SECTION 11 61 13 – STAGE DECKING

Tdeck+® MODULAR STAGE DECKING SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

The Tdeck+® Modular Stage Decking System is a portable, modular stage decking system manufactured by Productions Unlimited, Inc. The system is supplied as proprietary components that are assembled by the purchaser or user to create stage platforms in configurations suited to the application.

This Section establishes requirements for the specified Tdeck+® product, product documentation, components, assembly, use, disassembly, and care. Tdeck+® is a portable product and is not generally permanently installed or attached to the building structure.

Section Includes:

- Tdeck+® modular stage deck framing components.
- Rim joists and end frames.
- Full and cut interior joists.
- Corner, marriage, leveling, fork, and related brackets.
- Legs, casters, handrail brackets, pipe clamps, reinforcement channels, hardware, and accessories where required.
- Decking material and associated deck hardware.
- Manufacturer's assembly instructions and product documentation.

1.2 PROPRIETARY AND PATENTED PRODUCT

Basis of Design: Tdeck+® Modular Stage Decking System manufactured by Productions Unlimited, Inc., Roebuck, South Carolina.

The Tdeck+® Modular Stage Decking System is protected by U.S. Patent Nos. 9,631,385 and 10,221,581 and Canadian Patent No. 2,933,878.

1.3.1 MODULARITY AND REUSE

Provide Tdeck+® components in modular combinations capable of forming platforms from 1 foot by 1 foot through 4 feet by 8 feet, with platform dimensions selectable in 1-foot increments in either direction, using the Manufacturer's compatible components and approved configurations.

The modular system is intended to permit components to be reused in different platform sizes and configurations as project needs change.

The reusable modular design is an inherent sustainability benefit of the product, reducing material waste associated with purpose-built or single-use stage platforms, and extending the useful life of the system.

This is a closed proprietary specification. Substitutions are not permitted unless specifically authorized in writing by the Owner and accepted by Productions Unlimited, Inc.

1.3 PRODUCT DESCRIPTION

Sustainable Design: The modular and reusable nature of Tdeck+® supports environmentally responsible stage construction by allowing deck components to be reused, reconfigured, transported, stored, and redeployed for multiple applications. This reduces the need for single-purpose or disposable stage construction and allows owners to adapt existing components to changing needs.

Tdeck+® is an engineered modular stage decking system designed to allow stage deck pieces to be combined into larger, nearly endless platform configurations. The modular design permits pieces to be packed for shipping, and the system uses standard-size deck sections, joists, brackets, legs, and accessories to create custom configurations.

Provide a complete Tdeck+® system using genuine Productions Unlimited, Inc. components. Configure and assemble the system in accordance with the Manufacturer's current instructions and the configuration required for the intended use.

The Tdeck+® system is intended to be assembled, used, disassembled, transported, and stored as a portable product. Permanent attachment to the building structure is not part of the standard product unless specifically engineered and approved by the Manufacturer for a particular application.

1.4 PRODUCT CAPACITY AND LIMITATIONS

- Provide components and configurations appropriate for the intended stage-deck application.
- Do not exceed published Manufacturer capacities for individual components or assembled configurations.
- The 8-inch swivel caster identified by the Manufacturer is rated at 1,100 pounds capacity per caster.
- Where a project requires a particular load, span, height, caster arrangement, or other performance characteristic not addressed by the Manufacturer's published product information, obtain written confirmation from Productions Unlimited, Inc. before ordering or assembling the system.
- Do not combine Tdeck+® components with non-Tdeck+® components where such a combination could affect product capacity, stability, fit, or safe operation.
- Do not use damaged, modified, improperly assembled, or incomplete components.

1.5 SUBMITTALS

- Manufacturer's current product data.
- Manufacturer's current assembly and operating instructions.
- Product component schedule identifying the Tdeck+® components proposed for the required configuration.
- Manufacturer's published capacity information applicable to the specified components and configuration.
- Shop drawings or layout information when specifically required by the Contract Documents or requested for a project-specific configuration.

