-5550 S/O**

4" x 8" (10.16 x 20.32 cm) Red  
A single new brick with sharp edges  
Joint size 1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long

Also Available:  
**Single Used Brick, FM-5500 S/O**  
4" x 8" (10.16 x 20.32 cm) Blue  
A single used brick with rounded edges



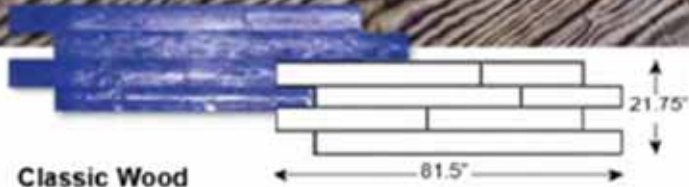
**Used Brick Runner, FM-5600 S/O**

4.5" x 32.375" (11.43 x 82.23 cm) Blue  
A border of used bricks laid end-to-end  
Joint size 1/2" wide, 1/4" deep  
Brick size 3 1/2" wide, 7 1/2" long

**HINT!** Matching thin mats "flopies" are available for all Brickform Texture Mats

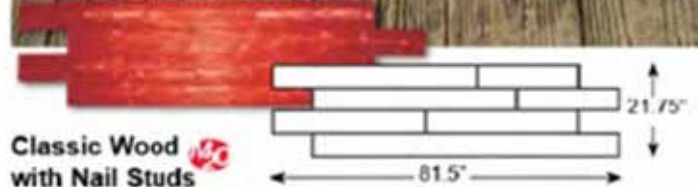
# Wood Texture Mats

Made-to-Order   
2-week production lead time



## Classic Wood FM-8700 S/O

81.5" x 21.75" (207 x 55.2 cm) Blue  
Combining multiple wood grains to offer a bold, pronounced, exposed grain texture with six-inch wide planks  
Matching skin/touch-up wheel: FM-8700FE/TW-5  
Joint size 1/8" wide, 3/16" deep  
Plank size 6" wide, 23 1/2"-71" long



## Classic Wood with Nail Studs FM-8710 S/O

81.5" x 21.75" (207 x 55.2 cm) Red  
Combining multiple wood grains to offer a bold, pronounced, exposed grain texture with six-inch wide planks and oversized nail heads  
Matching skin/touch-up wheel: FM-8700FE/TW-5  
Joint size 1/8" wide, 3/16" deep  
Plank size 6" wide, 23 1/2"-71" long



- 2" Cedar Wood Plank, FM-8110 S/O  
11.5" x 24" (29.21 x 60.96 cm) Blue
- 3" Cedar Wood Plank, FM-8210 S/O  
11.5" x 36" (29.21 x 91.44 cm) Blue
- 4" Cedar Wood Plank, FM-8310 S/O  
11.5" x 48" (29.21 x 121.92 cm) Blue
- 6" Cedar Wood Plank, FM-8410 S/O  
11.5" x 72" (29.21 x 182.88 cm) Blue
- 8" Cedar Wood Plank, FM-8510 S/O  
11.5" x 96" (29.21 x 243.84 cm) Blue

A cedar wood texture with coarse, pronounced grain and a rough surface appearance that incorporates oversized nail heads at each end

Matching skin/touch-up wheel: FM-8010FE/TW-5  
Surrounding joint 1/8"



- 2" Wood Plank, FM-8100 S/O   
12" x 24" (30.48 x 60.96 cm) Blue
- 3" Wood Plank, FM-8200 S/O  
12" x 36" (30.48 x 91.44 cm) Blue
- 4" Wood Plank, FM-8300 S/O  
12" x 48" (30.48 x 121.92 cm) Blue
- 6" Wood Plank, FM-8400 S/O  
12" x 72" (30.48 x 182.88 cm) Blue
- 8" Wood Plank, FM-8500 S/O  
12" x 96" (30.48 x 243.84 cm) Blue

A wood grain texture with lightly pronounced veins and a mild surface texture

Matching skin/touch-up wheel: FM-8000FE/TW-5  
Surrounding joint 1/8"

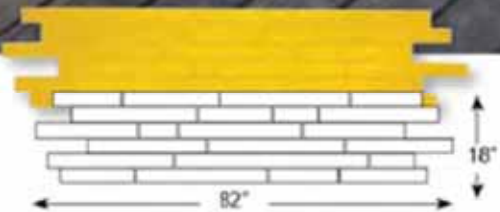
S/O - Compatible with Brickform Stampable Overlay



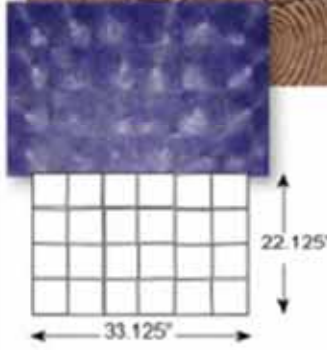


Classic Wood





**3" Cedar Wood Flooring, FM-8015**  
 18" x 82" (45.72 x 208.28 cm) Yellow  
 Cedar wood planks laid end-to-end  
 Matching skin/touch-up wheel: FM-8000FE/TW-5  
 Joint size 1/4"-1/2" wide, 1/4" deep. Plank size 3" wide, 7 1/2'-38' long



**Wood Block FM-8600 S/O**  
 22.125" x 33.125" (56.19 x 84.13 cm)  
 Blue  
 Wood blocks cut perpendicular to the grain  
 Matching skin/touch-up wheel:  
 FM-8000FE/TW-1  
 Joint size 1/4"-1/2" wide, 1/4" deep  
 Block size 5 1/4" square

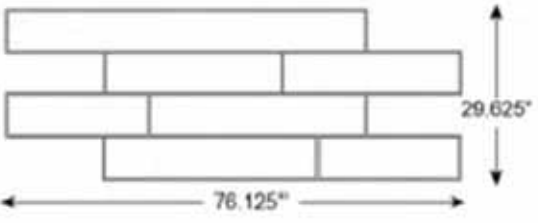


**Bridges of Madison County**

Deep in the American heartland reside the historic Bridges of Madison County. Subject of the eponymous novel, film, and musical, they are now the inspiration for Brickform's newest line of textures. These stamps were derived from real planks and timbers dating back to the late 19th century.

- 4' Wood Plank, FM-8320B S/O** \*flop available  
 15" x 48" (38.1 x 121.92 cm) Blue
  - 6' Wood Plank, FM-8420 S/O**  
 15" x 72" (38.1 x 182.88 cm) Blue
  - 8' Wood Plank, FM-8520 S/O**  
 15" x 96" (38.1 x 243.84 cm) Blue
  - 10' Wood Plank, FM-8620 S/O**  
 15" x 120" (38.1 x 304.8 cm) Blue
- Surrounding joint depth 1/4"

**Bridges Set FM-8020S includes:**  
 FM-8320B, Qty 1 (4')    FM-8520B, Qty 2 (8')  
 FM-8420B, Qty 2 (6')    FM-8620B, Qty 2 (10')



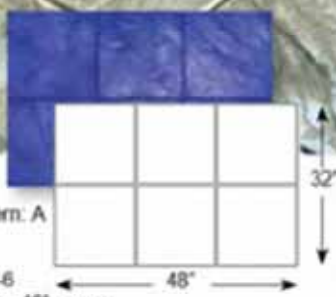
**Weathered Wood Plank, FM-8750**  
 78.125" x 29.625"  
 (193.36 x 75.25 cm)  
 Yellow





