

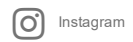
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## Building Envelope

Contact Us

The name "building envelope" is exactly what it sounds like: it is a barrier protecting the building's interior from the exterior elements! More specifically, the building envelope ensures that moisture, air, and other elements do not enter the confines of a building.

A building envelope is effectively a protective shell for the delicate electrical systems and interiors of a building or construction. The main function of this is to stop moisture from penetrating the interior. This can be from more common things such as rain and snow, to water freezing and expanding within the joints of the construction altering the structural validity and integrity of the building. Further, water vapor from warm and humid outdoor air coming into contact with colder inner walls or cool interior surfaces may lead to condensation, which can lead to a host of issues ranging from ruining athletics to life-threatening mold.

Another primary function of a building envelope would be the assurance of a heated or cooled interior environment resisting impact from the outside opposing temperature (sometimes referred to as a *thermal envelope*). This in turn also directly impacts energy efficiency as the **HVAC system** does not have to work as hard to maintain a constant indoor ambient temperature. Thermal values remain more constant, and that in turn saves money and energy. This thermal envelope has many factors leading to it, including insulation and the use of blower door tests. These tests are conducted to see a range of results, from the relative efficiency of a washroom exhaust fan, all the way to how well a skyscraper holds its air conditioning.

Voltas Engineering has a full department dedicated to the design and implementation of **Building Envelope Systems** in and around Vancouver. Our team focuses on making quality, well-thought-out plans for every project. We problem-solve at every corner, as we are a true one-stop shop! **Contact us** now for your building envelope needs! Feel free to request a quote through our **online application form**.

## Projects

### 24 UNIT MIXED DEVELOPMENT

Project Name: IK Homes  
Civic Address: 20901-83rd Avenue,  
Langley, BC

### 53 UNIT TOWN HOUSE

Project Name: Lotus  
Civic Address: 20860 - 76 Ave. Surrey BC

### 23 TOWN HOUSE

Project Name: JRG Homes  
Civic Address: 14388-103 Ave. Surrey BC

### 21 TOWN HOUSE

Project Name: Homes  
Civic Address: 6055 - 138 St. Surrey BC

### **ROW HOUSES**

Project Name: 24 Unit Row Houses

Civic Address: 20445-20477 86th Avenue,  
Langley, BC

### **61 TOWN HOMES**

Project Name: Chelsea Gate

Civic Address: 11188 – 72 Avenue, Delta,  
BC

### **24 TOWN HOMES**

Project Name: Oak Terrace

Civic Address: 11767 - 89A Ave, Delta, BC

### **6 STOREY, 71 UNITS APARTMENT/TOWNHOUSE DEVELOPMENT**

Project Name:

Civic Address: 13491-13493 94A Ave, 135  
Street, Surrey, BC

### **4 STOREY, 71 UNITS MIXED USE DEVELOPMENT**

Project Name: Dream Castle Homes

Civic Address: 5959, 144 Street, Surrey,  
BC

### **MIXED USE DEVELOPMENT**

Project Name:

Civic Address: 444, Trans Canada  
Highway, Hope, BC

### **COMBINED RESTAURANT/GAS STATION**

Project Name: Shandhar Gas Bar

Civic Address: 6050, Chilliwack Road,  
Chilliwack, BC

### **39-UNITS TOWNHOUSE**

Project Name:

Civic Address: 19681 – 80 Avenue,  
Langley, BC

### **64 UNIT TOWNHOUSES**

Project Name: OakCrest

Civic Address: 11556 72A Avenue, Delta,  
BC

### **6 RESIDENTIAL UNITS**

Project Name:

Civic Address: 22356 48 Avenue Langley,  
BC

### **18 UNIT TOWNHOUSES**

Project Name:

Civic Address: 6989, 204 Street, Langley  
BC

### **56 ROOM HOTEL**

Project Name: Quality Inn

Civic Address: 1859 Trans Canada  
Highway Revelstoke, BC

### **8-UNIT STACKHOUSE**

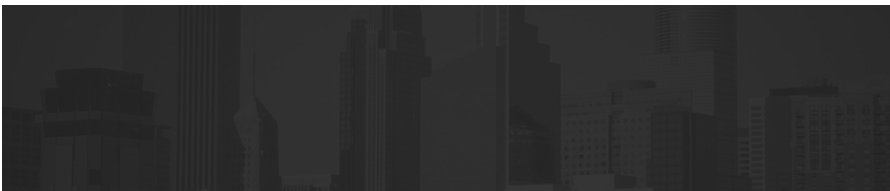
Project Name:

Civic Address: 2663 Duke Street,  
Vancouver, BC

### **DREAM BANQUET HALL**

Project Name: Dream Banquet Hall

Civic Address: 7236, 120th St, Surrey, BC



It was a remarkable experience with 'Voltas Engineering' where the team guided me very well throughout the process. They have keen knowledge and experience in their field.

Parul Chauhan



## Our Accreditations

SUBMIT REQUEST





### Email Us

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### Call Us

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### Location

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