

**Bid Document for**  
**Supplying & Installing Playground Equipment & Related Site Work**  
**at**  
**Benjamin Franklin School**

**Bid Opening: February 18, 2016 @ 10:00 a.m.**

**Central Services Office  
Glen Ellyn District 41  
793 North Main Street  
Glen Ellyn, IL 60137**

**Invitation to Bid**

Bids will be accepted for **Supplying & Installing Playground Equipment & Related Site Work** at Benjamin Franklin School in Glen Ellyn until 10:00 a.m. on February 18, 2016, at the Central Services Offices of Glen Ellyn School District 41, 793 North Main Street, Glen Ellyn, IL 60137.

**Owners Expectation – General Bid Specifications**  
**Supplying & Installing Playground Equipment and Related Site Work**  
**at Benjamin Franklin School**

**I. General**

1. The Contractor is responsible for visiting the site and becoming acquainted with all local conditions which will affect the installation. No extras will be accepted. Site visits must be arranged in advance with Dave Scarmardo, Director of Buildings & Grounds, 630-352-7921 or [dscarmardo@d41.org](mailto:dscarmardo@d41.org)

**Jobsite Location:**

Benjamin Franklin School  
350 Bryant Avenue, Glen Ellyn, IL 60137

2. All play equipment shall be manufactured by Landscape Structures, Surface America or approved equal. Local distributor NuToys Leisure Products, 1 (800) 526-6197. Bidders must completely familiarize themselves with the equipment specifications, plans, and equipment lists which are part of this document. The material, products and equipment described in the Bidding Documents and shown on the drawings establish a standard of required materials, required play activities,

dimension, appearance, durability, quality and warranty to be met by any proposed substitution. No substitution will be considered unless such request for substitution includes complete drawings, cuts, performance and test data, and any other information which demonstrates that the equipment meets our specifications as described herein and is in conformity with the playground plans. A complete written statement setting forth any difference in materials, equipment, or equipment layout shall be submitted with the bid if alternate products are being proposed. **Failure to submit a complete disclosure of differences in the plan and specifications will result in disqualification of a bid.** The burden of proof of the merit of the proposed substitute is upon the bidder. The Owner's decision on approval of a proposed substitution shall be final.

3. All play equipment and all play equipment components shall be IPEMA certified. All play equipment shall conform to the ASTM 1487-01 and to the Consumer Product Safe Commission (CPSC) Handbook for Public Playground Safety. Manufacturer certification of compliance must be submitted with the bid.
4. Play equipment warranty shall be minimum 3 years from date of shipment on the entire structure, 15 years on all plastic components, including slides, tunnels, TuffTimbers and TenderTuff coating. A 100-year warranty shall be provided by the manufacturer on all aluminum posts, beams, caps and clamps. Complete copy of the manufacturer's warranty must be submitted with the bid.

## **II. Timing of Construction**

It is anticipated that construction of the playground will begin after June 13 and be completed by July 29, 2016.

## **III. Scope of Work**

The following tasks are included in the base bid:

1. Supply and install play structure, equipment in accordance with the attached specifications and plan and equipment lists including unloading and storing equipment prior to and during installation.
2. Excavation of area, if needed, to meet existing play area (top of border to match existing).
3. The Contractor shall be responsible for removing and disposing all debris and packing materials from the job site.
4. Contractor shall exercise care so as not to damage existing grass, walks, or other School District property during the performance of its contract. Contractor shall repair or replace any damaged grass or material, should damage occur during construction.
5. Supply and install 65 lineal feet of concrete curb 6''x18''. Supply and install 1,037 square feet of crushed stone at 5'' thick. Supply and install 1,037 square feet of poured in place in accordance with the specifications.

**IV. Insurance—**

The Contractor shall carry Liability Insurance with a minimum coverage of \$1,000,000 including Umbrella covering in the following categories:

- Personal Injury
- Property Damage
- Vehicles
- Completed Operations

The Contractor shall also be covered by Workman's Compensation Insurance that meets Illinois limits. Manufacturers of playground equipment shall carry Product Liability insurance with limits of no less than \$10 million, including umbrella policy. Certificates of Insurance showing such coverage shall be furnished with the bid.

**V. Safety**

Contractor shall fence in the area during construction to prevent citizen use during construction.

**VI. References**

Contractor shall list the names, addresses, and phone numbers of at least three (3) references where work of a similar nature and scope has been performed. (Preferably School Districts.)

