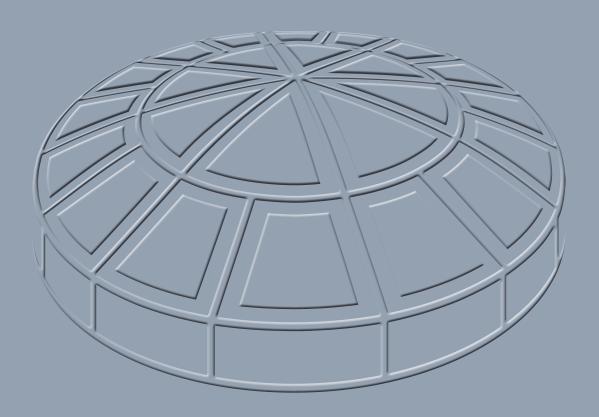
Fukushima and Beyond

THREAT-DIMENSIONED SECURE FACILITIES & GC SERVICES







Founded in 1988, Golden Sands is a growing leader in commercial general contracting and a Certified Women's Business Enterprise. Based in Miami, the company has market coverage throughout the Southwest, Southeast and Mid-Atlantic and is self-performing in demolition, concrete, roofing, insulation, waterproofing, mold abatement, glazing, painting and drywall.



American Business Continuity Domes, Inc., (ABC Domes), in conjunction with its Joint Venture Partner, Golden Sands General Contractors, and Strategic Alliance Partners, Dome Technology and Engineering System Solutions (ES2), is actively engaged in the engineering, development and construction of Fukushima Flex facilities at nuclear power plants throughout the U.S.

Our Dome Team is comprised of a strong and versatile group, with experience in the nuclear, general construction, dome development and engineering industries as well as the military. This high level hands-on team specializes in the engineering, design and construction of the most disaster resistant commercial structures on the market.

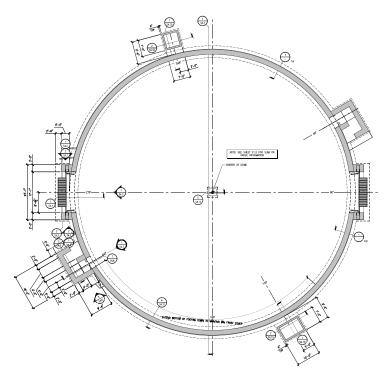
Beyond the domes for Fukushima Flex, engineered to meet the NEI-12-06 Requirements, our standard domes are FEMA-361 compliant and offer an economical, highly functional alternative for general commercial storage purposes, efficient command centers or secure offices.

Beyond the domes entirely, our Golden Sands team offers a full spectrum of general contracting services including:

- Design-Build
- New Construction
- Interior Buildout
- Major & Minor Renovations
- Dedicated Service Department

Finally, we offer innovative ancillary products including Blast Doors and proprietary processes particularly relevant to the military market.





Disaster resistant, steel reinforced concrete domes provide near absolute protection from:

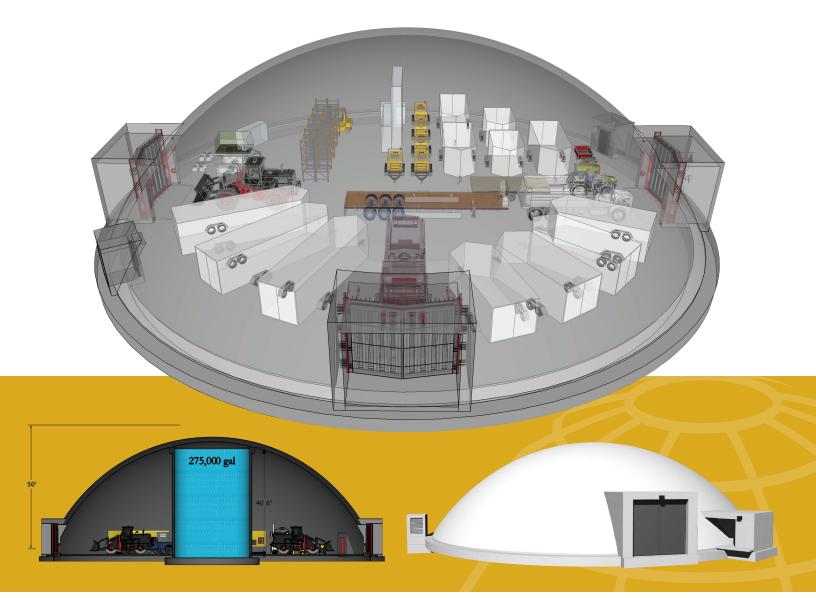
- EF-5 Tornados
- Cat 5 Hurricanes
- Earthquakes
- Fires
- Extreme Wind
- Event Driven Missiles

