



SPOHNCRETE | **TrueRide** | **HD**HEAVY DUTY

SPOHN RANCH HD SERIES SKATEPARKS DETAILED SPECIFICATIONS 2008



GENERAL

CERTIFICATION:

To ensure the highest level of quality in design, construction, and installation, the following certifications are required:

- All skatepark fabricators must be listed as an approved skatepark contractor by Skatepark Association, USA
- All steel components shall be fabricated by certified welders
- All skatepark installers must be Factory-Certified Technicians who have performed at least ten similar skatepark installations within the last five years

PRODUCT DATA:

Submit manufacturer's product literature indicating materials, finish, and other information required to demonstrate compliance for each component. If equipment is other than specified, a component-by-component description of variations from the specifications must be included with the manufacturer's literature. In addition, independent testing data must be submitted showing that the variations are proven equal or better (with respect to durability, longevity, strength, and usability) to the specifications.

Any vendor/contractor bidding alternate/substitute materials is required to explain in detail the variations from the listed bid specifications. Also list all variations in the size; height, length, or width of any obstacles that do not match those specified in the layout drawings attached. Failure to complete all explanations required by the bidders/contractors proposing alternate/substitute materials from those specified or variations on the size; height, length, or width of any obstacles that do not match those specified in the layout drawings attached may be grounds for rejection of the bid. If awarded bid is later found to not comply with these specifications and the detailed explanations were not provided thoroughly and completely with their bid submission, it would be the vendor/contractor's responsibility to remedy the items/materials of concern and comply with the specifications. If an acceptable corrective action cannot be rectified, at the owner's discretion, it will be the vendor/contractor's responsibility to remove the materials from the owner's premises at the expense of the vendor/contractor.



DRAWING SUBMITTALS:

Scaled plan and 3D perspective view drawings shall be submitted that exactly match the specified equipment layout. All obstacle heights, widths, lengths, and other geometry shall not vary from those listed. Equipment layout shall conform to industry standards for spacing and placement of obstacles.

SAMPLES:

If equipment is other than specified, submit samples including, but not limited to: support structure, enclosure panel, foot, deck, rail assembly, and surfacing materials.

WARRANTY:

Provide a certificate of warranty that meets or exceeds the requirements below. If the manufacturer's standard warranty does not meet these minimum requirements, a certificate of extended warranty from the manufacturer or contractor must be included. Warranty periods may not be expressed as "Lifetime" and must be expressed in specific years as required below. For more details, see the attached document.

As a minimum, manufacturer shall provide proof of:

- Twenty-year Limited Warranty on all steel support structures
- Ten-year limited warranty on galvanized steel approach plate and exclusive Perforated Aluminum Substrate
- Five-year limited warranty on phenolic (Skatelite Pro) riding surface*

*Riding surface warranty must carry the same length of time that the manufacturer has been using it on their products to warranty that their surface is "as equal" to Skatelite Pro. If vendor/contractor is bidding an alternate/substitute riding surface, they must provide 5-references within the last 5-YEARS that have used their alternate riding surface to prove that it is suitable for skatepark use.

INSURANCE:

Manufacturer must carry a minimum of \$7 million in Product Liability Insurance, and provide proof of such insurance with bid.

Designer must carry a minimum of \$2 million in Professional Liability (Errors & Omissions) Insurance, and provide proof of such insurance with bid.

QUALITY ASSURANCE:

Manufacturer: At least fifty completed skateparks constructed with the exact same materials and construction techniques. Upon request, provide list of completed structures to the Owner's Representative with skatepark owner's name, address, phone, and representative's name.

Lead Installer: At least twenty-five completed skateparks constructed with the exact same materials and construction techniques. Upon request, provide list of completed structures to the Owner's Representative with skatepark owner's name, address, phone, and representative's name.



