HIGH RISE RESIDENTIAL
SPECIALTY ENGINEERING AND CONSULTING SERVICES
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FIRM OVERVIEW

We are the Choice for Securing the Safety of People and Assets

JENSEN HUGHES is a global leader in specialty engineering and consulting services for the built environment. We are a company of engineers, consultants, and scientists focused on evaluating risks and diligently developing the best, most cost effective protection and safety solutions. We offer extensive, practical experience through countless projects, research and industry innovation.

Our global clients include numerous Fortune 500 companies that encompass architects, designers, general contractors, developers, building owners and facility operators who retain our services for the following market sectors and occupancy types:

- Assembly
- Corporate Real Estate
- Education
- Gaming and Recreation
- Government and Military
- Healthcare
- Hospitality and Lodging
- Industrial and Manufacturing
- Power and Energy
- Science and Technology
- Telecom and Data Centers
- Transportation (Aviation, Marine and Rail)

Our Past, Present and Future

JENSEN HUGHES was formed in January 2015 after the historic merger of two of the most experienced and respected specialty engineering and consulting firms, Hughes Associates (Hughes) and Rolf Jensen & Associates (RJA) in June 2014.

Both Hughes and RJA exhibited the highest level of technical excellence, offered proven on-time and on-budget performance on projects, and developed long-term client relationships. The merger brought together Hughes’ strengths in areas such as research, testing, forensic engineering and risk analysis, and the complementary strengths of RJA in the areas of code consulting, performance-based design, construction management and security design.

Between March and November of 2015, JENSEN HUGHES merged with the following five outstanding firms to further expand our specialty engineering and consulting services into numerous vertical markets, our geographic footprint in Canada, Singapore and the United States, and increase our professional staff of engineers, consultants, scientists and administrative professionals.

- ERIN Engineering and Research, Inc. (ERIN)
- Nexus Technical Services Group (Nexus)
- Randal Brown & Associates, Inc. (RBA)
- Sereca Consulting, Inc. (Sereca)
- Gage-Babcock & Associates, Ltd. (GBA)

We will continue to grow our services and geographic footprint in the future with the goal of being recognized globally as the best in our profession at providing high-quality technical consulting, engineering and related specialty services in the full life cycle of the built environment.
OUR SERVICES

Fire Protection and Life Safety Design and Analysis
Our experts design cost-effective, performance-based protection systems that meet code requirements and the highest standards of life safety. We routinely handle challenging designs which involve life safety, mission continuity, property protection, heritage preservation, and environmental protection.

Code Consulting
Our problem-solving consultants ensure design and construction projects comply with safety (Building, Fire, Hazardous Materials, etc.) and accessibility codes, maintain the integrity of architectural design, preserve historical authenticity, and address a wide range of project-specific requirements, including code equivalencies and variance requests.

Hazard Analysis and Risk Management
Our fire hazard and risk analysis consultants provide fire and smoke modeling, process hazard analysis, risk management and regulatory compliance support, and a suite of risk-informed engineering and applications services, which include probabilistic risk assessment (PRA), human factors analysis, technology evaluation and selection, gap assessments, trade-off studies, and emergency response planning and training.

Security Design and Consulting
Our security experts utilize a holistic approach for all physical security elements to ensure they provide high-level protection. We conduct surveys and audits, master planning, emergency response planning, operations planning, physical and technical system design, building system integration, construction management, training and support.

Construction Administration and Commissioning
We verify and document the performance of a building and its systems to insure that it meets the owner’s design needs and requirements. Our services include complete fire and life safety systems commissioning and inspection as well as project turnover for training and documentation to the building's operation and maintenance staff.

Electrical System Design and Analysis
We provide electrical system design and analysis services to the Department of Defense (DoD) and other facilities. Our areas of technical expertise include electrical, instrumentation and control, fire protection, energy efficiency, risk assessment, and systems engineering.

Fire Research, Development and Testing
Our engineers and scientists offer the industry’s most comprehensive services to test, assess and implement fire protection concepts and products. The broad spectrum of services performed in our 10,000 sq. ft. laboratory include new product roll-out, testing of unique fire protection strategies for special hazards and new processes or equipment designs that are not considered in current code provisions.

