



AYBARS ASCI AIA LEED BD+C

President, Efficiency Lab for Architecture PLLC

Aybars Asci, president and founder of *Efficiency Lab for Architecture*, is an advocate of research driven design that combines conceptual clarity with analytical processes such as the use of algorithmic tools and building performance modeling.

As a practicing architect he has a broad range of experience close to 20 years, working in New York, London and Ankara, on projects located in North America, Central America, Middle East and Asia.

As a former design director of *Skidmore, Owings & Merrill LLP*, he led multi-disciplinary teams on complex large scale projects for over 14 years, served in the leadership group of the firm with financial, legal and operational responsibilities, including the design leadership of London office.

As an inventor, he holds a U.S. patent for a high performance enclosure system (*Patent # 9003727; approved 4-14-2015*).

As an educator, he has taught seminars and studios on efficiency, high rise design and environmental systems at Cornell University, Pratt Institute and Northeastern University.

As an environmentalist, he has advocated environmental consciousness at design and policy making platforms. He is a board member of *Center for Urban Disaster Risk Reduction & Resilience (CUDRR+R)*.

Aybars holds a Master of Science in Advanced Architectural Design degree from *Columbia University*.

EDUCATION

Columbia University, Master of Science in Advanced Architectural Design, 1999

Middle East Technical University, Bachelor of Architecture, 1996

WORK EXPERIENCE

Efficiency Lab for Architecture PLLC, Founder, President
9/2015- Present

Skidmore, Owings & Merrill LLP, Design Director
1/4/2001- 4/3/2015

Evans & Heintges Architects
07/1999- 12/2001

ACADEMIC EXPERIENCE

The City College of New York, Adjunct Assistant Professor
Fall 2015

Cornell University, Adjunct Assistant Professor
Spring 2015

Pratt Institute, Adjunct Assistant Professor
Fall 2014

Northeastern University, Visiting Lecturer
Fall 2013, Spring 2014

RESEARCH & DEVELOPMENT PROJECTS

Vacuum Insulated Tubes

Modular, Self Supporting Exterior Enclosure Systems with Insulating, Evacuated Tubes having Solar Collector Rods. U.S. Patent # 9003727 (approved on 4/14/2015). Co-inventor

Efficiency Research

Efficiency: An Analytical Approach to Tall Residential Buildings

Efficiency: An Analytical Approach to Tall Office Buildings

PROFESSIONAL REGISTRATION

Registered Architect: New York and New Jersey

Registered Architect: TMMOB, Chamber of UIA in Turkey

USGBC LEED® Accredited Professional

PROFESSIONAL ASSOCIATIONS

Member, American Institute of Architects

CONTACT INFORMATION

Efficiency Lab for Architecture PLLC

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SELECTED PROJECT EXPERIENCE

35 Hudson Yards, New York, New York

Architecture and engineering for a 1000-ft tall mixed-use tower encompassing residential, hotel, office, health club and retail program, 1,000,000SF. 2018

Baccarat Hotel & Residences, New York, New York

Architectural Design for a 605-ft (184-m) tall mixed-use tower encompassing 63 residences, a 114-key hotel, amenities, restaurant, and space for the Donnell Public Library, 346,000 sf (32,100 sm), 2015

Jeddah Corniche Mixed-Use Project, Jeddah, Saudi Arabia

Located just fifty meters from the Red Sea, this string of three waterfront towers along Jeddah's most prominent address—including the 200-meter-tall Residential Point Tower, the five-star Four Seasons hotel and service apartment tower, and the low office tower—sit atop or adjacent to a three-story, 10,000-m² luxury shopping podium along the Corniche, 20,375 m², ongoing

Shum Yip Upperhills Class A Office & Luxury Hotel Complex, Shenzhen, China

Architecture and engineering for a mixed-use complex located on a prime site in the Futian District, including Class A office, Mandarin Oriental Hotel and associated below-grade auxiliary facilities, approximate 400,000 sm (4,310,000 sf), 2017

Shanxi Taiyuan Changfeng CBD Gemeng Financial City Concept Master Plan, Taiyuan, China

Master plan for a mixed-use development near the Fen River that is divided into 3 distinct areas—the north area includes a landmark tower with retail podium and culture island, the center area contains residential, and the south area offers high-rise office and residential; 1,555,000 sm on 20 hectares, ongoing

Al Hamra Tower, Kuwait City, Kuwait

A 1310-foot (412 m) tall office building that includes approximately 1 million sf of occupied space with interconnection to retail and parking facilities, 195,000 sm, (2.1 million sf), 2011

Tangshan Zhaorui International Plaza Master Plan, Tangshan, China

Located on a prominent 16-hectare site in the center of Tangshan, facing the Earthquake Memorial Plaza, this mixed-use project provides Grade A office, luxury service apartments, five-star hotel, retail, residential, underground parking, and other auxiliary facilities. 1,036,540 sm, (11,200,000 sf), 2011

