



architecture, engineering, urban planning

Politecnica, among the major Italian Integrated Design Consulting firms

PRESS RELEASE

“Greatness in the sky” the new international project,
distinctively Italian

Politecnica for the new international airport in Panama

Modena (Italy), 3 Ottobre 2017 – Politecnica, one of the leading integrated design consulting firms for *architecture, engineering and urban planning*, fully owned by Italian shareholders — designed on behalf of **ISCOM S.p.A.**, manufacturer of the RIVERCLACK® roofing system, the **structural design of the superstructure elements forming the roof of Tocumen new international airport in Panama City, project designed by Foster+Partners architects.**

The Project, named “*greatness in the sky*” project, specifically envisages the construction design by Politecnica of the **load-bearing structures supporting the roof** for Tocumen new airport in Panama, where the iconically designed, cutting-edge structure is there to symbolize the growth and development in the area. The enveloping shell of the building introduces a new **landmark in Panama City, being the distinguishing trait of integrated structural and environmental strategies.** **The roof of Panama new airport, based on typical Italian features,** will be implemented by using **construction material entirely designed and manufactured in Italy, thousands of components varying in size, manufactured by Italian companies and workshops.**

A technically challenging concept for a system of elements supporting the roof covering, around 700 meters in length and 180 in width, double-curved, continuously varying, with a remarkably small gradient. **Great design accuracy** is thus demanded for the definition and control of the case shape.

Once developed the surface, the designing team focused on engineering the structural elements to support the roof envelope and achieve the geometrical shape solution, thus assuring the essential resistance to wind and seismic action for compliance with locally applicable standards.

“We are quite honored to work for the realization of Tocumen new airport, a project highlighting Politecnica’s international leadership in the design of technically sophisticated works. It makes us very proud and it does, at the same time, make us feel greatly responsible towards our country” declared **Francesca Federzoni, President of Politecnica.**



Link to Project: <http://www.politecnica.it/en/progetti/tocumen-international-airport/>

Politecnica gained a considerable experience in the implementation of civil and infrastructural works in several developing Countries, such as the recent design of the **Ethio European business school and Business Innovation Centre in Addis Ababa**, and the **One Airport Square Building** within Accra International Airport development area in Ghana.

CREDITS

Location: Panama City

Country: Panama

Client: ISCOM s.P.a., Verona (Italy)

Design Team: Politecnica Ingegneria e Architettura

Assignment: Construction Design, technical assistance, development and geometrical definition of the surface and the structures supporting the RIVERCLACK® roofing.

Date: 2016/2017

Period: ongoing

Area: 85.000 m²

Covered Surface: 50.000 m²

POLITECNICA

Politecnica is among the **Italian leading consulting firms of Integrated Design – Architecture, Engineering and Urban planning**. Independent, fully controlled by its 40 partners, all engineers and architects who signed international projects in more than **50 Countries**, Politecnica has a turnover of around 15 Million Euro/year.

Politecnica **has 5 offices in Italy**, located in Modena, Milan, Bologna, Florence and Catania and operates in **11 Countries**, i.e. Armenia, Belize, Ivory Coast, Ghana, Malta, Palestine, the Democratic Republic of Congo, Sierra Leone, Turkey, Ethiopia and Kenya).

Politecnica is engaged in **projects covering all sectors, ranging from public & private to school & healthcare, industry & service, infrastructures**; the staff of its international division implemented civil and infrastructural Projects financed by International Financial Institutions in many developing Countries.

Integrated Approach

Comprehensive and integrated knowledge – covering MEP and Urban Planning, from structural to architectural design, achieved through the teams' collaboration and the complementary professional skills and know-how of over **200 staff units including designers, planners, engineers, specialized consultants and expert technicians**.

Project Management

Capability of managing the project development, approaching critical issue and implementation based on the client's need, optimizing time and human resources.

An area of specialization in "**participated and shared design**" for the implementation of public works (schools, hospitals, infrastructures) involving institutions, local authorities and communities since the preliminary stage, with joined interest resulting in shared advantages for the entire territory and future service users.

Sectors

Healthcare is one of the areas of the firm's greatest competence, with "**participated and shared design**". In fact, **Politecnica**, in recent years, has implemented the greatest number of building design projects for healthcare facilities, such as the **University Hospital Complex in Sassari, the New Hospital of Pordenone, La Spezia New Hospital and Catania Hospital New Departments**.

In the **industrial sector** Politecnica gained consolidated **experience** in the realization of new production plants and restructuring works, redevelopment and structural rehabilitation and/or retrofit with innovative project solutions optimizing investment and operational costs. Politecnica **designed and planned** projects on behalf of some of the **major multinational corporations investing on the Italian territory**, thanks to its ability to associate highly specialized international teams with sound territorial and building construction standards know-how, both nationwide and worldwide.

Private stakeholders and investors intending to develop projects, in any of the outstanding fields, industrial, business and service, may rely on multi-disciplinary backstopping ranging from independent audit, due diligence, *value engineering* to design, administrative management, works direction and supervision.

In the restoration and valorization of the **historical and architectural heritage**, Politecnica has a remarkable reputation due to the recently recovered **Saint Geminiano's Complex and Saint Paul's Complex**, located right in the historical heart of Modena old town. Politecnica is also expert in the works for the compliance to safety standards, restoration, retrofit and structural consolidation of historical buildings damaged by seismic action, e.g. just after May 2012 earthquake in the Emilia Romagna Region of Italy, **the Sartoretti Palace of Reggiolo, Finale Emilia Cathedral and the Castle towers, Saint Francis' old convent at Mirandola, the Governor's Palace at Cento**.

www.politecnica.it
