



Home warranty coverage for new home buyers

Great homes are built on strong foundations

Protecting your investment in a new home

Congratulations on your decision to purchase a new house, townhome or condominium. A new home is likely the largest investment of your life. Therefore, we encourage you to carefully research all aspects of your new home purchase and to seek appropriate professional advice. In order to receive the benefits of home warranty coverage from Travelers Canada, consumers must purchase a new home built and sold by one of our approved builders. Prior to signing an agreement of purchase and sale, contact Travelers Canada to verify that your proposed builder is registered and that home warranty coverage has been issued on your prospective new home.



New Home Buyer Protection Act – strong protection for new home buyers

The New Home Buyer Protection Act and Regulations came into effect on February 1, 2014. In order to obtain a building permit for a new home, all residential builders must provide proof of 1-2-5-10 Year New Home Warranty coverage from an approved warranty provider. For further information about the Act and other bulletins and resources offered by the New Home Buyer Protection Office, please contact their office at: 866.421.6929 or visit their website at www.homewarranty.alberta.ca.

What is 1-2-5-10 year new home warranty coverage?

The Act is a consumer protection statute designed to ensure that all new homes built and sold in Alberta have a minimum level of insurance against certain prescribed construction defects. Home warranty coverage is the insurance contract issued by the warranty provider in favour of the new home buyer. The insurance contract must stipulate the following coverages:

- **One year** for defects in materials and labour
- **Two years** for defects in materials and labour related to delivery and distribution systems (which include plumbing, gas, heating, electrical and air conditioning systems to which the Safety Codes Act applies)
- **Five years** coverage for defects in the building envelope (A warranty provider must offer the option to purchase two years of additional coverage for defects in the building envelope)
- **Ten years** coverage for structural defects

Coverage limits:

Single Family Dwelling Unit – the lesser of the purchase price paid to the builder (excluding land value) and \$265,000.

Dwelling in a Multi-Family Building that is part of a condominium plan – the lesser of the original purchase price paid to the builder (excluding land value) and \$130,000.

Common Property and Common Facilities in a condominium, a cooperative or a multiple family dwelling, or for other property for which a condominium corporation or a cooperative is responsible under its by-laws, \$130,000 multiplied by the number of single dwelling units in the condominium, cooperative or multiple family dwelling up to a maximum of \$3,300,000.

The Travelers Canada Difference

Stringent underwriting

Travelers Canada thoroughly reviews all builder applicants, focusing on track record, technical expertise, financial capacity and after-sales customer service. Only those builders who meet our stringent underwriting criteria, construct quality homes and carry out timely after-sales service, are selected to offer Travelers Canada home warranty coverage. In order to further ensure quality construction, our technical staff and/or external consultants approved by us review certain components of all new home construction prior to and during actual construction. These reviews are designed to ensure that critical components of the new construction meet Travelers Canada's technical requirements and other industry standards.

Technical support and claims handling

Our experienced in-house technical staff helps manage construction risk by providing unsurpassed technical support to our builders, developers and their consultants. We also have knowledgeable, full-time claims staff who will use their experience to promptly and accurately adjust claims in accordance with the New Home Buyer Protection Act.

Home warranty documentation

Our approved builders are responsible for having their new home buyers sign and date a Warranty Commencement Date Certificate at the time of either the title transfer or the actual occupancy of the home (whichever is earlier). Upon receipt of this completed certificate from the builder, Travelers Canada issues the owner a 1-2-5-10 Year New Home Warranty Insurance Policy. Be sure to read this document carefully and keep it in a safe place. It explains home warranty coverage and the process for reporting defects in your home or common property. If you have questions or require clarification, please contact Travelers Canada.

Committed to excellence

Travelers Canada is a leading provider of surety products in Canada and a market leader in the new home warranty market in Western Canada. We were the first warranty provider to enter the legislated new home warranty market in British Columbia, in 1999, and the first insurance company to be approved in Alberta. Superior underwriting, risk and claims management, and unsurpassed customer service are the hallmarks of Travelers Canada's new home warranty business.

As a part of The Travelers Companies, Inc., Travelers Canada has access to the unmatched capacity of the largest writer of surety in North America. We combine this with local knowledge and decision making authority to successfully meet the unique needs of companies, from small and mid-sized to some of the largest construction enterprises in the country.

Travelers Canada is a . . .

- Multi-line insurance provider in Canada
- Home Warranty Group that currently supports over 2,000 residential builders and developers throughout Western Canada, and is the largest provider of new home warranty in Western Canada
- Member of Canadian Home Builders Association, Urban Development Institute, Independent Contractors and Business Association and Vancouver Regional Construction Association
- Part of The Travelers Companies, Inc., a leading provider of property casualty insurance for home, auto, business and:
 - Traded on the New York Stock Exchange and one of 30 select companies that comprise the Dow Jones Industrial Average
 - The largest writer of surety bonds in North America – servicing over 5,000 construction clients across North America, including 650 in Canada.
 - An employer of approximately 30,000 people in Canada, the U.S., the U.K., Ireland and Brazil.
 - An enterprise with total assets of \$104 billion, shareholders' equity of \$23 billion, and total revenues of \$30 billion, as of Dec. 31, 2018.



For a full list of services and products visit travelerscanada.ca/home

Home Warranty provided by Travelers Canada

Toll Free: 1.800.555.9431

Toll Free Fax: 1.877.762.7922

Vancouver

2500 - 650 West Georgia Street
Vancouver, BC
V6B 4N7

Edmonton

2500 Tower 1, Scotia Place
10060 Jasper Avenue
Edmonton, AB T5J 3R8

Calgary

Suite 2700
530 8th Avenue S.W.
Calgary, AB T2P 3S8



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MULTI-FAMILY PROJECT MAINTENANCE MANUAL

Provided to you by:

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MULTI-FAMILY PROJECT MAINTENANCE MANUAL

Table of Contents

A. INTRODUCTION

- Introduction To Strata/Condominium Ownership & Maintenance
- Why is Maintenance Required?
- When to Start Your Maintenance Program?
- Establish a Maintenance Budget
- Renewal Versus Maintenance
- Who Should Complete Maintenance Repairs/Inspections on Behalf of the Strata Corporation?
- Proper Record Keeping is Imperative for an Effective Maintenance Program
- Warranty Coverage – General

B. STRATA/CONDOMINIUM CORPORATION'S DUTY TO MITIGATE AND MAINTAIN

C. TRAVELERS CANADA CLAIMS PROCEDURES

D. CONSTRUCTION PERFORMANCE GUIDE

E. EXTERIOR MAINTENANCE ITEMS

General Exterior

Maintenance Scheduling	Asphalt
General Driveways or Parking Surfaces	Site Drainage and Grading
Concrete Driveways, Sidewalks and Patios	Drain Tile and Sump
Concrete Pavers	Landscaping

Exterior Cladding and Material Components

Building Envelope - General	Flashing
Rainscreen Wall System	Windows
Vinyl and Metal Siding	Doors
Wood Siding or Composite Siding	Overhead Doors
	Weather-Stripping
Stucco	Storm Doors
Concrete Walls	Finish Hardware
Masonry	Decking and Handrails
Sealants (Caulking)	Paint and Exterior Coatings

Roof and Gutters

Roof	Gutters and Downspouts
Ice Dams	

Structure

Foundation	Wood Frame
Basement Floor Slabs and Crawl	Beams and Teleposts
Space Ground Seals	

Table of Contents (Cont'd)

F. MECHANICAL SYSTEM

Electrical

General
GFCI Circuits

Smoke and Fire Detectors

Heating and Ventilation

Heating
Ventilation, Condensation and
Relative Humidity

Range Hoods and Exhaust Fans
Dryer Vents
Heat Recovery Ventilators
Energy Recovery Ventilators

