

# Installation Instructions

## Tangled Trunks

Part # Ap100



**ID SCULPTURE**

PLAY. CLIMB. EXPLORE.

591 South Boulevard Street  
Gunnison, Colorado 81230  
info@idsculpture.com  
970-641-1747

### Specifications: Tangled Trunks

- Material: Concrete with Structural Foam
- Approximate Uninstalled Size ("A"): 8'-0" x 9'-10" x 8'-5" Tall
- Approximate Uninstalled Size ("B"): 11'-1" x 7'-6" x 8'-3" Tall
- Approximate Weight ("A"): 7,700 lbs
- Approximate Weight ("B"): 8,700 lbs
- Maximum Fall Height: 6'-11" (assumes 12" safety surfacing)
- Age Group: 5-12 Years Old

### Required Parts (included):

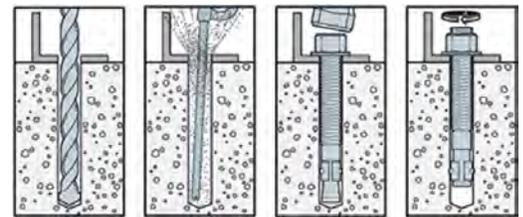
- Tangled Trunks "A" GFRC Sculpture
- Tangled Trunks "B" GFRC Sculpture
- Heavy Duty Hoist Rings: 8ct
- Hypar Net and Hardware
- Single Strand Ropes and Hardware
- 1/2" x 8-1/2" SS Wedge Anchor (Rope Anchors): 2ct
- "Tangled Trunks" Drawing Set

### Recommended Equipment (not included):

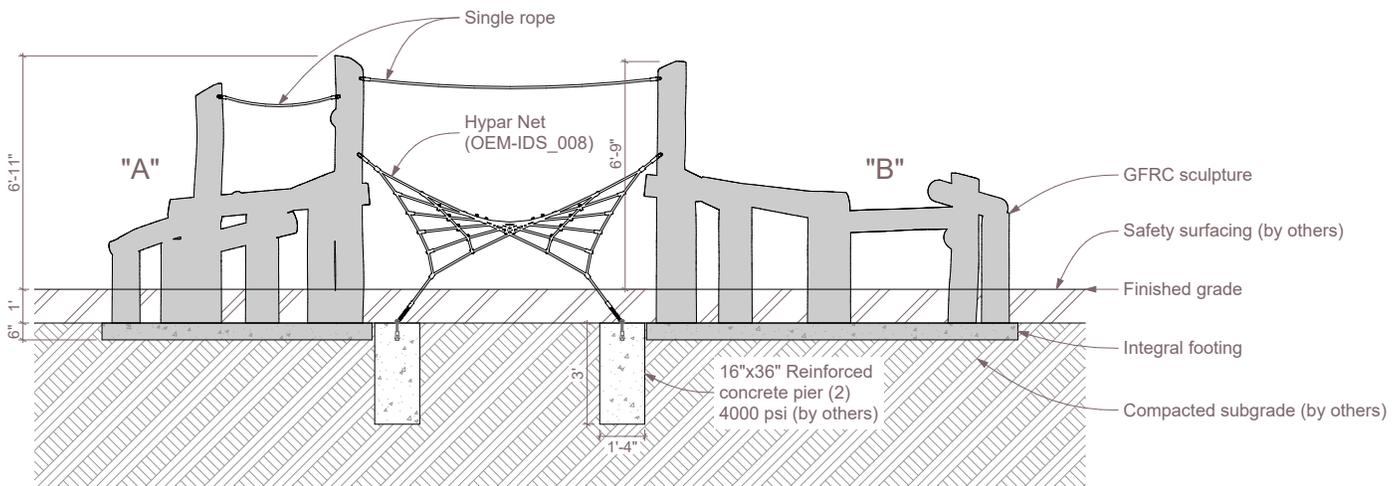
- 10" Hammer Drill
- 3/4" x 10" Concrete Drill Bit
- 1/2" x 10" Concrete Drill Bit
- Air Compressor
- Hammer
- 10' Lifting Straps: 4ct
- Lift: Reach Type Forklift or Crane 10,000 lb Capacity
- 5/8" Shackles: 8ct
- Wrench Set / Socket Set
- Large Adjustable Crescent Wrench
- Shovels or Skid Steer with 16" Auger
- Grinder with Cutoff Wheel or Hack Saw