Forensic Engineering and Litigation Support
We deliver technically superior analyses and scientifically credible expert witness testimony on a wide range of subjects, including fire incident reconstruction, engineering analysis, fire spread analysis, fire modeling, origin and cause, testing, and compliance with codes and standards.

Sustainability and Pollution Prevention
Our environmental team provides regulatory forecasting and analysis, policy and standards development, sustainable design, audit and remediation services.

Training
We deliver advanced web-based training in convenient, self-paced modules, and accredited live instruction courses covering a variety of safety topics, including fire alarm systems, sprinklers, flammable liquids, hazardous materials, electrical safety, emergency evacuation and other safety related topics.
HIGH RISE RESIDENTIAL SECTOR

We Understand the Challenges…

Retrofit Projects
As cities pass stricter legislation calling for the installation of fire detection, alarm and sprinkler systems in high-rise residential buildings, there is often confusion concerning which buildings must comply to what extent and by when. A life safety evaluation of the building, followed by the development of a master plan by a qualified fire protection consultant can ensure that this type of phased project is implemented to code as efficiently as possible.

Integration of Fire Protection and Security
Achieving life safety in a high-rise building involves rapid egress for occupants and open access for fire fighters in an emergency situation. Maintaining a secure building requires limiting access to authorized occupants on a floor-by-floor basis. Only when the consultant integrates the requirements of both fire protection and security can the life safety environment of the building be elevated.

Cost Containment
Building codes today call for the installation of fire detection, alarm and sprinkler systems in newly constructed high-rise residential buildings, where the work can be done at the most economical stage of the project. Existing buildings face the higher cost of installing these systems after the fact and the cost typically is passed on to the occupants.

The skill of the fire protection consultant in planning the project, from evaluation and design through construction management and occupant training, can save both the owner and the tenant's money, time and inconvenience.
PROJECT EXPERIENCE

NORTH AMERICA

Vendome Condominiums, Boston, MA
Fire Alarm Replacement
JENSEN HUGHES designed a new addressable analog automatic fire alarm system and a fully addressable, state-of-the-art addressable analog smoke detection system for the Vendome Condominium building. The work allowed for a phased installation approach as well as an enhanced capability for troubleshooting wiring faults. Work included the development of construction documents and specifications in accordance with all applicable codes and regulations.

Two Financial Center - Boston, MA
Fire Protection, Life Safety and Disabled Accessibility Code Consulting Services
Provided fire protection, life safety and disabled accessibility code consulting services for the proposed 162 unit, 207,000 square foot, 15-story condominium building at Two Financial Center in Boston, MA.

YWCA, Boston, MA
Code Consulting Services
Code consulting services for the renovation of the existing high-rise, mixed-use YWCA building were provided. A Fire Protection/Life Safety Compliance Approach Report documenting significant features including: height and area limitations; fire resistance rated building construction and separations; means of egress; fire detection systems; fire alarm and supervisory systems; fire suppression system; smoke management system; and, accessible elements and routes. Code section references were included in the Report. A Partial Occupancy Safety Plan was prepared to document temporary features and procedures for safety and emergency evacuation to be used during construction. Life safety drawings were also developed.

10 Hanover Square, New York, NY
Code Consulting Services
The existing building at 10 Hanover Square had most recently been occupied as an office building, which is occupancy group ‘E’. The building was to be converted from occupancy group ‘E’ to an apartment building, which is classified as residential occupancy group ‘J-2’. The Class ‘E’ fire alarm and communication system, such as the system currently installed in the building, is not required by the Building Code of the City of New York; however, certain sprinkler alarms, smoke detection systems and smoke alarms are required in a residential apartment building. JENSEN HUGHES reviewed the New York City Building Code requirements for fire alarm systems pertaining to the proposed conversion from office occupancy to residential occupancy and prepared a report.

Liberty View Towers, Jersey City, NJ
Surveying Services
JENSEN HUGHES surveyed Liberty View Towers, two residential apartment buildings presently under construction in Jersey City, New Jersey. The purpose of the survey was to view penetrations in the floor slabs associated with plumbing for the bathrooms. Our services consisted of meeting with the client to review efforts, to date, to resolve the penetration issue. We also surveyed the site and took photographs to assist in our analysis. At the conclusion of our survey and analysis we provided a report which included a recommended approach to maintain the proper fire rating of the floors in question.