DEVIATIONS FROM SPECIFICATION:

If equipment offered differs from the provisions contained in this specification, such deviations must be submitted and explained in detail for prior approval. Testing data must be provided proving equal or better. **The following deviations from the specification WILL NOT receive approval:**

- No other structure will be accepted other than the Integrated Support System
- No other leveling system will be accepted other than adjustable steel base plates with minimum 4" diameter contact pads
- Only Double-Thickness phenolic surfacing (1/2" Skatelite Pro) will be accepted on flat surfaces (decks and banks)
- Only Pro-Alum surfacing (1/4" Skatelite Pro over 1/4" perforated aluminum substrate) will be accepted on radiused surfaces (transitions and bowls)
- No fiberglass or plastic sub layer or surface material of any kind will be acceptable
- No steel surface material of any kind will be acceptable, regardless of the surface treatment
- No powder-coated components of any kind will be acceptable
- No on-site steel welding or fabrication will be acceptable

ELEMENTS

MANUFACTURERS

The following skatepark equipment specifications are based on those provided by Spohn Ranch, Inc. 15131 Clark Avenue, City of Industry, CA 91745, (626) 330-5803. Any proposal shall meet or exceed the specifications herein as determined by the owner or the owner's representative. Alternate/substitute materials will be considered for approval; however, it will be the sole discretion of the owner or owner's representative to determine if such proposal for alternate/substitute materials is acceptable. All equipment manufacturers requesting approval of equipment for use on this project must submit all information and certifications as required and specified herein TEN DAYS prior to Bid or Due date for approval by owner or owner's representative. Submittal packages that do not include all the required information will be returned and will not be considered for use.

COMPONENTS

- All components shall be cut, vented, and welded prior to the galvanizing process so that all metal surfaces, including metal joints, are corrosion protected by a hot-dip galvanized coating both inside and out
- Pre-galvanized tubing will not be accepted as a substitute for hot-dip galvanizing treatment
- No on-site steel fabrication will be accepted

STEEL ANGLE AND TUBING: All angle iron and tubing used to manufacture components shall be an electrical resistance welded, cold rolled, high strength steel. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a five stage bath system, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The fabricated steel framework is hot dip galvanized. All coatings are applied inside and out after welding for superior corrosion protection throughout.

HARDWARE: All nuts, bolts, screws, inserts, and lock-washers used in the assembly of all skatepark equipment and surface fastening shall be stainless steel.



MATERIALS COATING: All hot-dip galvanized coating shall meet or exceed the specifications of ASTM 123-89-A. All zinc coating shall meet or exceed the specifications of ASTM B-63385. Powder coating on any riding or grinding surfaces will not be accepted (including, but not limited to, coping, edge straps, and approach plates).

ANCHORING: All feet shall allow anchoring directly into the concrete or asphalt surface. Concrete anchors shall consist of stud-style interlocking wedge anchors. When necessary, asphalt anchors shall consist of 1/2-13 x 8" threaded rod.

SURFACING: All surfacing shall consist of phenolic panels of 1/2" thickness on flat surfaces (Skatelite Pro). All surfacing shall consist of 1/4" perforated aluminum substrate with 1/4" phenolic panel surfacing on radiused surfaces. No other generic phenolic surfacing besides Skatelite Pro will be acceptable. All surfacing must be attached in a bolt-through fashion using 5/16"-18 stainless steel bolts, washers and Nylock nuts for ease of maintenance.

EDGING: All accessible edges of intersecting and terminating planes of any phenolic surfaced (Skatelite Pro) component must be protected from wear due to normal use. This protection shall be in the form of a hot-dipped galvanized steel material (ASTM A-36) in plane with the equipment riding surface and not protruding above or sitting below this surface by .0625" or greater. This edging must also be of minimum width of 1.5" and integral to the support structure.

This edging shall only border on outside or exposed edges and shall not be found between interior panels of the same plane. All riding surfaces in the same plane shall be contiguous and shall be uniform in friction characteristics.

COPING: All coping shall consist of 2" I.D. Schedule 40 hot-rolled black pipe with galvanized coating. All coping shall be finished with a minimum 1/4" thick x 4" wide galvanized steel peg plate to protect behind the coping.