Plumbing

General
Fixtures
Hot Water Tank
Hose Bibs
Toilets

Faucet Repair
Plugged Toilets and Drains
Tub and Shower Enclosures
Floor Drains
Sprinkler Systems

Elevators

G. INTERIOR COMMON AREA FINISHES

Floor Finishes

Hardwood
Resilient Flooring
Carpet

Ceramic Tile
Natural Flooring Products such as
Marble, Granite & Slate

Counter Tops and Cabinets

Plastic Laminates
Manufactured Marble

Cabinets

Paint

Appliances

H. EMERGENCY SITUATIONS

Plumbing
Electrical
Heating

Gas
Roof Leaks
Snow

Table of Contents (Cont'd)

- I. COMMON PROPERTY MAINTENANCE MANUAL SIGN-OFF
- J. COMMON PROPERTY DEFECTS LIST
- K. COMMON PROPERTY SUB-TRADE AND SUPPLIER LIST
- L. PROJECT PROFESSIONAL CONSULTANT LIST
- M. PROJECT SPECIFIC SAMPLE MAINTENANCE LOG
- N. WARRANTY COVERAGE SUMMARY – BC AND ALBERTA
- O. WARRANTY EXCLUSIONS
- P. SOUND TRANSMISSION
- Q. PREPARING A MAINTENANCE LOG
- R. PROFESSIONAL CONSULTANT INSPECTION LOG PREPARATION

Appendix A - Common Property Maintenance Log

Appendix B - Common Property Professional Consultant Inspection Log

SUPPLEMENTAL INFORMATION THAT MAY BE AVAILABLE FOR THE PROJECT:

- A. ENVELOPE SPECIFIC MAINTENANCE PROCEDURES PROVIDED BY THE PROJECT ARCHITECT/ ENVELOPE CONSULTANT

These procedures are supplied by the builder and are project specific requirements in addition to the information provided in this document.

Only registered builders of Travelers Insurance Company of Canada may provide this manual whole or in part to a Strata/Condominium Corporation. Unauthorized use or duplication by others is strictly prohibited.

A. INTRODUCTION

Introduction To Strata/Condominium Ownership & Maintenance

Home ownership within a multifamily building is complex. Ownership involves multiple parties, each with a stake in the maintenance and upkeep of the property. It is important to know who the parties are, what each party is responsible for and how the parties communicate with each other.

Ownership within a Strata/Condominium involves a **Unit Owner**, who is someone that purchases a specific unit within the Strata/Condominium building. Collectively, the Unit Owners have an interest in the **Strata/Condominium Corporation**, which is an independent legal entity that owns the Common Property. This entity will then be controlled by the Strata/Condominium Board of Directors which is comprised of Unit Owners and other individuals with a vested interest in the property. A **Property Manager** is contracted by the Board of Directors to help manage the responsibilities of the Strata/Condominium Corporation and help organize the various incidental repairs and planned maintenance of the Common Property elements.

As the parties listed above all have a vested interest in the Strata/Condominium Common Property, each party is charged with responsibilities in the maintenance and upkeep of the property. To this end, each party should be fully aware as to what they have “ownership” of and what they are responsible for.

The Homeowner's Role

The Owner of a new home is responsible for everything within the walls of the unit. They are the only ones that are responsible to maintain their home and are responsible to mitigate against any damage caused by defects, including damage caused by water penetration, to their new home. The Owner must take the necessary steps to restrict damage to the home if the damage requires immediate attention.

The Owner must also take responsibility to notify the Property Manager (or Strata/Condo Corporation) of any defects or issues that they may see in the Common Property or Limited Common Property areas - items like overflowing gutters, siding that has become loose, maintenance concerns like dirt overflowing from decks or even situations where someone has altered the envelope of the building.

The Strata/Condominium Corporation's Role

The Strata/Condominium Corporation are responsible for the Common Property or Limited Common Property areas. They are responsible to submit all claims under the Common Property Home Warranty. They are also responsible for maintaining the Common Property.

The Strata/Condominium Corporation will work closely with the Property Manager that was put in place by the Developer prior to the first occupancy occurring. The relationship between the Strata/Condominium Corporation and the Property Manager is integral to the successful management of the building(s). The expectations of both parties are aligned but there will always be challenges when the cost to maintain the building(s) continues to see price escalation. Many developers have their consultants prepare a summary of the maintenance obligations that would be required. However, the frequency of each item may vary depending on the review of each item as scheduled.

The Property Managers Role

The responsibility of the Property Manager starts with managing the duties of the Strata/Condominium Corporation. They will assist in guiding them through the warranty process

but must also ensure that the building(s) are being maintained properly and all required parties are being notified of their outstanding duties.

Adhering to a regular maintenance schedule will help ensure that the building(s) remain in good shape with the least amount of impact on the owners. There are various resources available regarding maintenance of a home and building, but the Building Envelope Consultant that was part of the original design team will be able to offer relevant advice that will be specific to a multi-family project. In addition, Travelers has a section regarding maintenance in their Multi-Family Maintenance Manual to help navigate the potential maintenance needs of the building.

When it comes to assisting the owners with their warranty claims, Travelers requires that all Common Property claims be submitted by the Strata/Condominium Corporation or the Property Manager, with the latter being a better option for everyone. Although a Property Manager does not limit the delivery of any claims items, it is helpful if they give clear instructions to the Strata/Condominium Corporation on what needs to be reviewed and what should be submitted as a claim to a warranty provider.

Recommendations should include regular site inspections or walk throughs with the Strata Corporation to look for maintenance needs and any defects. The role of the Property Manager should include separating these two and assist in dealing with them accordingly.

A description of the Common Property can be found in your Strata/Condominium Corporation Bylaws.

A Strata/Condominium Corporation is an incorporated entity that represents the collective interests of the Unit Owners. It is funded through the collection of monthly fees and is governed by a Board of Directors. The Board of Directors is charged with overseeing the affairs of the Corporation on behalf of all the Unit Owners as well as directing the Property Management Company with respect to incidental repairs and regularly scheduled maintenance.

The Unit Owners should fully understand the distinction between the individual unit, areas of Exclusive Use and those areas specified as Common Property. The Owners should notify the Strata/Condominium Corporation of any deficiencies or maintenance concerns pertaining to the Common Property as they arise. This ensures the Strata/Condominium Corporation is aware and can address them as they determine under their overall building maintenance program.

This manual is intended to provide a general overview of maintenance related to the Common Property with the understanding that Common Property varies from project to project and Province to Province.

Why is Maintenance Required?

No home is maintenance free. All building components have a Design Service Life. Much like a vehicle, the life of a building component is affected by environmental conditions, installation, operating and maintenance procedures. As a result, all components of a building require regular inspections and scheduled maintenance to maximize their performance and durability, thus maximizing their Service Life.

Every building is subject to considerable wear and tear from both weather conditions and occupant usage. Maintenance for these items can be grouped into five distinct areas:

- Performance/Safety – includes regular maintenance inspections on mechanical systems including boilers, elevators, fire alarms, sprinklers, etcetera.
- Upkeep – includes carpet and window cleaning, grass cutting, parkade cleaning and snow removal, etcetera.
- Repair – includes replacing interior and exterior caulking, adjusting doors and painting, etcetera.

- Replacement – includes replacement of roofing, common area carpeting, mechanical components, etcetera as those components reach the end of their Service Life.
- Operations – includes insurance for the Common Property, utilities, the Property Management Company fees, the Reserve Fund analysis, etcetera.

