

KPTA/RTEC Bid # 8

8 Ambulatory and 2 Wheelchair Tie-downs Shuttle Buses
12 Ambulatory and 2 Wheelchair Tie-downs Shuttle Buses
16 Ambulatory and 2 Wheelchair Tie-downs Shuttle Buses

Clarifications, Exceptions and Approved Equals

Invitation for Bids (IFB)

B.2 Delivery and Acceptance

B.2.1 Delivery of the vehicle is to be completed within 120 days after receipt of acceptance of the bidder's offer by the purchaser.

1. We request that your delivery of the vehicle be changed to 180 days after receipt of order. **BIDDER SPECIFIES DELIVERY TIME ON THE BID PROPOSAL FORM AND COMMUNICATED TO THE PURCHASER**

DIMENSIONS:

Pg. 2 Overall Height: 110" +/- 3".

We request approval to provide an overall height of 118" for vehicles equipped with a flat floor **APPROVED.**

Pg. 2 (12+2) Interior Length Behind Driver: 169" Maximum. APPROVED

We request approval to provide an interior length of 173.5" in this area. This allows for better hip to knee room for seated passengers and additional space for the driver when securing the wheelchair. **APPROVED**

Pg. 2 (16+2) Interior Length Behind Driver: 201" Maximum.

We request approval to provide an interior length of 206" in this area. This allows for better hip to knee room for seated passengers and additional space for the driver when securing the wheelchair. **APPROVED**

VEHICLE BODY:

Body Structural Framing

Pg. 5 Specification: -The sidewall structure shall be a combination of and/or equivalent of the following: All vertical support columns shall be 1"x 2" 18-gauge hot rolled steel, formed box channel with reinforcing groove and/or 1"x 2" 16-gauge hot rolled steel tube.

All non-supporting members shall be 1"x 1" 16-gauge hot rolled steel tube and/or 1"x 1" 16-gauge hot rolled steel C-Channel.

We request the following Champion Bus sidewall construction as an Approved Equal. Vertical support columns to be 1.5" x 1.5" steel 16-gauge galvanized steel construction. Sidewalls shall be constructed of 1.5" x 1.5" 16-gauge GatorShield™ galvanized tubular steel studs and corner posts on maximum 48" centers. A 14-gauge, 1-1/2" x 2" tubular horizontal stringer shall be welded to the top of the studs with a 16-gauge Z-rail welded to the studs at the bottom of the sidewall. Seat track shall be welded to the sidewall studs **FOLLOW BID SPECIFICATIONS**

Pg. 5 Specification: - The sidewall structure and polystyrene core shall be uniformly bonded to all interior and exterior substrates and finish panels over the entire panel surface, thereby creating an integrally structured composite wall panel.

We request the following Champion Bus sidewall lamination process as an Approved Equal. The exterior sidewall is constructed of a 3.9 mm gel-coated product that is a durable semi-rigid fiberglass reinforced polyester resin (FRP). This gel-coated surface is highly scratch and abrasion resistant with excellent weathering characteristics and has been tested in a Thermotron temperature chamber ranging from -40 to 180 degrees Fahrenheit. The insulation is a two component, self-adhering, seamless, high insulation efficiency spray applied rigid polyurethane foam system applied in the sides, rear and roof. It has an R value of 9.5 and provides an excellent thermal barrier. (See Attached NCFI Spray Foam System) **FOLLOW BID SPECIFICATIONS**

Pg. 5 Specification: - The vehicle floor assembly shall be a lateral body support structural design, incorporating longitudinal stringers welded on a maximum of 16" spacing and a perimeter structure of steel angle. The entire floor assembly shall be a jig welded steel structure, equivalent of the following: Lateral G-Channel Crossbeam: shall be 2.0"x 4.8" 14-gauge cold rolled steel, reinforced at each mounting point. Longitudinal support members shall be C-Channel 1"x 1 1/2 " and 1"x 3 1/2 " 12-gauge hot rolled steel. The floor assembly perimeter structure shall be 1 1/4"x 2" 12-gauge hot rolled steel angle. In the wheelchair lift position, a minimum 11-gauge steel plate approximately 20"x56" shall be welded to the floor assembly for strength.