### Important Notes:

- *Warning: Installation over a hard surface such as asphalt, or packed earth may result in serious injury or death from falls.*
- *It is the responsibility of the installer to ensure all components are installed in compliance with ASTM F-1487.*
- *All site built footings should be allowed to cure for a minimum of 48 hours prior to installation.*



Typical Wedge Anchor Installation



Section

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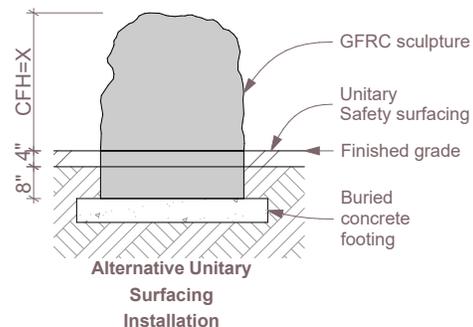
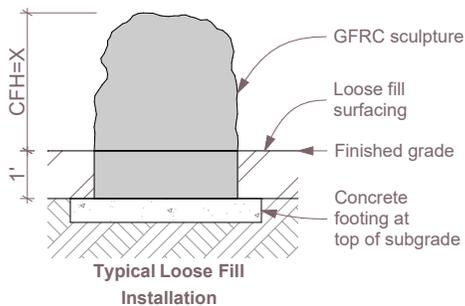
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### PRE-INSTALL CHECKLIST

Please review prior to ordering and installing ID Sculpture products.

- 1. Verify that you have the recommended lifting equipment to unload and install your component, as specified by the installation instructions. Please check the installation instructions for the weight of each component and shipping dimensions.
- 2. Develop a proper plan to access the site and control access prior to opening.
- 3. Call your local utilities to locate any potential existing below grade equipment?
- 4. FOR ALL SCULPTURES: Verify you have accounted for adjustments to the footing depth based on your choice of safety surfacing material. Footing depth must be adjusted to compensate for the depth/thickness requirements of the selected safety surfacing (see diagrams below). Layout drawings show the uninstalled dimensions of the component. If you require a modification to a standard component, please notify ID Sculpture when placing your order. *Additional charges may apply.*



\*Critical Fall Height (CFH)

- 5. Verify that you have installed any required footings prior to the arrival of your sculptures. Please note, footings should be allowed to cure for a minimum of 7 days.

#### Important Safety Note:

Please install and maintain adequate protective surfacing under and around your equipment. Never let children play on the equipment before protective surfacing is installed. Please consult ASTM F1487 for more information.

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### Sculpture Installation:

1. Excavate the site below the top of subgrade as per the provided layout drawings.
2. Compact the subgrade beneath each sculpture, level using sand as necessary.
3. Make sure that the heavy duty hoist rings are securely attached to the bolts protruding from the sides of the integral footings. Secure the lifting straps to heavy duty hoist rings using 5/8" shackles.
4. Lift each sculpture using an appropriate reach forklift or crane taking care to equalize the load on straps.
5. Set each sculpture in place and verify layout and all use zones as required by ASTM 1487.
6. Continue with Hypar Net Installation next.

### Hypar Net Installation:

7. Connect sculpture ropes to GRFC sculptures with provided Igloo rope connectors & connection pins. (2)
8. Adjust rope tension between the two sculptures by carefully sliding one or both sculptures with crane or reach forklift before locating the chain connection points on the concrete piers.
9. Locate and mark the chain connection points on the piers by simultaneously pulling both chain lengths away from each other along the ground. Remove excess chain links as necessary.

