



EPSTEIN

Design Profile Cameron International Manufacturing Facility & Office

PLOIESTI, ROMANIA

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Architecture
Interiors
Engineering
Construction

Creative Solutions for a Sustainable Future



Cameron International

PLOIESTI, ROMANIA



Epstein provided Design-Build services for a new Manufacturing and Regional Office Facility for Cameron International in Ploiesti, Romania.

This 16M € (\$23,134,945.00), 134,550 square foot manufacturing and office facility was executed by Epstein on a full design-build basis with Epstein performing all architectural design and engineering services for the entire project including civil, structural, mechanical, and electrical.

As the Design-Builder for the project Epstein also performed all construction contracting and management of the construction phase of the project including

procurement, scheduling, safety and quality management, and the management and coordination of over a dozen separate trade and specialty subcontractors.

This new facility for Cameron is used for the production of extremely high pressure natural gas and petroleum well delivery and pipeline systems. The production operations include automated machining of these high precision valve and well head components, heat treatment, precision automated micro-welding, quality checking and assurance areas, final product cleaning and finishing. The office facilities include both administrative and management support for the production facility as well as other regional business activities for Cameron.

This new Romanian facility for US-based Cameron is situated within the Ploiesti Industrial Park on a 550 hectare parcel. The site is fully fenced and designed with a single entry with Guard House and barrier gates. The building is roughly centered on the site with parking and truck access areas on both the north and south ends of the facility and a loop roadway on the east and west sides of the building providing vehicle and truck access to all sides of the building.

The new facility includes over 1.3 kilometers of roadway construction and over 215 parking spaces. In addition to the loop roadway the entire developed area of the site has a private fire main loop that is supplied from an on-site 300,000 gallon fire tank and two fire pumps. The natural gas service to the building features a high volume line to provide service to the building boilers and production heat treatment furnaces. This natural gas service line is equipped with both leak detection and earthquake sensors to provide automatic shut-off of the gas service in an emergency.

The building portion of this facility is divided into two main building structures and uses; the Production Hall which is a 113,746 square foot area where the manufacturing and production processes are carried out and the Office Building, a 3-level structure housing the offices and administrative areas, canteen, first aid, security and IT hub. The Production Hall is a rectangular divided into two 95' wide bays. Each bay includes a crane way with over 25' of lifting height and five overhead bridge cranes with capacities of 5, 10 and 20 tons. The Production Hall also includes "green features" in the form of continuous skylights and clearstory windows to provide natural lighting for most of the day in the facility.



Cameron International Manufacturing Facility & Office
PLOIESTI, ROMANIA

- A: Production Hall
- B: Exterior Elevation of Production Hall and Office Building
- C: Assembly and Testing Area



D

E

F

G

D: Exterior Elevation of Production Hall
 E: Production Hall Facade
 F: Night Exterior Elevation of Production Hall and Office Building
 G: Office Building Exterior Detail

Sustainable Features

The storm water system for this facility incorporates “green” and environmentally friendly aspects in its design by utilizing the natural sandy/gravel subsurface of the site to allow for natural infiltration of all site storm water through a “soak-away pond” area and by means of a manufactured underground infiltration structure. This system eliminates storm water runoff impact of this facility on local waterways helping to prevent erosion and flooding.

Epstein Locations

Chicago (Headquarters)

600 West Fulton Street
 Chicago, Illinois 60661-1199
 T 312.454.9100
 F 312.559.1217

New York

330 West 34th Street, Suite 1800
 New York, New York 10001-2406
 T 212.843.1800
 F 212.843.1818

Warsaw, Poland

ul. Kruczkowskiego 8
 00-380 Warszawa, Poland
 T 48.22.525.0.300
 F 48.22.525.0.301

Bucharest, Romania

Premium Plaza
 63-69 Dr. Iacob Felix Street
 Floor 7 and 8, Sector 1
 Bucharest, Romania
 T 40.21.311.6122
 F 40.21.311.6120

Media Contact

Noel Abbott
 Vice President
 Director of Marketing & Public Relations
 T (312) 429-8048
 E nabbott@epsteinglobal.com

About the *Design Profile*



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Epstein's *Design Profile* is a brief in-house publication addressing our recent design and construction projects and discussing today's industry challenges.

Since 1958, the *Design Profile* has covered our project history, from warehouse and distribution facilities to award-winning architecture and interior design projects.

Now in our fifth decade of publishing the *Design Profile* has now transformed into a completely electronic publication. In a effort to be as sustainable an organization as possible we no longer print and distribute the *Design Profile* via traditional mail. Each issue is now “published” to our readers through a e-mail message that is linked to our website. We hope that this little step in sustainability inspires you to find opportunities to become “green” with your publications/communications.

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