**VII. Payment**

The Owner shall make final payment within thirty (30) days after completion and acceptance of the work. No payment will be made to the Contractor until final waivers of lien have been submitted, assuring the School District that all materials, including play equipment and concrete used on this project, have been fully paid for.

**Owners Expectation – Equipment List  
Supplying & Installing Playground Equipment and Related Site Work  
at Benjamin Franklin School**

OPTION 1A REVISED  
FREESTANDING PLAY COMPONENTS

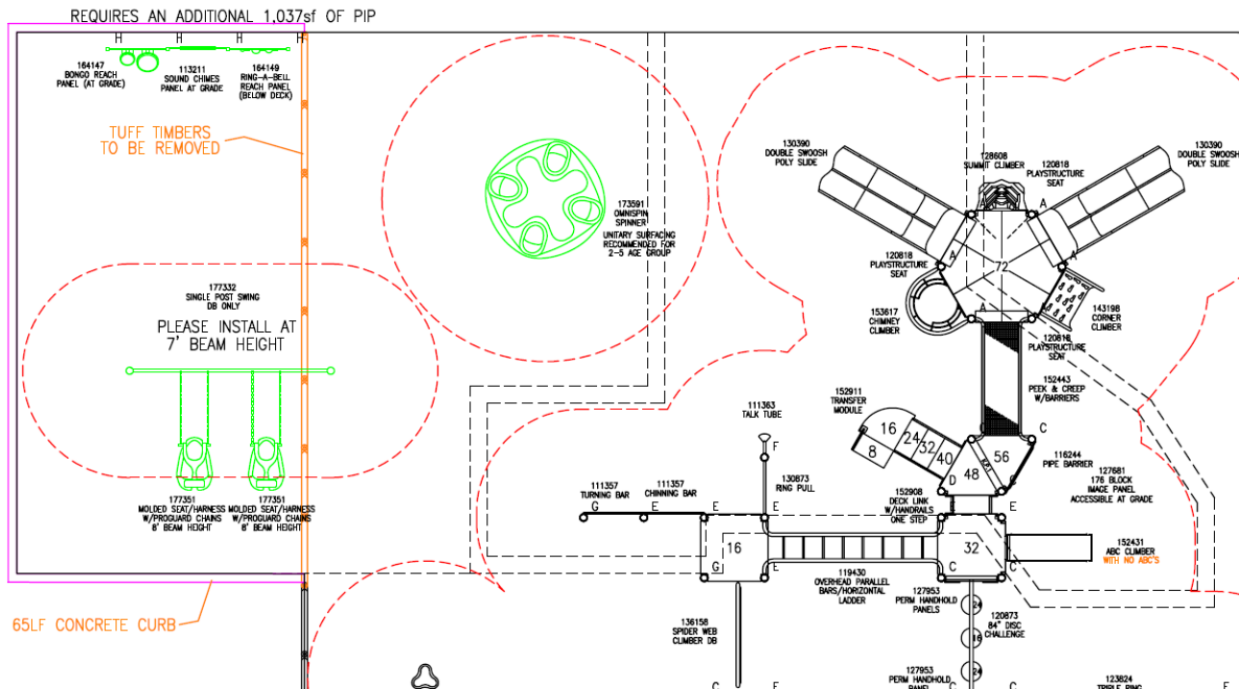
QTY.	NO.	DESCRIPTION
		5-12 Year Olds Play Equipment
		Additions to Existing Play Equipment
1	173591A	OmniSpin Spinner Surface Mount
2	177351A	Molded Bucket w/Harness Proguard Chains 8' Beam
1	177332A	Single Post Swing Frame 8' Beam
1	164147A	PS Bongo Reach Panel Ground Level
1	113211A	PS Chimes Panel Ground Level
1	164149A	PS Ring A Bell Reach Panel Ground Level
4	111397H	PS 69"Post DB

Surface America  
PlayBound Poured in Place

3" thick (Thicknesses are subject to a nominal variation) system with top surface in 50% color 50% black speckled mix. Includes standard aromatic. Includes freight and installation. 1,037 Sq Ft Poured-in-Place

Notes:

- \* 3" thick poured-in-place system meets 7' critical fall height.
- \* Surface America quotes are based on thickness/critical fall height performances as tested by an accredited laboratory.
- \* The above surfacing price includes shipping and installation but does not include any base construction or preparation.
- \* Surface America poured-in-place system is IPEMA certified.
- \* Quote does not include security that is needed to protect the surfacing during curing time. Purchaser shall be responsible for security, as needed, to prevent vandalism and/or damage of any type to the surface during installation process, curing time, and after the installation is completed.
- \* Surface America recommends the following colors be used as accent colors only: Teal, Yellow, Purple and Primary Red. If one of the listed colors is selected for more than 25% of the top surface, additional charges may need to be added.
- \* Price valid 120 days from day quote is provided.