1.6 QUALITY ASSURANCE

- Manufacturer: Productions Unlimited, Inc., Roebuck, South Carolina.
- Tdeck+® components shall be genuine products manufactured or supplied by Productions Unlimited, Inc.
- Assembly shall be performed by the purchaser, user, or other person responsible for the product in accordance with the Manufacturer's current assembly instructions.
- No specialized installation contractor or permanent building installation is required for the standard portable product.
- Where a project-specific configuration requires engineering beyond the Manufacturer's published product information, coordinate directly with Productions Unlimited, Inc. before assembly or use.

1.7 DELIVERY, STORAGE, AND HANDLING

- Deliver Tdeck+® components packaged and protected against damage.
- Inspect components upon delivery and before assembly.
- Do not use components showing damage, deformation, missing hardware, or other conditions that could affect safe assembly or use.
- Store components in a dry location and protect decking, finishes, hardware, and accessories from damage.
- Handle deck sections and framing components in a manner that prevents bending, denting, scratching, or other damage.

1.8 WARRANTY

- Provide the Manufacturer's standard written warranty applicable to Tdeck+® products in effect at the time of purchase.

- Warranty coverage is subject to the Manufacturer's published terms and conditions.
- Warranty does not cover misuse, abuse, unauthorized modification, damage caused by improper assembly, use outside published limitations, normal wear, or damage caused by transportation or handling after delivery except as otherwise provided by the Manufacturer.
- Use of non-genuine components or unauthorized modifications may void applicable warranty coverage.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- Productions Unlimited, Inc., Roebuck, South Carolina.

2.2 TDECK+® SYSTEM

Provide the complete Tdeck+® Modular Stage Decking System as required for the intended configuration. Components shall be compatible with one another and shall be assembled using the Manufacturer's specified hardware.

- **Rim Joists:** Proprietary formed stage-deck perimeter joists available in multiple lengths.
- **End Frames:** Proprietary end-frame components used to support the ends of deck sections.
- **Interior Joists:** Full and cut middle joists configured as required for the deck size and layout.
- **Corner Brackets:** Proprietary brackets for joining deck sections at corners and supporting legs.
- **Marriage Brackets:** Proprietary brackets for joining adjacent deck sections.
- **Leveling Brackets:** Proprietary components used to level deck sections and accommodate differences in supporting conditions.
- **Fork Brackets:** Proprietary brackets used to support or connect forked leg arrangements where required.
- **Caster Brackets and Casters:** Proprietary components for portable deck configurations requiring casters.
- **Handrail Brackets and Pipe Clamps:** Proprietary accessories for compatible handrail and pipe applications.
- **Aluminum Reinforcement Channel:** Proprietary reinforcement component where required by the Manufacturer's configuration.
- **Hardware:** Manufacturer-supplied screws, bolts, nuts, flange nuts, threaded fasteners, and related hardware required for assembly.

2.3 DECKING

Provide decking compatible with the Tdeck+® framing system and appropriate for the intended use. Decking shall be secured to the framing using the Manufacturer's specified attachment method.

Where plywood decking is specified, provide the grade, thickness, finish, and surface treatment identified by the Manufacturer for the intended Tdeck+® application. Do not substitute decking materials without written approval from Productions Unlimited, Inc.

2.4 LEGS AND SUPPORT ACCESSORIES

- Provide legs of the required height and type for the intended stage elevation.
- Provide appropriate leg brackets and leveling components for the selected configuration.
- Provide casters only where the configuration requires mobility, and the selected casters are appropriate for the anticipated load and use.
- Provide handrails, pipe handrail brackets, toe protection, or other accessories where required by the intended use or applicable project requirements.

2.5 FINISHES

- Provide factory-applied finishes supplied by the Manufacturer.
- Standard structural component finish shall be the Manufacturer's standard finish unless otherwise indicated.
- Protect finished components from damage during shipment, storage, and assembly.