All the above are typically considered Common Property maintenance and should be included in the maintenance program.

This manual attempts to be thorough with regard to the components covered. However, please recognize that the building(s) may contain components not discussed here. It is very important that the Owners, with assistance from the retained Property Management Company and possibly the original Consultant Team, become educated about the building(s) and find out as much information about any additional components as possible.

The recommendations noted are intended to provide a basic understanding of the maintenance requirements, however, we must emphasize that the Strata/Condominium Corporation must immediately set out to establish an annual maintenance program. Through the assistance of your Builder and Property Management Company an effective program can be developed. The Strata/Condominium Corporation must then maintain clear and concise records of all work that is completed on the building(s). Please refer to Section C of this manual for further information on the responsibility of the Strata Corporation to **mitigate and maintain** their building(s).

When to Start Your Maintenance Program?

The Builder or Developer (hereinafter referred to as the “Builder”) establishes a maintenance program for the property, which is implemented by a Property Management Company selected by the Builder prior to turnover of the Common Property. The Board of Directors should fully understand the maintenance program initially provided. The maintenance program should be reviewed on a regular basis and reflect the operation and maintenance requirements in order to maximize the Service Life of the Common Property. With the assistance of the Property Management Company, an effective and cost-efficient program can be developed and implemented.

Maintenance Budget

The Builder establishes a maintenance budget to support the maintenance program prior to the turnover of the Common Property. Thereafter, it is the responsibility of the Strata/Condominium Board of Directors to ensure the budget properly reflects the actual and anticipated costs of operation and maintenance of the Common Property.

This budget is funded through the collection of condominium fees which are held in two separate accounts – an operation/maintenance account and a Reserve Fund account.

The inspection and repair of the mechanical systems, lawn care, snow removal, parkade/parking lot cleaning, window cleaning and common area carpet cleaning are examples of items covered under the maintenance budget.

Reserve Fund

In addition to maintaining a fund to address the various maintenance aspects of the Common Property, another obligation of the Strata/Condominium Corporation is to maintain an appropriate contingency Reserve Fund. This fund is intended to cover the costs of the replacement of the major Common Property components at the end of their Service Life. The Strata/Condominium Corporation is required to hire a professional to inspect the common areas of the building and property in order to determine the proper Reserve Fund and budget requirements. Similar to the maintenance fund, the contingency Reserve Fund is held in a separate account and is built-up through the collection of condominium fees.

Examples of some of the building components included in the contingency Reserve Fund are the replacement of roofing, balcony membranes, exterior cladding and mechanical system components such as boilers.

Each Province has legislation regarding Strata/Condominium Properties that establishes requirements for maintaining an appropriate Reserve Fund. The Strata/Condominium Corporation and Unit Owners should be aware of the legislated requirements.

Renewal Versus Maintenance

Monies allocated to maintenance should not be confused with the additional requirement for the Strata/Condominium Corporation to establish a renewal plan and appropriate budget. Renewal costs refers to the larger sums of money the Strata/Condominium Corporation will incur when particular building components have achieved their Service Life and must be completely replaced. Once the Design Service Life of a component has been maximized, due to regular maintenance, then that component must be replaced with monies from the renewal budget that has been established. Carpet, roof cladding, fencing, painting, boilers are examples of building components that would be included in a renewal budget.

Another term that may often be used for renewal costs is a Contingency Reserve Fund. The Strata Property Act in BC sets out guidelines for this fund that the Property Management Company should be aware of.






Who Should Complete Maintenance/Repairs/Inspections?

It is the responsibility of the Strata/Condominium Board of Directors to ensure that all maintenance requirements to the Common Property are completed. The Board of Directors will assign a specific scope of responsibility to the Property Management Company to ensure any repairs are completed properly, on a timely basis and within the allocated budget. As many components within a Strata/Condominium building are complex and may have specific manufacturer and product warranty requirements, inspections or repairs should be completed with the assistance of the appropriate professional or consultant; for example, mechanical systems, roofing membranes and the exterior building envelope. As a Unit Owner, any specific questions regarding maintenance should be directed to the Strata/Condominium Board of Directors.

Proper Record Keeping is Imperative for an Effective Maintenance Program

Proper record keeping that catalogues when maintenance occurs and what actions were undertaken or recommended is imperative. Starting from and including the turn-over of the Common Property, proper record keeping ensures a thorough transfer of knowledge between the existing Strata/Condominium Board and the subsequent Boards of Directors. It provides a framework for the Board of Directors to prioritize budget allocation for specific components and the timing of any future repairs as part of the overall maintenance program. Further, the Strata/Condominium Corporation has a responsibility to report on the status of the current or ongoing Common Property maintenance issues and budget to all Unit Owners and potential purchasers.

The Property Management Company will have the appropriate forms which will allow for ease of tracking and recording of the above requirements. The following have been included with this manual for reference purposes:

-  Common Property Maintenance Manual Sign-off Form
-  Common Property Deficiency List Document
-  Common Property Sub-trade and Supplier List
-  Common Property Maintenance Log
-  Common Property Professional Inspection Log

Warranty Coverage – General

As a purchaser of a new Condominium/Strata property, you have the benefit of two separate and distinct warranty coverages; a Unit warranty and a Common Property warranty. The start date and duration of the warranties will differ, as will what is covered, the terms & conditions and limits & exclusions of the warranties. As a purchaser of a new condominium property, you have the benefits of the builder warranty, sub-trade, supplier and manufacture warranty; as well as Travelers Canada New Home Warranty – all of which will protect your investment.

- **Builder Warranty** – The Builder will have a defined warranty process, which will be reviewed with the purchaser or Strata/Condominium Board of Directors at the time of the turn-over. This process will include the specific procedure(s) to be followed with respect to scheduled warranty inspections, reporting of warranty concerns and the handling of emergency issues.
- **Sub-Trade, Supplier & Manufacturer Warranty** – The Sub-trade, Supplier and Manufacturer warranties will vary from product to product. For example, the faucets may have a lifetime warranty on the finish but a limited warranty on the operational components. Further, the roof may have a 35 year warranty on the shingles but a limited warranty on the installation. As a purchaser, you will benefit from some extended warranties. These warranties will have certain requirements that may include an inspection and maintenance protocol, which must be followed in order to preserve the extended warranty coverage.
- **Travelers Canada New Home Warranty Coverage** – The New Home Warranty coverage available to the Unit Owner and Strata/Condominium Corporation is project specific and may vary between Provinces. There are different types of warranty coverages, which are available at different times during the life cycle of the building. Please refer to your Warranty Insurance Policy to familiarize yourself with the benefits as well as the limits and exclusions of your coverage.

Definitions

The definitions provided are a sample of terms used within a Strata/Condominium environment. The definitions are generic in nature and may not fully represent the legal definition within your particular jurisdiction. Please refer to the applicable Provincial legislation for complete and accurate definitions.

Bylaws: A documented list of rights and responsibilities that govern the Strata/Condominium Corporation and Unit Owners. All Strata/Condominium Corporations are legally required to maintain and enforce the Bylaws.

Common Property: Property jointly owned by all Unit Owners in a Strata/Condominium; comprised of all property not contained within the boundaries of an Owner's Unit.

Design Service Life: The manufacturer's anticipated life expectancy of a particular product.

Exclusive Use: Common Property that an Owner has a right to occupy without interference, such as a parking stall, storage unit, or balcony.

Property Management Company: A company hired by the Strata/Condominium Board of Directors to assist with the maintenance and operations of the Strata/Condominium Common Property.

Reserve Fund: Money set aside in a separate account by the Strata/Condominium Corporation to cover the costs of major repairs or replacement of Common Property.