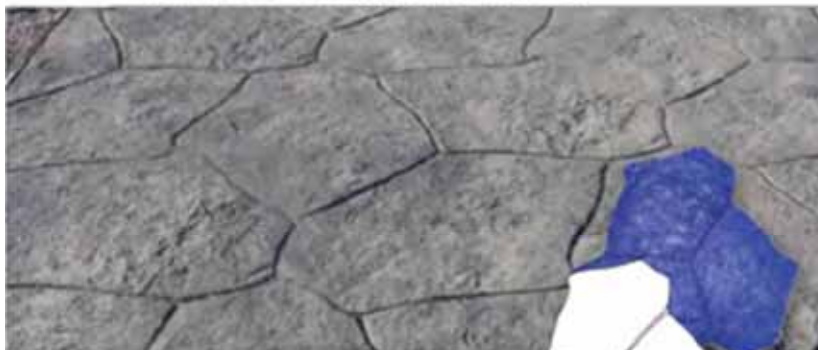
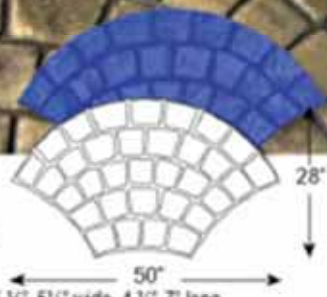
**16" x 16" Slate, TM-300**

32" x 48" (81.28 x 121.92 cm) Pattern: A  
Slate squares in two rows, with angled,  
ungROUTED joints  
Matching skin/touch-up wheel: Slate/TW-6  
Joint size 1/2"-3/4" wide, 1/4" deep. Stone size 16" square



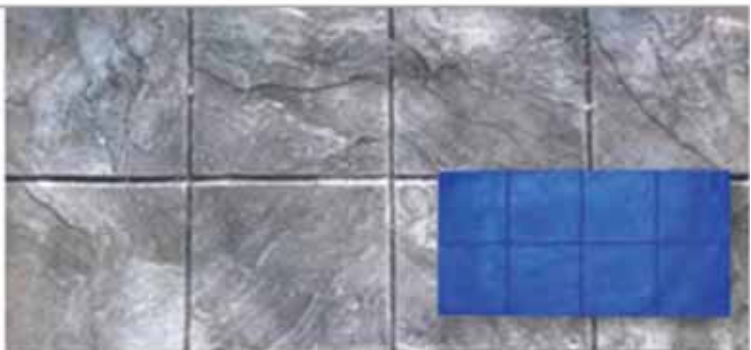
**European Fan, TM-400**

28" x 50" (71.12 x 127 cm) Pattern: A  
Curved slate bricks gracefully arranged in a  
European Fan pattern  
Matching skin/touch-up wheel: Slate/TW-7  
Joint size 1/4"-3/4" wide, 1/2" deep. Stone size 5 1/4"-5 1/2" wide, 4 1/4"-7" long



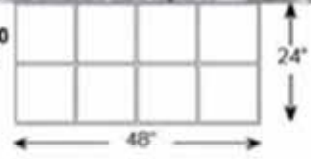
**Mesa Random Stone, TM-500**

61.75" x 61.75" (156.85 x 156.85 cm)  
Pattern: A  
Random stones sculpted to have a rough,  
irregular shape. Matching skin: Mesa Stone  
Joint size 1/2"-3/4" wide, 3/8" deep. Stone size 26"-30" wide, 40" long



**12" x 12" Slate - 1/4" Joint, TM-600**

24" x 48" (60.96 x 121.92 cm) Pattern: A  
Rows of slate squares with beveled edges  
Matching skin/touch-up wheel: Slate/TW-5  
Joint size 1/4"-3/8" wide, 1/4" deep  
Stone size 12" square



**Flagstone, TM-700**

48" x 48" (121.92 x 121.92 cm)

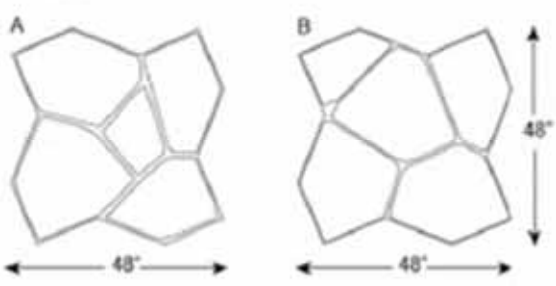
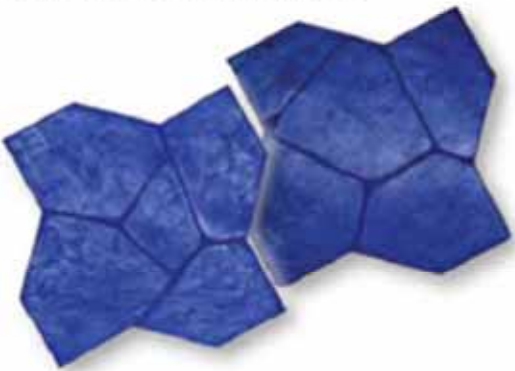
Pattern: A and B

Flagstones with hand chiseled edges grouped in a random formation.

Matching touch-up wheel: TW-6

Joint size 3/8"-1 1/2" wide, 1/2" deep

Stone size 11-21 1/2" wide, 16 1/4"-21 1/2" long





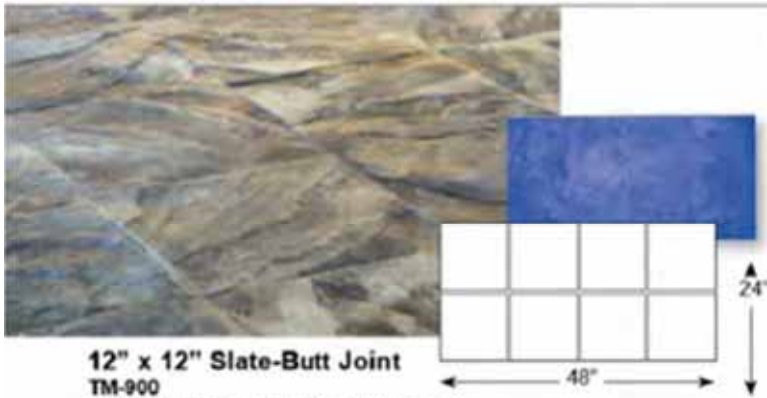
**Pennsylvania Cobble**  
(Sanded Joint) TM-820

31.5" x 47.5" (80.01 x 120.65 cm) Pattern: A  
A staggered pattern of cobblestone with sandy joints and rounded edges  
Matching touch-up wheel: TW-7  
Joint size 1/4"-1" wide, 1/4" deep. Stone size 4 1/2"-4 1/2" wide, 5 1/4"-9 1/4" long



