



Scope of Work:

- FEED Study
 - Value Engineering
 - Geotechnical Analysis
 - Material-Handling Systems Engineering
 - Structural Engineering
 - Mechanical Engineering
 - Electrical Engineering
 - Procurement & Subcontract Management
 - Dome Construction
 - Tunnels Construction
 - Material-Handling Systems Installation
 - Explosion Relief Installation
 - Additional Steel & Concrete Construction
- None Some All

The quick construction time, and protection against the elements are key advantages of constructing a dome.

The dome maximizes storage capacity on minimal real estate.

As a result of its geometry, a dome can support sizable structures like a headhouse and conveyors.

Storage & Reclaim:

- 1 Dome: 57m (187ft) Wide x 28.5m (93.5ft) Tall
- 50,000 Metric Tons, Clinker
- Front-end Loader

Overview:

For a new clinker storage site in Santiago, Chile, BSA Cementos needed massive storage that would stay secure, no matter how much the earth might shake.

Dome Technology was contracted to build a dome at the new site where BSA Cementos will increase its production by 950,000 tons per year during the first stage of operation, with as much as 1,900,000 tons a year being processed per year. The contract for the project is with SALFA Montajes S.A., and the final customer is BSA Cementos.

Selecting a dome “has several technical advantages that will eventually be reflected in economic benefits for our final customer,” said Nilo Araya Gonzalez of SALFA Montajes, head of supplies for the BSA project, adding that quick construction time, a smaller construction crew and a low-maintenance final product were key advantages.

The plant is expected to have a continuous supply of clinker from the port for production, and “this dome allows the customer to have a 50,000-metric-ton stock of clinker in case there is a delay with shipping from the port,” said Dome Technology operations manager Eudaldo Chavez Zazueta said. “This enables them to respond to the local market effectively without disrupting the factory’s production output and increasing reliability of their whole operation.”

Chile is known for its seismic activity, “but even more important than that, we are known to have one of the most rigorous building codes regarding the considerations to be accounted for when doing any type of construction,” Araya said. “The dome’s geometry gives it excellent stability and load-absorption characteristics; therefore, this design has important advantages in meeting seismic requirements that are mandatory in our country, which will as well translate into savings during construction.”

“For nearly four decades we’ve relied on a collaborative approach with companies—they’re in the driver seat, and we help navigate. In every project Dome Technology incorporates innovative technology to maximize storage capacity and system performance with an economical solution,” Bradley Bateman, CEO, Dome Technology.



Read more about this project at: link.dometechnology.com/5679