Service Life: The period of time when the product is performing; from the point of installation to the point of requiring replacement.

Strata/Condominium: A universal term used within this Maintenance Manual to reflect the inter-Provincial description of a condominium property or strata property.

Strata/Condominium Board of Directors: Elected annually by the condominium Unit Owners and are responsible for running the Strata/Condominium Corporation.

Strata/Condominium Common Property: Property jointly owned by all Unit Owners in a Strata/Condominium; comprised of all property not contained within the boundaries of an owner's Unit.

Strata/Condominium Corporation: A legal entity created when a Strata/Condominium plan is registered, consisting of all the individuals who own Units in the Strata/Condominium Property.

Strata/Condominium Fees: Money paid by Unit Owners to the Strata/Condominium Corporation to cover the operational, maintenance, administrative and insurance expenses of the Common Property as well as contributions to the Reserve Fund.

Unit: The real property within the Strata/Condominium project owned by an individual.

B. STRATA/CONDOMINIUM CORPORATION'S DUTY TO MITIGATE AND MAINTAIN

It is in the best interest of the Strata/Condominium Corporation and Unit Owners to mitigate damages as they arise and maintain the property. This will enhance the long-term value of the property for both the Unit Owners as well as potential purchasers. Regular and scheduled maintenance of the Common Property is a Strata/Condominium Corporation's responsibility as well as a legislated requirement.

Owners are required to maintain their new homes and to mitigate any damage, including damage caused by defects or water penetration, even if the defect is outside of their unit. The responsibility lies with the Strata Corporation when issues arise pertaining to the performance of the Common Property – but this cannot be achieved without the Owners' support.

The Strata/Condominium Corporation must take all reasonable steps to restrict damage if the defect requires immediate attention. Legislative requirements were established in BC by the *Homeowner Protection Act* which sets out that the duty of an owner to mitigate survives even if;

- a) *the new home or residential unit is unoccupied,*
- b) *the new home or residential unit is occupied by someone else other than the homeowner,*
- c) *water penetration does not appear to be causing damage, or*
- d) *the owner advises the Strata Corporation about the Defect.*

Further, the *Homeowner Protection Act Regulation* states in Item 14 (1) that,

"If coverage under Home Warranty Insurance is conditional on an owner undertaking proper maintenance, or if coverage is excluded to the extent that damage is caused by negligence on the part of the owner with respect to maintenance or repair by the owner, such conditions or exclusions apply only to maintenance requirements or procedures which have been provided to the original owner by the residential builder or warranty provider."

and further Item 14 (2) states,

"To the extent that an original owner has not been provided with manufacturer's documentation or warranty information, or both, or with recommended maintenance and repair procedures for any component of a new home, the relevant exclusion is deemed to not apply."

In the event that Travelers Insurance Company of Canada is notified of a potential claim under the warranty, copies of all maintenance and inspection logs, reports and strata minutes will be requested to verify that all appropriate and required maintenance has been responsibly carried out.

Unfortunately, if a defect occurs or is made worse due to the Strata/Condominium Corporation's failure to follow any and all maintenance procedures provided, or to mitigate any damage, it will be excluded from warranty coverage.

C. TRAVELERS CANADA CLAIMS PROCESS

Travelers Canada has processes in place for the proper reporting of potential claim items. All claims must be submitted in writing and can be emailed to warrantyclaimcanada@travelers.com. For additional information pertaining to the claims process, please visit the Travelers Canada website at www.travelerscanada.ca/home.

D. CONSTRUCTION PERFORMANCE GUIDE

The Construction Performance Guide is a practical document designed to help Owners, Builders and Warranty Providers evaluate the performance of certain building components to determine if those elements are performing to a reasonable standard within the applicable warranty periods. The Guides are specific to each Province and are provided by either the Provincial Government or Travelers Canada. In evaluating construction performance, the Guide should be reviewed to determine if an item is a potential warranty or maintenance issue.

In British Columbia- <https://www.bchousing.org/publications/Residential-Construction-Performance-Guide.pdf>

In Alberta - <https://open.alberta.ca/publications/construction-performance-guide-for-new-home-warranty-in-alberta>

E. EXTERIOR MAINTENANCE ITEMS

The following information provides the framework for a Strata/Condominium Corporation to establish an effective building maintenance program. This must be read in conjunction with the specific manuals provided on the various exterior building components.

GENERAL EXTERIOR

Maintenance Scheduling

The Strata/Condominium Corporation must establish a maintenance plan that includes a specific maintenance schedule. For the plan to be effective it must be adhered to and adapted as the building ages. A sample maintenance schedule is provided as Section H at the end of this manual. This plan may be modified in consultation with the Property Manager, the Building Envelope consultant, the Builder, or the Project Architect. Input from the major sub-trades would also be beneficial.

A fundamental part of a good maintenance plan is to employ qualified parties to monitor the condition and performance of the building components. The maintenance schedule should allow space for a qualified inspector to “sign off” each component as it is inspected. The qualifications of this inspector should be attached to the maintenance schedule as an Appendix for easy reference.

Driveways, Sidewalks and Patios

Driveways, sidewalks and patios are constructed of a variety of materials including concrete, concrete blocks or pavers and asphalt. These surfaces are adversely affected by oil, de-icing chemicals, fertilizers or other contaminants. The maintenance plan should ensure these surfaces are maintained in accordance with the manufacturer’s recommendations.

Shrinkage and seasonal variations in temperature may cause cracks in concrete and asphalt surfaces. These cracks are generally cosmetic and do not require repair unless they exceed acceptable performance standards. Frost heave during winter may also cause localized heaving of concrete or asphalt surfaces. This heaving or settlement will require the appropriate maintenance if the differential height between adjacent surfaces creates a tripping hazard or excessive water ponding. Caution should be taken with asphalt parking surfaces in hot temperatures, as the surface softens and can be easily damaged.

Site Drainage and Grading

The Multi-Family property will require a site drainage plan as part of the Development Permit process which is approved by the local jurisdiction. The purpose of the drainage plan is to ensure surface water is prevented from pooling at or near the foundation walls and is directed to pre-established drainage patterns. This is accomplished adjacent to the building by sloping the soil away from the foundation walls on all sides.

To manage and control surface water, the overall property drainage system may include surface contours and hard-surface swales, window wells, drain tile, curtain drains, weeping tile, sump basins and catch basins. Ice, snow, leaves and other debris that block the flow of water must be removed and the drainage patterns maintained.

Window wells are a means of providing a window for a basement below grade while maintaining reasonable grades around the building. Depressions due to soil compaction following construction may occur adjacent to the foundation walls over time. These depressions should be filled as they become apparent and graded to direct surface water away from the walls for a distance of at least two meters (6'). At no time should water be allowed to pool against the foundation walls.

During periods of excessive rainfall, standing water may occur due to soil saturation. Such conditions are beyond the control of the Owner or Builder.

Drain Tile and Sump

In most jurisdictions there is a requirement for a perimeter drain tile system to be located below the level of the basement, or the crawlspace floor, or the parking slab in an underground parking area. This system is generally comprised of perforated pipes that are covered with gravel to allow water to seep into them. This drain tile carries the water away from the perimeter of the foundation or the underside of the slab to prevent it from accumulating against the foundation wall or footing. The drain tile then carries the water to a sump or catch basin. The sump allows any sediment in the water to settle to the bottom of the sump. The clear water is then drained off by another pipe to the municipal storm sewer, ditch or a rock pit, or retention pond located on the property. Access pipes or cleanouts are installed to allow the perimeter drain tile to be inspected and cleaned. The location of these cleanouts should be identified for future reference.