\*\*\* To avoid sagging in net, be sure to pull both chain lengths hard until net is raised to the proper height. \*\*\*

\*\*\* Never install any rope component taut, some slack should always be present \*\*\*

10. Drill and clean holes with a 1/2" bit in the marked locations on the concrete piers to a minimum depth of 7".
11. Secure the supplied 1/2" x 8-1/2" SS wedge anchors leaving 1-1/2" of thread exposed above footing.
12. Connect chain to the wedge anchor following the detail on page 4. Trim anchor stud flush with top of nut.
13. When proper tension is achieved verify all use zones as defined by ASTM 1487.

### Sculpture Installation Continued:

14. Install straight ropes to GRFC sculptures with provided igloo rope connectors & connection pins (4).
15. Remove heavy duty hoist rings.
16. Backfill so the subgrade is level with the top of the integral footing and compact as necessary.
17. Install resilient surfacing material in accordance with layout guidelines, and ASTM standards.

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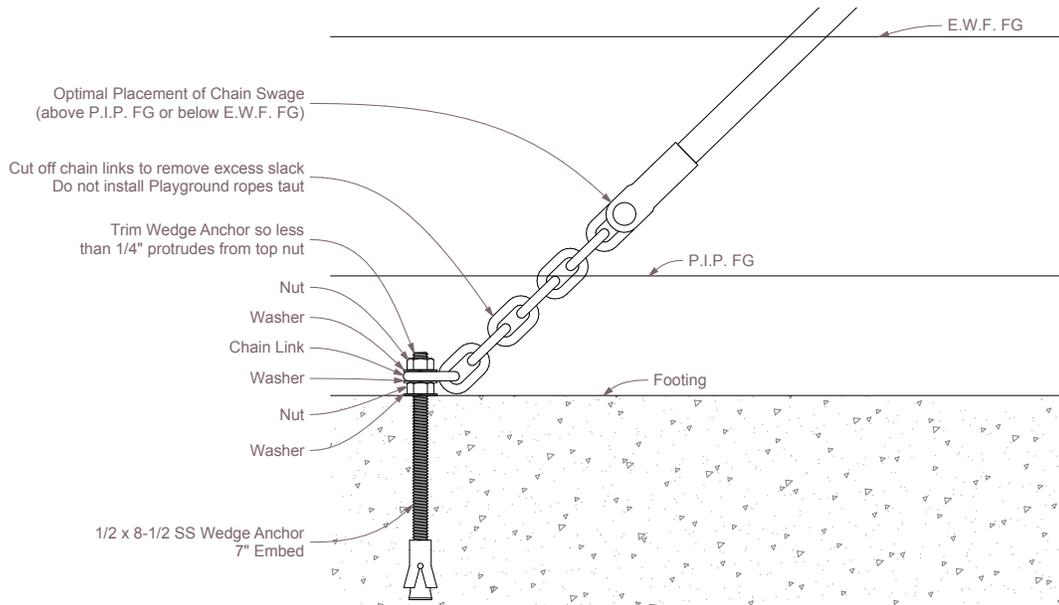
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Rope to Footing Connection Detail