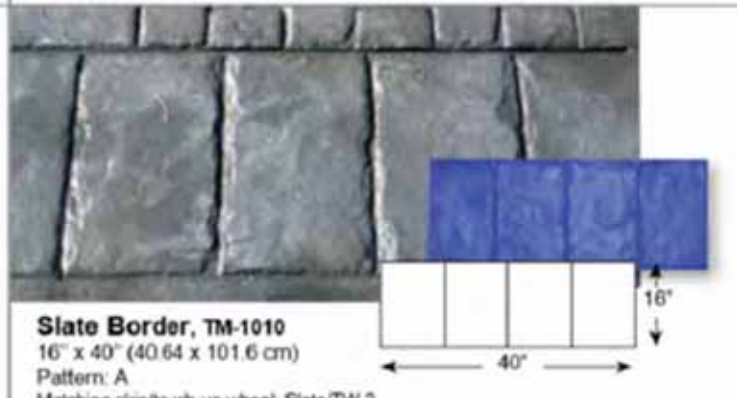
**Pennsylvania Station Cobble**  
(Smooth Joint) TM-840

53.5" x 30.875" (135.89 x 78.42 cm) Pattern: A  
A staggered pattern of cobblestone with smooth joints and rounded edges  
Matching touch-up wheel: TW-6  
Joint size 1/4"-1" wide, 1/4" deep. Stone size 4 1/2"



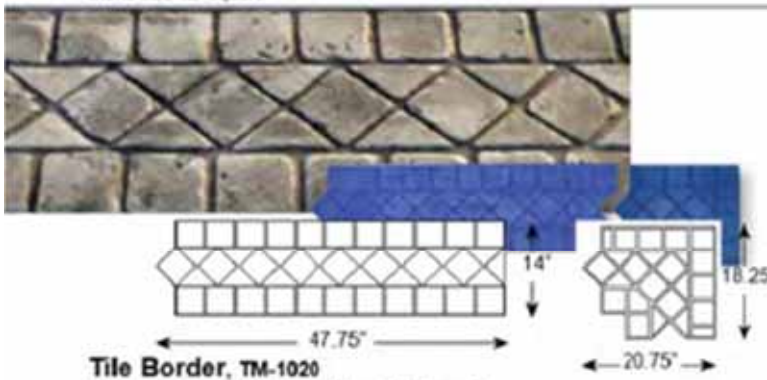
**12" x 12" Slate-Butt Joint**  
TM-900

24" x 48" (60.96 x 121.92 cm) Pattern: A  
Sharp slate squares butted up against each other in two rows  
Matching skin/touch-up wheel: Slate/Chisel  
Stone size 12" square



**Slate Border, TM-1010**

16" x 40" (40.64 x 101.6 cm)  
Pattern: A  
Matching skin/touch-up wheel: Slate/TW-3  
Joint size 1/4"-1/2" wide, 1/2" deep  
Stone size 9 1/2" wide, 15 1/4" long



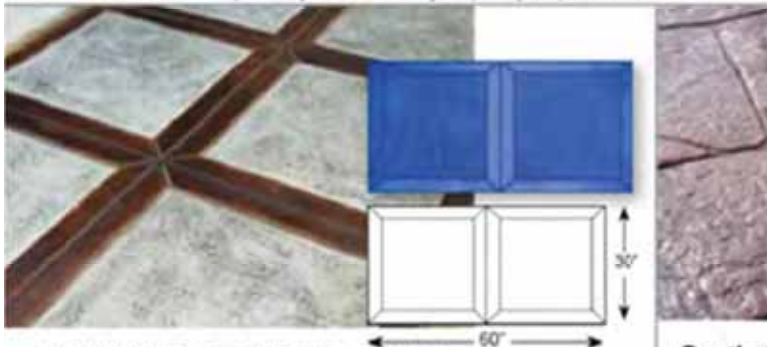
**Tile Border, TM-1020**

14" x 47.75" (35.56 x 121.28 cm) Pattern: A  
TM-1020-1 Tile Border Corner Piece  
18.25" x 20.75" (46.36 x 52.71 cm) Pattern: A  
Matching touch-up wheel: TW-2  
Joint size 1/4" wide, 1/4" deep. Tile size: 5" square, 4" square, 2 1/2" x 5"



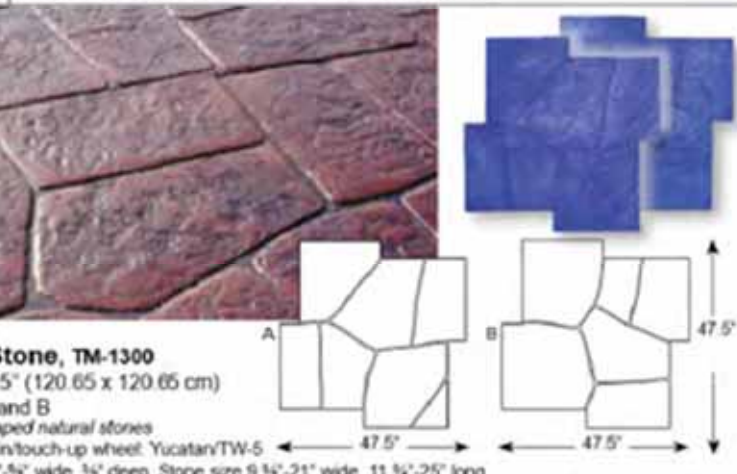
**Bushed Border, TM-1030**

12" x 48" (30.48 x 121.92 cm)  
Pattern: A  
Matching touch-up wheel: TW-5  
Joint size 1/2" wide, 1/4" deep. Stone size 10" wide, 22" long



**30" x 30" Bushed Stone, TM-1200**

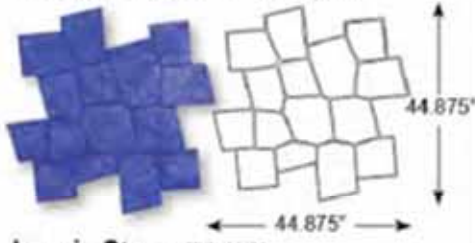
30" x 60" (76.2 x 152.4 cm) Pattern: A  
Two bushed stones with square corners and sharp beveled edges  
Matching touch-up wheel: TW-5  
Joint size 1/4" wide, 1/4" deep. Stone size 30" square



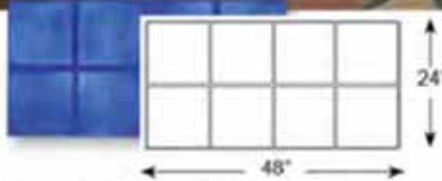
**Castle Stone, TM-1300**

47.5" x 47.5" (120.65 x 120.65 cm)  
Pattern: A and B  
Irregular shaped natural stones  
Matching skin/touch-up wheel: Yucatan/TW-5  
Joint size 1/2"-5/8" wide, 1/4" deep. Stone size 9 1/2"-21" wide, 11 1/4"-25" long

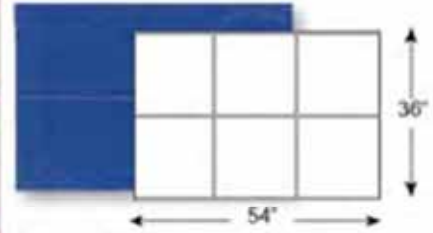
**Creative Images Mats continued**



**Luccia Stone, TM-1350**  
 44.875" x 44.875" (113.98 x 113.98 cm) Pattern: A  
 Slate stones with irregular edges, in a random pattern  
 Matching skin. Smooth Slate  
 Joint size 1/4" wide, 1/4" deep  
 Stone sizes 6 1/2" x 7 1/2" to 10 1/2" x 11 1/2"