Sumps and catch basins should be cleaned every year, as a minimum, to remove any excessive sediment, leaves or other debris. Exterior stairwells are often equipped with a drain and sump at the bottom of the stairwell to prevent flooding of the below grade areas. These drains must be kept clear of debris.

Deep-rooted plants or trees should be avoided next to the foundation walls as deep roots can clog a drain tile system.

The authority having jurisdiction may in arid regions, regions with free draining soils, or some rocky lots, waive the requirement for a perimeter drain tile system. In areas of blasted rock, it is virtually impossible to stop the movement of water through the rock. Exposed areas of rock in a crawlspace may seep water in wet conditions. Care must be taken to ensure that any visible water is drained away and that the area is adequately ventilated.

Landscaping

The landscape plan defines the aesthetics of the property and determines the specific details around trees, shrubs, patios, sidewalks, and retaining walls. The landscape and grading plans will compliment and work in conjunction with each other.

Frequent watering of the grass is essential during the first few weeks after an area has had sod laid or been seeded. Once the grass is established, weekly watering is adequate. This will promote a deep root system that will result in a healthier more drought resistant lawn. Frequent light watering results in a shallow root system that causes the lawn to dry out and die in drought conditions. For the same reason, grass should not be cut shorter than two inches in height. Fertilizing twice a year and controlling weeds will promote a healthy lawn. Consult your local home garden center or maintenance contractor for suitable products.

During the spring thaw, do not allow snow or ice to accumulate in shaded areas as this will damage the grass. Any accumulations of snow should be distributed evenly over a large area so that it melts evenly.

Some minor settlement will occur over some areas of new lawns or landscaping. These areas should be filled and re-seeded to maintain a level surface.

When installing flowerbeds be careful not to interfere with the drainage system. Ensure that flowerbeds are graded away from the foundation wall and that a minimum clearance of eight inches is maintained between the ground level and the bottom of the exterior wall cladding. Never allow soil or gravel to come in contact with untreated wood materials or the exterior finishes of the building.

Trees and shrubs should be kept clear of the buildings. Deep rooted plants or trees could interfere with the performance of the perimeter drainage system or slab drainage system.

Newly planted trees or shrubs require a shallow depression around their base. The depression should be worked periodically to loosen the soil to allow air and water to penetrate to the root system. Once the plant is established (approximately two years), the depression can be filled in; however, never raise the soil above the level of the base of the trunk as this may kill the tree.

In some arid locations, the installation of lawns, planters, trees or shrubs directly adjacent to the buildings is not recommended. The water required to sustain the health of the lawn or plants causes the soil to expand or collapse depending on the composition of the soil. This will adversely affect the load-bearing ability of the soil and may cause structural damage to the residences. Any questions regarding these concerns should be directed to the Builder or the geotechnical engineer involved with the development.

Irrigation Systems

Irrigation systems should be inspected and tested as part of regular maintenance. This would include adjustment and setting of nozzle spray patterns to ensure appropriate water usage; for example water should not be sprayed directly onto buildings. During the grass-cutting season, irrigation sprinkler heads should be checked to ensure there is no damage or leaking. The frequency and duration of watering cycles should conform to environmental conditions to ensure appropriate irrigation without overwatering. Some systems are equipped with moisture sensors to ensure the system does not activate during or after an extended period of rain.

Wood Fencing

Wood fences should be checked annually. The base of posts should be protected to ensure landscaping firms do not cause damage due to line trimmers. Wearing of the posts may reduce the effectiveness of the pressure treated lumber, which may result in premature rot. Frost action may also cause movement of the fence that may result in the fence leaning and overall general weakening of the fence.

EXTERIOR CLADDING AND MATERIAL COMPONENTS

Building Envelope - General

The building envelope is defined as the “assemblies, components and materials of a New Home which are intended to separate and protect the interior space of the New Home from the adverse effects of exterior climate conditions.” It is comprised of a series of assemblies intended to control rain penetration, heat flow, moisture and air flow. Depending on the design of the building, a Professional Engineer or Architect may have been retained to provide the conceptual design of the building envelope. These professionals are also responsible for ensuring that their envelope design concept was actually built as designed. Travelers Insurance Company of Canada places full reliance on these professionals for the adequacy of this design and their field inspections. The Strata/Condominium Corporation must take their recommendations and maintenance requirements very seriously.

Cladding

The exterior cladding essentially has two purposes – the first being the aesthetics and the second being the protection of the structure from the elements. As such, regular maintenance of the cladding materials is important to both maintain the overall look of the building as well as ensure the materials remain effective in protecting the structure.

There are many different types of claddings available; each with its own specific type of maintenance requirements. It is important to follow the manufacturer's maintenance recommendations and guidelines as part of the overall maintenance program.

The exterior cladding may utilize “rainscreen” technology. The rainscreen wall system provides a drainage plane to prevent water from being drawn into the framed wall assembly. Rainscreen systems incorporate a drainage cavity behind the cladding. By design, water that penetrates through the claddings runs down the backside of the cladding where it is intercepted and drained back to the outside by flashings or weep holes.

A Building Envelope Professional should monitor the maintenance of a rainscreen wall system. To the untrained person it may appear reasonable to seal an open space between a flashing and the exterior cladding. However, this space may have been designed as the drainage/ventilation cavity for the wall system and is integral to the design. A Building Envelope professional will understand the system and be able to provide the maintenance locations and how they should be maintained.

Rainscreen wall systems generally incorporate bug screens at the top and bottom of the cavity to protect the cavity from nesting insects. The bug screen should not be painted, as this will prevent airflow in and out of the cavity.

Vinyl and Metal Siding - Generally, vinyl and metal siding materials will not require refinishing. Metal siding materials can be re-painted, vinyl siding cannot. Due to their smooth surface, these materials can be kept clean by washing with a garden hose and mild detergent and some light scrubbing. **Never use a pressure washer to clean the exterior cladding.** Excessive water pressure can cause damage to the surface of the cladding and/or force water into the wall cavity behind.

Vinyl and metal siding materials are installed loosely to allow for expansion and contraction due to the variations in the outside temperature. Damaged or very loose siding should be replaced/refastened to prevent further damage to the siding and to prevent the entry of water into the wall cavity.

Wood Siding or Composite Siding

Wood siding and shingles can be cleaned with a mild detergent and a garden hose. Do not use a pressure washer to clean wood siding as this will damage the surface and force water into the pores of the wood.

Painted or stained wood siding or shingles will generally require re-painting or staining within five years. This will vary depending on the type and quality of the product used, the initial coverage, and the exposure to the elements. The siding will require re-painting or staining whenever the surface begins to fade, discolour, or peel.

Moisture in wood siding causes most exterior paint failures. This moisture may be from garden sprinklers improperly directed at the building, damp shrubbery close to the wall, small cracks in the siding or around door and window details. Spot repair of affected areas can sometimes extend the life of the remaining surfaces. Please note that if spot touch-ups of the painted/stained surfaces are undertaken, the new paint/stain colour will likely not match that of the existing surface due to fading and weathering. This cannot be avoided.

Siding installed on the south and west elevations, especially dark and bright colours that fade more rapidly, may require more frequent repainting or staining to maintain their original appearance and also to provide adequate protection for the siding. For best results, follow the manufacturer's recommendations for surface preparation.

Wooden decks, handrails and windowsills may require cleaning and "touching up" more frequently than other components of the building due to their horizontal orientation.

Composite siding should be maintained to the manufacturer's specifications. Please ensure that you review the specifications identified by the manufacturer.

