



VISTAMAXX, Inc.
Curtain Wall Design & Consulting (VCDC)

eBrochure



About VISTAMAXX, Inc. (VCDC)



Vistamaxx Curtain Wall Design and Consulting (VCDC) provides a wide range of building envelope design, engineering, and consulting services to clients from our Dallas headquarters as well as our regional satellite offices across the United States and around the world.

Proven Value

Our experienced and professional staff is active in various industry disciplines which allows us to integrate and adapt to any project, professionally and ethically.

Company Profile

VCDC is an independent company and leader in the design, engineering and consulting of building envelope systems.

For more information about our company or for specific project assistance, please contact us at info@vistamaxx-usa.com. A group manager or technical specialist will contact you.

Mission Statement



Arcapita Bank Head Quarters, Manamah, Bahrain

The mission of VCDC is to provide clients anywhere in the world with pragmatic, value-oriented solutions utilizing specialized technical expertise in the design, engineering and evaluation of the entire building envelope.

Successful Innovation

VCDC, Inc. track record of success in the design and engineering of unique and complex systems is evident by the clients that engage us project after project.

Industry Leading | Experience

The quality distinction that VCDC provides to our clients is a product of our experienced staff and their dedication to excellence in their respective specialty. Former tradesmen who have an intimate knowledge of industry means and methods complement our design professionals, literally providing the "best of both worlds" with regard to design and installation expertise to our clients. Our staff of specialists creates a trade and design discipline collaborative that is unmatched in depth and breadth. With this unique perspective, our clients are assured that the building enclosure for their project:

- Can be constructed or installed as designed
- Performs as anticipated for the service and/or design life of the project

Consulting



Aymer Investment, Istanbul, Turkey

Architectural Value of a Curtain Wall Consultant

Balance Cost With Performance Curtain wall cladding often comprises 20% of construction cost on new projects. Specialist consultants can increase your success in achieving design, budget, and performance targets.

Proactively Avoid Failures Curtain wall cladding failures are the second leading cause of building construction problems. Bringing an expert onto the design team early in the design process is adding the best insurance against cladding pitfalls. Specialist consultants quickly pinpoint problem areas and can resolve tough issues before they become building failures.

Expert Design Curtain wall technology changes rapidly. New materials, new finishes, and new systems are constantly being introduced to the designer's palette and can pose difficult value engineering alternatives. You need an expert on board who has been involved with the project evolution and can recommend expedient and prudent choices.

Technical Resources Consultant familiarity with design solutions resulting from experience on hundreds of projects is like having a personal cladding resource library at your fingertips. VCDC's curtain wall consultants will provide decisive and definitive answers to your toughest technical questions.

Conflict of Interest Using a specialist consultant gets you an honest, independent answer, the best solution for your unique project. Answers obtained from curtain wall fabricators, suppliers, and installers can be influenced by sales, product availability, plant capacity or other limits, but VCDC provides information that considers the best interest of your client and your project.

LEED Services LEED® stands for Leadership in Energy and Environmental Design, and, according to the U.S. Green Building Council, is a rating system that measures the sustainability of a building. Architects, engineers, designers, landscape architects, construction managers, and government officials all use LEED® to develop sustainable buildings.

LEED® Accredited Professionals (LEED® AP) are building professionals (architects, engineers, designers, etc.) that have demonstrated their knowledge and understanding about green building practices and principals. VCDC has on staff LEED® Accredited Professionals who are available to assist the client with meeting their green building goals.

Many projects that VCDC has consulted on and provided other services for are LEED® certified buildings. Below is a list of just a few projects.

- U.S. Environmental Protection Agency Regional Headquarters located in Denver, Colorado. Certified LEED® Gold
- Byron G. Rogers U.S. Courthouse located in Denver, Colorado. Certified LEED® Gold
- Wayne L. Morse Courthouse located in Eugene, Oregon. Certified LEED® Gold
- Applied Research and Development Facility for Northern Arizona University located in Flagstaff, Arizona. Certified LEED® Platinum.

For more information on the U.S. Green Building Council, LEED® Professional Accreditation, and information about applying for LEED® certification, please visit the USGBC's website: www.usgbc.org.

Forensic Services Projects that have been recently completed and aging buildings experience problems, including air and water infiltration, condensation, frost, noise, failing glass, stone, brick, caulking and other elements. Forensic services offered by VCDC include:

- Review and evaluate the condition of the exterior building enclosure system and components installed, which is based on:
 - Observations at the site from the ground and any roof levels accessible.
 - Architectural drawings and shop drawing documents if available.
 - Review of any previous studies, reports, or other relevant documents
- Examination of the exterior facade including curtain wall, windows, storefronts, panels, precast granite, marble, brick, caulking and other building elements for deterioration and performance issues.
- Written photographic report of observations.
- Written recommendations and specifications for repair.
- Bid review and contract administration for quality assurance.
- Site observations and written photographic reports as part of field quality control program

Laboratory Mock-Up and Test Services In collaboration with the architect, VCDC will ensure that the contractor's test program is properly planned and conducted according to the specified ASTM guidelines.

