

## SPECIFICATION SHEET FOR DURAFIRM® DIVING STANDS

**THREE METER STAND:** The Three Meter Diving Stand shall be Durafirm® Catalog #70-231-300, three meter height +/- 2%. The diving stand shall consist of heavy aluminum castings dipped in chromic acid solution, followed by a coat of baked epoxy. The roller tube and tracks shall be heat-treated extruded aluminum, processed by Alcoa Duranodic® hard anodizing process. The bearings for the roller tube and slide shall be nylon with fittings, adjustable, and field replaceable. The diving board anchor hinges shall be heat-treated aluminum forgings with a design tensile strength of 35,000 psi and shall receive Alcoa Duranodic® hard anodizing. Hinges shall be mounted on a transverse casting allowing seven leveling positions in one-inch increments. The diving board anchor bolts shall be 5/8" diameter by 3 1/2" long Silicon Bronze. The diving stand guard rails shall be stainless steel tubing firmly attached to the guard rail supports with stainless steel band fasteners. The stand shall include top and intermediate guardrails on both sides of the stand. The guardrails shall extend to the edge of the swimming pool and the rail ends shall be fitted with rubber safety tips. The stand shall be designed for mounting on new decks with the use of eight Durafirm® Catalog #70-231-900 Bronze deck anchors: or on existing decks: mounting with eight through rods (if workspace below), or 12 expansion inserts.

**ONE METER STAND:** The One Meter Diving Stand shall be Durafirm® Catalog # 780-231-4 \_\_\_, one meter height + / - 5%. The diving stand shall consist of heavy aluminum castings dipped in chromic acid solution, followed by a coat of baked epoxy. The roller tube and tracks shall be heat-treated extruded aluminum, processed by Alcoa Duranodic® hard anodizing process. The bearings for the roller tube and slide shall be nylon with fittings, adjustable, and field replaceable. The diving board anchor hinges shall be heat-treated aluminum forgings with a design tensile strength of 35,000 psi and shall receive Alcoa Duranodic® hard anodizing. Hinges shall be designed to allow 180-degree rotation of the diving board to the rear of the stand. Hinges shall be mounted on a transverse casting allowing seven leveling positions in one-inch increments. The diving board anchor bolts shall be 5/8" diameter by 3 1/2" long Silicon Bronze. The diving stand shall be supplied (with top and intermediate guardrails on two sides) (top guardrail only on two sides) (top guardrail on one side only). The diving stand guard rails shall be stainless steel tubing firmly attached to the guard rail supports with stainless steel band fasteners. The rails shall extend to the edge of the swimming pool and the rail ends shall be fitted with rubber safety tips. The stand shall be designed for mounting on new decks with the use of eight Durafirm® Catalog #70-231-900 Bronze deck anchors: or on existing decks: mounting with eight through rods (if workspace below), or 12 expansion inserts.

**SHORT STAND:** The Diving Stand Anchor and Fulcrum Assembly shall be a Durafirm®, Catalog # 70-231-5 \_\_ “Short Stand” designed for mounting on a concrete, steel or other field fabricated diving platform. The diving stand shall consist of heavy aluminum castings dipped in chromic acid solution, followed by a coat of baked epoxy. The roller tube and tracks shall be heat-treated extruded aluminum, processed by Alcoa Duranodic® hard anodizing process. The bearings for the roller tube and slide shall be nylon with fittings, adjustable, and field replaceable. The diving board anchor hinges shall be heat-treated aluminum forgings with a design tensile strength of 35,000 psi and shall receive Alcoa Duranodic® hard anodizing. Hinges shall be designed to allow 180-degree rotation of the diving board to the rear of the stand. The diving board anchor bolts shall be 5/8” diameter by 3 ½ “ long Silicon Bronze. The diving stand shall be supplied (without guardrails) (with top and intermediate guardrails on two sides) (top guardrail only on two sides) (top guardrail on one side only). The diving stand guard rails shall be stainless steel tubing firmly attached to the guard rail supports with stainless steel band fasteners. The rails shall extend to the edge of the swimming pool and the rail ends shall be fitted with rubber safety tips. The stand shall be designed for mounting on new decks with the use of six Durafirm® Catalog #70-231-900 Bronze deck anchors.

**DECK ANCHOR:** The Diving Stand Anchor shall be a Durafirm®, Catalog # 70-231-900 heavy cast Bronze anchor. The anchor shall be machined smooth at the top and shall be drilled and tapped 5/8” NC thread to receive the bronze diving stand mounting bolts. The anchor shall be supplied with sealing corks to prevent damage to threads during installation.

**DECK REQUIREMENTS:** Anchorage for Durafirm® stands shall be positioned and permanently spotted with concrete prior to pouring concrete decks. Shipped by the manufacturer with bronze anchor castings (8 for one meter – 8 for three meter – 6 for short stand) is a full-scale paper template showing exact location of attach holes with reference to edge of pool and showing centerline of structure. From this paper template, the contractor can drill a ¾ inch plywood sheet – 5/8” diameter holes. Castings may be bolted to under side of plywood: -- plywood sheet can then be located and leveled. For short stand units on concrete pedestals or supports it is imperative that the top surface be a level plane. Drainage should be toward the center of concrete through a tube in the deck. For one meter and three meter Durafirm® stands the four deck attachment points for fulcrum support must be a level plane and the four ladder attach points must be a level plane. These need not be a common plane – a difference of 2” is permissible. The deck surface must be finished flush with top of anchor castings and must have a flat area at each attach point of no less than six inches in diameter. Abrupt changes in deck contour must be avoided. Feathering or fairing of drainage must take place outside this attach point flat area.