

## DEPRECIATION **VS REPORT** (RESERVE FUND STUDY)

## **BUILDING ENVELOPE** CONDITION **ASSESSMENT (BECA)**



Determines the condition of Building Envelope components

Identifies priorities for remediation/maintenance

In-depth sample-based testing and

Buildings: 10+ years of age or buildings

Vital to Lifespan Expansion & Capital Planning



#### OVERVIEW

# **BUILDING ENVELOPE CONDITION ASSESSMENT (BECA)**

In British Columbia, temperature fluctuations occur from -20 degrees C in the winters, up to 30 degrees C+ in the summer. We rely on the Building Envelope to keep us sheltered from both these varying temperature fluctuations and elements.

#### A BUILDING ENVELOPE SERVES MANY FUNCTIONS,

### DIVIDED INTO 3 CATEGORIES:



Provides structural support against internal and external forces by ensuring strength and rigidity.



**CONTROL:** Regulates the flow of matter and energy of all types between the interior and exterior of the building.



FINISH: Ensures human needs are met on the inside and outside by making the building visually appealing as well as structurally functional.

### PURPOSE



To prevent air-flow and temperature fluctuations through insulation and thermodynamic shielding.



To prevent premature failure of exterior systems and the leaks associated.



To prevent organic matter from entering, decaying, or building up within the interior components.

## METHODOLOGY

## PHASE 1

- Review of the building plans, architectural drawings and maintenance records.
- Perform a detailed visual inspection of all areas related to the Building Envelope by a Professional Engineer
- Identify locations for invasive testing.

## PHASE 2

- Perform invasive testing with tools such as infrared cameras, moisture meters, etc. with exploratory openings.
- Moisture probing of areas of • concern.
- Thermographic scans to map out areas potentially affected by water ingress are performed by the inspecting engineer.

## PHASE 3

- Provide a Building Envelope Condition Assessment (BECA) report detailing the conditions of different assemblies, necessary repair work, and cost estimates.
- Attend an informational meeting with the Strata Council at no additional cost to discuss the report and our findings.
- Follow up with a scope of work and potential next steps.

## BUILDING ENVELOPE COMPONENTS

The building envelope comprises of the below listed components. The Building Envelope Condition Assessment (BECA) provides a thorough assessment of the condition of these components and helps determine their remaining useful life. The useful service life varies depending on whether or not they have been properly maintained over the years.



WINDOWS: Window components may be repaired or replaced to prevent potential water ingress. Avg. Expected life (maintained): 25 – 30+ years | Avg. Expected life (not maintained): 15 – 20 years



**ROOFING:** Roofing may be repaired or replaced to prevent leaks that could result in potential structural and property damage.

Avg. Expected life (maintained): 20 – 25+ years | Avg. Expected life (not maintained): 15 – 20 years



DOORS Doors may be repainted or serviced to improve the thermal efficiency of a house.

Avg. Expected life (maintained): 20 – 35+ years | Avg. Expected life (not maintained): 15 – 30 years

**CLADDING & WATERPROOFING MEMBRANES:** These components of the building envelope should be properly installed or rainscreened to extend their useful service life and reduce potential damage due to water ingress.\*

\*Avg. Expected life varies depending on cladding type

TYPES OF CLADDING AND WATERPROOFING MEMBRANES:

- Wood Cladding Avg. Expected life (maintained): 30 - 35 years Avg. *Expected life (not maintained): 20 - 25 years*
- Stucco Avg. Expected life (maintained): 40 - 50 years Avg. Expected life (not maintained): 25 - 30 years
- Brick Avg. Expected life (maintained): 50+ years Avg. Expected life (not maintained): 30 years minimum
- Vinyl Cladding Avg. Expected life (properly installed and maintained): 35 - 40 years
- Parkade Membranes Avg. Expected life (maintained): 12 - 15 years Avg. Expected life (not maintained): 7 - 10 years

## BENEFITS OF THE BECA



Identifies priorities for remediation or maintenance within a 5-year time frame.





## OVERVIEW |

# **DEPRECIATION REPORT** (RESERVE FUND STUDY)

A Depreciation Report (DR) is a comprehensive financial document that provides guidance in

capital planning over a 30-year period. It is primarily used to strategically plot out the optimal amounts of contributions to the contingency reserve fund for asset renewals. This planning tool is updated once every 3 years to keep track of where all components are in their useful life cycle.

According to the Strata Property Act, Depreciation Reports are required by Strata Corporations with more than 5 strata lots and can only be deferred by a 3/4 vote every year.

## METHODOLOGY



#### BENEFITS OF A DEPRECIATION REPORT



ONE: Anticipates major future expenditures as far as 30 years into the horizon as building systems depreciate.



TWO:

Provides repair/replacement timelines of components to maintain the value of the overall property.



## THREE:

Increases transparency for owners and allows them to proactively budget themselves with changes in contributions to the contingency reserve fund.



FOUR: Reinforces buyer's confidence and minimizes unknown risks.



FIVE: Satisfies requirements set by mortgage lenders and insurance providers.