Review and comment on mockup drawings for technical merit, calculations, samples and other product information related to mockup components.

As part of our scope of services, VCDC regularly attends, observes and witnesses the erection, pre-testing and final testing of mock-ups at the test lab facility.

Often VCDC will provide a written report of observations and recommendations. VCDC will also review and comment on the laboratory report and as-built mockup shop drawings.

Field Testing

As required by many project specifications, or by the contractor's quality control program, VCDC can provide field testing services for water infiltration in compliance with the ASTM guidelines. The test observation report is also a part of the testing services VCDC performs. VCDC can observe and report on testing performed.

Peer Review Services for Building Enclosures Architectural Drawings

- Provide thermal analysis of typical details; includes condensation analysis and determine R and U values of composite sections.
- Review and comment on the architect's details of the exterior facade including the interface of different elements.
- Provide evaluation on material and finishes, sealants, code requirements, wind and water penetration considerations, inclusive of any secondary barriers and subsequent discharge to the exterior.
- Review and comment on technical details and specifications, lateral force and building frame movement factors, incorporation of thermal requirements.
- Consult on maintenance issues associated with the exterior wall and incorporation of window washing attachments.
- Review and provide analysis on wind tunnel studies.

Show Drawings and Submittals

- Provide a technical review and comments.
- Review and comment on contractor submittals to determine general conformance with the design intent as set forth by the Contract Documents.
- Review and comment on structural calculations submitted by subcontractor to support their submittals.
- Structural review and interpretation of as built conditions.
- Review for provisions for internal drainage of water infiltration, thermal movement, building deflections, construction tolerances, fastening devices, sealing methods, fire resistance, and other pertinent information as necessary.
- Review and comment on contractors job specific quality control checklist for shop assemblies and field installation.

Site Observations Site observations can be provided during construction to assist in quality control. During site observations, VCDC can/will:

- Attend preconstruction meetings.
- Perform observations during installation and report on conformance with the Architect's design intent, Subcontractor submittals, and Manufacturer's recommendations.
- Maintain an on-going list of deficiencies.
- Provide field testing services on witness testing provided by others.
- Provide written photographic reports of observations and testing.
- Review and comment on procedures.

Condition Survey Services Condition survey services can include:

- Review and evaluate the condition of the exterior building enclosure system and components installed, which is based on:
 - Observations at the site from the ground and any roof levels accessible.
 - Architectural drawings and shop drawing documents if available.
 - Review of any previous studies, reports, or other relevant documents.
- Examination of the exterior facade including curtain wall, windows, storefronts, panels, precast granite, marble, brick, caulking and other building elements for deterioration and performance issues.
- Written photographic report of observations.
- Written recommendations and specifications for repair.
- Bid review and contract administration for quality assurance.
- Site observations and written photographic reports as part of field quality control program.

Stone Sourcing Services VCDC has been heavily involved in design consultation, engineering and drafting on many of the world's largest natural stone cladding projects. In addition, we offer full STONE SOURCING SERVICES to Owners, Architects, and Contractors to ensure that economical, aesthetically acceptable, and structurally sound material is secured for all architectural stone cladding applications. VCDC Consultations provide:

- Research and sampling of natural stone from worldwide quarries
- Evaluation of stone quarrier and fabricator capabilities
- Budgetary pricing for material acquisition and cladding installation
- Pre-construction stone testing protocol and observation
- Value enhancement stone alternatives and detail options
- Stand-up slab mockup and record sampling coordination
- Full-scale stone factory pre-fabrication visual mockup coordination
- Contract shop drawings and calculations and subcontractor design peer reviews
- Fabrication observation for aesthetic and structural conformance
- Production stone testing protocol and observation
- Field workmanship mockup review and commentary
- Stone cladding installation and observation

Architect Support Services



Development of King Abdul Aziz Endowment Project, Mekka, Saudi Arabia

For over the 35 years, VCDC has developed an exceptional working relationship with many architectural firms across the nation and around the world. Our experience and expertise in exterior building facade systems has built a reputation that prompts owners and architects to engage VCDC early on a project. The collaborating between VCDC and our client helps to provide consulting services in the planning states of a project to help eliminate any unforeseen problems before they become an issue in the construction phase.

Preliminary Design Input In the early stages of any project, VCDC reviews the schematic architectural drawings that pertain to the external wall design for the project and makes recommendations concerning the various envelope systems that might be considered.

Another way VCDC adds value to the project is we meet with the architect's design team to review the performance and design parameters and/or constraints, and to coordinate the required work for the project.