## **INDIVIDUAL EQUIPMENT SPECIFICATIONS**

### **PLAYGROUND EQUIPMENT**

#### **PART 1 - GENERAL**

##### **SUMMARY**

Section includes playground equipment and associated signage. Furnish all labor and materials and equipment required to install the play equipment as indicated on the drawings or specified herein. The work shall include any incidentals to provide a finished job.

##### **DEFINITIONS**

Use Zone: According to ASTM F1487, the “area beneath and immediately adjacent to a play structure or equipment that is designed for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment.”

IPEMA: International Play Equipment Manufacturers Association.

Fall Height: According to ASTM F 1487, “the vertical distance between a designated play surface and the protective surfacing beneath it.”

##### **DESIGN REQUIREMENTS**

Compliance with current guidelines, standards, laws and building codes for safety and accessibility: ASTM F1487-11 – Standard Consumer Safety Performance Specifications for Playgrounds for Public Use. U.S. Consumer Products Safety Commission (CPSC) Guidelines (No. 325)– Handbook for Public Playground Safety ADA Accessibility Guidelines (ADAAG) Section 15.6 Play Areas Chicago Building Code: Chapter 18-11-1115 Play Areas

Site specificity of design – Equipment design/component selection is based on specific needs of the school/district, physical constraints of the site, and public input. Design requirements include: Play value; Capacity; Footprint; Color availability; Visual density and appearance; Age appropriateness; Height/Size; Sensory stimulation; Accessibility/usability for those with special needs.

Products selected are durable and proven to withstand very high use environment.

##### **PERFORMANCE REQUIREMENTS**

Structural Performance Requirements:

Aluminum Posts: All Aluminum PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating.

Steel Post Mechanical Properties:

- Yield Strength (min): 50,000 PSI
- Tensile Strength (min): 55,000 PSI

- Elongation: 25% in 2 inches
- Modulus of Elasticity: 29.5 x 10<sup>6</sup> PSI

Clamps: All clamps are ProShield finished and, unless otherwise noted, shall be die cast using a 369.1 aluminum alloy and have the following mechanical properties:

- Ultimate Tensile: 47,000 PSI
- Yield Strength: 28,000 PSI
- Elongation: 7% in 2 inches
- Shear Strength: 29,000 PSI
- Endurance Limit: 20,000 PSI

Each functional clamp assembly shall have an appropriate number of half clamps and shall be fastened to mating parts with (2) 3/8" x 1 1/8" pinned button head cap screws (SST) and (2) stainless-steel (SST) recessed "T" nuts. A 1/4" aluminum drive rivet with stainless steel pin is used to ensure a secure fit to the post. Clamps should allow for future maintenance/adjustment without effecting integrity of the posts.

## SUBMITTALS

Product Data: For each type of product indicated.

LEED Submittals: percentage of recycled materials used; percentage of post-consumer recycled materials used.

Shop Drawings: For playground equipment and structures. Include plans, color renderings, elevations, and installation details.

Samples: Provide color charts. Provide material samples upon request or as required.

Qualifications: For qualified installer, manufacturer, and testing agency.

Test Reports: Provide evidence of IPEMA certification for playground products.

### Certifications:

- Manufacturer is ISO 9001:2008 certified (quality assurance processes)
- Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
- IPEMA (International Play Equipment Manufacturers Association) third party certification for conformance to ASTM F1487.
- Statement from manufacturer that products meet current safety and accessibility requirements.

### Closeout Submittals:

Maintenance Kit: An order-specific maintenance kit shall be provided for each structure order. The kit will include a notebook or packet with a second set of installation documents and order-specific maintenance documentation with recommendations on how often to inspect, what to look for and what to do to keep the equipment in like-new condition. The kit also includes touch-up primer, appropriate color touch-up paint, sandpaper, appropriate color touch-up PVC, graffiti remover and additional installation tools for the tamperproof fasteners.

## Warranty Information.

Statement from manufacturer's representative identifying that installation has been performed in accordance with installation instructions.