Rock Spring Centre, Bethesda, MD
Fire Safety Consulting
Fire safety consulting services for Phase 3 of the Penrose Group’s Rock Spring Centre were provided. Phase 3 of the project included a 434-unit stepped design for a residential building, underground parking garage, surface parking, retail buildings, community center building, and a food market. JENSEN HUGHES identified the applicable fire safety codes and standards for the project and the authorities having jurisdiction. Conceptual drawings were reviewed and Fire Safety Code Analysis (FSCA) was prepared. Services were provided for the Schematic Design, Design Development, Construction Document, and Construction Administration phases.
Wisconsin Place, Montgomery County, MD
_Schematic Phase Code Consulting Services_

Provided schematic phase code consulting for a new high rise office building to be part of the Wisconsin Place site. The building is 11 stories and includes retail on the first floor.

Marriott Inner Harbor, Baltimore, MD
_Fire Alarm & Detection System Design_

JENSEN HUGHES provided fire alarm and detection system design services for the Baltimore Inner Harbor Marriott in Baltimore, Maryland. The Inner Harbor Marriott is a 10-story above grade high rise consisting of 524 guest rooms and approximately 500,000 square feet. The purpose of the design was to provide a code compliant fire alarm system design for the Baltimore Inner Harbor Marriott as required by Baltimore City, the State of Maryland, Marriott Hotels, and all applicable codes and standards. Existing fire protection features included complete sprinkler protection and a conventional Simplex voice evacuation fire alarm system with fire fighter telephones. The existing bank of elevators was provided with elevator recall and shunt trip functions. An onsite emergency generator and diesel fire pump (with jockey pump) are supervised by the fire alarm system. Additional fire protection features requiring fire alarm interaction included stairwell pressurization, floor smoke control and fan shutdown, a kitchen hood suppression system, two gas leak detectors, and one dry sprinkler system.

2001 N. Beauregard Street - Alexandria, VA
_Fire Alarm Services_

JENSEN HUGHES prepared a fire alarm performance specification for the 2001 N. Beauregard Street building. The building, which is 12 stories in height with a penthouse level and 3 levels of below grade parking, was equipped with an Edwards 8500 fire alarm system. That particular system was no longer serviceable. Due to financial constraints, the Client would like to install a new fire alarm panel which will be integrated with the existing Edwards panel in advance of a major portion of the building.

Fairfield Orlando at Bonnet Creek, Orlando, FL
_Fire Protection Code Analysis_

JENSEN HUGHES reviewed schematic, and construction design drawings for compliance with the applicable code criteria. HAI assisted in addressing the building and fire related code issues with the Building and Fire Officials. We assisted in preparing the life safety drawings. The proposed project includes six (6) public buildings ranging from 4 to 13 stories used as time-share units. It also includes a Village Center that is a mixed-use occupancy building with two residential floors.

The Capital at Brickell, Miami, FL
_Smoke Control Evaluation and Code Consulting Services_

Smoke control engineering evaluations of the atrium and code consulting services were provided for this 56-story mixed-use residential building. The Capital at Brickell has two towers totaling 850 units. The first floor houses approximately 48,000 square feet of retail space and the remaining base of the building includes office space, loft and studio units. The pool area and all other amenities are located on the 14th floor.

JENSEN HUGHES reviewed drawings through construction documents to identify major fire safety issues and prepared an Engineering Analysis of the proposed atrium, extending between the ground and fourth floors of the building. The ground level of the atrium is comprised of retail tenants and associated circulation areas. The second, third, and fourth floors of the atrium are comprised of business office spaces. The Engineering Analysis provided a complete and concise assessment of design fire scenarios and resulted in recommendations for atrium smoke control system capacities, operation sequences, and testing and maintenance.
Orion One South Tower, Galveston, TX  
**Building Code Consulting Services**  
JENSEN HUGHES provided building code consulting services for the Orion One South Tower project in Houston, Texas. The building is a 37-story residential tower located above a three-level parking garage. The applicable codes for this scope of services included the 2000 edition of the International Building Code (IBC) with City of Houston amendments, the International Fire Code (IFC) with City of Houston amendments, and National Fire Protection Association (NFPA) codes and standards.

