

ABeC
facad e engineering

Architectural **B**uilding envelope **C**onsultants

About Us

ABeC is a team of professionals – **Francesco Giovine, Paolo Rigone** e **Giorgio Rigone** – each with long-standing experience in technical design, production and the regulatory standards of **facade engineering**.

ABeC provides a range of general consultancy services on building envelopes. We provide assistance all principles and essentials to those who have to design, procure or control the execution of an architectural metal and glass **building envelope**. ABeC's mission is to support you with the practical AB and...C of **innovative facade** design and creation. With a creative approach and collaborative spirit,

we can support you in the design phase, procurement of jobs, job control and the final test phase. ABeC services are aimed at designers, public and private clients, general contractors and construction professionals who need a trained eye to realize complex architectures utilizing high-tech methods and innovative solutions. Our firm has created a corporate culture of cohesive planning, anticipating client needs and problem solving that emphasizes the strengths of each management team member. ABeC is always focused on innovative and creative solutions to Architect's design concepts.



Consulting

At the side of the designer, in the interest of the builder, to protect the investor.



ABeC is focused on the integration of the diverse functions of a building envelope and can offers a complete range of **consulting services** through all phases of design and construction in order to develop economically efficient and functioning solutions. We can help you from conceptual design through final punch-list inspection, or during any particular phase or for any portion of a project. We can support you during **Schematic Design, Design Development, Negotiation,**

Installation and final Handover. Our clients are **Private clients, Designers, Main contractors** and **Façade contractors.** Basic pre-construction services by phase include system design, engineering, documentation + specification, and bidding (tendering). During Construction Administration, our services can include mock-up review and testing, shop drawing and submittals review, quality-control and inspections on site, in the factory and during fabrication and assembly, and

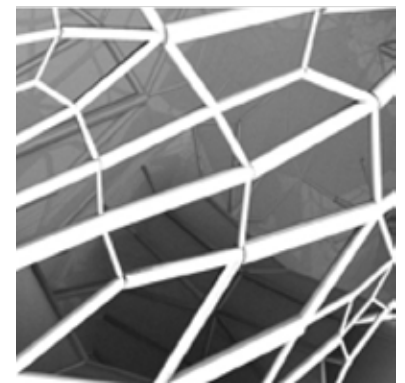
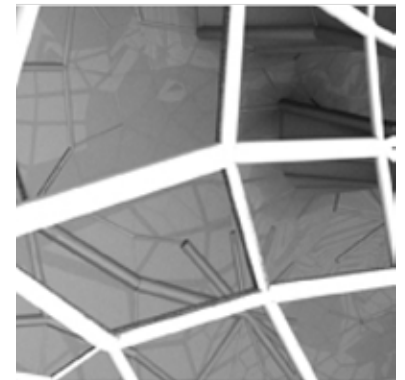
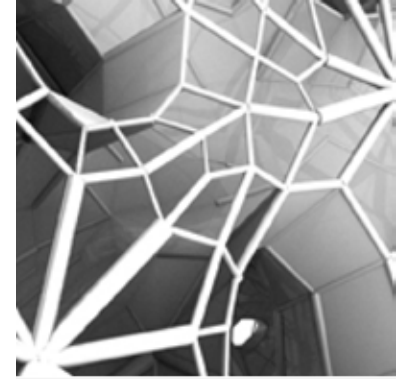
at the various material suppliers. For those who strive to transform into reality their desires for avant garde and innovative architecture, ABeC will always be available to its customers, to support them with the utmost professionalism and with value that can be demonstrated. Our team works **at the side of the designer, in the interest of the builder, to protect the investor** and can help you with the fundamentals of this sector: **the ABC of the building envelope.**

Research & engineering

The **façade** of a building is one of the most expensive elements of building construction and can represent up to 25% of a construction budget. Through the application of highly specialised skills the ABeC Consultants will co-ordinate the various technological demands of the building envelope to meet the required design criteria. ABeC Consultants provides independent façade consultancy for design, procurement and construction advice on all aspects of **façade engineering** and building envelopes across the world. ABeC as independent specialist consultancy, including some or all of the below

tasks, as determined by the project needs:

- Solving **complex geometry** facades through 3D parametric modelling
- **Building performance** and thermal analysis
- **Wind load** calculations and lateral force (and advise to Architects)
- **Fire proofing** analysis for the building envelope
- **Structural analysis** to result in minimised structure and cost
- **BMU consultancy** & cleaning strategy to ensure the design considers all aspects
- **Sustainability**, Life Cycle Assessment (LCA)



Project Management



Project management is an empowered function at ABeC, and key to our success. Following the contract award, ABeC will provide technical and a full quality-control oversight throughout:

Negotiation:

- Produce performance specifications for the façade systems and materials proposed for tendering
- Attend interviews. Review and report on tender packages from subcontractors, drawings, calculations and price issuing tender queries where more

information is required

- Comment and make recommendations for subcontractor
- Report to client and architects over findings of final technical tender offers and provide a ranking recommendation on technical aspects of submission

Installation:

- From submittals review, testing, fabrication, and installation, on behalf of the architect and owner
- Assist with the comprehensive realization of the building envelope from time schedule control and

installation lead time

Handover:

- Manufacturing & Fabrication facility inspections
- Site inspections and surveys
- Performance test witness

The success of the façade depends on careful co-ordination of the various specialised trades involved.

Our project management teams lead design development, production engineering, fabrication and assembly, bridging these various activities to form an organized, unified continuum of project development throughout the design and build process.



1 Palazzo Pirelli HQ Regione Lombardia - Milan, Italy. Project: Sarno, Corvino, Multari
2 HQ Mps Bank - Milan, Italy. Project: Franco Biondi
3 Porta Nuova Varesine - Milan, Italy. Project: KPF
4 Porta Nuova Garibaldi, Fashion district - Milan, Italy. Project: Peili Clarke
5 Residence Hadid Citylife - Milan, Italy. Project: Zaha Hadid
6 Torre Arduino Citylife - Milan, Italy. Project: Daniel Libeskind
7 Porta Nuova Isola - Milan, Italy. Project: Studio Boeri



Our Services

Our services for your **projects** are applicable during:

- **Schematic Design** for Identification of design intent and key performance requirements
- **Renovation Works** to Evaluate and propose methods for remedial design and construction for existing structures in order to maximize quality, aesthetics and performance
- **Research & development**, understanding and use of new materials and systems
- **Implementation** of optimal facade design with Architects aesthetic/performance
- **Development** of special facade systems

- **Building performance** and thermal analysis to enhance user comfort
- Fitness and **forensic services**
- **Time schedule control** and installation lead time
- **Site inspections**/commissioning
- **Cost estimating** and computation
- **Supporting for facade contractor** and specialist product suppliers

All members of our façade engineering team are professionally qualified in an engineering or architectural discipline and fully appreciate the importance of consistent design thinking across all touch points of the project.

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