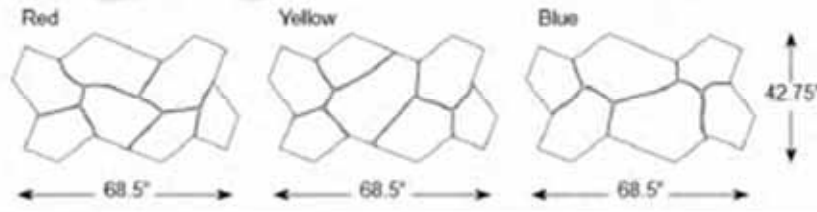
**12" x 12" Mexican Tile, TM-1400**  
 24" x 48" (60.96 x 121.92 cm) Pattern: A  
 Beautiful Mexican tiles with sandy joints  
 Matching touch-up wheel. TW-7  
 Joint size 1/4" wide, 1/4" deep  
 Tile size 11 1/4" square



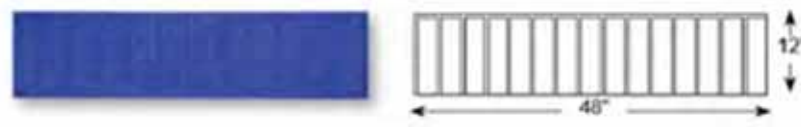
**18" x 18" Slate, TM-1620**  
 36" x 54" (91.44 x 137.16 cm) Pattern: A  
 Three slates with sharp edges, laid in two rows  
 Matching skin/touch-up wheel. Slate/TW-5  
 Joint size 1/2"-5/8" wide, 3/4" deep  
 Stone size 18" square



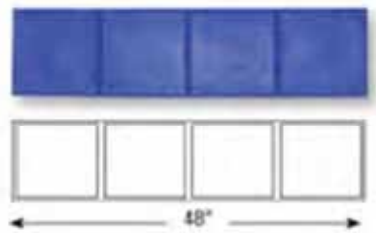
**Verona Stone, TM-1500**  
 42.75" x 68.5" (108.58 x 173.99 cm).  
 Red, Yellow and Blue  
 A unique random pattern of irregular stones  
 Matching skin/touch-up wheel. Blue Stone/TW 2-3  
 Joint size 1/4"-1/2" wide, 1/4" deep  
 Stone size 13"-21" wide, 19 1/2"-30 1/2" long



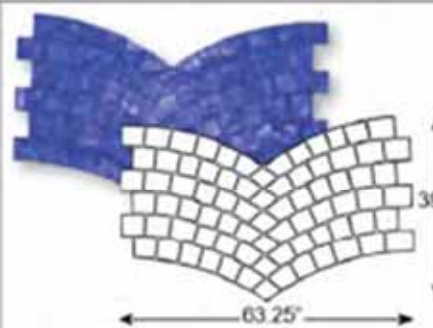
**Creative Images Mats Made-to-Order 2-week production lead time**



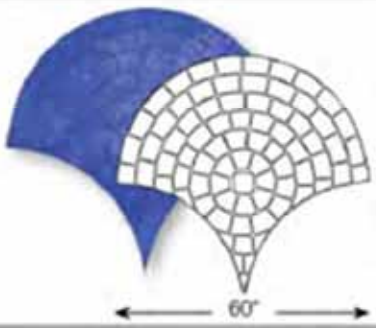
**4" x 12" Brick Border, TM-1000**  
 12" x 48" (30.48 x 121.92 cm) Pattern: A   
 Matching skin/touch-up wheel. New Brick/TW-6  
 Joint size 1/2" wide, 3/4" deep  
 Brick size 3 1/2" wide, 11" long



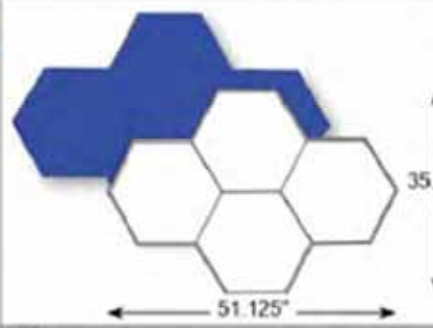
**12" x 12" Mexican Tile Border, TM-1040**   
 12" x 48"  
 (30.48 x 121.92 cm)  
 Pattern: A  
 Matching skin/touch-up wheel.  
 New Brick/TW-7  
 Joint size 1/2" wide, 1/4" deep  
 Tile size 11 1/4" square



**Danish Fan, TM-1100**   
 39.5" x 63.25"  
 (100.33 x 160.65 cm)  
 Pattern: A  
 Rectangular stones of various  
 sizes laid in a fan pattern with  
 flat joints  
 Matching skin/touch-up wheel.  
 Slate/TW-1  
 Joint size 1/4"-1/2", 3/4" deep  
 Stone size 4-4 1/2" wide,  
 4'-5 1/2" long



**Tear Drop Fan, TM-1600**   
 56" x 60"  
 (142.24 x 152.4 cm)  
 Pattern: A  
 Utah stones laid in a teardrop  
 fan pattern  
 Matching skin/touch-up wheel.  
 Utah Stone/TW-1  
 Joint size 1/2"-3/4" wide, 1/4" deep  
 Stone sizes vary 3 1/4" x 4 1/2"  
 to 4 1/4" x 6 1/4"



**Hexagon, TM-1660**   
 Smooth with 1/2" Joints  
 35.375" x 51.125"  
 (89.85 x 129.85 cm)  
 Pattern: A  
 Smooth hexagon tiles in an  
 interlocking pattern  
 Touch-up wheel. TW-6  
 Joint size 1/2" wide, 1/2" deep  
 Tile size 10" per side

**Attachment 4 Opinion of Probable Construction Cost**

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**Glencoe Pier Deck Replacement - Alternative 1**

**Baird.**

**Itemized Opinion of Probable Construction Costs  
Concept Design**

Project No 13359.101

Date: 12/11/2020

Item	Unit	Quantity	Unit Cost	Extension	Sub Total
<b>1.0 General Requirements</b>					<b>\$46,000</b>
1.1 Mobilization/Demobilization	LB	1	\$40,000	\$40,000	
1.2 Erosion Control	LB	1	\$6,000	\$6,000	
<b>2.0 Site Preparation and Selective Demolition</b>					<b>\$8,027</b>
2.1 Grade Sand Back	LB	1	\$870	\$870	
2.2 Demo and Dispose of Asphalt	SF	3,360	\$1.48	\$4,977	
2.3 Demo and Dispose of Handrail and Perimeter Angle	LF	404	\$6.40	\$2,181	
<b>3.0 Deck Replacement</b>					<b>\$272,847</b>
3.1 Concrete overlay, 4000psi, minimal reinforcement	CY	114	\$211	\$24,021	
3.2 Supply and Install Sleeper Brackets	EA	1,008	\$161	\$162,470	
3.3 Supply and Install 4x4 Sleepers	LF	6,040	\$4.31	\$21,736	
3.4 Supply and Install Decking	LF	14,338	\$6.21	\$74,621	
<b>4.0 Handrail Replacement</b>					<b>\$31,874</b>
4.1 Supply and install new handrails	LF	404	\$70	\$28,381	
4.2 Supply and install perimeter angle	LF	608	\$6.40	\$3,283	
<b>5.0 Lighting</b>					<b>\$7,180</b>
5.1 Add grounding to lightposts	LB	1	\$1,180	\$1,180	
5.2 Supply and install LED fixture	EA	8	\$1,000	\$8,000	
<b>Sub-Total</b>					<b>\$364,738</b>
Job Office Overhead 10%					<b>\$36,474</b>
Home Office Overhead & Profit 16%					<b>\$80,182</b>
Bond 1%					<b>\$4,614</b>
<b>Total</b>					<b>\$488,008</b>
Design Growth Contingency 10%					<b>\$48,801</b>
Owner's Contingency 5% <sup>1</sup>					<b>\$25,650</b>
<b>Total W/ Contingencies</b>					<b>\$638,240</b>
Low End Estimate (+0%) <sup>2</sup>					<b>\$640,000</b>
High End Estimate (+16%) <sup>2</sup>					<b>\$830,000</b>
Estimate of soft costs					
Final Design and Permitting Services					<b>\$80,000</b>
Limited Bidding and Construction Services					<b>\$26,000</b>

<sup>1</sup> Owner's Contingency is added to account for risks attributed to the owner during construction and other change orders during construction.