Legacy Town Center, Plano, TX  
**Property Conditions Assessment**  
An assessment of fire protection and life safety features for Legacy Town Center, at the heart of a more than 2,000-acre Business Park was provided. The Center includes two office buildings, residential facilities, retail spaces, and a community park.

Loyola University Wright Hall and San Francisco Residence, Chicago, IL  
**Code Consulting Services**  
JENSEN HUGHES provided code consulting services on the Loyola University Chicago (LUC) Wright Hall & San Francisco Residence project at 6364 North Sheridan Road in Chicago, Illinois. The project included adaptive reuse of a residential building acquired by LUC (Wright Hall) into classrooms, reuse of another residential building acquired by LUC (San Francisco Residence), and a new 6-story residential addition to San Francisco Residence connecting the two. The project also included a greenhouse at the center of the connected building.

Park Laurel, San Diego, CA  
**Smoke Design Concept Services**  
The 6th and Laurel project, also known as Park Laurel, consists of two high-rise residential towers, with a total floor area of approximately 250,000 square feet. The project is to be built in two phases, with the first phase including all Master Planning. The project is located in San Diego and was reviewed accordingly for compliance with the 1998 San Diego Building Code. Our services included developing an outline report which detailed smoke design concepts. We assisted the mechanical engineer with the overall smoke control design concepts.

West Ocean Towers, Long Beach, CA  
**Fire and Life Safety Code Reviews**  
This high profile residential project consisted of two high-rise residential condominium towers located in Long Beach, California. Tower 1 was a new 35-story residential tower consisting of four levels of parking with a level of common space/amenity, 28 levels of residential, two mechanical levels and a helipad. The footprint of the residential levels was 10,000 SF and the parking levels were each 32,000 SF for a total of 438,000 SF. Tower 2 was a new 26-story residential tower consisting of four levels of parking (including one level subterranean) with a level of common space/amenity (Podium Level), 20 levels of residential, two mechanical levels and a helipad. The footprint of the residential levels was 10,000 SF and the parking areas were each 18,000 SF for a total of 322,000 SF. We were responsible for fire and life safety code reviews, preparation of egress analysis drawings, participation in meetings with the AHJs, as well as preparation of the Smoke Control Rational Analysis Report.
Renaissance Reliance Complex, San Diego, CA
Smoke Control System Testing and Inspection Services
The Renaissance Reliance Complex is a new residential high-rise located in San Diego, California. The complex consists of two towers, each 24 stories in height. The towers consist of condominium units with ground level lobby and retail spaces. We provided smoke control system testing and inspection services of the proposed smoke control system in accordance with the requirements defined in the SDBC and the San Diego Technical Guidelines.

Cinema Site, Santa Ana, CA
Fire and Life Safety Code Reviews
This mixed-use, high-rise residential, retail and commercial development project is located at Hutton Center, on the corner of Main Street and MacArthur Blvd in Santa Ana, California. The project consists of a one-story retail building (approximately 25,000 square feet) along MacArthur Blvd., a 25-story residential tower (approximately 10,000 square feet per floor), and a six-story retail/commercial loft building along Hutton Center Drive (approximately 50,000 square feet). The Loft building also contains an elevated pool deck and mechanical spaces. In addition, a single-level basement parking garage (approximately 65,000 square feet) covers the entire site. We were responsible for fire and life safety code reviews, preparation of egress analysis drawings, participation in meetings with the AHJs, as well as preparation of the Smoke Control Rational Analysis Report.
INTERNATIONAL

Dubai Pearl, Dubai, UAE
Fire Protection Engineering Services
Dubai Pearl is a world class, mixed-use, 20 million square foot integrated development that was implemented by Pearl Dubai FZ LLC. Overlooking the Palm Jumeirah Island in the heart of the Dubai Technology and Media Free Zone, the development set a new benchmark for sustainable urban communities in Dubai. In creating of a 24 hour living, walkable community where people can work, play and live in one destination, Dubai Pearl redefined the pulse of the city, providing premium offices, international retail and the highest quality dining and entertainment facilities. Dubai Pearl’s prime location offers an unparalleled combination of free-hold in the convenience of a free zone with luxury, energy efficient sustainability and state-of-the-art technology. The development provided a home for 9,000 people, and a workplace for 12,000.