APPROACH PLATES: All ramps shall feather into the concrete or asphalt with a 3/16" thick galvanized steel plate, manufactured to ASTM A-36 tolerances from cold-formed steel. Approach plates shall range from 6" long to 16" long depending upon the angle of incidence between the slab and equipment surface. Approach plates must be attached with minimum 5/16"-18 flat-head fasteners, and be removable to facilitate secure anchoring of the equipment to the underlying slab.

INTEGRAL SUPPORT SYSTEM

- All skate structures shall be enclosed to enhance safety and prevent unauthorized access and the accumulation of debris
- All enclosures shall have a minimum of 1/2" and a maximum of 2" space between the bottom edge and the ground
- Enclosures shall only contact the ground via adjustable base plates
- All support frames shall utilize adjustable base plates to accommodate uneven ground
- All support frames shall serve as integral enclosure panels and, when necessary, integral guardrails



PERIMETER SUPPORT FRAME WITH GUARD RAIL AND ENCLOSURE: Where a guardrail is required, it shall be integral to the support structure. Guardrails shall be a minimum of 42" tall from the surface of the ramp deck. Guardrails shall have vertical pickets to minimize wind loading, maximize visibility of participants, and discourage climbing. Pickets shall consist of 1" x .060 steel tubing, located so that there are no spaces greater than 4" between pickets. The perimeter frame of the guard rail is to be fabricated of 1.5" x 2" x .083 steel tubing, manufactured to ASTM A-513 Grade B tolerances from cold-formed steel, with 3/4" #9 FXM expanded metal panels inset into the frames. The uppermost horizontal shall be roll-formed at a 4" inside radius and return to the ground at a 90 degree angle. All parts shall be hot-dip galvanized and all welding completed prior to galvanization. Support frames shall be mechanically connected to deck frames at a minimum of two points for every 4' in width as part of the Integral Support System.

EXTERIOR SUPPORT FRAME WITH ENCLOSURE: Where no guardrail is required, and the support frame is on the perimeter of a ramp, it shall abut and sit flush to the phenolic riding surface (Skatelite Pro) such that it provides a minimum of 1.5" of protection to the riding surface. The perimeter frame of the support frame is to be fabricated of 1.5" x 1.5" x .083 steel tubing and 1.5" x 2" x .083 steel tubing, manufactured to ASTM A-513 Grade B tolerances from cold-formed steel, with 3/4" #9 FXM expanded metal panels inset into the frames. All parts shall be hot-dip galvanized and all welding completed prior to galvanization. Support frames shall be mechanically connected to deck frames at a minimum of two points for every 4' in width as part of the Integral Support System.

INTERIOR SUPPORT FRAME WITH ENCLOSURE: Support frames underneath the ramps shall be fabricated of 1.5" x 1.5" x .083 steel tubing and 1.5" x 2" x .083 steel tubing, manufactured to ASTM A-513 Grade B tolerances from cold-formed steel. All parts shall be hot-dip galvanized and all welding completed prior to galvanization. Support frames shall be mechanically connected to deck frames at a minimum of two points for every 4' in width.

ADJUSTABLE BASE PLATES: Heavy-duty adjustable base plates are designed to allow the equipment to be set up on uneven ground, which is especially useful when installing large pieces of equipment. The plates shall thread directly into the Integral Support System, allowing very precise adjusting. The plates shall consist of 4" diameter, 1/4" thick steel base plates with a 3/4"-10 x 2 1/4" threaded shaft, with four holes designed to allow anchoring into the concrete slab. The round feet can be rotated slightly to avoid having any wedge anchors in contact with rebar or other concrete reinforcements. All steel components shall be fabricated to completion prior to the cleaning and galvanization process. Base plates shall allow a minimum of 2" of adjustability, 1" up and 1" down.