Hangzhou Olympic Center, Hangzhou, China

Located at the center axis of the Zhejiang Hangzhou Olympic Center Master Plan, two 330m tall towers create an iconic bridging form. The project totals 270,000 SM of office space and a retail podium. 421,500 sm, (4.54 million sf)

Qingdao Haitian Center, Shandong, China

Located on a prime site in the coastal area of the city center, this international quality mixed-use development synergizes the surrounding environment with luxury hotels, Grade A office, luxury apartment and high-end retail complex. The building image is strong and vibrant, representing a modern landmark that reflects the local culture. 467,000 sm, (5,030,000 sf), 2011

Bahrain Waterfront Urban Development, Kingdom of Bahrain

Feasibility study for 3 million sf mixed-use complex; features offices, interactive center, Legoland, oceanarium, resort hotel, tennis academy, condominiums, serviced apartments, marina, retail/restaurant areas and mosque,

U.S. Census Bureau Headquarters, Suitland, Maryland

New building complex, consolidating existing decentralized agency into 1.5 million sf campus; serves 6,000 employees; LEED-certified "Gold" campus designed to follow surrounding landscape's topography and features water reclamation pond, solar collection systems in central atrium, and sun-lit building interiors, 1.51 million sf, (140,000 sm), 2007

Central Bank of Kuwait, Kuwait City, Kuwait

Competition entry; architecture design services for state banking agency headquarters, including 1.2 million sf headquarters site, including high-rise tower, other low-rise buildings, and parking, at the edge of Kuwait Bay; 65,000 sm, (700,000 sf), 2003

Qatar Petroleum Headquarters, Doha, Qatar

Masterplan, Architecture, Engineering, and Interior Design for a 3,200,000 sf headquarters campus on a 60 ha site, including administrative offices, training, medical care, food service and recreational facilities as well as a 5,000-seat FIFA regulation football stadium football, a mosque, a heliport and structured parking for approximately 3,000 cars, 407,300 sm, (4.38 million sf), 2009

ARB Headquarters, Riyadh, Saudi Arabia

Architectural and interior design services for a new headquarters building for one of the major banks in Saudi Arabia, 2006

Al Sharq Tower, Dubai, UAE

A 100-story residential tower combined with multi-story parking structure. Small occupied floors result in a very

slender tower, 146,800 sm, (1.58 million sf)

Anida Tower, Mexico City, Mexico

40 Story Residential Tower along the prestigious Reforma, housing the branch bank and offices for BBVA Bancomer at the podium, and 150 high end luxury apartments in the upper levels, 2011

Wood Wharf, London, UK

Concept design for a 170,000 sm residential and hotel development overlooking the River Thames. 170,000 sm, (1.83 million sf)

400 Fifth Avenue, New York, New York

Architecture and interior concept design and Landmarks approval for a 55-story mixed-use tower comprised of residential, hotel, health club, office, and retail components, 520,000 sf, (48,300 sm), design not built.

New York Stock Exchange, New York, New York

New headquarters building including two distinct components: 600,000 sf Trading and Operations podium and 1,300,000 sf tower containing 47 stories of office space with entrances for trading areas; includes visitors' center, 1.9 million sf, (177,000 sm), 2005

SELECTED PUBLICATIONS

Casabella. Baccarat Hotel. Issue 849. March 2015. pp 116-127

Archicreation. Feature Issue on Four SOM Projects (Gary Haney + Aybars Asci). April 2015

Arredamento Mimarlik. Interview: Aybars Asci and Esra Akcan. December 2013. pp 40-50.

Architectural Record. Gonchar, Joann. 'Sculpting the Skyline' (featuring Al Hamra Tower). May 2012. pp 148-155

Metropolis. Hockenberry, John. 'Cities of the Imagination' (featuring Al Hamra Tower). May 2012. pp 80-87

MARK. April/May 2012. 'SOM vs. the Sun' (featuring Al Hamra Tower). pp 50-51

TIME 'The Invention Issue'. The Sculpted Skyscraper- The 50 Best Inventions of the Year November 2011. p 82

Asci, Aybars. 'Al Hamra Firdous Tower'. Architecture Technique. May 2011. pp 78-90

Asci, Aybars. 'SOM Legacy + Innovation: The Iconic Skyline'. Architecture Technique. May 2011. pp 62-67

Asci, Aybars; Song, Kanda. 'Algorithmic Design at SOM: A Dialogue between Aybars Asci & Kanda Song'. Area China. Issue 11, Feb. 2011.