2.6 ACCESSORIES

Provide all accessories necessary for the intended configuration, including brackets, legs, casters, reinforcement components, handrail components, and hardware. Accessories shall be genuine Tdeck+® components or components specifically approved by Productions Unlimited, Inc.

PART 3 – ASSEMBLY AND USE

3.1 EXAMINATION

- Inspect all components before assembly.
- Verify that required components, hardware, and accessories are present.
- Verify that the proposed assembly area is reasonably level, stable, clear of obstructions, and suitable for the intended stage configuration.
- Do not assemble or use damaged or questionable components. Contact Productions Unlimited, Inc. when the condition of a component or assembly is uncertain.

3.2 ASSEMBLY

Assemble Tdeck+® in accordance with the Manufacturer's current assembly instructions. The Manufacturer's published instructions establish the required sequence and hardware for the standard deck assembly.

- Assemble rim joists, end frames, and interior joists to form the deck frame.
- Use the specified brackets and hardware to connect adjoining frame members.
- Verify that adjoining frame members are correctly aligned before fully tightening connections.
- Install interior joists in the quantity and locations required for the selected deck size and configuration.
- Install aluminum reinforcement channel where required by the selected configuration.
- Install decking and secure it to the frame using the Manufacturer's specified hardware.
- Install legs, leveling brackets, caster brackets, casters, handrail brackets, and other accessories as required by the selected configuration.
- Do not omit required fasteners or substitute hardware.
- Do not drill, cut, weld, bend, or otherwise modify Tdeck+® components unless specifically authorized in writing by Productions Unlimited, Inc.

3.3 LEVELING AND ADJUSTMENT

- Level the completed deck using the Manufacturer's leveling brackets and approved adjustment procedures.
- Verify that all supporting legs or casters are properly seated and engaged.
- Verify that deck sections are aligned and that adjoining sections are securely connected.
- Do not use loose materials, improvised shims, or unauthorized devices to obtain the required deck elevation.

3.4 CASTERS AND PORTABLE CONFIGURATIONS

- Install casters only in configurations approved by the Manufacturer.
- Verify caster attachment and locking mechanisms before moving or using the deck.
- Lock or secure casters as required before placing personnel or equipment on the deck.
- Do not exceed the published capacity of the selected caster or the applicable capacity of the assembled deck configuration.
- When moving a portable deck, use handling practices appropriate to the size, weight, configuration, and environment.

3.5 INSPECTION BEFORE USE

- Inspect all frame connections and hardware before placing the deck in service.
- Verify that all required fasteners are installed and properly tightened.
- Verify that legs, leveling components, brackets, and casters are properly engaged.

- Verify that deck surfaces are secure and free of trip hazards.
- Remove damaged or questionable components from service until evaluated by the Manufacturer or a qualified person.

3.6 DISASSEMBLY AND STORAGE

- Disassemble Tdeck+® in a manner that prevents damage to framing, decking, brackets, hardware, and accessories.
- Keep hardware and small components organized with the associated deck sections where practical.
- Protect decking from moisture and damage during storage and transportation.
- Store framing and brackets so they cannot be bent, crushed, or otherwise damaged.
- Secure platforms together for transportation to prevent dislodging which can create damage or harm.

3.7 MAINTENANCE

- Inspect Tdeck+® components periodically based on frequency of use and the conditions of service.
- Replace missing, damaged, bent, cracked, excessively worn, or otherwise compromised components before further use.
- Use genuine replacement components supplied or approved by Productions Unlimited, Inc.
- Maintain casters, hardware, deck surfaces, and moving components in accordance with the Manufacturer's current maintenance recommendations.

3.8 PROTECTION

- Protect assembled Tdeck+® from impacts, improper loading, unauthorized modification, and other conditions that could damage the system.
- Do not place loads on the deck that exceed the Manufacturer's published limitations.
- Do not use the system for purposes other than those for which it was designed without written approval from Productions Unlimited, Inc.

END OF SECTION