

# **SPECIFICATIONS**

## **AIR-FLO PRO CLASS® DUMP BODY**

### **INTENT**

It is the intent of these specifications to describe a \_\_\_\_\_ cubic yard dump body. The dump body shall have a scissor type hoist and a Quick Latch™ Tailgate System. To promote the dirt shedding characteristics of the dump body, the horizontal bottom and outside top bends of the body shall have smooth rounded corners with a rounded radius of 1 1/8". To allow for better adhesion a phosphate wash shall be used prior to application of the prime coat.

### **BODY**

The overall length of the dump body shall be \_\_\_\_\_ and overall width shall be 94". It shall have a capacity of \_\_\_\_\_ cubic yards without sideboards. The sides shall be \_\_\_\_\_ high. The double wall sides are constructed of 10 gauge inside walls and 12 gauge outside walls, the top of the side shall have a 4 1/2" deep boxed top rail with a top radius bend of 1 1/8". The sides are supported by 3 vertical gussets 4" wide by 3" deep with radius bends of 1 1/8". The bottom of the sides will have 45 degree dirt shedding rub rail that is 6" wide from the bend and have a bottom radius bend of 1 1/8. The rear corner post shall be 12" wide and 5" deep.

### **HOIST & SUB FRAME**

The sub frame shall be of C Channel design 4 1/4" high by 3" wide by 3/16" wall thickness and welded at all joints. The sub frame will incorporate the rear hinge with an easily replaceable bolted hinge pin for the dump body. The sub frame shall also incorporate a hoist which shall be a combination of double arm and scissor design. The scissor hoist shall have a 5" x 20" lift cylinder with a 2" chromed rod that will ensure a dump angle of not less than 50 degrees.

### **CAB SHIELD**

There shall be a 1/4 cab shield made of 10 gauge steel. The cab shield shall extend 15" from the front of the body.

### **FLOOR**

The floor shall be made of 10 gauge steel and supported by a stacked under structure consisting of 3" channel cross members on 12" centers. The cross members shall be supported by (2) 5" channel steel longitudinal members running the full length of the dump body. To eliminate a potential rust point, there shall be no floor to side seam.

### **TAILGATE**

The 10 gauge steel tailgate shall be \_\_\_\_\_ high. There shall be 4 vertical gussets full width that are 3" deep with radius bends of 1 1/8". The top of the tailgate shall be 4 1/2" deep with 1 1/8" radius bends. The bottom horizontal rail shall be full width. The tailgate shall have the Quick Latch™ System which consists of a spring loaded, cam handle mechanism attached to a 1 1/4" stainless steel pin with safety chain clip. These are to be located on both sides of the unit on top of the rear corner posts with pin positioned through the tailgate and body hinge. The spring loaded pin can be retracted to facilitate the horizontal position of the tailgate. The bottom hinge pins shall be 1" in diameter. The tailgate handle release will allow the tailgate to drop completely in a vertical position.

### **POWER UNIT (ELECTRIC OPTION)**

The hoist assembly shall be powered by a 12 Volt DC with intermittent duty motor power unit. The unit shall have a gear style pump with a single acting solenoid operated valve. The relief valve shall be set at 3200 PSI for up pressure. It shall have an oil reservoir with a capacity large enough to provide sufficient oil supply for the unit.

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