Stucco

Stucco consists of a mixture of sand, lime, water and Portland cement. Conventional stucco applications, including those with an acrylic finish coat, are not waterproof. The protection from water penetration comes from the building paper and flashing installed prior to the application of the first coat of stucco. The stucco does help in shedding water, but will become saturated after a prolonged period of rain.

Control joints are installed at each floor to compensate for the movement of the building frame caused by the wood components that shrink in size as they dry. Hairline cracks may appear in the finish coat after the drying and shrinking process of the stucco is complete. These cracks should be expected and it is suggested that they be left until near the end of the first year, or until all shrinkage has taken place and then, if desired, they can be repaired. Please note that the repair of the crack is often more unsightly than the original crack. Cracks less than 3mm (1/8") in width do not require repair. Larger cracks should be sealed to prevent the entry of bulk amounts of water into the wall assembly and to reduce damage from freeze/thaw cycles.

Most surface dirt on stucco can be cleaned with a garden hose. A pressure washer should never be used to clean stucco surfaces as considerable damage and excessive water penetration can occur.

Over time, mildew and moss can grow on any shaded surface on any type of cladding. A mild solution of bleach and water may remove this growth. Wall surfaces should be washed from the bottom upwards, otherwise the lower portions of the wall will become excessively stained as they absorb the contaminants washing down from above.

Sealants (Caulking)

Sealants are generally used to seal gaps between dissimilar materials on the exterior of the building and to seal gaps or joints in exterior finishes in order to assure the continuity of the exterior surface. As the building moves due to the shrinkage of the building framing members and/or the cladding materials themselves, considerable stress is placed on the sealant. While a sealant joint should never be the only means of preventing water from entering a building, it is one of the initial means of keeping water out. Therefore, sealant requires regular inspections.

Any cracked, damaged, or loose sealant should be removed and replaced. When reinstalling sealant, you should consider a high quality urethane material formulated for your specific purpose. Some sealants are for interior use or cannot be painted, such as silicone-based sealants. Another consideration is compatibility of materials. For example, urethane products cannot be used next to asphalt materials. Consult with your builder or retained consultant for all appropriate products for exterior usage.

Flashing

Metal flashing is installed at junctions between dissimilar materials and above unprotected door and window openings. Flashing may also be installed at each floor level to allow for movement in the exterior finish as the building structure shrinks and settles. These flashings are intended to redirect water from the face of the building and to drain any water from behind the exterior wall finish. The flashing will require washing periodically to remove accumulated grime and re-painting when corrosion of the metal becomes apparent.

At the time of installation flashing is sloped downwards to the outer edge in order to drain water. If, with the settlement of the building, these flashings begin to slope in towards the building repairs should be undertaken to correct the slope.

Windows

Window glazing is typically made of glass with the exception of some skylights that may use an acrylic glazing. Current building standards require the use of double glazed sealed units mounted in thermally broken frames. There is a wide assortment of frame types and the material used can vary widely. Windows may open in different fashions: they may slide horizontally or vertically, open outwards like a door or tilt open in the fashion of an awning. Typical windows require minimal maintenance. Window hardware should be cleaned and lubricated annually. Any accumulated grime or debris should be removed from between the window glazing and the frame.

Most window designs incorporate a drainage track at the bottom of the window to collect any condensation that runs off of the glazing. These tracks may have weep holes to the outside to drain this moisture. These holes must be kept clean and can be maintained with a short piece of wire or a cotton swab.

Aluminum and vinyl windows are manufactured with butt joint and mitre joint connections that must be inspected regularly. Particularly with aluminum windows, the mitre joints may fail and require the application of a small joint sealer.

If high relative humidity levels occur inside the home during periods of very cold weather, condensation and frost on the inside face of the windows may occur. This is a ventilation issue and is not a fault with the window. Condensation can result in the growth of mold on the window frame that can be removed with a mild solution of bleach and water.

Condensation between the layers of glass within the window frame indicates that the sealed unit has failed. The glazing unit will require replacement, as there is no method of repairing sealed units. If failure of the sealed unit occurs after the expiry of the first year of warranty coverage, contact your window supplier as the cost of this repair may be partially borne by the manufacturer.

Acrylic skylight glazing does allow the migration of moisture through it, therefore, condensation between the double-glazing can be expected. This form of skylight usually has a vent that can be

opened to allow for additional airflow between the acrylic glazing units. Check with your skylight manufacturer for further information in this regard.

Doors

Exterior swing doors are generally made of solid wood, metal, wood over a foam core or fiberglass. Sliding patio doors are usually constructed with aluminum, fiberglass or vinyl frames and are supplied by the window manufacturer. Interior doors are usually a wood veneer over a hollow core. The main door between the garage and the house will be provided with an automatic door closer and seal (weather-stripping) to ensure that the door automatically closes to prevent the entry of exhaust gases from the garage into your new home. This closer may require periodic adjustment.

Exterior doors are exposed to detrimental weather conditions and extreme temperature variations from the inside to the outside that can harm the surface of the door. Variations in the relative humidity from the interior to the exterior can also affect the door. Collectively or separately, these conditions can cause doors to warp or change in dimension. Seasonal variations can occur up to ¼" in any direction. It is prudent to refrain from trimming a binding exterior door as the problem may rectify itself with a change in climatic conditions.

Some exterior doors have restrictions imposed by the manufacturer as to the colour the door may be painted. The heat absorbed by darker colours can cause failure of the sealing compounds in the glazing and/or cause excessive warping of the door. The use of dark paint colour may void the manufacturer's warranty; therefore, any such restrictions should be reviewed prior to the door being painted.

Interior doors are generally sized to allow a gap up to 18mm (¾") at the bottom of the door between the door and the floor covering. This gap is provided to allow for the circulation of air beneath the door.

The entry door to units in buildings with common hallways will not be sealed in order to allow airflow into the unit around the door. Hallways in multi-family buildings are pressurized to keep smoke and odors within each unit.

Finish Hardware

The factory finish on exterior locks and door handles will wear with normal use. This is especially evident with brass finishes in marine environments.

Interior door hardware can be wiped clean with a damp cloth and polished with a soft dry cloth. It should be noted that natural body oils and many hand lotions are detrimental to brass finishes and will cause tarnishing.

Door hardware and locks can be lubricated with powdered graphite or light oil.

Weather-Stripping for Windows & Doors

Weather-stripping is installed around windows and doors to reduce air infiltration. The weather-stripping should be reviewed regularly for signs of deterioration and to ensure that the seal remains adequate. On exterior doors, the threshold weather-stripping (door sweep) is typically adjustable in order to maintain a proper seal. Window and door hardware should be adjusted to ensure a tight seal against the perimeter weather-stripping, which may result in the unit requiring additional pressure to close.

Overhead Doors

Overhead doors, both for garages and underground parking structures, should be inspected regularly by a qualified contractor. The door and associated hardware and components experience considerable wear and tear and should be adjusted and lubricated on a regular basis for both security and long-term performance of the products.

Decking & Balconies

Ensure that no water is entering your home from the deck area. The deck should be kept clear of obstructions that may cause water to pond on the surface. Deck surfaces and drains should be kept free of snow/ice and debris accumulations to ensure water does not pool on the deck area. After a rain event, minor ponding of water can be expected for a period of time prior to evaporation.

Care and attention should be used when placing or moving objects or furniture to ensure damage does not occur to the deck membrane. If damage occurs, it should be reported to the Strata/Condominium Corporation immediately.

If installing pots or planters on the balcony or deck area, care should be taken to ensure drainage and debris from the plants do not accumulate on the floor of the deck or near floor drains. Water can become trapped under the pots or planters, which can deteriorate or stain the balcony or deck surfaces.