## QUALITY ASSURANCE

### Manufacturer Qualifications:

- Manufacturer is ISO 9001:2008 certified (quality assurance processes)
- Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
- Standard products are IPEMA (International Play Equipment Manufacturers Association) third party certified for conformance to ASTM F1487.

Installer Qualifications: The Contractor installing the equipment must be experienced in the installation of play equipment with personnel, facilities, and equipment adequate for the work specified and shall, within 48 hours of a request, produce written proof of such.

Sample Installations: Contractor shall upon request produce a list of at least 20 other projects where similar work, from same manufacturer, has been performed and could be reviewed.

Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Prior to the start of the playground equipment installation work, coordinate a conference at the Site to review the construction schedule, availability of materials, installers personnel qualifications, equipment and facilities needed to make progress and avoid delays, installation procedures, testing, inspecting, and certification procedures, and coordination with other work. Meeting shall include the Contractor, Board Authorized Representative, Architect, installer, and any other subcontractors or material technical service representatives whose work, or products, must be coordinated with the playground equipment installation work.

## DELIVERY, STORAGE, AND HANDLING

Packaging: PlayBooster posts shall be individually packaged in sturdy, water-resistant, mar-resistant cardboard boxes. Other components shall be individually wrapped or bulk wrapped to provide protection during shipment. Small parts and hardware packages will be placed in crates for shipment. The components and crates are then shrink wrapped to skids (pallets) to ensure secure shipping.

Delivery: Equipment will be on delivered F.O.B. curbside. Installer will be responsible for unloading, storage, and security of the equipment until accepted by the owner.

Packing List: All shipments shall include a packing list for each skid/container, specifying the part numbers and quantities on each skid or within each container.

## WARRANTY

100-Year Limited Warranty for all aluminum posts, stainless steel fasteners, clamps, beams and caps, against structural failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.



15-Year Limited Warranty for all plastic and steel components against structural failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.

15-Year Limited Warranty for TenderTuff coating against structural failure due to natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.

8-Year Limited Warranty On Aeronet® climbers and climbing cables against defects in materials or manufacturing defects.

3-Year Limited Warranty for all other parts, including CableCore Products, Swing seats and hangers; Trackride trolleys and bumpers; all rocking equipment, etc. against failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.

## **PRODUCTS**

### **MANUFACTURERS**

Manufacturers:

Landscape Structures, 601 7<sup>th</sup> Street South, Delano, MN 55328. Locally represented by NuToys Leisure Products, 915 Hillgrove, LaGrange, IL 60525, (708)579-9055 or (800) 526-6197.

### **PRODUCTS**

Basis-of-Design Product: The Drawings and Specifications are based on Landscape Structures, PlayBooster System.

### **MATERIALS:**

All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all steel parts by the use of time-tested coatings such as zinc plating, galvanizing, ProShield® finish, TenderTuff™ coating, etc. Colors shall be specified.

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless-steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications). All primary fasteners shall include a locking patch type material that will meet the minimum torque requirements of IFI-125. Manufacturer to provide special tools for pinned tamperproof fasteners.

Decks: All decks shall be of modular design and have 5/16" diameter holes on the standing surface. There shall be minimum of (4) slots in each face to accommodate face mounting of components. Decks shall be manufactured from a single piece of low carbon 12 GA (.105") sheet steel conforming to ASTM specification A-1011. The sheet shall be perforated with a return flange on the perimeter to provide the reinforcement necessary to ensure structural integrity. There shall be no unsupported area larger than 3.5 square feet. The unit shall then be TenderTuff-coated brown or gray only. Decks shall be designed so that all sides are flush with the outside edge of the supporting posts.

**Rotationally Molded Polyethylene Parts:** These parts shall be molded using prime compounded linear low-density polyethylene with a tensile strength of 2500 psi per ASTM D638 and with color and UV-stabilizing additives. Wall thickness varies by product from .187" (3/16") to .312" (5/16"). Eleven standard colors available.

**Permalene® Parts:** These parts shall be manufactured from 3/4" high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM D638. Five standard solid colors are available. Some Permalene parts are available in a two-color product with (2) .100" thick exterior layers over a .550" interior core of a contrasting color. Eight standard two-color options available.

**Recycled Permalene Parts:** These parts shall be manufactured from 3/4" high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM D638. Available in a three-layer product with (2) .100" thick colored exterior layers over a .550" thick 100% recycled Black interior core. Eleven standard color options available.

**Hardware Packages:** All shipments shall include individual component-specific hardware packages. Each hardware package shall be labeled with the part number, description, a component diagram showing the appropriate component, package weight, a bar code linking the hardware package to the job number, assembler's name, date and time the package was assembled, work center number, and work order number.

