

Nicros Playground Boulders™

PART 1 - GENERAL

1.1 SUMMARY

This document contains the specifications for a playground boulder with a real rock look and feel and minimal install time.

1.2 REFERENCES

ASTM F 1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

Uniform Building Code (UBC) 1994 Edition or code of local conformance.

1.3 SYSTEM DESCRIPTION

Artificial fiberglass composite climbing boulder designed to look and climb like real rock. System shall be molded and hand sculpted. No panelized or GFRC system will be permitted. Boulder design will be selected to satisfy the specific needs as required by the Owner for this project. Boulder to be designed to be shipped on a flatbed truck and lifted into place with the use of a standard construction variable reach forklift or other equipment as required.

1.4 SUBMITTALS

Manufacturer will provide submittals and product data as a part of the bid package.

Submittals:

- Product data including manufacturer's specifications, standard details and installation methods.
- Submit 2 samples of boulder material, minimum 5 inches by 5 inches, showing color and finish.
- Shop drawings indicating available designs, dimensions, list of materials and parts, fastening and anchoring methods.
- Certificate of Insurance as per project requirements.

1.5 INSURANCE

Boulder Manufacturer must carry both Workers Compensation and General Liability including Professional Liability and Product Liability Insurance.

1.6 QUALITY

Manufacturer shall be as specified and shall have a minimum of 15 years experience in the manufacturing of artificial climbing structures. No substitutions will be permitted.

1.7 WARRANTY

Climbing wall manufacturer shall warrant to the original purchaser for one year from the date of completion that its products are free from defects in materials and workmanship. Manufacturer shall provide option for additional warranties against defects from workmanship and materials.

1.8 COORDINATION

If necessary, manufacturer will coordinate delivery and installation with the General Contractor and Owner, to ensure boulder is installed properly and in a timely fashion.

1.9 SHIPPING

Climbing wall manufacturer will protect products during transit and handling to prevent damage of the boulder.

PART 2 - PRODUCT

2.1 PLAYGROUND BOULDER MANUFACTURER

Nicos, Inc. 845 Phalen Blvd, St Paul, MN. 55106 Phone (651) 778-1975, Fax (651) 778-8080 or others as approved by Owner.

2.2 ARTIFICIAL CLIMBING WALL SURFACE MATERIALS

Molded and hand sculpted playground boulder system shall be made of fiberglass, polyester resin and sand aggregate mixture using a mold lay-up process and hand sculpting only. Boulder system shall be designed to be shipped with minimal chance for damage during transit and for an easy and quick installation by end user or owner's representative.

Climbing Surface:

- Molded and hand sculpted shop fabricated composite system with iso polyester resins / UV stabilized
- Natural washed sands, colored sands, expanded silicates, and other fillers as needed
- Playground boulder system shall incorporate a method of attachment to concrete footings or slabs.
- Boulder designs shall incorporate the ability to achieve monolithic three-dimensional curvature of the finished surface.
- Playground boulder shall provide 100% integral molded climbing holds, no modular handholds to maintain or t-nut holes to attract insects or allow for water infiltration into structure will be allowed.
- All boulder features shall effectively shed water from climbing surface to allow for quick drying and reduce build-up of dirt and other debris.
- Boulder materials shall be approx. 5/8" nominal thickness consisting of a minimum of 1/4" of layered fiberglass mat and 3/8" of UV resistant, aggregate (sand) filled polyester resin. Average weight = 5 lbs./sq. ft.
- 100% climbable features,

2.3 SUPPORT STRUCTURE

The support structure of boulder shall be created using a "strength by design" process eliminating the need any internal steel support structure.

2.4 ANCHORAGE AND FASTENERS

CONNECTION:

- Boulder shall be connected to slab or footing by the use of embedded chain or other approved anchor method.

PART 3 - INSTALLATION

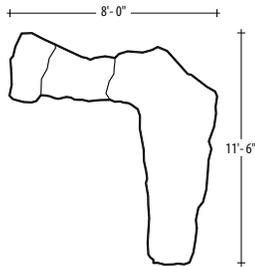
3.1 INSTALLATION

Installation of boulder, if installed by sub contractor, shall be in accordance with manufacturer's recommendations.

3.2 LANDING SURFACE

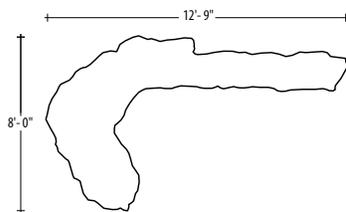
Owner or Owners representative will provide effective landing surface suitable to help reduce chance of injury to patrons during use of playground boulder.

BOULDERS



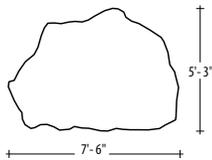
Large Boulder

Approx Square Footage: 400 sq ft
Weight: 3,600 lbs
Approx Footprint: 8'x11'-6"
Approx Height: 9'



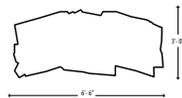
Medium Boulder

Approx Square Footage: 290 sq ft
Weight: 2,750 lbs
Approx Footprint: 8'x12' 9"
Approx Height: 7'



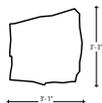
Small Boulder

Approx Square Footage: 80 sq ft
Weight: 1,150 lbs
Approx Footprint: 5'-3"x7' 6"
Approx Height: 5'



Ever-Rest Climber

Approx Square Footage: 50 sq ft
Weight: 250 lbs
Approx Footprint: 3'x6'-6"
Approx Height: 1' 8"



Li'l Buddy Boulder

Approx Square Footage: 24 sq ft
Weight: 100 lbs
Approx Footprint: 3'-3"x3'-1"
Approx Height: 1' 8"