Al Bustan Complex, Abu Dhabi, UAE
Fire and Life Safety Services
The project consisted of a multipurpose complex with a built-up area of 243,000 sm comprising a 5 story basement, a podium and five towers. The complex included a shopping mall with associated leisure activities, an office building, two residential buildings, a serviced apartment building and a hotel. The development includes more than 100,000 square m2 of underground car parking over five levels. A conditional Civil Defence approval was obtained for the fire and life safety aspects of the project. A Site Wide Fire Strategy was produced by the client; however the current fire strategy did not meet the Civil Defence requirements. JENSEN HUGHES reviewed the current master plan and established opportunities and restrictions in providing a Statewide Fire Strategy in accordance with Abu Dhabi Civil Defence (ADCD). Where such restrictions compromised the life safety of the building occupants, ADCD requirements alternate solutions were developed.

Rawdhat Residential Building, Abu Dhabi, UAE
Design Services
This building was a high-rise residential apartment building with below grade parking, and occupied ground plus eleven above grade floors and three basement floors. The building footprint was approximately 2,000 sm. The client requested that JENSEN HUGHES, acting as House of Expertise, assisted in obtaining Civil Defence approval. We fulfilled the requirements for House of Expertise by certifying the design.

Trump Center, Palm Jumeirah, Dubai, UAE
Code Consulting Services
Code consulting services were provided for the design of this mixed-use, residential and retail facility, consisting of approximately thirty 32 residential levels, three levels of retail and six levels of parking garage with approximately 5 million square feet of area and an indoor monorail station.

Golden Tower, Jeddah, Saudi Arabia
Engineering Solution Services
The Golden Tower is an Iconic Landmark and high end Residential Building in Jeddah, Kingdom of Saudi Arabia. The project consisted of a residential tower stand above an expanded podium at a 5,300 sqm lot with an approximately total built up area of 60,000 sqm. The Tower consisted of 45 floors including 2 technical floors and 2 refuge floors with overall height of 219m. The Podium consists of a club, 2 parking levels above ground and basement parking. The options for addressing risks and realizing value comprised a general combination of alternative prescriptive options and engineered solutions.

Al Mada Towers, Jeddah, Saudi Arabia
Fire and Life Safety Consulting Services
JENSEN HUGHES provided additional fire and life safety consulting services for the Al Mada Towers located in Jeddah, KSA. Additional services provided were for the changes incorporated in the design The Jeddah Civil Defense required compliance with the IBC, SBC 801, and SBC 800. However as requested by SDC, we provided additional services based on NFPA 5000 and NFPA 101, 2009 Editions.
Yongsan International Business District, Seoul, Korea
Code Consulting Services
Yongsan International Business District is composed of six archipelago’s that were composed of office towers, residential buildings, hotels, retail areas, schools, museums, various cultural amenities, parks and other sites and structures. The site was approximately 500,000 square meters with a total building area above ground that is estimated at 2,000,000 square meters. JENSEN HUGHES provided fire protection code consulting services for the Yongsan International Business District project.

Schiff FLS Enhancement, Macau, China
Fire and Life Safety Services
JENSEN HUGHES developed a base property evaluation checklist based upon enhanced Macau fire and life safety requirements as well as provided a due diligence for an existing property based upon the enhanced checklist.

Grand Arch Sector 58 Tower Block F, Gurgaon Manesar, India
Services Provided - SOC Style
Tower Block F is a high-rise building with the highest walking floor level at approximately 104.8 meters. The building consists of 29 floors in addition to ground/lobby level and a terrace level. The building is one of many other group housing colony. It was our understanding that the purpose of the egress model was to determine the total evacuation time for all occupants within the building as required by the Authority Having Jurisdiction (AHJ). The occupant load based on the National building Code of India (NBCI) was be taken to be 12.5 m2/person for residential occupancies.

Repair Enlisted Dorm, B145, Kadena Air Base, Okinawa, Japan
Fire Protection Engineering Services
Based on the requirements, the design development and construction monitoring of the following fire protection and life safety systems required the involvement of a license Fire Protection Engineer: combination fire alarm/mass notification system (FA/MNS), sprinklers, standpipe, and fire pump (if required), which JENSEN HUGHES provided to the client.