SKATEABLE ELEMENTS

DECKS: Decks shall be fabricated from 1.5" x 2.5" x 3/16" galvanized steel angle at 16" on center, manufactured to ASTM A-513 Grade B tolerances from cold-formed steel to permit bolt-through connection of the riding surface. All decks shall be bolted to the Integral Support System. All other components or accessories attach to the deck. All decks shall feature a modular ledger system that allows the integration of any type of component to any side of any deck at the proper orientation. Decks shall be sheeted with Double-Thickness phenolic surfacing (1/2" Skatelite Pro). The final surface must be contiguous and uninterrupted, bordered only at the outside edges with the galvanized steel Integral Support System enclosure frames. Steel strips in the middle of any surface shall not be accepted.



BANKS: All wedges and banks shall be fabricated with 1.5" x 2" x 3/16" galvanized steel angle, manufactured to ASTM A-500 tolerances from cold-formed steel to permit bolt-through connection of the riding surface (Skatelite Pro). All framing shall be a minimum of 12" on center. The banks shall be sheeted with Double-Thickness phenolic surfacing (1/2" Skatelite Pro). The tops of the banks shall feature an integrated 1/4" thick hanger plate to attach them to the decks with precision. All wedges and banks above 25 degrees shall have a 7'11 1/2" radius approach base. The final surface must be contiguous and uninterrupted, bordered only at the outside edges with the galvanized steel Integral Support System enclosure frames. Steel strips in the middle of any surface shall not be accepted.

TRANSITIONS: Transitions shall be fabricated with 1.5" x 2" x 3/16" galvanized steel angle, manufactured to ASTM A-500 tolerances from cold-formed steel to permit bolt-through connection of the skate surface. All framing shall be a minimum of 12" on center. Radiused surfaces shall utilize Pro-Alum surfacing (1/4" Skatelite Pro over 1/4" perforated aluminum substrate - Grade 3003-H14 / ASTM B209, International Perforators Association Pattern #131). The tops of the transitions shall feature a coping locator and hanger plate to precisely attach them to the decks. The final surface must be contiguous and uninterrupted, bordered only at the outside edges with the galvanized steel Integral Support System enclosure frames. Steel strips in the middle of any surface shall not be accepted.

LEDGES: All ledges shall be fabricated with a minimum of 1/4" thick galvanized plate, manufactured to ASTM A-36 tolerances from cold-formed steel. Support points for the ledges should allow for adjustable base plates to thread directly into them.

TOLERANCES:

- All exposed edges shall be galvanized steel
- Coping reveals shall not vary more than 1/8" over the span of a piece of equipment
 - Precise protrusion of coping is critical to the use of skating equipment
- All radii shall not vary more than 1/4" from stated dimension
- There shall be a minimum 1/4" thick x 4" wide galvanized steel plate behind all coping
- Fastener spacing for surface installation shall be a maximum of 16" square centers for the fields of the sheets
- Fastener spacing for surface installation shall be a maximum of 8" square centers for the perimeters of the sheets
- All fasteners shall be counter-sunk and lay flush with the finished riding surface
- All fasteners must have a bolt-through connection with a Nylock nut and washer
- All standing decks shall have return hand railing where applicable
- No base plates/ adjustable feet shall be smaller than 4" outside diameter
- Unless installed on an asphalt pad, no shims or support plates found below the adjustable feet, whether attached or unattached, shall be acceptable
- Any contiguous components greater than or equal to 8' wide shall be comprised of sections no narrower than 8', unless a 4' wide section is required to accomplish the specified width (total width not divisible by 8' sections). Under no circumstances can a bank of ramps 8' wide or wider be comprised of strictly 4' wide sections.



INSTALLATION

SKATEPARK INSTALLATION:

The Owner will provide a site prepared to bidder's specifications, waste disposal services, and a secure area for storage of skatepark equipment and tools prior to and during installation. If necessary, it is also the Owner's responsibility to provide site security during the installation.

The Manufacturer will provide a crew of Factory-Certified Installers experienced in municipal installations to assemble the skatepark equipment, and all specialty and basic tools necessary to complete the installation. These Factory-Certified Technicians must have performed at least ten similar skatepark installations within the last five years.