**Installation Documentation:** All shipments shall include a notebook or packet of order-specific, step-by-step instructions for assembly of each component, including equipment assembly diagrams, estimated hours for assembly, footing dimensions, concrete quantity for direct bury components, fall height information, area required information and detailed material specifications.

## FINISHES:

**TenderTuff Coating:** Metal components to be TenderTuff-coated shall be thoroughly cleaned in a hot phosphatizing pressure washer, then primed with a water-based thermosetting solution. Primed parts shall be preheated prior to dipping in UV stabilized, liquid polyvinyl chloride (PVC), then salt cured at approximately 400 degrees. The finished coating shall be approximately .080" thick at an 85 durometer with a minimum tensile strength of 1700 psi and a minimum tear strength of 250 lbs/inch. Five standard colors available, all with a matte finish.

**ProShield Finish:** All metal components with ProShield finish shall be thoroughly cleaned and phosphatized through a five-stage power washer. Parts are then thoroughly dried, preheated and processed through a set of automatic powder spray guns where a minimum .002" of epoxy primer is applied. A minimum .004" of architectural-grade Super Durable polyester TGIC powder is applied. The average ProShield film thickness is .006".

ProShield is formulated and tested per the following ASTM standards. Each color must meet or exceed the ratings listed below:

- Hardness (D3363) rating 2H

- Flexibility (D522) pass 1/8" mandrel
- Impact (D2794) rating minimum 80 inch-pounds
- Salt Fog Resistance (B117 and D1654) 4,000 hours and rating 6 or greater
- UV Exposure (G154, 340 bulb) 3,000 hours, rating delta E of 2, and 90 percent gloss retention
- Adhesion (D3359, Method B) rating 5B

The Paint Line shall employ a “checkered” adhesion test daily.

Twenty-six standard colors available.

## 1. Product Name

PlayBound™ Poured-in-Place Playground Surfacing

## 2. Manufacturer

Surface America, Inc.

P.O. Box 157

Williamsville, NY 14231

(800) 999-0555

(716) 632-8413

Fax: (716) 632-8324

E-mail: [info@surfaceamerica.com](mailto:info@surfaceamerica.com)

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



## 3. Product Description

1.

### BASIC USE

PlayBound™ Poured-in-Place Playground Surfacing is designed for playgrounds.

### COMPOSITION & MATERIALS

PlayBound™ Poured-in-Place surfacing is a 2-layer system consisting of a basemat of 100% post-consumer recycled SBR (styrene butadiene rubber) and polyurethane and a top surface consisting of recycled post-industrial EPDM (ethylene propylene diene monomer) rubber and polyurethane.



Graphics that tell a story or can be used as educational tool

The type of playground equipment determines the required basemat thickness, and the basemat thickness may be different at various locations on the playground site. Depending on ASTM F1292 requirements for critical fall height 4', 5', 6', 7', 8', 9' or 10' (1.2, 1.75, 1.8, 2.1, 2.4, 2.7, 3.1 or 3.6 m), select basemat thickness from optional thicknesses 1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4" or 5" (31.75, 38, 51, 64, 76, 89, 102 or 127 mm), respectively. Specify project requirements and coordinate with working drawings.

2. Typical design edge details include:

- Loose fill poured-in-place crushed stone (contained)
- Loose fill poured-in-place concrete
- Flush poured-in-place
- Overrun poured-in-place
- Saw Cut poured-in-place

## BASEMAT THICKNESSES

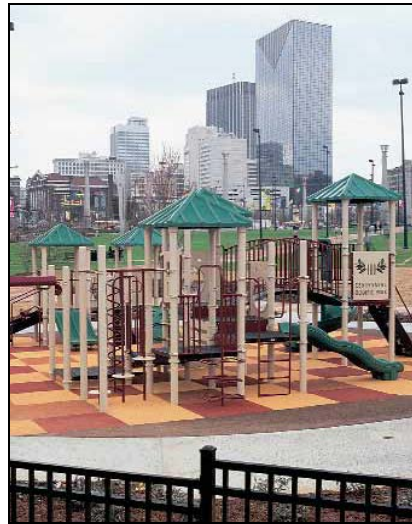
1 1/4", 1 1/2", 2", 2 1/2", 3", 3 1/2", 4", 5" (31.75, 38, 51, 64, 76, 89, 102, 127 mm)

