



## 5 Components to a Roll-Off Dewatering Container Build

Dewatering style roll-off containers, sometimes referred to as filtering containers, create an efficient one-step process to separate solids and liquids. Because of the specific operation of the container, it is built differently than a standard rectangular roll-off container. Let's talk about the five components that go into the build of a roll-off dewatering container.

1. Container
2. Basket
3. Fittings
4. Tailgate
5. Finish

### **Container**

Available in cable, hooklift, combo, or a stationary unit for a fixed location, dewatering containers are manufactured in standard and custom sizes and specifications to best fit the operator's needs. They can range from a small 10 yard container to as big as 60 yards. There are several roll-off manufacturers that build dewatering containers. Thus, there are going to be different builds for the roll-off. For example, one may use 10GA steel sides and 3/16" floor sheet while another will use 7GA steel sides and 1/4" floor sheet.

### **Tailgate**

Dewatering containers featured a sealed style tailgate. A sealed gate has three stand out components as compared to a standard tailgate: seal, hinges, and latches. The common type of seal used for a dewatering container tailgate is the P-Seal. P-Seal is attached to the container using P-Seal Track and Multi-Seal adhesive. For the seal to be tightly secured to the container and operate properly, a sealed tailgate hinges and latches are manufactured differently. The hinges on a roll-off container are affixed to the rear post and the tailgate. The heavy duty slider style, also known as a slotted hinge, is attached to a ratchet binder that when cranked allows the hinges to "slide" or tighten the tailgate to the container. Like the hinges, the latch lift handle is also attached to a ratchet binder. Once the tailgate is closed, the latch mechanism locks the tailgate in place and the ratchet binder is cranked. Once that is complete, the tailgate gives a waterproof seal.



### **Basket**

With the main operation of a dewatering container to separate solids and liquids, this style of roll-off features a perforated steel basket, sometimes known as a shell. The basket can be manufactured as a permanent unit. However, many manufacturers have transitioned to a bolt-on removable style basket. Similar to the build of the container, manufacturers may

utilize different gauges and hole sizes of the perforated steel sheets. The basket, typically built on 6" channel, raises the basket floor 6" from the floor sheet of the container. This gives plenty of space for the liquid once separated from the sludge material.

### **Fittings**

Another unique feature of dewatering container is the fittings. Fittings are commonly located on the tailgate of the container but can also be utilized on the sides and front of the container for additional drainage areas. There are several styles of fittings and caps that work on a dewatering container. Here are some that the buyer can choose from and how they work with the roll-off container:



Pipe and Nipple Caps

- *Pipe and Nipple Caps* are the most common fittings for a dewatering container. They are mostly placed on the bottom of the tailgate specifically at the level where the liquid can be easily drained from the container.
- *Dust Caps*, also known as a *Type DC*, are used to seal off Type A cam and groove pipes when not in use.
- *Threaded Flanges* can be used instead of welded on flanges on containers that transport and store more hard-to-handle materials.
- *Butterfly Valves* help to regulate the flow of liquids.
- *Brass Lever Valves* are used in wastewater applications for quick and efficient draining and pressurizing.
- *Blind Flanges* are used to seal up a pipe when not in use.



Brass Level Valves

### **Finish**

Once the container and basket are manufactured, they go through a paint preparation step. During this step, scrapers are taken to every part of the container to remove any weld splatters. A grinder may also be used at the step to smooth down the welds. The container is then wiped down and is ready to be painted.

Paint is more than making the container look nice. It is also used as a defense against damage and rust. To increase the longevity of containers, many manufacturers will also utilize a prime coat prior to paint for additional protection. Most roll-off containers will be primed and painted to a color specified by the customer. An exception to this would be if the customer has a customized color that they choose to apply themselves or if they choose to leave the container in its raw steel form. If the dewatering container features a removable basket, there will be additional steps to the finishing process as the basket and container will need to be primed and painted separately. Once the paint is cured to the roll-off, the basket is placed within the container and bolted in, all necessary accessories such as pipe fittings and tarp systems are added, and it's ready to be put to work.

Dewatering containers are ideal for several different applications, such as water filtration, wastewater treatment plants, oil & gas, and environmental remediation. With these five components and a reputable roll-off manufacturer, the dewatering container will be built to fit whatever the business needs.

*With more than 35 years of experience, you can trust Bucks Fabricating to provide you with hardworking products that keep your business in motion. We understand that every business is different, and we know how to build a container to support them. Whether you are in water and wastewater treatment/hauling, segment processing, and excavation, a Bucks Fabricating container is not only backed with several years of manufacturing experience, but the ability to offer several features and options to fit the needs of your business.*

