

# *Solution* by Reward.

## **Dental Ceramics, Inc.**

Richfield, Ohio

### **Challenge:**

The owner of Dental Ceramics wanted a modern, energy efficient, and sustainable designed building to house their corporate office and product development labs. The sloping site in the Cleveland suburb required the basement walls to be 16' high, and the owner wanted one of the walls to feature a rotunda. In addition, the project schedule dictated winter erection and filling of the ICF walls.



### **Solution:**

Reward Wall Systems', Inc. 9", 11", 13', and 15" iForm ICF products were used for the exterior, stairwell and firewalls due to their 5 in 1 wall assembly features that combine structural strength, R-22 insulation, sound attenuation (STC of up to 57), air and vapor barriers along with embedded vertical furring for attachment of interior and exterior cladding. By using Reward ICFs, the design team reduced the cooling tonnage requirements from 75 to 43 tons due to less air infiltration plus the higher thermal mass and R-value of Reward's products. The iForm consists of (2) 2.5" thick panels of high density expanded polystyrene connected by high density polypropylene ties spaced 6" on center. The product is completely universal and reversible which saves time in constructing the walls. The general contractor, Lad Lavicka Inc., and the ICF installer, Kurtz Quality Construction, built the shell during the winter months as ICFs insulate the concrete allowing for cold weather pouring and building erection.

### **Project Profile:**

28,000 Square Feet; Hardie Board & Cultured Stone Exterior; Drywall Interior.  
Designer and Struc.Engineer Rob Miller P.E. of M2 Design Group, Worthington, Oh.  
General Contractor: Lad Lavicka, Inc.



### **Distributed By:**



Cleveland 1-800-362-9267  
Canton 1-877-258-7601  
Toledo 1-800-860-3352  
[www.chasehipps.com](http://www.chasehipps.com)