## TOP SURFACE THICKNESS

Nominal 1/2" (12.7 mm), minimum 3/8" (9.5mm), maximum 5/8" (15.9 mm)

## TOP SURFACE COLORS

- Standard Combination – Everglade (75% Bright Green, 25% Black)
- Standard Combination – Berries (17% Pink, 17% Purple, 17% Light Gray, 49% Black)
- Standard Combination – Camouflage (40% Army Green, 40% Brown, 20% Eggshell)
- Standard Combination – Nightlife (17% Purple, 17% Sky Blue, 17% Army Green, 49% Black)
- Standard Combination – Sierra (75% Terra Cotta Red, 25% Beige)
- Standard Combination – Jazz (13% Yellow, 13% Sky Blue, 13% Primary Red, 13% Light Gray, 48% Black)
- Standard Combination – Sea Breeze (67% Sky Blue, 33% Yellow)
- Standard Combination – American (17% Primary Red, 17% Sky Blue, 17% Light Gray, 49% Black)
- Standard Combination – Confetti (50% Terra Cotta Red, 25% Purple, 25% Yellow)
- Terra Cotta Red
- Primary Red
- Orange (indoor use only)
- Pink
- Gold
- Beige
- Yellow
- Bright Green
- Army Green
- Hunter Green
- Teal
- Sky Blue
- Royal Blue
- Purple
- Brown
- Pearl
- Eggshell
- Light Gray
- Dark Gray
- Black



Use colors to create checkered pattern.

- Custom color combinations and graphics

## **LIMITATIONS**

The following chemicals may cause damage to the playground surface and should be avoided: disinfectants, concentrated chlorine bleach, gasoline, diesel fuel, hydraulic and lubricating oils, acids and organic solvents.

Though not commonly used in water play areas, pool surrounds and similar applications, dissolved minerals and other chemicals (hydrochlorides) may cause surface discoloration over time. This condition, should it occur, is not considered to be a product failure.

A yellowish shading of the top surface will be noticeable when using standard aromatic polyurethane binder to encapsulate some colors of EPDM granules. This is an industry wide design issue. An aliphatic binder, which does not produce this yellowish shading, is available at a somewhat higher cost. The specifier should seriously consider its use, especially with the following surface colors: blue, light gray, purple and pearl. Consult manufacturer for more information.

## **4. Technical Data**

### **APPLICABLE STANDARDS**

ASTM International

- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers- Tension
- ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
- ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish- Coated Floor Surfaces as Measured by the James Machine
- ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials
- ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
- ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment
- ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment

## **APPROVALS**

PlayBound Poured-in-Place Playground Surfacing is certified by the International Play Equipment Manufacturers Association (IPEMA). Contact manufacturer for information on approvals by major owners, agencies and other industry entities.

## **ENVIRONMENTAL CONSIDERATIONS**

This system makes extensive use of recycled tire rubber as a major component.

## **PHYSICAL/CHEMICAL PROPERTIES**

- Shock attenuation (ASTM F1292) Gmax - Less than 200
- Head injury criteria - Less than 1000
- Tensile strength (ASTM D412) - 60 psi (413 kPa)
- Tear resistance (ASTM D624) - 140%
- Water permeability - 0.4 gal/yd<sup>2</sup>/second
- Dry static coefficient of friction (ASTM D2047) - 1.0
- Wet static coefficient of friction (ASTM D2047) - 0.9
- Dry skid resistance (ASTM E303) - 89
- Wet skid resistance (ASTM E303) – 57 Required mix proportions by weight:
- Basemat - 14% polyurethane, 86% rubber
- Top course - 18% polyurethane, 82% rubber

Test reports and additional product information are available upon request.

## **FIRE PERFORMANCE**

Flammability (ASTM D2859) - Pass

## **5. Installation**

### **PREPARATORY WORK**

Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C).

## **METHODS**

Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.



Systems applied onsite

Verify that substrate conditions are suitable for installation of the playground surfacing system and do not proceed with installation until unsuitable conditions are corrected.

**Surface Preparation**

Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft<sup>2</sup>/gal (7.5 m<sup>2</sup>/L).

**Basemat Installation**

Using screeds and hand trowels, install the basemat at a consistent density of 29 pounds, 10 ounces per cubic foot (475 kg/m<sup>3</sup>) to the specified thickness.

Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.

**Primer Application**

Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft<sup>2</sup>/gal (7.5 m<sup>2</sup>/L).

