



The CESCO Corrugated Square Silo (CSS) is a modular, efficient, and versatile storage system designed for the safe and well-organized storage of bulk materials, including grains, corn, pellets, and other granular and free-flowing bulky products.

CESCO's versatile square silos help address space limitations and seismic challenges in process plants, thereby enhancing safety and cost-efficiency, especially during facility expansions.

### ADVANTAGES

- Compact and modular design utilizing fully bolted technology for simplified erection and transport.
- Up to 38% higher storage capacity compared to round silos.
- The absence of gaps between silos eliminates residual spaces, reducing the risk of mold, fungi, or insect contamination.
- fully bolted design: materials are well packed, reducing shipping volume and costs, while allowing for easy and cost-effective on-site assembly.
- Exceptional corrosion resistance achieved through comprehensive coating of cavities in the double-walled components.

### DESIGN

- Cell lengths range from 2000 mm to 4000 mm in 250 mm increments.
- Cell heights range from 3 to 30 m in 550 mm increments.
- Cell wall width available in thicknesses of 120 mm and 160 mm.
- Corrugated sheet's inclination and wide bevels ensure a smooth product flow, preventing any product deposition.
- Outer walls of the cells designed for cladding attachment using sheet metal or polyurethane sandwich panels.
- Cell outlet hopper with a central round outlet, or multi-hopper.
- Includes substructure, frame, ladders, and operating platforms.
- Multiple coating options are available, including paint, galvanization, or stainless steel materials for both internal and external surfaces.

### Principle of operation



The silo cells in the modular design can be configured either as a silo battery in a row or as a block with varying heights and capacities. The silo block can seamlessly integrate into the steel structures of machine houses or mill buildings.

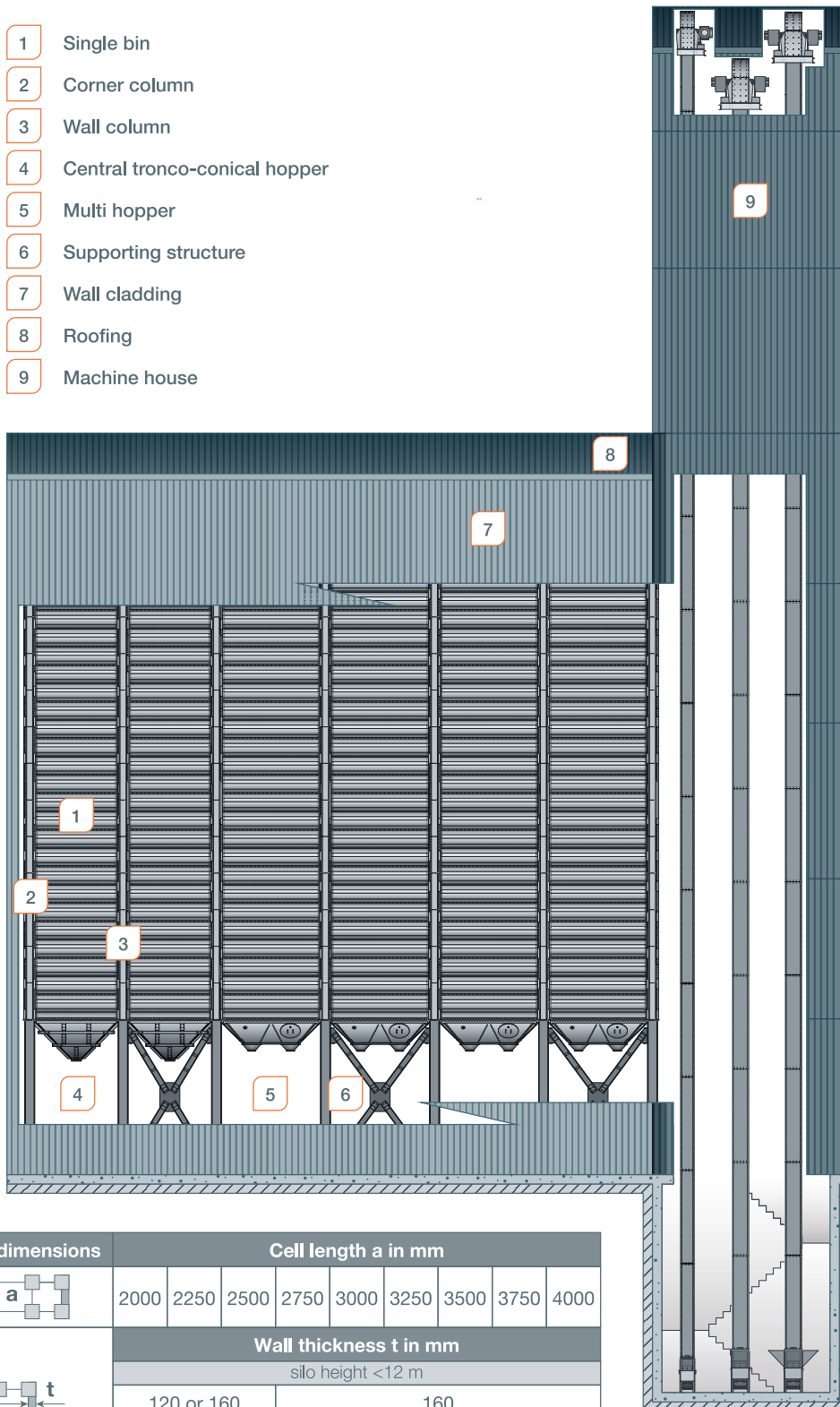
Each silo is composed of double-wall elements that are securely screwed together. Each wall element features a lateral structure forming a quarter beam. When four double-wall elements come together, they create a hollow beam, which can be filled with concrete after installation to ensure the silo's high rigidity.