As well as building the highest quality skateparks, Spohn Ranch, Inc. strives to build long-term relationships based on confidence and trust with our clients. We stand beside, on top, and beneath the quality of our skatepark equipment and will make things right if you are not completely satisfied. To prove that, we provide a One-Year Guarantee on all of our installations. If any problems due to improper workmanship during the first year following installation, we will fix it for free (please see below for further details).

WARRANTY

GENERAL GUARANTEE: Spohn Ranch, Inc. warrants its products to be free from defect in materials or workmanship during normal use and installation and in accordance with our published specifications. Spohn Ranch, Inc. further warrants our HD Series Equipment as follows:

- Limited 20-YEAR WARRANTY against structural failure on Integral Support Frames, Adjustable Base Plates, and Galvanized Steel Framing
- Limited 10-YEAR WARRANTY on Galvanized Steel Approach Plates and Perforated Aluminum Substrate
- Limited 5-YEAR WARRANTY on Phenolic Surface and Stainless Steel Hardware
- Limited 1- YEAR WARRANTY on installation workmanship.

The warranty stated above is valid only if the structures are erected by Spohn Ranch Factory-Certified Technicians in conformity with the layout plan and/ or installation instructions furnished by SPOHN RANCH, INC. using approved parts; have been maintained and inspected in accordance with SPOHN RANCH, INC. instructions; have been subjected to normal use for the purpose for which the goods were designed; have not been subject to vandalism, misuse, neglect, or accident; have not been subjected to addition or substitution of parts; and have not been modified, altered, or repaired by persons other than SPOHN RANCH, INC. or its designees in any respect which, in the judgment of SPOHN RANCH, INC., affects the condition or operation of the structures.

This warranty does not cover cosmetic items (such as scratches, dents, marring, fading, discoloring, and weathering), paint or decorations, normal wear and tear, or coating deterioration caused by climate conditions. Further, this warranty does not cover damage due to environmental and site conditions including, but not limited to, settling concrete, liquefaction, subsidence, and soil erosion.



This warranty does not cover damage due to Acts of God including, but not limited to, hurricane, tornado, flood, riot, and fire. Further, the warranty does not cover damage due to vandalism, any action resulting in or from a criminal activity or any act of war. The warranty for the phenolic surface specifically excludes any damage other than the delamination of panels (please see the separate pages for the specific Skatelite Pro warranty details).

The above warranties commence on the date of installation completion. Should any failure to conform to any of the expressed warranties occur within the applicable warranty period, SPOHN RANCH, INC. shall, upon notification in writing of the defect, correct such nonconformity, either by repairing any defective part or parts or by making available a replacement part within 60 days of the written notification, at its option. This shall be the purchaser's exclusive remedy; SPOHN RANCH, INC. is not responsible for damages of any kind in contract or in tort, including INCIDENTAL AND CONSEQUENTIAL DAMAGES resulting from any breach of warranty.

SPOHN RANCH, INC. shall deliver the repaired or replacement parts to the site free of charge, but will not be responsible for providing labor or the cost of labor for the removal of the defective parts and the installation of any replacement part or parts. Replacement parts shall be guaranteed for the balance of the original warranty period; SPOHN RANCH, INC.'s warranties shall not be enlarged in scope or extended in duration and no obligation or liability shall arise by SPOHN RANCH, INC.'s repair or replacement of any component or surface.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. FURTHER, NO REPRESENTATION, ORAL OR WRITTEN, OF ANY SPOHN RANCH, INC. REPRESENTATIVE MAY BE SUBSTITUTED FOR THE AFOREDESCRIBED EXCLUSIVE LIMITED WARRANTY. TO THE EXTENT PERMITTED BY LAW, SPOHN RANCH, INC. SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHICH ARE EXPRESSLY EXCLUDED FROM THIS SALE.

To make claim under the terms of this Warranty, the Buyer's written statement of claim, along with a copy of the original invoice, maintenance records, and supporting photographs, must be sent to Spohn Ranch, Inc., 15131 Clark Avenue, City of Industry, CA, 91745.