We request the following Champion Bus floor assembly as an Approved Equal. The floor is a continuous flat plane, except at the step wells and fuel fill cover. The floor frame is constructed of galvanized steel 11-gauge, 2" x 2.8" x 2" channel cross-members, on a maximum 34" center, with an outer 14-gauge steel-angle impact rail. 11-gauge, 4" wide flat steel shall be provided to support the seat track. The floor frame is welded to a 1/4" thick C-Channel that is bolted to the chassis with rubber puck isolators utilizing either OEM frame holes or brackets mounted to the chassis frame rails. These isolators are 2" thick and are the same isolators that are utilized by the chassis OEM which makes for a more uniform method of construction consistent with the chassis cab. They also insure that there is no direct contact with the chassis OEM frame rails and the thicker rubber provides more shock resistance versus a thinner material. **FOLLOW BID SPECIFICATIONS**

Pg. 5 Specification: - The roof structural support members shall be the equivalent of 16-gauge hot rolled steel hot section roof bows 1 ½" high x 3 3/8" wide with an 18-gauge hot rolled steel reinforcing cap plate attached to the open side of each bow.

We request the following Champion Bus roof structure as an Approved Equal. The roof consists of 1.5" x 1.5" 16-gauge tubular steel rafters installed on maximum 48" centers. The rafters are welded into two (2) 16-gauge steel "U" shaped sidewall caps.

The rafters, in conjunction with "C" Channels, form a "steel cage" type of construction. The back wall has a 1.5" x 1.5" 16-gauge tubular steel frame, reinforced with 16-gauge "C" channel. A section of 16-gauge Z-channel is welded to the bottom of the back wall. **FOLLOW BID SPECIFICATIONS**

Pg. 5 Specification: - The roof structure and polystyrene core shall be bonded to all interior and exterior substrates and finish panels over the entire panel surface; thereby creating an integral structured composite roof panel.

We request the following Champion Bus roof structure lamination process as an Approved Equal. The roof is a one piece seamless exterior skin roof design, made of TekModo composite material laminated to Symalite composite material. This lamination is a total combined thickness of approximately 4.30 mm (0.170") on the center of roof, which provides rigidity on the roof and allows flexibility and forms to the curvature and radius over the windows. No seams except with front and rear caps and escape hatch locations. The roof skin continues over the sidewalls and between the windows to create a smooth transition between the roof and the sidewalls. Any waviness from expansion vs. contraction is minimal and is not visible in this area. **FOLLOW BID SPECIFICATIONS**

Pg. 5 Specification: - Before or after assembling, all steel body parts shall be given a thorough multiple stage anti-corrosion treatment and prime paint shall be applied to all steel

We request the following Champion Bus anti-corrosion treatment as an Approved Equal. Galvanized steel is used eliminating the need for post coating. In order to provide superior corrosion resistance, all tubular steel shall be galvanized, coated with a 99.9% pure zinc coating during the steel milling process. The steel has a minimum 50 KSI strength and three layers of corrosion prevention coatings. **FOLLOW BID SPECIFICATIONS**

Pg. 6 Specification: - Aluminum exterior sidewalls shall be insulated from the sidewall structure to prevent electrolysis. Side panels below the floor line shall be aluminum easily removable for service and repair. 060 Aluminum exterior skin.

We request the following Champion Bus exterior sidewalls as an Approved Equal. The exterior sidewall is constructed of a gel-coated product that is a durable semi-rigid fiberglass reinforced polyester resin (FRP). This gel-coated surface is highly scratch and abrasion resistant with excellent weathering characteristics and has been tested in a Thermotron temperature chamber ranging from -40 to 180 degrees Fahrenheit. **FOLLOW BID SPECIFICATIONS**

Pg. 6 Specification: - Inside walls and ceiling shall be insulated. The insulation shall be minimum 1" thick high-density polystyrene.

We request the following Champion Bus insulation process as an Approved Equal. The insulation is a two component, self-adhering, seamless, high insulation efficiency spray applied rigid polyurethane foam system applied in the sides, rear and roof. It has an R value of 9.5 and provides an excellent thermal barrier. (See Attached NCFI Spray Foam System) **APPROVED**

Pg. 15 Specification: - Wheelchair lift door shall be a double door and provide a minimum clear opening height of 71".

We request approval to provide a set of wheelchair double doors with a 68" clear opening height. This door is ADA compliant. **APPROVED**