



SECTION 131200 - CLIMBING WALLS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the following:
 - 1. Panelized rock climbing wall system

1.2 SYSTEM DESCRIPTION

- A. Work of this section is the furnishing and/or installation of a panelized rock climbing wall system utilizing cast glass fiber reinforced polymer (GFRP) panels simulating natural rock profiles, colors and textures.
- B. The panels may be mounted to either an existing structural building wall, or a structure designed and constructed for the purpose of supporting the panels. Climbing wall shall include handhold fastening systems, and specific equipment as defined below.

1.3 QUALITY ASSURANCE

- A. Provide climbing wall systems by a single manufacturer.
- B. Substitutions of climbing wall systems and equipment shall conform to Division 01 requirements for substitutions.
- C. Manufacturer shall have a minimum of five years of experience with the manufacturing and installation of the climbing wall system specified herein. Installers shall have five years of experience installing the specified product.

1.4 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of the Contract and Division 01 Specifications Sections.
- B. Product data including manufacturer's specifications, standard details, details particular to this project, and installation drawings if applicable.
- C. Submit one sample of climbing wall substrate with the applied surface, minimum 12" by 12" showing substrate, handhold fastener density, and color and finish.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Protect products during transit, delivery, storage and handling to prevent damage and maintain integrity of components.
- B. Products shall be stored in accordance with manufacturer's recommendations in an area adjacent to the climbing wall installation.

1.6 WARRANTY

- A. Manufacturer shall warrant to the original purchaser for one year from the date of substantial completion that its products are free from defects in materials and workmanship.



PART 2 – PRODUCTS

2.0 CLIMBING WALL MANUFACTURER

- A. Subject to compliance with requirements, provide similar and equal products by one of the following manufacturers.
 - 1. SOLIDRock™ Panels by Eldorado Wall Company (303) 447-0512

2.1 CLIMBING SURFACE

- A. The climbing panels shall be 4'x4' in dimension and shall be composed of glass fiber reinforced polymer (GFRP) panels cast in rock-realistic molds, 1/4" in thickness.
 - 1. Surface coloration to be manufacturer's standard brown coloration with rock-like highlights and staining. Custom coloration chosen by client is optional.
- B. Climbing wall system shall provide modular climbing hold attachment locations compatible with 3/8"-16 thread fasteners for surface mount. Handhold Fasteners shall be securely anchored to the sub-surface with adhesive. Handhold fasteners shall be placed at minimum of 1 per sq ft of climbing wall surface area.

2.3 CLIMBING WALL FASTENERS

- A. Modular Handhold bolts:
 - 1. Shall be 3/8", 16 TPI socket head cap screws or flat head cap screws of appropriate length as suggested by and provided by the manufacturer of the Climbing Wall and handhold manufacturer.
- B. Handhold fasteners (T-nuts or Flange nuts)
 - 1. Glue-on fastener shall be 3/8" - 16 tpi, 3" wide flange with perforations to increase glue bond.

2.4 CLIMBING PROTECTION / ANCHORS:

- A. Protection anchors are not included in this specification. If protection anchors such as top rope anchors or floor anchors are desired, they must be designed and engineered for the facility.

2.5 CLIMBING WALL EQUIPMENT

- A. Modular Handholds
 - 1. Composed of polyurethane to minimize breakage.
 - a. Acceptable Manufacturers: Eldo Holds, Egrips, Solll handholds.
 - 2. A quantity of 8 handholds shall be supplied with each 4'x4' climbing panel.



3. To include handhold bolt of appropriate length.

2.6 CLIMBING WALL FALL ATTENUATION SYSTEM (FLOORING)

- A. Flip-up floor pads measuring 4' x 6' x 3.5" thick
- B. Dual durometer open and closed cell foam padding with nylon carpet cover. 5.5" thick. Custom sized to fall area indicated.
 1. Manufacturers:
 - a. ProTec padding by Eldorado Walls or approved equal.
- C. Color: As selected by Architect from manufacturer's full range.

PART 3 – EXECUTION (If installation is included)

3.1 PRE-INSTALLATION INSPECTION

- A. Verify that all surfaces are ready to receive work and are within specified tolerances.
- B. Verify that layout of the materials or equipment will not interfere with installed climbing wall.

3.2 INSTALLATION

- A. Erection of the climbing wall system shall be made by manufacturer or approved sub-contractor with 5 years minimum experience with specified climbing wall installation.
- B. Complete wall shall comply with specified tolerances and shop drawing requirements.

3.3 CLEAN-UP

- A. Clean area of debris from installation of climbing wall.
- B. Separate waste materials in accordance with the construction waste management plan and place in designated areas.

3.4 INSPECTION

- A. The completed climbing wall shall undergo a full complete final inspection by a duly trained supervisor of the manufacturer and shall be certified by the manufacturer that the finished product has been built in accordance with the manufacturer's approved installation drawings and these contract documents.
- B. The completed climbing wall shall undergo a full and complete final inspection by the Owner or Owner's representative at the completion of climbing wall installation.



3.5 TRAINING

- A. Climbing Wall Contractor shall provide ½ day training session for the facility operations staff, following the climbing wall installation. Training shall cover the following topics:
 - 1. Climbing wall maintenance and periodic inspections.
 - 2. Route-setting methods and management.
 - 3. Sample handhold installation and removal.
 - 4. Climbing wall operations management.

3.6 PROTECTION

- A. General Contractor to provide final protection in a manner acceptable to the Owner or Owner's representative that insures the climbing wall will be without damage or deterioration at time of substantial completion.

END OF SECTION 131200