

SECTION 09 66 00 CAST PRODUCTS STRUCTURAL OPEN RISER
DANCER

DESCRIPTION

CAST Products Structural Open Riser by DANCER is a self-supporting, floating design with internal steep supports to span between stringers up to a 96". For projects beyond 96" please consult directly.

<https://dancer.design/cast-terrazzo-products/>

Durability. Longest lasting and lowest maintenance surfaces available.

Design. Unlimited aggregates and color combinations.

Investment. Distinguish your space with terrazzo.

Surface Terrazzo Floor. Ability to match your design choices with terrazzo flooring.

Additional Options

- + Exotic Blends. Upgrade your products with glass, mirror, and mother-of-pearl.
- + Samples. Unlimited options available.
- + Grip Strips. Abrasive, zinc, and brass options available.
- + Education. Nationwide AIA-Accredited classes available.
- + Details. Fully customizable construction drawings, details, and specifications available.

QUICK SPEC

CAST PRODUCTS STRUCTURAL OPEN RISER BY DANCER

Samples and color blending options provided by DANCER

Contact Nick Dancer, 260-415-1951, nick@dancer.design

DANCER offers AIA-Accredited Courses for Terrazzo hosted in your office, our Shop, or online. Please contact us to schedule and for budget pricing, samples, or design considerations. Contact Nick Dancer, 260-415-1951, nick@dancer.design

PART 1 – GENERAL

1.1 SUMMARY

- A. Section includes products and procedure for CAST epoxy terrazzo products for designated area as specified herein as indicated on drawings.
- B. CAST Epoxy Terrazzo Products include: CAST Products Structural Open Riser by DANCER

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM C-150
 - 2. ASTM C-33
 - 3. ASTM C-140
 - 4. ASTM C-293
- B. National Terrazzo and Mosaic Association Inc. (NTMA)

1.3 SUBMITTALS

- A. Shop Drawings: Show detail sections and profile for all CAST products, including layout of strips, all reinforcing materials, and special hardware for fastening.
- B. Samples: For each type of exposure, finish, and color. Sample size 6" x 6".
- C. Product Data: Manufacturer's technical literature for each type of terrazzo, accessory item, and component material indicated, specified, or required.
- D. Performance Requirements:
 - 1. Compressive Strength 10,000 p.s.i.
 - 2. Flexural Strength 3,000 p.s.i.

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- E. Material Certification: Supplier's/Manufacturer's written certification that materials meet specification requirements.

1.4 QUALITY ASSURANCE

- A. Qualifications: Company experienced in performing work similar in design, products, and extent to scope of this project; with a record of successful in-service performance; and with sufficient production capability, facilities, and personnel to produce specified work.

- 1. Manufacturer Qualification: Approved by the manufacturer of terrazzo materials.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Packaging and Shipping: CAST terrazzo products to be secured on pallets, plastic wrapped, and delivered in original unopened packaging with legible manufacturer identification, including size, piece number, quantities, manufacturer date, and inspector initials.
- B. Storage and Protection: Store products in original shipment packaging until time of installation. Store in a clean, dry, and heated indoor location (55-90F), furnished by others.
- C. Damage: Report all damage due to the shipment company immediately. Bill of Lading should note all damages to the product(s). Photographed proof is required.

1.6 WARRANTY

- A. DANCER warrants that products are free from defects and will perform substantially.
- B. DANCER's liability with respect to this warranty covers workmanship and material of the product for a period of two years.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURES

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A. Basis of Design: for products and materials specified from CAST Products by DANCER, Fort Wayne, Indiana. Products of the manufacture are approved provided compliance with all technical requirements as specified herein:

1. CAST Products by DANCER, 4515 Engle Ridge Drive, Fort Wayne, IN. Contact Nick Dancer, 260-415-1951, nick@dancer.design

2.2 PRODUCT MATERIALS

- A. Epoxy Resin
- B. Aggregates: All aggregates to meet ASTM C-33 specifications, cleaned, and properly graded to size. Aggregate shall be blended to meet individual project requirements.
- C. Marble Chips: Size to conform with NTMA gradation standards.
- D. Grip Strips: Consists of black high-performance polyurethane sealant unless otherwise noted. Shall be specified to 1 to 3 lines.
- E. Steel: All embedded steel support details to be approved by Structural Engineer before fabrication.
- F. Stain Protector: Color-enhancing, penetrating stain repellent from oil- and water-based stains.
- G. Cleaner: Liquid neutral chemical cleaner, with pH factor between 7 and 8, of formulation recommended by manufacturer for type of preCAST terrazzo products used and complying with NTMA requirements.

2.3 MANUFACTURED UNITS

- A. Sizing Tolerances
 1. All units to conform to Shop Drawings with a $\frac{1}{16}$ " tolerance in dimension.
- B. PreCAST Surfaces and Edges
 1. All exposed edges to be ground and polished with a minimum of $\frac{3}{16}$ " bevel.

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2. All finished surfaces are to be ground and polished, free of holes, and have overall uniformity in matrix and aggregate.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive CAST terrazzo products for:
 1. Defects in existing substrates that affect proper performance of the products.
 2. Deviations beyond allowable tolerances for the substrate.
- B. Start installation only after defects have been corrected.

3.2 INSTALLATION

A. Setting

1. Setting methods will vary per product. Set accurately as shown on the approved Shop Drawings. Follow all manufacturer's instructions on proper bonding of all materials.
2. Setting Methods
 - a. Weld attachment: Please contact the manufacturer for recommended welding guidelines as provided by your structural engineer. Do not run a continuous weld when attaching products to avoid overheating and cracking the terrazzo.
 - b. Bolt attachment: Only use the bolt-in option if the weld attachment cannot be used. To prevent cracking of the terrazzo products, do not torque the bolts too tightly.
3. For any landings that are not structural: all thinnest materials, whether cement or epoxy-based, will require a full setting bed to be applied to all appropriate surfaces of the CAST terrazzo products, both vertical and horizontal, where contact is made with the substrate or structural base.
4. Alignment of CAST terrazzo products should be straight and true to all dimensions.
5. Install anchors as shown on Shop Drawings, if required.
6. Fill joints with manufacturer-approved material or as specified.

B. Finish

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1. Clean CAST terrazzo products with neutral pH cleaner. If there are any irregularities on the surface of the stairs, check and repair them.
2. CAST Products contain a stain protector prior to packaging. It is not required to seal the CAST products prior to or after installation.

3.3 PROTECTION

- A. During construction operation, General Contractor to protect from damage and wear to all CAST terrazzo products after installation.

END OF SECTION 09 66 00