Typical Parallel Ropes Tension



Female Threaded Connection



Installed Igloo Connector

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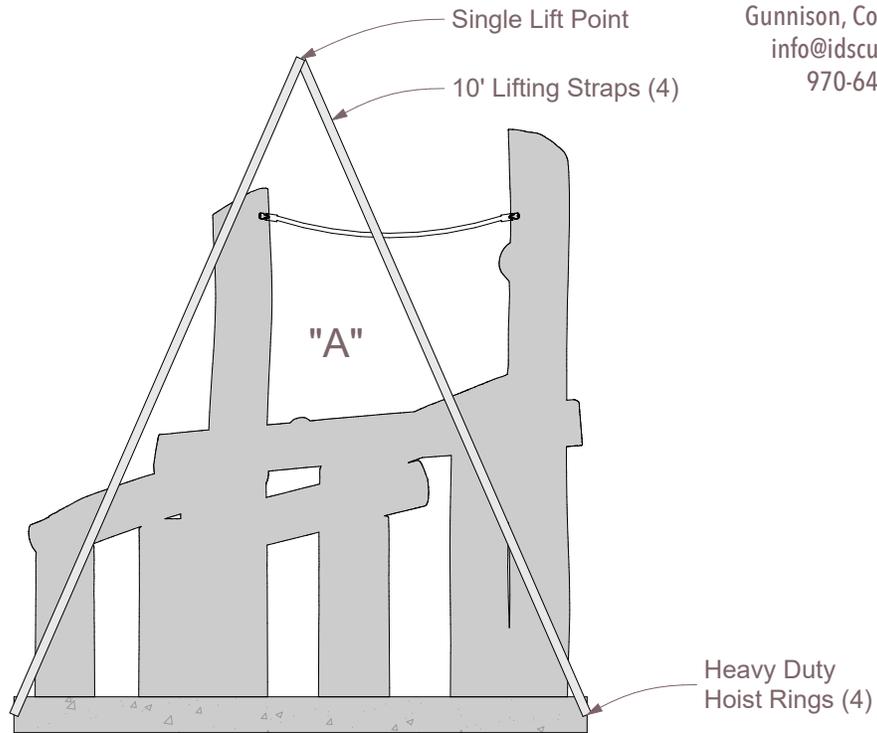
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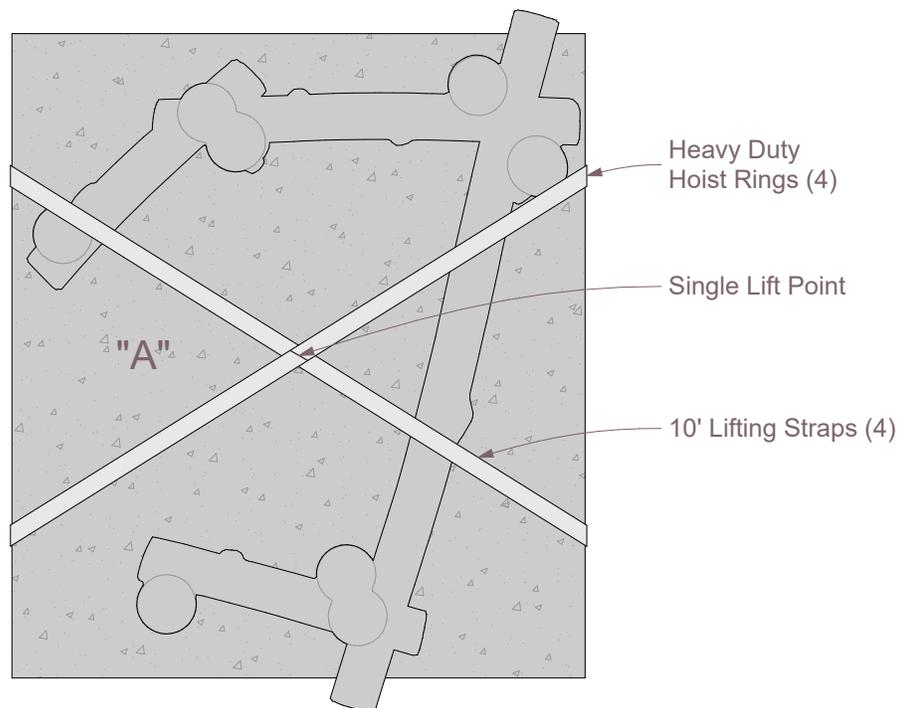
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Tangled Trunks "B" - Pick Diagram - Elevation



