



Bison Fiberglass Cube™ site furnishings offer a stylish and durable solution for creating standout outdoor environments. Bison Fiberglass Cubes make it easy to design a comfortable and beautiful outdoor environment. Bison Fiberglass Cubes complement rooftop decks and commercial spaces. Bison Fiberglass Cubes should be placed on top of the customers' choice of surface material, including Bison 2CM Pavers and Bison's Wood Tiles.

**Bison Fiberglass Cubes Specification**  
**SECTION 329433 Planters**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Bison Cube for use as stand-alone planter.

**1.2 RELATED SECTIONS**

**\*\* NOTE TO SPECIFIER \*\*** Delete any sections below not relevant to this project; add others as required.

- A. Section 129000 – Other Furnishings.
- B. Section 323300 – Site Furnishings.
- C. Section 018313 – Superstructure Performance Requirements.

**1.3 REFERENCES**

**\*\* NOTE TO SPECIFIER \*\*** Delete references from the list below that are not actually required by the text of the edited section.

- A. ADA - Americans with Disabilities Act requirements.

**1.4 SUBMITTALS**

- A. Submit under provisions of Section 013300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage/Handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Complete details of layout and assembly, showing sizes and part identification, fasteners, anchors, and fittings.
- D. Selection Samples: Color selections shall be made from the Manufacturer's brochure representing Manufacturer's full range of available colors and patterns.

**1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: All primary products in this section will be supplied by a single Manufacturer with five (5) years of experience minimum.
- B. Installer Qualifications: The Installer must have a minimum of two (2) years proven construction experience, be capable of estimating and building from blueprint plans and details, determine elevations and properly handle materials. All work must comply with the Bison installation procedures for assembling and installing site furnishings specified herein.
- C. Special Considerations: The Contractor assumes the responsibility for and must take into consideration the structural capability and adequacy of the structure below to carry the dead and live load weight(s) involved, and when appropriate, make sure that the density of any insulation is satisfactory to resist crushing and damaging the waterproofing membrane.

**\*\* NOTE TO SPECIFIER \*\*** Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect (if applicable).
  - 3. Refinish mock-up area as required to produce acceptable work.

**1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Do not deliver to job site until conditions are ready for installation.
- B. Immediately upon receipt inspect all delivered materials to ensure they are undamaged and in good condition. Claims for damages must be made to the Driver/Carrier *prior* to accepting delivery. Note any visual damage to containers or packaging material on the bill of lading *before* the Driver leaves. Any damage should be noted on the bill of lading, photographed, and then reported to Bison immediately.
- C. All Bison Fiberglass Cubes should be removed from the original packaging and stored indoors until installation begins; do not leave products tightly wrapped as condensation can build up between the shrink wrap and planter, foam and planter, cardboard and planter, or any combination of materials, and could stain and/or begin to remove finishes. Do not store Bison Fiberglass Cubes in standing water.
- D. Care should be taken in the handling, placement, and maintenance of Bison Fiberglass Cubes. While the Cubes are extremely durable, care should be taken to not scratch, dent, or drop the Cubes.

**1.7 PROJECT CONDITIONS**

- A. There are no installation temperature restriction guidelines prescribed by Bison that limit deck installation work other than the practical considerations of working in any unsafe condition or inclement weather.
- B. Bison recommends setting Cubes directly on top of the decking surface itself. Special consideration must be taken to ensure positive drainage and prevent pooling water beneath the Cubes.

## 1.8 CONTAINER FILL

- A. Do not use soil weighing in excess of 25-50 lbs/cubic foot.
- B. The bottom of extra-large and tall Cubes can be filled with lightweight filler. Consult your landscape professional for more information on fillers that work with the desired plantings.
- C. In the case of decks over roofing substrates, roof systems must meet local building code and be in accordance with the NRCA recommended good construction practices. Only roofing manufacturer approved systems shall be used.

