

CORRUGATED SERIES

Silos



Technical Specifications

Corrugated Silos provide an efficient method of storing bulk quantities of material for process. Not only does bulk storage ensure that the materials needed to keep an operation running are always there, it also provides a way to buy raw material at less cost. Minimizing waste, contamination, and freeing up valuable floor space are additional advantages of the bulk storage system. Silos are constructed from an FDA approved galvanized metal which provides a maintenance free surface. The silos are sealed with FDA approved crosslinked polyethylene foam sealant to prevent water infiltration. Various capacities, methods of fill and discharge are available. Accessories and safety equipment to OSHA specifications are available as well.

Features

Standard Features

- FDA Approved Galvanized Coating, Interior and Exterior
- 22" Top Access Hatch
- FDA, HDPE, Foam Seal, Double Row
- Perimeter Railing and Toe Plate (10° Roof Silos)
- Manguard Assy, 8' Dia. Expanded Metal Level Platform (30° Roof Silos)
- All Accessories are Galvanized or Aluminum
- Bolted Construction
- Corrugated Sidewalls, Smooth Wall Hopper Section and Roof Section
- Seismic zone 2A per UBC1997
- 120 MPH Wind, Exposure C, I=1.0 per ACSE 7-98
- NOTE: Verify local standards and code requirements, i.e. IBC Standard, P.E. Stamp, etc.

Optional Features

- Vacuum discharge packages
- Air filter kits
- Gravity discharge chutes
- Level indication
- Silo skirting packages with walk-in door
- Air fill kits
- Crosswalks
- Ladder and cage assemblies
- Roof ladders and safety railings (30° roof silos)
- Manguards (30° roof silos)

Anchor Bolt Detail

Every bolted, corrugated silo that we install is mounted to the concrete pad foundation by the Tru-Bolt anchoring system. This eliminates the need for setting bolts in wet concrete before the silo is erected. The Tru-Bolt anchor allows you to erect the silo, position it, and then drill the anchor holes and secure the anchors. With this method, the anchors are always properly located. The Tru-Bolt anchor has a 7800 lb. pull-out strength, exceeding the strength of an ordinary mounting bolt.

Foundation Specifications

Foundations must be appropriately designed for local soil and frost depth conditions. Sizes given are adequate to resist 1.5 times the over-turn force of a 30 psf wind load acting on .6 times the surface area of the silo. The foundation should be placed on soil with a bearing capacity of 3500 psf, or special modification of the foundation must be considered.

Concrete in the footings should have a minimum compression strength of 3,000 psi at 28 days. Reinforcing steel must have a minimum yield strength of 40,000 psi. Welded wire fabric must meet ASTM A-185. The concrete foundation should be no more than 1/8" out of level.

Specifications

Type	Diameter, ft.	Cap. water, cu. ft.	Cap. usable, cu. ft.	Cap. lbs. (@ 35 lbs./cu. ft.)	Silo top	Hopper cone
10°	9, 12, 15 or 18	439-6820	375-5628	13,475-220,500	13'-37'-8"	45° or 60°
30°	9, 12, 15 or 18	-	476-7121	16,660-249,235	14'-6"-40'-3"	45° or 60°