**Top Course Installation**

Using a hand trowel, install basemat at a consistent density of 58 pounds, 9 ounces per cubic foot (938 kg/m<sup>3</sup>) to a nominal thickness of 1/2" (12.7 mm).

Allow top course to cure for a minimum of 48 hours. At the end of the minimum curing period, verify that the top course is sufficiently dry and firm to allow foot traffic and use without damage to the surface. Do not allow foot traffic or use of the surface until it is sufficiently cured.

Complete installation recommendations are available from the manufacturer.

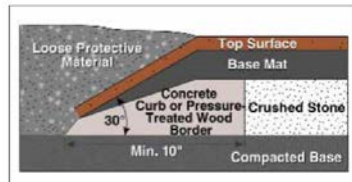
**PRECAUTIONS**

Protect the installed playground surface from damage resulting from subsequent construction activity on the site.

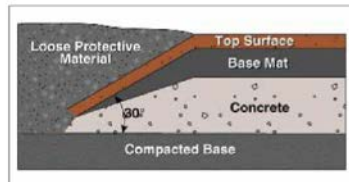


## BUILDING CODES

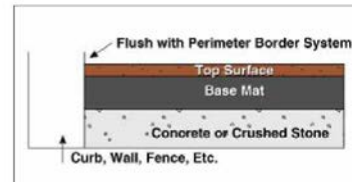
Current data on product compliance may be obtained from the manufacturer's technical support specialists.



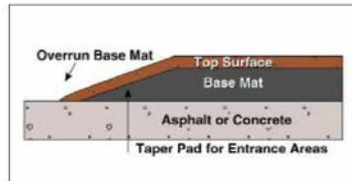
Typical Edge Detail: Loose-Fill with Crushed Stone (contained)



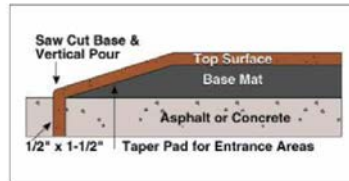
Typical Edge Detail: Loose-Fill with Concrete



Typical Edge Detail: Flush



Typical Edge Detail: Overrun



Typical Edge Detail: Saw Cut

## Availability & Cost

### AVAILABILITY

PlayBound Poured-in-Place Surfacing System is available through Surface America, Inc. Contact Surface America, Inc., for more information.

### COST

Budget installed cost information may be obtained from Surface America, Inc.

### Warranty

The standard warranty period is 7 years from date of completion of work (though not recommended in water play areas, pool surrounds or similar applications, when installed, the warranty is 2 years). Contact Surface America, Inc., for more information on warranty terms.

### Maintenance

Hose off entire playground surface to remove food, drink, sand, dirt and loose debris. A pressure washer may be used, but do not exceed 1500 psi (10 MPa) pressure or place nozzle closer than 12" (305 mm) to surface. While surface is still damp, apply a mild household or commercial cleaner to a small area using a sprayer. Scrub using a medium bristle brush. Repeat as necessary on heavily stained areas. Once entire surface has been cleaned, rinse using a garden hose with spray nozzle attachment. Complete maintenance recommendations are available from the manufacturer.

### Technical Services

Surface America, Inc., works closely with the contractor to ensure the site is prepared and the installation is on schedule. For technical assistance, contact Surface America, Inc.

### Filing System

Additional product information is available from Surface America, Inc., upon request.

## **EXECUTION**

### **EXAMINATION**

Examine the area and conditions of the site. Verify safety zones of all equipment before setting posts in concrete footing. Proceed with installation only after unsatisfactory conditions have been corrected.

### **PREPARATION**

Verify that all equipment needed for installation has been sent correctly.

### **INSTALLATION:**

Conform strictly to manufacturer's instructions. Use only experience personnel trained in play equipment installation. Provide all concrete footings as required. It is the contractor's responsibility to adjust drainage pipe or other new utility locations to accommodate the equipment footings.

### **FIELD QUALITY CONTROL**

Contractor shall contact manufacturer's representative to review playground installation for accuracy. Contractor shall notify Architect to review installation for review of overall conformance to specifications and workmanship.

### **ADJUSTING**

Ensure that adjustments required by inspections are corrected to owner's satisfaction.

### **CLEANING AND PROTECTION**

Contractor is responsible to protect equipment until accepted by owner. Consult manufacturer's cleaning instructions.

**Bid Reply Form**  
**Supplying & Installing Playground & Related Site Work**  
**at Benjamin Franklin School**

Having read all sections of the bid documents, plans, and equipment specifications and familiarized ourselves with the existing conditions which might affect the work, we are pleased to bid as follows on all the work associated with this project as described above.