## 1.9 APPLICATIONS/SCOPE

- A. Furnish and install Bison Fiberglass Cubes for use on grade without pedestal support.
- B. Consult the Manufacturer and the Project Engineer regarding the following:
  - 1. When planter load exceeds the maximum listed.
  - 2. When anticipating installation of any items with excess weight on top of the deck.

## 1.10 WARRANTY

- A. At project closeout and upon request, Bison can provide to the Owner or Owner's Representative an executed copy of the Manufacturer's standard document outlining the terms, conditions, and limitations of their limited warranty against manufacturing defects for a period of five (5) years. Bison must approve all warranty related repairs, and unauthorized repairs void this limited warranty.
- B. The Contractor warrants that his work will remain free from defects of labor and materials used in conjunction with his work in accordance with the General Conditions for this project or a minimum of five (5) years.
- C. It is the responsibility of the Contractor installing the product listed in this section to coordinate warranty requirements with any related sections or adjacent work. Notify the Architect immediately of any potential lapses or limitations in warranty coverage.
- D. Bison Fiberglass are covered by a limited five (5) year warranty. Bison Fiberglass Cubes are warranted to the original owner to be free of defects in material and workmanship for the period of five (5) years from the date of purchase. Defects are defined as imperfections that impair the utility of the product. This warranty applies to conditions of normal use and does not apply to damage resulting from abuse, excess weight, or acts of nature. This warranty does not apply to non-structural surface cracks or to variations in color due to weathering. If a Fiberglass Cube is deemed defective within the terms of the warranty, Bison may make repairs or provide for repair services at no cost to the customer. If a repair cannot be made, a replacement Fiberglass Cube will be furnished at no cost to the customer. This warranty does not cover shipping damage. Shipping damage must be reported directly to Bison immediately upon receipt of products. Please save all product packaging for a short period of time in case return shipping is required. Bison makes no other warranties, either express or implied, with respect to the use of the Bison Fiberglass Cube, including warranties of merchantability or fitness for a particular purpose.

## 1.11 MANUFACTURERS

**\*\* NOTE TO SPECIFIER \*\*** Retain one of the following paragraphs 1.13 A-C; to coordinate with requirements of Division 1 section on product options and substitutions.

- A. Acceptable Cube Manufacturer: Bison Innovative Products, 701 Osage Street, Unit 120, Denver, CO 80204.  
Toll Free 800-333-4234. Phone 303-892-0400. Fax 303-825-5988. Email: info@bisonip.com. Website: www.bisonip.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 012500.

## PART 2 PRODUCTS

### 2.1 BISON FIBERGLASS CUBES

- A. Bison Fiberglass Cubes compliment a wide array of decking surfaces. Fiberglass Cubes are constructed of glass fiber reinforced polyester resin. Bison Fiberglass Cubes are proudly manufactured in the USA.

**\*\* NOTE TO SPECIFIER \*\*** Edit the following sections on Cubes removing those products which are not applicable.

- B. Standard Fiberglass Cube Colors and Finishes: Gloss, Matte, Sand, Orange Peel. Applies to ALL Bison Fiberglass Cubes.

**\*\* NOTE TO SPECIFIER \*\*** Select one of the following selections as required, delete those which do not pertain.

- C. As selected by the Architect from Manufacturer's five (5) standard colors and four (4) finishes:

Standard Colors:

- 1. White
- 2. Medium Gray
- 3. Dark Gray
- 4. Black
- 5. Aged Bronze

Standard Finishes:

- 6. Gloss
- 7. Matte
- 8. Sand
- 9. Orange Peel

- D. Custom color as selected by Architect (additional cost associated with custom colors)

### 2.2 BISON FIBERGLASS CUBES

- A. Model: CUBE-FG242420 – Bison Fiberglass Cube
  - 1. Length/Width/Height: 23.875 inches x 23.875 inches x 20 inches (606mm x 606mm x 508mm).
  - 2. Weight: 22 lbs (10 kg)
  - 3. Material: Glass Fiber Reinforced Polyester Resin.
  - 4. Drainage:
    - a. Drainage hole(s) standard.
  - 5. Mounting:
    - a. Free standing.
- B. Model: CUBE-FG242424 – Bison Fiberglass Cube