The Economist. June 7-13, 2008. 'From Blueprint to Database' (featuring QP) p. 15

Asci Aybars. 'The high Concept: ARB Bank Headquarters, Riyadh'. The Leaf Review. No.4, 2008, pp 66-69

Eastman; Teicholz; Sacks; Liston. 'BIM Handbook: A Guide to Information Modeling' (featuring Al Hamra Tower) John Wiley & Sons, Inc. 2008, pp 177-179.

Asci, Aybars; Schwinn, Tobias. 'Algorithmic Design at SOM'. World Architecture, Vol. 215, May 2008, pp. 34-53

Lerner, Nick. 'Changing the Rules of Design'. The Structural Engineer. Vol 85, No. 13, July 2007, pp. 26-27

Lerner, Nick. 'Digital Project at SOM'. AEC Magazine. Vol 31. May/June 2007, pp. 20-21

PRESENTATIONS

2015, September 9. The Pennsylvania State University. 'Understanding Efficiency in the Built Environment'.

2015, March 4. Buffalo School of Architecture & Planning. Symposium. Facade: Phenomenon, Memory, Identity. Speaker

2015, February 25. Northeastern University. Symposium. Export Agendas: The Global Transfer & Translation of Architectural Expertise. Speaker.

2014, October 11. Pratt Institute. Symposium. City By Numbers: Big Data and the Urban Future. Respondent. WW

2013, December 26. TED University, Ankara. 'SOM: Stereotomic Works'

2012, October 18. CTBUH, Award Ceremony, Chicago. 'Al Hamra Tower'. co-presented with Mark Sarkisian

2011, October 10. CTBUH 2011 World Conference, Seoul. 'Al Hamra Firdous Tower'. co-presented with Mark Sarkisian

2011, October 1. The Architecture League, New York. 'Annual Student Event Presentation'

2011, March 27. China Architecture Design & Research Group, Beijing. 'Al Hamra Tower'

2011, March 22. The 4th Annual Ultra-High Rise Building Summit, Shanghai. 'SOM Legacy + Innovation: the Iconic Skyline'

2010, December 17. Tsinghua Design Institute, Beijing. 'Algorithmic Design at SOM'

2010, February 16. MIT. 'Design In-Formation: The DP Experience at SOM' - co-presented with Tobias Schwinn

2009, February 17. MIT. 'Variations Under Control' - co-presented with Tobias Schwinn

2008, February 15. MIT. 'Qatar Petroleum Complex' - co-presented with Tobias Schwinn

2007, December 6. Oxford Brookes, UK. 'London Experiment'

2007, May 5. ASA, Thailand. 'Performative Design' - co-presented with Noppon Pisutharnon

2007, November 7. Architecture Association, London. 'Designing in Extreme Climates'

2006, November 15. Digital Project Conference, London. 'Analysis & Performance in Design Process' - co-presented with Tobias Schwinn

AWARDS

Al Hamra Tower

2014, Middle East Architecture Awards, Commercial Project of the Year

2013, Architizer, Architizer A+ Award: Office Building High Rise, Finalist

2013, Structural Engineers Association of Illinois, Best International Project Over \$150 Million

2013, AIA- New York City Chapter, Design Award

2012, Institution of Structural Engineers, Award for Commercial or Retail Structure

2012, Structural Engineers Association of Northern California, Award of Excellence: Landmark Structures

2012, Popular Science Magazine, Best of What's New

2012, CTBUH, Best Tall Building Middle East & Africa: Finalist

2012, National Council of Structural Engineers Association, Excellence in Structural Engineering

2012, National Council of Structural Engineers Association, International Structures over \$100 Million

2011, Emporis, Skyscraper Award: Silver Medal

2010, Cityscape, Commercial / Mixed Use Built

2008. MIPIM Future Project Award: Tall Buildings

2008. International Architecture Award. Chicago Athenaeum

Al Rajhi Bank HQ

2011, Boston Society of Architects, Unbuilt Architecture Award

2008. Design Award. AIA- New York City Chapter

2007. International Architecture Award. Chicago Athenaeum

2005. Miami Bienal Grand Award

Al Sharq Tower

2009, Chicago Athenaeum, American Architecture Award

2009, MIPIM/Architectural Review, MIPIM Future Project Award: Commended Tall Building

2008. P/A Award: Architectural Design Progressive Architecture

2008. International Architecture Award. Chicago Athenaeum

Qatar Petroleum

2009, MIPIM Architectural Review Future Project Awards, Mixed-Use - commended

U.S. Census Bureau

2012, AIA Washington, D.C. Chapter Award of Excellence in Architecture

2009, The Chicago Athenaeum, Green Good Design

2007. Design Award. AIA- New York City Chapter

2007. Design Award. Institutional, Award of Excellence. AIA - New York State

2007. Sustainability/Workplace Environment Citation. U.S. GSA

2007. Smart Environments Award. Metropolis