SFERA Eastern Russia Project, Sakhalin, Russia
Fire Protection Engineering Services
Specific fire protection measures were followed to ensure safety for building occupants, staff, and maintenance personnel in the close presence of a hazardous liquid. The presence of LNG storage in the project required additional fire protection systems. The design process used NFPA 59A, Standard for the Production, Storage, and Handling of Liquefied Natural Gas, 2009 Edition as a basis in addition to the IBC. FM Global, a nationally recognized insurance company, also provided guidelines for LNG tank storage protection. These guidelines were used during the design process as an additional reference point for the design team. JENSEN HUGHES provided fire protection engineering services to assist the client.

Goldman Sachs Infinity Tower, Sao Paulo, Brazil
Fire Protection and Life Safety Code Consulting Services
Provided fire protection/life safety code consulting services in reference to the 120 meter, 18-story Goldman Sachs Infinity Tower. Scope of services for the project included drawing reviews, code research, reports and on-call consulting.
CONTRIBUTIONS TO THE SCIENCE OF SAFETY

JENSEN HUGHES has established a reputation for expertise, ethics, and competency in fire protection engineering and research. We have achieved this through years of active participation with regional, national and international building and fire code committees and regulatory bodies. We continue to contribute to the development of such codes through our representation both on and before many of these committees.

Our familiarity and participation in the codes and standards making processes enables our staff to develop code compliant approaches and equivalencies in a timely manner, thus streamlining the design and construction process. Our engineers, scientists and consultants actively participate in 150+ committees for numerous industry associations, including but not limited to:

- National Fire Protection Association (NFPA)
- Society of Fire Protection Engineers (SFPE)
- International Code Council (ICC)
- Institute of Electrical and Electronics Engineers (IEEE)
- Underwriters Laboratory (UL)
- Fire Protection Research Foundation (FPRF)
- American Society for Testing and Materials (ASTM)
- Automatic Fire Alarm Association (AFAA)
- American Society of Mechanical Engineers (ASME)
- American Nuclear Society (ANS)
- American Institute of Steel Construction (AISC)
- American Iron and Steel Institute (AISI)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- American Society for Industrial Security (ASIS)
- Council on Tall Buildings and Urban Habitat (CTBUH)
- National Association of Fire Investigators (NAFI)
- Joint Army-Navy-NASA-Air Force Safety and Environmental Protection (JANNAF)
- World Organization of Building Officials (WOBO)
- Various Fire Inspector and Fire Chiefs Associations Nationwide

In-Depth Knowledge

- Authored several chapters and edited the SFPE Handbook of Fire Protection Engineering
- Authored chapters of the NFPA Fire Protection Handbook
- Contributors to multiple Department of Defense (DOD) UFC Codes and Specifications, including UFC 3-560-01, Electrical Safety - Operations and Maintenance
GLOBAL REACH

JENSEN HUGHES has completed hundreds of thousands of projects on every continent and in over 100 countries, some of which include:

**North America**
- Canada
- Mexico
- Puerto Rico
- United States

**Central / South America**
- Argentina
- Bermuda
- Brazil
- Bolivia
- Chile
- Colombia
- Ecuador
- Panama
- Trinidad & Tobago
- Uruguay

**Europe**
- England
- Finland
- France
- Germany
- Ireland
- Italy
- Norway
- Portugal
- Scotland
- Turkey

**Africa**
- Algeria
- Egypt
- Ghana
- Guinea
- Jordan
- Nigeria
- Oman
- Republic of South Africa
- Sierra Leone

**Asia (continued)**
- Cambodia
- Dubai
- Hong Kong
- India
- Indonesia
- Iraq
- Japan
- Macau
- Malaysia
- Maldives
- Myanmar
- Nepal
- Pakistan
- Peoples Republic of China
- Philippines
- Qatar
- Saudi Arabia
- Singapore
- South Korea
- Sri Lanka
- Taiwan
- Thailand
- Vietnam
- United Arab Emirates
- Vietnam

**Antarctica**
- Abu Dhabi
- Bangladesh
Headquartered in Baltimore, MD, USA, JENSEN HUGHES serves our customers globally through office locations strategically located in major metropolitan areas. Our team of nearly 900 professionals has the capacity to assist from any location on a variety of projects in order to satisfy the needs of our clients.

**US Offices**
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