Decks are engineered and constructed to safely accommodate a specific weight load. Prior to adding heavy loads, such as a hot tub, confirmation with the Strata/Condominium Corporation is recommended to ensure the deck structure can safely accommodate the desired loads.

There are a variety of wood products used in decks and balconies. Cracking, warping and splitting is normal and inherent with the materials. Natural wood products and their applied finishes typically require more frequent maintenance.

There are a variety of deck surfaces and finishes, each with their own unique characteristics and maintenance requirements.

Railings are installed for occupant safety. Ensure they remain securely fastened.

Exterior Concrete Walls

Concrete is one of the most commonly used building materials, popular for its inherent strength and durability. Typically, solid concrete walls are used as the sole cladding on a building, and are relied upon for their weatherproofing properties as well as their structural integrity. The mass of a concrete wall can be sufficient to provide an air and watertight building envelope.

In spite of concrete's inherent durability, it can and often does develop cracks. Most cracks occur early in the life of the building and are usually the result of the mass shrinking as the concrete dries. Thermally induced expansion and contraction can also create cracks. These cracks are generally superficial and easily repaired. Minor cracking is not an indication of structural failure, and should not be assumed to be of catastrophic proportions. As the concrete is the weather barrier portion of the wall, it is important to review the condition of the concrete walls on a regular basis.

Individual owners should report any cracking, spalling or staining they come across to the property manager. It is important that the cracking or spalling be evaluated and repairs made by someone capable of assessing the severity of the problem.

In some cases, the concrete walls are painted with an acrylic based elastomeric coating. This coating will enhance the water shedding capabilities of the concrete in addition to providing an esthetically

pleasing appearance. The paint should be inspected for signs of peeling or flaking and repaired as required.

Masonry

Neither the mortar joints in the brickwork nor the bricks themselves are entirely waterproof. Periodically, the mortar joints should be checked for cracks. Hairline cracks are not problematic; however, if these cracks are excessive, they should be re-pointed to reduce the potential for moisture related problems. Re-pointing involves cleaning out loose mortar to a depth of at least ½" and filling the space with new mortar. This area should also be reviewed for damage to the masonry support or connection details.

The bottom course of brick contains intentional openings (weep holes) that allow for the drainage of moisture from the cavity located behind the brick. These openings must remain unobstructed and must be a consideration when landscaping.

White dust or staining on the masonry surface is referred to as efflorescence. It is the result of salts within the masonry or mortar migrating to the surface of the brick over time. It can usually be controlled with water and a light scrubbing. More persistent occurrences can be washed off with muriatic acid or baking soda and water. Use of muriatic acid will require protection of surrounding materials to prevent damage. Muriatic acid washing can damage window hardware, fasteners, seals, and structural reinforcement steel, resulting in needing repairs to the windows. Should efflorescence continually reoccur in a localized area, it may be due to a specific water source such as a leaking gutter. If so, the problem should be identified and corrected.

When reinstalling sealant, you should consider a high quality urethane material formulated for your specific purpose. Some sealants are for interior use or cannot be painted, such as silicone-based sealants. Another consideration is compatibility of materials. For example, urethane products cannot be used next to asphalt materials. Consult with your builder or retained consultant for all appropriate products for exterior usage.

Paint and Exterior Coatings

Exterior paint or other coatings are applied primarily for decoration and to protect the substrate. Though not all substrate materials need to be protected most paint or coatings will increase the durability of the material. The Strata /Condominium Corporation must review these coatings annually to check for wear and peeling. If areas are determined to need refinishing, the compatibility of these coatings with the substrate and surrounding finishes must be maintained. Consult with your Building Envelope professional for further information on compatibility of finishes and regular maintenance.

ROOF AND GUTTERS

Roof

If the roof of the building(s) is sloped, it will typically be clad with asphalt or fiberglass shingles, cedar shingles or shakes (which may or may not be treated with a preservative), clay or concrete tile, metal or a composite manufactured product. Flat or slightly sloped roofs may be surfaced in built-up tar and gravel or torched on rolled sheet goods. The typical life expectancy of these various roof materials ranges from 10 - 25 years.

The life expectancy of the roof will depend on the product used and the care and maintenance provided. Loose, broken or missing shingles following heavy windstorms should be repaired or replaced. It should be noted that most manufacturer's warranties for shingles do not cover wind damage in conditions exceeding 80 kph (50 mph) unless otherwise specified. Storm related damage is not the builder's responsibility; therefore, maintenance repairs should be made as soon as possible

after such occurrences to prevent leakage. Leakage can cause serious damage to the interior of the building(s) or further damage to the remainder of the roof.

Asphalt shingles and some roll roofing have granules on the surface to protect the product from damage due to ultra-violet radiation from sunlight. If bare areas of the underlying roof material are present, they should be protected with additional granules. This material is available at most roofing material supply stores. In addition, these types of roofs will become soft in hot weather and the top surface can become damaged from people walking over it.

Deflection of the roof sheathing or the lifting of the shingles due to expansion can cause variations in the roof surface.

Cedar roofing should be washed annually with a garden hose and any accumulated debris such as needles or moss should be removed from between the shingles or shakes. The shingles should not be pressure washed as the high-pressure water causes irreparable damage to the composition of the shingle. Wood roofs become very slippery when wet and extreme caution must be undertaken when working on a wet roof.

Wood shingles will crack and split with time. This weathering is generally not a concern unless it causes a roof leak. If such a leak occurs, it should be repaired immediately by installing a piece of sheet metal beneath the cracked shingle. Older wooden roofs are very brittle and traffic on the roof can cause extensive damage to the shingles. It is recommended to always seek professional assistance for roofing issues.

A professional should inspect flat roofs every year and all recommended maintenance should be carried out. Several membrane types are utilized in our province for most flat roof locations. Regular maintenance is imperative to maximize and extend the life of multiple layer flat roof sections of a home.

All forms of roofing are intended to shed water and prevent its entry into the residence. Obstructions that prevent the free flow of water off of the roof surface or to a drain can cause leakage and/or premature failure of the roofing material. The roof and ancillary flashings must also be kept free of debris and build-up of ice or snow. While cleaning the roof is recommended on a semi-annual basis, the roof surface should also be checked for excess debris after every heavy windstorm. This is especially true if trees surround the building. Please note that coniferous trees will also deposit debris in sufficient quantities to impede the free flow of water.

Regardless of the type of roof material used, the area beneath the roof surface may be vented to the outdoors. Sloped roofs generally have an attic that is vented at the perimeter (eaves), gables or at the ridge of the roof. Flat roofs can also be vented. The unobstructed ventilation for these flat roof systems are crucial to the longevity of the roof structure and roofing material. At no time should you allow this venting to become blocked.

All penetrations through the roof, such as skylights, plumbing stacks, vents etc., need to be checked annually and re-sealed as necessary.

Ice Dams

Snow melting on the roof and freezing as it runs off at the un-insulated overhang or eave of the roof can cause ice damming. Ice dams can cause water to back up under the shingles and will result in a leak inside. This is a natural occurrence and generally is not due to a builder defect. When ice dams occur, the snow and ice should be removed off of the roof at the eaves and valleys.

Gutters and Downspouts

Gutters are often installed at the perimeter of the roof to control the runoff of rainwater from the roof. They also serve to prevent the rainwater from being deposited alongside the foundation wall where it could eventually seep into the basement or splash water and mud up onto the surface of the wall. If the gutters or the down pipes become clogged with debris or ice, water damage can occur.