<sup>2</sup> The estimate accuracy range is applied to account for the range in expected bids due to variations in contractor availability, material price fluctuations, etc.



**Glencoe Pier Deck Replacement - Alternative 2**

**Baird.**

**Itemized Opinion of Probable Construction Costs  
Concept Design**

Project No 13368.101

Date: 12/11/2020

Item	Unit	Quantity	Unit Cost	Extension	Sub Total
<b>1.0 General Requirements</b>					<b>\$46,000</b>
1.1 Mobilization/Demobilization	LS	1	\$40,000	\$40,000	
1.2 Erosion Control	LS	1	\$6,000	\$6,000	
<b>2.0 Site Preparation and Selective Demolition</b>					<b>\$8,027</b>
2.1 Grade Sand Back	LS	1	\$870	\$870	
2.2 Demo and Dispose of Asphalt	SF	3,360	\$1.48	\$4,977	
2.3 Demo and Dispose of Handrail and Perimeter Angle	LF	404	\$6.40	\$2,181	
<b>3.0 Concrete Deck Overlay</b>					<b>\$83,666</b>
3.1 Concrete overlay, 5000 psi, reinforced	CY	146	\$242	\$36,088	
3.2 Slab texture stamping	SF	8,720	\$7.21	\$48,468	
<b>4.0 Handrail Replacement</b>					<b>\$32,880</b>
4.1 Supply and install new handrails	LF	404	\$70	\$28,381	
4.2 Supply and install perimeter angle	LF	608	\$7.36	\$4,489	
<b>5.0 Lighting</b>					<b>\$7,180</b>
5.1 Add grounding to lightposts	LS	1	\$1,180	\$1,180	
5.2 Supply and install LED fixture	EA	6	\$1,000	\$6,000	

Sub-Total	\$176,833
Job Office Overhead 10%	\$17,883
Home Office Overhead & Profit 16%	\$29,144
Bond 1%	\$2,234
<b>Total</b>	<b>\$226,876</b>
Design Growth Contingency 10%	\$22,687
Owner's Contingency 6% <sup>1</sup>	\$12,412
<b>Total W/ Contingenoes</b>	<b>\$280,664</b>
Low End Estimate (+0%) <sup>2</sup>	\$270,000
High End Estimate (+16%) <sup>2</sup>	\$320,000

Estimate of soft costs

Final Design and Permitting Services	\$80,000
Limited Bidding and Construction Services	\$26,000

<sup>1</sup> Owner's Contingency is added to account for risks attributed to the owner during construction and other change orders during construction.

<sup>2</sup> The estimate accuracy range is applied to account for the range in expected bids due to variations in contractor availability, material price fluctuations, etc.



As an engineer with Baird, Mr. Barth has been extensively involved in a variety of multi-disciplinary projects in the Great Lakes, Atlantic Coast, Gulf of Mexico, Caribbean, Africa, and Australia. Mr. Barth is experienced in the design of port and harbor infrastructure, waterfronts, and a variety of hard and soft solutions for coastal erosion. As project manager, Mr. Barth has led teams of multi-disciplinary teams and delivered projects from concept to construction on budget. Mr. Barth is experienced in constructability reviews, cost estimating, permitting, and construction field support.

## 12 YEARS' EXPERIENCE

Coastal Structures  
Cost Estimating  
Project Delivery

## EDUCATION

B.Sc. | Civil Engineering

## AFFILIATIONS

Registered Professional Engineer:  
Illinois, Wisconsin

## PROJECT EXPERIENCE

### **New York/ New Jersey Harbor & Tributaries Study (HATS) | NY/NJ, USACE – New York District | 2019-Present**

The New York District (NYD) Corps of Engineers is conducting a feasibility level study to advance the conceptual design of the New York New Jersey Harbor and Tributary Study (HAT Study) structural flood risk features. Mr. Barth was the cost estimate Task Leader the HAT Study which included advancing five alternatives consisting of an array of Storm Surge Barriers (SSB's) and Shore-Based Measures (SBM's) to determine a Tentatively Selected Plan (TSP).

### **Marina Revetment and Breakwater Repairs | Hammond, Indiana, Lake Michigan | Hammond Port Authority | 2016-Present**

Project Manager providing field investigation, permitting, final design, bidding, quarry quality assurance, and construction administration services for repairs to 1,100 feet of rubblemound breakwater, repairs to 700 feet of rubblemound revetment, the installation of a new 500 feet long cast-in-place concrete sea wall, and the extension of an existing intake pipe relieving platform.

### **Highland Park Lakefront Interceptor Protection | Highland Park, Illinois, Lake Michigan | North Shore Water Reclamation District | 2017-Present**

Project Manager providing field investigation, permitting, and final design services for the protection of an existing sanitary sewer interceptor that runs parallel to the beach on Lake Michigan. The project entails the installation of approximately 1,000 ft of shoreline protection, consisting of a series of detached armor stone breakwaters, shore-tied armor stone groins, and associated pocket beaches.

### **Living Breakwaters | Staten Island, NY, Raritan Bay | Governor's Office of Storm Recovery | 2018-Present**

Baird is the construction manager to facilitate the construction of a series of breakwaters designed to buffer neighborhoods from wave damage and erosion while providing a more biodiverse habitat for juvenile fish, oysters, and other organisms. Mr. Barth was responsible for value engineering, procurement support, and contractor selection. Mr. Barth will be the Deputy Resident Engineer when construction starts in the second half of 2021.

### **Town Docks Replacement | Town of Palm Beach, Florida | 2018-Present**

Baird provided master planning, regulatory, final design, bidding, and construction services for the replacement of the dockage system. The overhaul includes removing the existing fixed dock system and replacing it with a state-of-the-art floating docks system that can accommodate mega-yachts up to 250 feet in length. Mr. Barth provided structural engineering services for the floating dockage anchorage and developed the performance specifications.

**Barbados Resort | Barbados, West Indies | Confidential Client | 2017-2019**

Baird's client is developing 500m of coastline as part of a new resort in Barbados. Baird undertook design and permitting work to support shoreline enhancement including protection of the existing natural reef. Mr. Barth provided structural engineering services for the design of an 85-meter long pier and an emergent offshore breakwater overlook structure and technical support during construction.

**Eagle Lake Park Evaluation | Kansasville, Wisconsin | Racine County | 2015-Present**

Project Manager providing field investigation, permitting, and final design services for the replacement of a failing sheet pile retaining wall and the expansion of a boat launch. Additionally, Baird will provide bidding and construction observation services when the project advances into construction.