1. Length/Width/Height: 23.875 inches x 23.875 inches x 24 inches (606mm x 606mm x 610mm).
  2. Weight: 25 lbs (11.3 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- C. Model: CUBE-FG242436 - Bison Fiberglass Cube
1. Length/Width/Height: 24 inches x 24 inches x 36 inches (610mm x 610mm x 914mm).
  2. Weight: 34 lbs (15.4 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- D. Model: CUBE-FG482420 - Bison Fiberglass Cube
1. Length/Width/Height: 47.625 inches x 23.625 inches x 20 inches (1210mm x 600mm x 508mm).
  2. Weight: 37 lbs (16.8 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- E. Model: CUBE-FG482424 – Bison Fiberglass Cube
1. Length/Width/Height: 47.75 inches x 23.75 inches x 24 inches (1213mm x 603mm x 610mm).
  2. Weight: 41 lbs (18.6 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- F. Model: CUBE-FG482436 - Bison Fiberglass Cube
1. Length/Width/Height: 48 inches x 24 inches x 36 inches (1219mm x 610mm x 914mm).
  2. Weight: 56 lbs (25.4 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- G. Model: CUBE-FG722420 – Bison Fiberglass Cube
1. Length/Width/Height: 71.625 inches x 23.625 inches x 20 inches (1819mm x 600mm x 508mm).
  2. Weight: 51 lbs (23 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- H. Model: CUBE-FG722424 – Bison Fiberglass Cube
1. Length/Width/Height: 71.625 inches x 23.75 inches x 24 inches (1819mm x 603mm x 610mm).
  2. Weight: 57 lbs (25.9 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- I. Model: CUBE-FG722436 – Bison Fiberglass Cube
1. Length/Width/Height: 71.75 inches x 24 inches x 36 inches (1822mm x 610mm x 914mm).
  2. Weight: 76 lbs (34.5 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- J. Model: CUBE-FG962420 – Bison Fiberglass Cube
1. Length/Width/Height: 95.375 inches x 23.75 inches x 20 inches (2423mm x 603mm x 508mm).
  2. Weight: 67 lbs (30.4 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- K. Model: CUBE-FG962424 – Bison Fiberglass Cube
1. Length/Width/Height: 95.375 inches x 23.75 inches x 24 inches (2423mm x 603mm x 610mm).

2. Weight: 75 lbs (34 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free standing.
- L. Model: CUBE-FG962436 – Bison Fiberglass Cube
1. Length/Width/Height: 95.875 inches x 23.875 inches x 36 inches (2435mm x 606mm x 914mm).
  2. Weight: 97 lbs (44 kg)
  3. Material: Glass Fiber Reinforced Polyester Resin.
  4. Drainage:
    - a. Drainage hole(s) standard.
  5. Mounting:
    - a. Free Standing

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Prior to Bison Fiberglass Cube installation verify the following:
  1. All deck dimensions are consistent with information submitted to Bison for quoting and/or take-off.
  2. Anticipated live/dead loads in or on Bison Cubes are compatible.
  3. Substrates have been properly prepared, and the project is set to proceed. If substrate preparation is the responsibility of another Installer, notify Architect of unsatisfactory preparations before proceeding.

#### 3.2 PREPARATION

- A. The substrate surface that will receive the Cubes must be:
  1. Well compacted if on-grade.
  2. Structurally capable of carrying the live and static loads anticipated if over occupied space.
  3. Clean and free of debris that could impair the performance of the Cubes.