**Bid:**

Includes all the work described in Bid Specifications above.

**Total Bid.....\$**\_\_\_\_\_

**Signature:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Note:**

Bid Form to be returned with Certification Form, Signature Page and Reference Sheet. Bids will be publicly read at 10:00 a.m. February 18, 2016, at 793 North Main Street, Glen Ellyn, IL 60154

**BOARD OF EDUCATION  
GLEN ELLYN DISTRICT 41  
DuPAGE COUNTY, ILLINOIS**

**Certification Form  
(Bid Proposal)**

As a duly authorized agent of the company, I do hereby certify that we are not barred from bidding on this contract/project as a result of a conviction of either Section 33E-3 or 33E-4 of Article 33E of Chapter 38 of the Illinois Revised Statutes for bid-rigging or bid rotating.

**Certification:** Bidders must certify that they are not barred from bidding on this project as a result of a conviction for either bid-rigging or bid rotating under Article 33E of the Criminal Code of 1961. This certification form must be signed by a duly authorized agent of the bidding company and returned with your proposal. Failure to do so shall disqualify your bid.

**Certificate of Eligibility to Contract:** That, pursuant to Section 33E-11 of the Illinois Criminal Code of 1961, as amended, the undersigned hereby certifies that neither (he, she, it) nor any of (his, her, its) partners, officers, or owners of (his, her, its) business has been convicted in the past five (5) years of the offense of bid-rigging under Section 33E-3 of the Illinois Criminal Code of 1961, as amended; that neither (he, she, it) nor any of (he, she, its) partners, officers or owners has ever been convicted of bribing or attempting to bribe an officer or an employee of the State of Illinois, or has made an admission of guilt of such conduct which is a matter of record.

**Prevailing Wage Law:** For the entire duration of his work under the contract, the Contractor shall conform to the federal and state statutes relating to the payment of prevailing wages and to all valid rules and regulations now or hereafter issued pursuant thereto, that are cited in Article 1.11, "Wage Payments and Equal Employment Opportunity," of the Department of Labor. The Contractor and Subcontractor shall pay the general prevailing rate of hourly wages in the locality in which the work is to be performed for each craft or type of worker or mechanic needed to execute the contract or perform such work, also the general prevailing rate for legal holiday and overtime work, as ascertained by the Department of Labor for DuPage County, Illinois, for each craft or type of worker needed to execute the contract or to perform such work.

**Illinois Requirement:** The Illinois "Reference to Citizens (Illinois) on Public Works Project Act" shall prevail on this project. In the Preference Act, Section 271, every person who is charged with the duty, either by law of contract, or constructing or building any public works project or improvement for the State of Illinois or any political subdivision, municipal corporation or other governmental unit thereof shall employ only Illinois laborers on such projects or improvement, and every contract let by such person shall contain a provision requiring that such labor be used. In 1975 the Illinois Supreme Court ruled that only Illinois residents could be used on a public works construction project.

**Illinois Drug-Free Workplace Act** (Contractors with 25 or more employees): That having 25 or more employees, the undersigned does hereby certify pursuant to Section 3 of the Illinois Drug-

Free Workplace Act (Ill.Rev.Stat., ch. 127, par. 132.313) that (he, she, it) shall provide a drug-free workplace for all employees engaged in the performance of work under the contract by complying with the requirements of the Illinois Drug-Free Workplace Act, and further certifies that (he, she, it) is not ineligible for award of this contract by reason of debarment for a violation of the Illinois Drug-Free Workplace Act.

**Public Contractors—Written Sexual Harassment Policy:** That said Contractor has a written Sexual Harassment policy in place in full compliance with 775 ILCS5/2-105(A)(4).

**Company name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
\_\_\_\_\_

**Date:** \_\_\_\_\_ **By:** \_\_\_\_\_  
[signature]

**Title:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_ .

\_\_\_\_\_  
Notary Public

SEAL

**Note:** This form must be returned with your bid. Failure to do so may disqualify your bid.

**Bid Reference Sheet**  
**Supplying & Installing Playground Equipment & Related Site Work**  
**at Benjamin Franklin School**

Please list three (3) references (w/contacts) — preferably school districts:

School/Company	Contact	Phone #
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School/Company	Contact	Phone #
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School/Company	Contact	Phone #
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Your Company: \_\_\_\_\_  
(Please Print)