**Fish Creek Beach Improvements | Fish Creek, Wisconsin, Lake Michigan | Short, Elliot, Hendrickson, Inc | 2018**

Project Manager and Technical Lead for coastal and structural engineering services for the development of alternatives to improve and expand the existing beach and for the addition of a public viewing pier at the public beach. In addition, Mr. Barth facilitated public board meetings to establish aesthetic and functional criteria.

**Lyon Square Riverfront Park | Grand Rapids, Michigan, Grand River | Bishop Land Design, LCC | 2017-2018**

Baird provided marine and structural engineering services for the preliminary design of the redevelopment of the waterfront on the Grand River. As lead engineer, Mr. Barth assisted with the development of concepts for a tiered floating promenade to facilitate public access to the river and proposed kayak/rafting class 3 rapids. Services provided included regulatory input and a class 3 opinion of probable construction cost.

**East Chicago Marina | East Chicago, Indiana, Lake Michigan | City of East Chicago | 2016-2017**

Baird provided engineering services for the replacement of a 292-slip marina on the southern end of Lake Michigan. Mr. Barth was the structural engineer and developed the performance specifications for the total dockage system replacement.

**Whitebridge Hill Beach House Lakefront Improvements | Winnetka, Illinois, Lake Michigan | Northworks, Architects and Planners, LLC | 2015-2017**

Baird provided engineering, permitting, and construction phase services for the design of a stone beach retention groin, steel sheet pile pier structure, and backshore bluff protection soldier pile wall. Mr. Barth provided structural design services for the steel sheet pile pier and backshore soldier pile wall structures and construction observation services for the construction of the stone groin.

**Bay Moorings | Penetanguishene, Ontario, Georgian Bay, Lake Huron | Parkbridge Lifestyle Communities Inc. | 2016-2017**

Baird provided an evaluation of the existing breakwater at a marina and provided concept designs and costs for an upgraded structure. Mr. Barth provided conceptual structural design services and developed preliminary opinions of construction cost for each alternative.

**Coastal Risk Assessment and Management Program | Barbados, West Indies | Coastal Zone Management Unit | 2016-2017**

The Coastal Risk Assessment and Management Program (CRMP) was established to help the government of Barbados understand the island's exposure and resiliency to hurricanes, sea level rise, storm surge, terrestrial loads and water quality. As lead structural engineer, developed designs for a waterfront project which consists of 1,000 meters of boardwalk, piers, and shore protection along the island's southern coast.

# **V. Discussion on Contract Design Services for Lakefront Park Center Bluff Stabilization, Crib Wall Replacement, and Drainage**

Glencoe Park District  
January 5, 2021 Committee of the Whole Meeting

# MEMORANDUM

TO: Board of Park Commissioners  
FROM: Lisa Sheppard, Executive Director and Chris Leiner, Director of Parks & Maintenance  
SUBJECT: Approval of the Altamanu, Inc. Contract Design Services for FY2020/21 Capital Projects Crib Wall-Center Bluff  
DATE: December 29, 2020

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## EXECUTIVE SUMMARY:

In the Commissioner approved Year One Bond Issuance Capital Plan, approximately \$500,000 was earmarked as a placeholder for repairs to the crib wall and center bluff area. Staff is pursuing the repair project as a fall 2021 project, with the goal of substantial project completion by May 1, 2022.

Project goals include:

- Replacing/reinforcing the existing crib wall to ensure continued access to Glencoe Beach
- Developing a native planting plan for the area disturbed by construction
- Assessing the condition of the surrounding retaining walls and making repairs as necessary
- Assessing the condition of the existing drainage in the area and making improvements as necessary

The total cost of this professional service contract is \$64,689.

## ADDITIONAL DETAIL:

This contract represents 12.9% of the estimated cost of construction, with a total cost of \$64,689. The District typically pays between 11.5% and 13% for design fees. This project includes unique challenges that further increase costs beyond the typical park renovation project.

We usually engage landscape architects and civil engineers on park projects. However, this project includes significant changes in elevation, with structural and civil engineering beyond the general scope of a typical park renovation. This is in addition to the landscape architectural design and grading included in typical projects. Furthermore, there is a liability component to this project that is generally absent from other park projects.

The design is also complicated by existing drainage issues, in particular, storm-water descending the bluff and across an existing retaining wall. This drainage issue must be corrected to safeguard the integrity of the stairs.

Due to site conditions, this will be a one-of-a-kind, custom project.

Attached to this memo is the proposal for professional services. Included in that proposal is a consultant hour break down to further highlight the time this project will require.



December 3rd, 2020  
Mr. Chris Leiner  
Director of Parks and Maintenance  
Glencoe Park District  
999 Green Bay Road  
Glencoe, Illinois 60022

[cleaner@glencoe parkdistrict.com](mailto:cleaner@glencoe parkdistrict.com)

**Proposal for Landscape Architectural and Engineering Services for Glencoe Bluff Stabilization, Phase 2, Project No. 3. Crib Wall Replacement & Drainage Improvements to Lakefront Park and Hazel Avenue**

Dear Chris,

The Glencoe Park District (GPD/Client) has requested a proposal from the Altamanu and the CBBEL team (team) to prepare Schematic Design, Design Development and Construction Documents, provide Bidding and Permit assistance and Construction Administration Services for the above referenced project.

**UNDERSTANDING OF THE PROJECT**

It is our understanding that Glencoe Park District wishes to remove and replace the existing crib wall on the approach road to the water plant. The drainage in the park above also requires improvement, as it currently ponds and then overflows over the bluff and crib wall, as well as the stairs and down Hazel Avenue during heavy events. When replacing the crib wall, the pedestrian entrance by the stairs and driveway gate will also be improved as it currently has substandard clearance. Altamanu, Inc. will incorporate CBBEL's plans, specifications, and cost estimates into our contract documents. It is our understanding that the Park District would like to bid out the project in the fall and construct it late fall/winter 2021. The survey and geotechnical services of the site are to be provided by others.

**SCOPE OF WORK ALTAMANU INC.**

The following is an outline of the "Scope of Work" to be carried out by the design team.

**TASK 1: SITE ANALYSIS AND SCHEMATIC DESIGN**

Goals: Review existing conditions, project scope, budget, schedule and set a direction for Client expectations.

1. Verify existing conditions using available site data such as surveys, photos, and topographic maps.
2. Carry out a site visit to discuss coordination with the Village. (Meeting #1)
3. Review Geotech report.

4. Verify existing conditions using available site data such as surveys, photos, and topographic maps.
5. Prepare concept design wall replacement and entry improvements.
6. Prepare Preliminary Opinions of Probable Costs.
7. Present concepts to GPD. (Meeting #2)
8. Make minor revisions as directed by GPD.
9. Meet with Village and representatives of the Water Plant to discuss the project and assist in obtaining permits. (Meeting #3)
10. Attend/present schemes to the Board of the Park District. (Meeting #4)

#### **TASK 2: DETAILED DESIGN DEVELOPMENT & CONSTRUCTION DOCUMENTS**

Goals: Finalize relevant design elements and incorporate Client's comments and produce the final Construction Documents.