#### 3.3 INSTALLATION

- A. If a scenario is encountered during installation which is not covered, please contact Bison.
- B. General Safety Precautions: Bison recommends wearing puncture resistant safety gloves when handling Fiberglass Cubes.
- C. For use as Planters:
  1. Place landscape fabric on the bottom of the containers to prevent soil from falling through drainage holes.
  2. Container Fill:
    - a. Do not use soil weighing in excess of 25-50 lbs/cubic foot.
    - b. The bottom of extra-large and tall planters can be filled with lightweight filler. Consult your landscape professional for more information on fillers that work with the desired plantings.
- D. Surface Mounting: Place Cube on level, structurally sound surface.

#### 3.4 FIELD QUALITY CONTROL

- A. During Installation:
  1. Inspect construction process regularly to ensure that gridlines and spacing are being maintained in a straight and consistent pattern, lateral motion is restricted, and the Cubes are level and not rocking.
  2. Confirm that Cube height (height above parapet/bearing surface) complies with any federal, state, or local regulations.
  3. While Bison Fiberglass Cubes are durable, they can be damaged by mishandling or careless treatment. If tools or equipment are dropped against a Cube surface, chips, cracks, gouges, scratches, or other surface damage may occur.
- B. Immediately Following Installation: The Owner, or the Owner's Agent, shall carefully inspect the deck system to be positive that:
  1. There is no rocking of the Cube(s).
  2. The installed Cubes are protected from damage which may result from continued site construction.

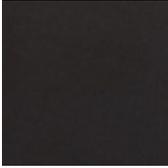
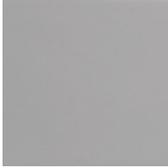
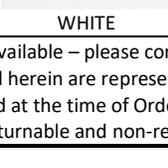
#### 3.5 CUBE CARE AND MAINTENANCE RECOMMENDATIONS

**\*\*NOTE TO SPECIFIER\*\*** Add any additional maintenance which might be required by the Owner including specified Cube treatments.

- A. Fiberglass Cubes
  1. Fiberglass Cubes should be inspected regularly for soil deposits, mineral buildup, and environmental contaminants. Clean the surface with a soft, damp cloth or sponge using mild, non-abrasive detergent (e.g., Simple Green for matte finishes) while the planter is cool to the touch. Rinse thoroughly with clean, mineral-free water to prevent residue, and avoid allowing cleaning agents to affect surrounding surfaces. Do not use abrasive pads, harsh chemicals, or power washers, as these can damage the finish.
  2. For added protection, apply a spray wax (such as automotive Meguiar's) every 3–6 months on gloss, matte, and orange peel finishes. Scratches and stains can be treated with an auto or marine-grade buffing compound, followed by polishing with automotive wax. For sand texture finishes, use a plastic bristle brush and a non-abrasive cleaner.
  3. Touch-up kits are provided upon initial request. For finish-specific repairs (matte, orange peel, gloss, or sand texture), follow the included Fiberglass Repair Procedures.
  4. In the event of damage please contact Bison at 800.333.4234 or sales@bisonip.com.

**END OF SECTION**

<b>BISON FIBERGLASS CUBES</b>		CUBE-FG242420	CUBE-FG482420	CUBE-FG722420	CUBE-FG962420
		CUBE-FG242424	CUBE-FG482424	CUBE-FG722424	CUBE-FG962424
		CUBE-FG242436	CUBE-FG482436	CUBE-FG722436	CUBE-FG962436

<b>BISON STANDARD FIBERGLASS CUBE COLORS</b>			<table border="1"> <thead> <tr> <th></th> <th>Gloss</th> <th>Orange Peel</th> <th>Sand</th> <th>Matte</th> </tr> </thead> <tbody> <tr> <th>Medium Gray</th> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>Dark Gray</th> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>Aged Bronze</th> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>Black</th> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>White</th> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Gloss	Orange Peel	Sand	Matte	Medium Gray					Dark Gray					Aged Bronze					Black					White						
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- Alternative colors are available – please contact Bison Sales ([sales@bisonip.com](mailto:sales@bisonip.com)) for more information.
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