Tangled Trunks "B" - Pick Diagram - Plan

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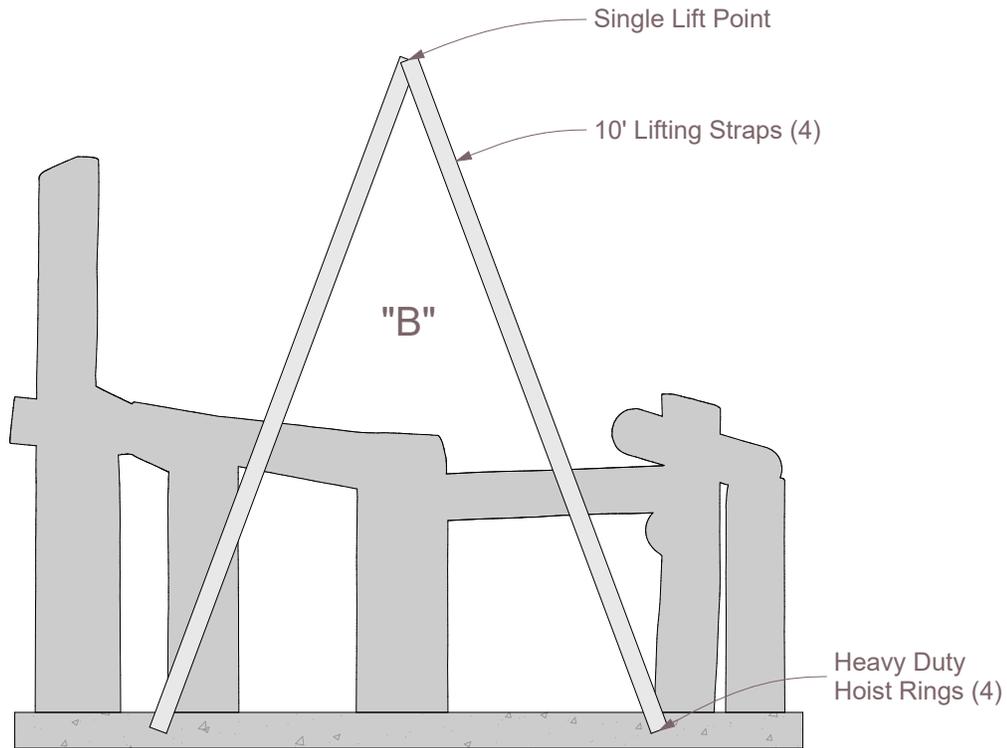
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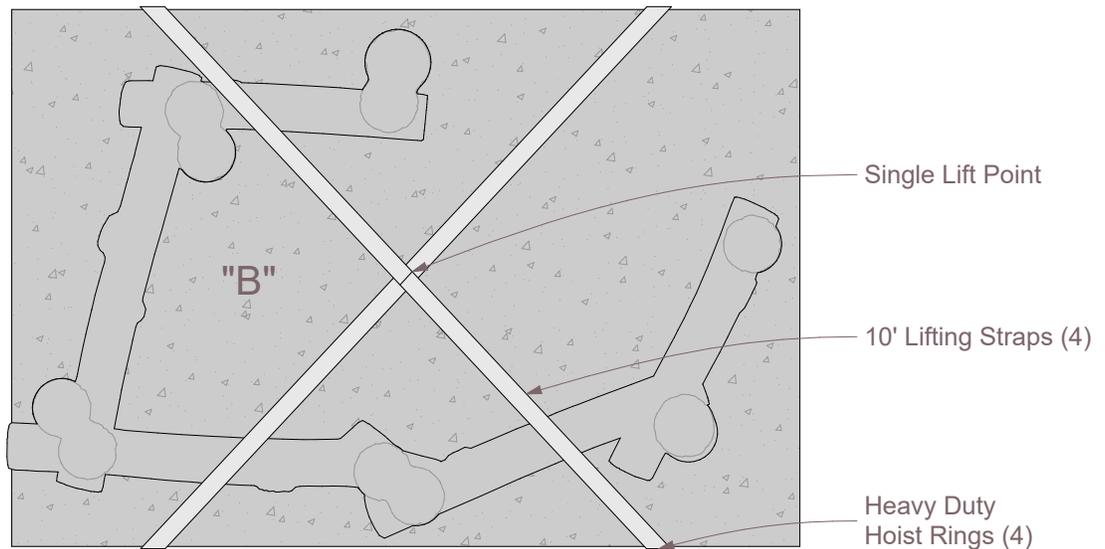
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Tangled Trunks "B" - Pick Diagram - Elevation



Tangled Trunks "B" - Pick Diagram - Plan