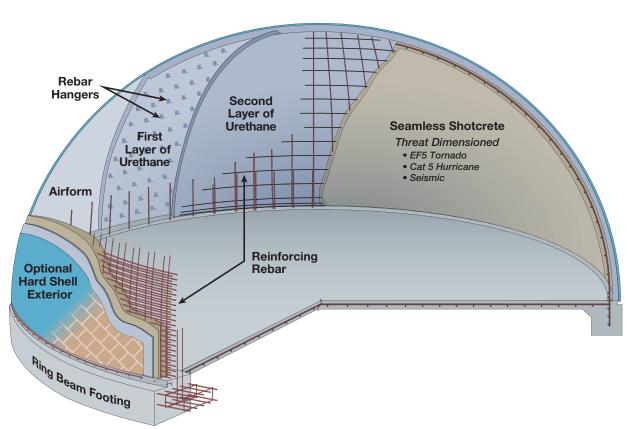




Competitive Benefits:

- Lower construction costs than conventional construction.
- Speed to market shorter construction process.
- Thermal mass and integrated insulation result in energy savings, temperature control, and structure longevity.
- Customizable open span floor plans.
- Less lay down space.
- Proprietary construction process is not compromised by harsh weather conditions.
- Advanced engineering drawings for Fukushima Flex domes.





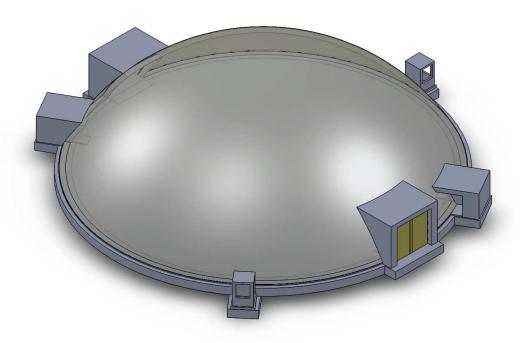
The Strategic Alliance of

ABC Domes and Dome Technology

continually works on ancillary products that further enhance the functionality and integrity of the domes.

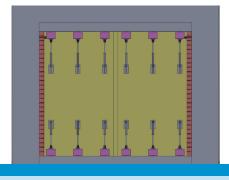
Among our current innovations are the competitively priced, domestically produced Blast Doors. Designed for wind loading of 360 mph tornado wind speeds with 3 psi internal pressure, our engineering team used codes including ASCE 7-10, ASCE 3269 and NRC Regulatory Guide 1.76.

The design of the doors has been approved by multiple nuclear power plant clients for use at the Fukushima Flex equipment storage domes.



Blast Door Features:

- Superior ductility in the event of a missile strike.
- Minimal hinge exposure profile decreasing the likelihood of a missile strike to the hinges.
- Simple load path transfer.
- Simple push button open and closer mechanism.
- Ability to run on house power or generator power with battery back-up.
- In the unlikely event that the door closer mechanism is damaged pins may be pulled to decouple the hydraulic rams and door may be opened manually.





Missile Loading:

- 1" Steel Rod, 8 lbs, 200 fps
- △ 12" Steel Pipe, 750 lb, 150 fps
- △ 13" Wood Utility Pole, 1500 lb, 175 fps
- Automobile, 4000 lb at 75 fps or 2000 lb at 150 fps

Seismic Loading:

- 1g horizontal
- .67g vertical
- Seismic codes used ASCE 7-10.

The design of the doors was completed using a Finite Element
Analysis assuming both linear elastic and perfectly plastic elements.
A time history analysis was not completed. A dynamic load factor of
2 is utilized to convert dynamic loads into equivalent static loads.



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ABC Domes operates in a strategic alliance with industry leaders:





And in a ioint venture with:



Contact Us

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