Other services VCDC includes are: develop and submit for review technical specification section for the enclosure wall; provide typical cladding details for support framing and joinery; and provides recommendation with regard to the need for a mock-up, its scope, and appropriate test criteria.

Submittal Review VCDC reviews show drawings, structural calculations and technical data submissions for compliance, and highlights areas of technical weaknesses and issues that should be addressed prior to proceeding with construction.

Project Observation Periodically, VCDC provides quality assurance visits to the construction site to observe the building envelope installation process. Services generally include making observations and filing a daily field observation report to the client and follow-up with a photographic log detailing observations made. The photographic log is coordinated with the daily field logs, which are often required to obtain the longest warranty periods offered by product manufacturers.

Observation of Field Water Testing VCDC specifies and observes field water testing and subsequently provides a full, formal report of observations and recommendations based on the results of the test.

Engineering Services



Dubai Tower, Doha, Qatar

VCDC has developed an exceptional working relationship with many wall subcontractors across the world. VCDC's experience and expertise in exterior building facade has built a reputation that prompts contractors to come to us to provide skilled engineering services that eliminate problems before they become issues on the job site. VCDC's structural engineers are registered in 47 states, District of Columbia, Puerto Rico, Mexico, and Australia.

- Complete Structural Design and Analysis Calculation Packages
 - Curtain Wall, Window Wall, Punched Windows and Storefront.
 - Natural and Cast Stone
 - Brick Veneer
 - Metal Panels
 - Skylights
 - Architectural Precast Concrete
 - Terra Cotta
 - Light Gage Metal Studs
- Specialized Computer Software
- Wind Engineering and Cladding
- Specialized Buckling and Stability Analysis for Framing Designs
- Large Deflection and Membrane Stress Analysis
- Finite Element Analysis
- Thermal Analysis
- Blast Analysis
- Tension Structures
- Structural Glazing Analysis
- Unitized, Stick and Panelized Assemblies

New Systems Design



Dubai University Hospital, Dubai, United Arab Emirates

System Design

- Glass/Aluminum Systems
 - Unitized and Stick Curtain Wall
 - Ribbon Windows
 - Punched Windows
 - Operable Windows/Vents
 - Sliding Glass Doors
 - Suspended and Structural Glass Systems
 - All-Glass Walls
 - Sloped Glazing
 - Skylights
- Cladding Systems
 - Natural Stone (panelized and handset)
 - Cast Stone
 - Terra Cotta
 - Architectural Precast Concrete
 - Composite and Monolithic Metal Panels
 - Panelized Brick

Related Services

- Extrusion Die Drawings
- Extrusion Confirmation
- Proposal and Bid Drawings
- Thermal Analysis
- Blast Analysis/Design
- Hurricane Analysis/Design

REPRESENTATIVE LIST OF INTERNATIONAL PROJECTS

PROJECT	CLIENT	LOCATION	
	DUBAI TOWER	RMJM AL HABTOOR ENGINEERING	DOHA, QATAR
	CENKAYA TOWER	AYMET-SINGAPOUR	ANKARA, TURKEY
	SHATHA TOWER	ALUMCO	DUBAI, U.A.E
	EXECUTIVE TOWERS AT BUSINESS BAY (11 TOWERS)	SHENYANG YUANDA AL HABTOOR ENGINEERING	DUBAI, UAE
	DEVELOPMENT OF KING ABDULAZIZ ENDOWMENT (DKAAEP)	SAUDI BINLADING GROUP (S.B.G.)	MEKKAH, KSA



**SOCIAL SECURITY BANK
HEAD QUARTERS TOWER**

TAKASI INTERNATIONAL

ACCRA, GHANA



BIN GHANIM TOWER

TARIMANS

**ABU DHABI
UNITED ARAB EMIRATES**



GOLDEN SANDS TOWER

ALUMCO

**DUBAI
UNITED ARAB EMIRATES**



**GHANA COMMERCIAL BANK
HEAD QUARTERS TOWER**

A & P INTERNATIONAL

ACCRA, GHANA



RADOP OFFICE BUILDING

KARAD 2000

SOFIA, BULGARIA



BIN JUMAH COMERCIAL CENTER

ZAMIL ALUMINUM

KHOBAR, SAUDI ARABIA



ARCAPITA BANK, HQ

YUANDA, CHINA

MANAMA, BAHRAIN



SCIENTIFIC CENTER

GULF ALUMINUM

KUWAIT CITY, KUWAIT



PORSCHE DESIGN TOWERS

DUBAI PROPERTIES

DUBAI, UAE



VISION TOWER

DUBAI PROPERTIES

DUBAI, UAE



DUBAI UNIVERSITY HOSPITAL

YUANDA, CHINA

DUBAI, UAE



REGAL TOWER

TAMEER/YUANDA

DUBAI, UAE