In addition, each silo cell is equipped with a bolted outlet hopper, providing both central round and multi-hopper outlet options.

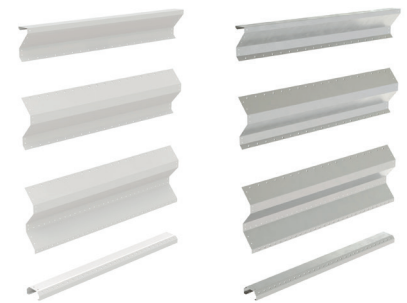




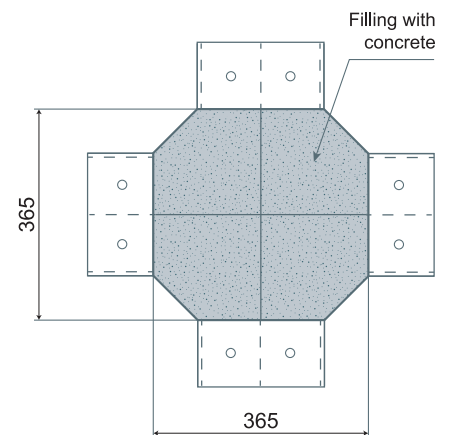
- 1 Single bin
- 2 Corner column
- 3 Wall column
- 4 Central tronco-conical hopper
- 5 Multi hopper
- 6 Supporting structure
- 7 Wall cladding
- 8 Roofing
- 9 Machine house





Compact 3x3 silo cell with supporting structure. The roof of the cells can be constructed either with a reinforced concrete cover cast on a corrugated galvanized steel sheet bed or using a globular sheet cover and a lightweight beam network.



CSS wall elements available with either painted or galvanized surface coating.



Horizontal cross section of internal column.

Cell dimensions	Cell length a in mm									
	2000	2250	2500	2750	3000	3250	3500	3750	4000	
	Wall thickness t in mm									
	silo height < 12 m									
	120 or 160					160				
	silo height > 12 m									
	160									