1. Prepare Design Development/Construction Documents for a 60% and 100% review with the Client.
2. Submit 60% Construction Set, Outline Specifications and updated Opinion of Probable Costs to GPD for review.
3. Revise Construction Set (Plans, Specifications and Estimates) as per Client comments.
4. Follow up meeting with representatives of the Village to coordinate the project. CBBEL will assist GPD in obtaining site-related permits from the Village of Glencoe. (Meeting #5)
5. Submit Final 100% Construction Documents Package and related Technical Specifications to GPD for review and subsequently for bidding.

#### **TASK 3: PERMITTING, BIDDING & BID ASSISTANCE**

Assist in the packaging and distribution of construction drawing sets and specifications to potential contractors. Altamanu will review and assess bids with GPD and assist in the selection of a contractor(s). Timetables and schedules for construction will be established with selected contractors.

1. Assist GPD in submitting Permit Set for appropriate approvals and coordinate with Village of Glencoe.

2. Coordinate with GPD to assist in preparation of Bid Packages. Use Site Landscape Construction Bid Form, cover letter and related addenda to include with Bid/Drawing Package. Distribute Bid/Drawing Package to contractors on selected list as vetted by team.
3. Provide GPD Construction Set prior to bidding for review. Assist GPD with preparation of advertisement of project for placement in the local paper.
4. Issue addenda as appropriate to interpret, clarify or expand the Construction Documents.
5. Assist the GPD in conducting a Pre-Bid Review Meeting with selected Contractors. (Meeting #6)
6. Assist GPD in preparing Bid Analysis for comparison of proposed bids.
7. Assist GPD with the selection(s) of appropriate contractors.
8. Assist in the preparation AIA/GPD Contract between contractors and GPD.
9. Develop potential Construction Timetable with GPD & Contractor.

#### **TASK 4: CONSTRUCTION ADMINISTRATION & PROJECT CLOSEOUT**

Goal: Provide on-site review and observation of construction related to the Site Construction Package and its Related Specifications.

1. Provide on-site observation of construction related to the Altamanu-CBBEL Landscape and Engineering Plans and their related elements. Visit site 4 times at intervals appropriate to the stage of landscape construction to review proper construction methods and adherence to the design intent. (Site Meetings #6 through #10).
2. Make written reports regarding site construction progress for landscape improvements for 4 site meetings.
3. Review and respond to contractor's requests for information and provide interpretations and clarifications for the Construction Documents.
4. Review contractor's request for payments.
5. Conduct a final on-site observation/inspection of Landscape Construction with GPD and Contractor. (Meeting #11)
6. Prepare a Final Punch List prior to final acceptance of job.
7. Troubleshoot for 1 month until project closeout.



**PROFESSIONAL FEES**

Fees for the project are broken down by discipline are as follows:

Estimated Landscape Architecture Fees (Altamanu)	\$ 24,574.94
Estimated Expenses (Altamanu)	\$ 500.00
Estimated Engineering Fees (Please see CBBEL proposal attached)	\$ 36,614.00
Estimated Expenses	\$ 500.00
<b>Estimated Total Professional Fees &amp; Expenses (Altamanu and CBBEL)</b>	<b>\$ 64,688.94</b>

Reimbursable expenses will be invoiced as a direct expense. Reimbursable expenses related to this project shall include, but may not be limited to the following:

- Transportation/Parking
- Reproduction
- Special Supplies
- Photography
- Copies
- Messenger/Delivery
- Large Scale Scans
- Soils Analysis/Consultation

Professional fees and expenses will be billed monthly for work completed and are due within 30 days.

**ASSUMPTIONS**

Base information; utility information, and any available drawings will be provided by the GPD to Altamanu.

Altamanu Inc. is responsible for Landscape Architectural Services only.

If the Client requests meetings or presentations not detailed in this document the Client will be invoiced for this service at our standard hourly rates outlined below for certain tasks:

<b>Additional per meeting cost for staff level meeting (2 People)</b>	<b>\$ 515.00</b>
<b>Additional per site visit cost (PM)</b>	<b>\$ 366.00</b>

Any services beyond what is outlined above will be considered extra services and will be billed at our standard hourly rates.

This agreement may be terminated by either party 15 days after written notice. Altamanu shall be compensated for all services performed up to this date.

If the terms are acceptable to you, we would appreciate the execution of this document in the space provided below and the return of a copy for our files.

We at Altamanu Inc. appreciate this opportunity to continue working with the Glencoe Park District.

Very truly yours,



Josephine Bellalta, PLA, ASLA, President Altamanu

Inc. ACCEPTED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

EXHIBIT  
CBBEL's CIVIL and STRUCTURAL  
ENGINEERING PROPOSAL



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

November 18, 2020

Altamanu, Inc.  
1700 West Irving Park Road  
Suite 202  
Chicago, IL 60613

Attention: John MacManus, ATLA

Subject: Glencoe Bluff Stabilization | Project No. 3  
Crib Wall Replacement and Drainage Improvements to Lakefront Park and  
Hazel Avenue

Dear Mr. MacManus:

We understand that the Glencoe Park District would like to construct series improvements to Lakefront Park. As part of these improvements, the existing crib wall along the approach to the water plant requires replacement. The drainage in the park above also requires improvement, as it currently ponds and then overflows over the bluff and crib wall, as well as the stairs and down Hazel Avenue during heavy events. When replacing the crib wall, the pedestrian entrance by the stairs and driveway gate will be improved as it currently has substandard clearance.

We assume that Altamanu, Inc. will incorporate our plans, specifications, and cost estimates into their contract documents.

We understand that the Park District would like to bid out the project in the winter and construct it late winter 2021.

**SCOPE OF SERVICES**

**Task 1 – Site Visit/Base Sheets:** CBBEL will visit the site with the survey provided by V3. CBBEL will field check the survey and add any notes to the exiting conditions plan. CBBEL will prepare existing conditions base sheets based on the V3 topographic survey and our site visit. These base sheets will the used for our proposed design.

**Task 2 – Crib Wall Replacement Design:** It is our understanding that the Glencoe Park District want to remove the existing crib wall along the access road and replace it. The existing crib wall is an older designed system of Mechanically Stabilized Earth (MSE) wall. Large gaps between wall panels exist with the gravel behind the panels slipping through. CBBEL will review the geotechnical report, existing grade survey plans, and design a new retaining wall system. CBBEL will consider several wall systems and recommend the

most feasible and economical option. CBBEL will coordinate the wall design with a Geotechnical Engineer and submit the design plans for Park District review, incorporating their comments into the final plan. CBBEL will provide design plans, specifications, an opinion of construction cost estimate.

**Task 3 – Drainage Design:** Based on the topographic survey and historical flooding data, CBBEL will design a new drainage system in the park to eliminate the overtopping of the bluff and wall as well as overflow down the stairs and Hazel Avenue. We anticipate the new drainage system to include a combination of new catch basins, storm sewer and minor re-grading.

**Task 4 – Meetings:** CBBEL will prepare exhibits for and attend up to 2 Board Meetings and 3 Coordination/Review Meetings with the Park District, Public Works and the Water Plant staff.

**Task 5 – Bidding and Construction Assistance:** CBBEL will answer Bidder’s question and issue an Addendum, if necessary. During Construction CBBEL will attend the Pre-Construction Meeting, answer RFIs, review Shop Drawings and attend up to 2 additional site meetings.

**FEE ESTIMATE**

Task 1 – Site Visit/Base Sheets	\$2,722
Task 2 – Crib Wall Replacement Design	\$20,800
Task 3 – Drainage Design	\$7,152
Task 4 – Meetings	\$4,574
Task 5 – Bidding and Construction Assistance	\$3,866
Direct Costs	\$500
<b>Not To Exceed Total</b>	<b>\$39,614</b>

We will bill you at the hourly rates specified on the attached Schedule of Charges. We will establish our contract in accordance with the attached General Term and Conditions. These General Terms and Conditions are expressly incorporated into and are an integral part of this contract for professional services. Direct costs for blueprints, photocopying, mailing, mileage, overnight delivery, messenger services and report binding are included in the Fee Estimate. Please note that meetings and additional services performed by CBBEL that are not included as part of this proposal will be billed on a time and materials basis and at the attached hourly rates.

Please sign and return one copy of this agreement as an indication of acceptance and notice to proceed. Please feel free to contact us anytime.

Sincerely,

Michael E. Kerr, PE  
President

Encl. Schedule of Charges  
General Terms and Conditions

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS AND  
CONDITIONS ACCEPTED FOR ALTAMANU, INC.

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

JGS  
N:\PROPOSALS\ADMIN\2020\Glencoe Park District Bluff Improvements\Altamanu\_Glencoe Bluff Stabilization\_Project 3.111220.doc

**CBBEL WORK EFFORT**  
**Glencoe Park District**  
**Project No. 3 Crib Wall Replacement and Drainage Improvements**  
**November 16, 2020**

Task	Personnel and Hours											Total Hours	% of Hours	Total Cost
	Engineer VI	Engineer V	Engineer IV	Engineer I/II	Environmental Resource Specialist V	Environmental Resource Tech	CAD Manager	Assistant CAD Manager	CAD II	Landscape Architect	Services by Others			
Rate	\$251.00	\$208.00	\$170.00	\$121.00	\$216.00	\$114.00	\$177.00	\$153.00	\$135.00	\$170.00				
Task 1: Site Visit/Base Sheets	2	4	4				4					14	6.4%	\$2,722.00
Task 2: Crib Wall Replacement Design		40	48						32			120	55.0%	\$20,800.00
Task 3: Drainage Design	4		32				4					40	18.3%	\$7,152.00
Task 4: Meetings	2	8	10				4					24	11.0%	\$4,574.00
Task 5: Bidding and Construction Assistance	2	8	10									20	9.2%	\$3,866.00
												0	0.0%	\$0.00
												0	0.0%	\$0.00
												0	0.0%	\$0.00
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												0	0.0%	\$0.00
												0	0.0%	\$0.00
												0	0.0%	\$0.00
Subtotal	10	60	104	0	0	0	12	0	32	0	\$0.00	218	100.0%	
% of Hours	4.6%	27.5%	47.7%	0.0%	0.0%	0.0%	5.5%	0.0%	14.7%	0.0%		100.0%	100.0%	
Direct Cost														\$500.00
Total Cost	\$2,510.00	\$12,480.00	\$17,680.00	\$0.00	\$0.00	\$0.00	\$2,124.00	\$0.00	\$4,320.00	\$0.00	\$0.00	\$39,114.00		\$39,614.00

**ALTAMANU WORK EFFORT SUMMARY**

Glencoe Park District  
 Project N0. 3 Crib Wall and Drainage  
 22-Dec-20

TASKS	Personnel and Hours			Total Hours	% of Hours	Total Cost
	Principal Urban Designer /Landscape Architect	Sr. Landscape Architect	Landscape Designer			
RATE	\$160.00	\$105.25	\$61.88			
TASK 1: SITE ANALYSIS & SCHEMATIC DESIGN	22.0	20.0	24.0	66.0	27.7%	\$7,110.12
TASK 2: DETAILED DD & CD	16.0	48.0	40.0	104.0	43.7%	\$10,087.20
TASK 3: PERMITTING, BIDDING & BID ASSISTANCE	2.0	28.0	0.0	30.0	12.6%	\$3,267.00
TASK 4: CONSTRUCTION ADMIN. & PROJECT CLOSEOU	2.0	36.0	0.0	38.0	16.0%	\$4,109.00
Subtotal	42	132	64	<b>238</b>		
% of Hours	17.6%	55.5%	26.9%	100.0%		
Direct Costs						\$500.00
Total Costs	\$6,720.00	\$13,893.00	\$3,960.32	\$24,573.32		<b>\$25,073.32</b>



# **VI. Update on Capital Fund Balance Projection**

Glencoe Park District  
January 5, 2021 Committee of the Whole Meeting

# MEMORANDUM

TO: Board of Park Commissioners  
FROM: Lisa Sheppard, Executive Director; Carol Mensigner, Director of Finance & Human Resources; and Chris Leiner, Director of Parks & Maintenance,  
SUBJECT: Capital Funds Available/Update  
DATE: December 29, 2020

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**EXECUTIVE SUMMARY:** Based on aggressive market conditions, the District received very competitive bid prices for Master Plan Capital Projects; specifically, Schuman Overlook, Connect Glencoe, and Duke Park Playground. Lower than projected costs on these Master Plan projects have improved the projected cash balance of Fund 69 as of December 28, 2021. The December 2020 capital funding projection represents an increase of approximately \$610,000 in projected reserves in Fund 69 as of the end of the fiscal year.

**FULL DETAIL:** At the December 15, 2020, Regular Board Meeting, Commissioners reached a consensus on the inclusion of the Kalk Park plaza as a project alternate in the FY2021/22 Phase Two renovation of Kalk Park. As part of that discussion, Commissioners requested more information on what impact would be made to the District's 3-Year Capital Master Plan to fund this project alternate, because the cost was outside the Kalk Park project budget.

Now that the FY2020/21 Capital Projects are completed or near completion, enough new data is available to provide updated projections to the Board of Park Commissioners on the funding available for future capital projects. The initial projections provided to the Board in June are as follows:

Projected Fund 69 for 2/28/21 as of June 2020	
Fund 69 (Operating Surplus)	\$1,765,401
Total Funds Available	\$1,765,401

As previously discussed, based on aggressive market conditions, the District received very competitive bid prices for Master Plan Capital Projects, specifically Schuman Overlook, Connect Glencoe, and Duke Park Playground. Lower than projected costs on these Master Plan projects have improved the projected cash balance of Fund 69. The projection below represents updated information as of December 2020:

Projected Fund 69 Upon Project Completion as of December 2020	
Fund 69 (Operating Surplus)	\$2,376,416
Total Funds Available	\$2,376,416

The December capital funding projection represents an increase of approximately \$610,000 in projected reserves. These additional monies are due to the following major savings:

1. The first of two payments from PDRMA for the pier received August 2020. (\$69,146)
2. Schuman Overlook (north) completed under budget. (Savings of \$106,410)
3. Connect Glencoe projected to be completed under budget. (Projected Savings of \$275,450)

# MEMORANDUM

4. Repairs to Friends Park “poured in place” safety surface completed under budget. (Savings of \$14,849)
5. FY2018/19 projects closed out in July under budget (Halfway House/Takiff Playground). (Savings of \$42,898)
6. Design Fees for FY2021/22 projects were paid using additional Bond proceeds. (Unexpended Funds of \$108,000).

It is important to note that the reimbursement of \$600,000 from IDNR grant money is included in the fund balance of \$2,376,416 as of 2/28/21. However actual monies have **not** yet been received. While the IDNR has indicated to the Park District that we will eventually receive this money, the timing of that is unknown.