Keep gutters, roof drains and downspouts free of obstructions such as leaves, tree needles and moss. Washed down by rain, particles from asphalt shingles can settle in the gutters and reduce their efficiency. As with the roof, the gutters should be checked for obstructions at least twice a year, after every heavy windstorm or after prolonged periods of freezing and thawing. When cleaning out the gutters, do not allow the leaves and debris to clog the down pipes that lead to the ground.

STRUCTURE

There are many different types of structures involved in residential multi-family buildings; ranging from wood-frame townhouses to concrete, mass wood or steel high-rises. Numerous load-bearing structural components are incorporated within each design and can include the roof, walls, beams, posts, floor systems, parkades and foundations. As the structural components are integrated, an inspection should be conducted by a professional to ensure the components are performing as intended and to identify any maintenance issues or defects.

Foundation

The most common material used in foundation construction is cast-in-place concrete. Alternative methods of construction include insulated concrete foundation systems, masonry block walls and wood walls constructed of pressure treated preserved wood.

Concrete foundations and slabs shrink as they cure. The result of this shrinkage may be cracks as the stresses in the concrete are released. These cracks have little effect on the structural integrity of the building.

The exterior surfaces of the foundation walls may be coated with a bituminous damp-proofing material below grade, which is often visible several inches above grade. Damp-proofing is placed on the foundation wall to prevent moisture from seeping into the concrete, but it is not waterproof. Ground water must be controlled by other means such as site grading or drainage. Care must also be taken to ensure that landscaping modifications do not cause the soil to be placed above the height of the damp-proofing material.

As previously referenced, hairline cracks in the foundation wall may allow the entry of water. These may be repaired from the outside with an asphalt-based sealant. If exterior access is not possible, numerous concrete patching compounds are available commercially which can be installed to the inside surface of the concrete wall.

Parkade, Basement Floor Slabs and Crawlspace Ground Seals

The floors of basement style homes will be cast-in-place concrete. This surface may not be perfectly smooth and is generally not intended as a finished floor surface. As concrete shrinks while curing, stress cracks are common. Cracks will generally form at corners and across doorways and at the perimeter of the floor where it abuts the foundation walls. As the floor is not a structural component there is generally no reason to repair cracks in a concrete floor unless they are larger than 3mm (1/8") in width. These can usually be filled with concrete grout.

Concrete floor slabs can be painted. The product used should be alkali resistant and allow continued curing of the concrete. Painted concrete floors often flake or peel and require continual touch-up.

Efflorescence may appear on areas of the concrete floors and walls. Efflorescence is a white powder on the surface of the concrete that is caused by salts in the concrete mix that are brought to the surface by the moisture in the concrete. It is cosmetic only and can be removed with a brush. Once the concrete has cured it will likely stop appearing, although a secondary water source could cause efflorescence to continue indefinitely. If this is the case, this source of water should be identified and remedied.

A polyethylene moisture barrier is generally installed beneath the concrete floor to stop the migration of ground water through the concrete. Despite this moisture barrier, some moisture may still transmit through the concrete. Storage items should be raised up off of the floor and kept away from the walls. This allows for the flow of air around the stored items and helps to prevent the growth of mold or mildew.

Crawl space floors are required to be sealed with an air and moisture barrier as well. This can be a polyethylene barrier weighted down with rocks or gravel or a concrete skim coat. Although it is common for both to be used together, either method alone is acceptable.

If a concrete skim coat is used, it will generally be a lower strength concrete and will measure approximately 50mm (2") thick. It may be very roughly finished and is not intended as a finished floor. It will likely crack extensively due to its weak strength and the manner in which it was installed. This is normal and no repair is necessary unless the cracks exceed 10mm (3/8") in width.

Projects with multi-level underground parking structures require the installation of a waterproof membrane in specific locations. A membrane is placed between parking levels on the suspended concrete slab and any locations where the parking structure exceeds the footprint of the building above, like plaza decks where landscaping may be installed. Prior to the placement of any landscaping, a membrane is placed over the concrete roof of the parkade. It is imperative that these membranes not be damaged when the Strata/Condominium Corporation undertakes to change or replace existing landscaping.

Wood Frame

The most common means of building the structure of a new home is a method called "*western platform framing*". This method incorporates a vertical frame of 2"x4" or 2"x6" studs with continuous plates of the same width at the top and bottom of the wall. The wall studs are generally on a 16" or 24" spacing. Plywood, lumber or oriented strand board (OSB) sheathing is used on the exterior of the frame.

The floor "platforms" are constructed using 2"x8", 2"x10", 2"x12" floor joists of solid lumber or manufactured floor joists with sheathing screwed or nailed to the top surface. To help eliminate squeaks and to provide additional structural rigidity, glue is often applied to the top of the floor joist prior to the installation of the floor sheathing. The interior and exterior walls of the structure and/or the perimeter foundation wall generally support the floor joists.

For space considerations, beams constructed of several joists nailed together, or engineered wood products, may be used to support the joists in lieu of a wall. For larger loads or longer spans, a specialized manufactured beam may be used for added strength. Posts at intermediate locations may support these beams.

Most roofs are constructed using prefabricated wood roof trusses spaced 600mm (24") apart. Detailed roof structures may be framed by hand using roof rafters and ceiling joists.

Following installation, the wood used to construct your building(s) will shrink as it dries out. This shrinkage will cause minor changes in the size and the shape of the wood members. These changes do not affect the structural integrity of the wood frame, but may cause changes in the finishes used throughout your new home. The most common changes are cracks or nail pops in the finished surfaces of the drywall on the walls and ceilings. The movement that results from the shrinkage of the structure may also affect other finishes such as flooring and wood trims. Minor floor squeaks

may appear and doors may begin to bind. Any necessary repairs in this regard should be postponed until towards the end of the first year to allow the majority of the wood shrinkage to occur.

Beams And Teleposts

As previously referenced, the main floor of the residence may be constructed with beams installed beneath the floor structure to support the floor joists above. In turn, posts may support these beams at specific intervals. Clay or other soils subject to shrinking or swelling may be common in some geographical regions. In these regions, adjustable posts may be used. These posts are threaded and commonly referred to as teleposts. The beam should be checked for straightness at least twice a year and the posts adjusted as needed. A hairline crack between the wall and the ceiling over a main beam may be an indication that adjustments are required.

If further development is undertaken in unfinished areas with teleposts, the new walls must not come in contact with the underside of the beam, as this will not allow adjustments to be made to the posts.

F. MECHANICAL SYSTEM

The following information provides the framework for a Strata/ Condominium Corporation to establish an effective building maintenance program. This must be read in conjunction with the project specific manuals provided on the various building mechanical components.

ELECTRICAL

General

The electrical system has been installed in accordance with the requirements of the provincial electrical code. The power supply is fed to the building(s) via underground or overhead cable. With underground service cables, piping, gas lines, etc., care should be taken when digging on your property. For information on these underground services, contact your hydro, telephone, and gas provider, your cable supplier and/or your local building department.

The small glass enclosed meter(s) mounted on the side of each building or housed within a hydro room or closet, are the hydro meter(s). They are the property of the utility provider and measure the electrical consumption. The voltage at the point of entry is generally 120/240 volts and 60 cycles per second. This voltage may vary in some multi-family developments.

Circuit protection will be via circuit breakers located in the electrical panel(s). The main power shut-off will be located inside the electrical panel located in each residence or within the hydro room. These panels and the location of the main breakers should be located upon moving in, before an emergency occurs.

Should the circuit breaker "trip", it is likely due to overloading of a specific circuit or a short circuit in an appliance cord. The start-up load of electric motors can also temporarily overload a circuit. To correct tripped breakers, isolate the cause of the overload or short and disconnect it. The circuit breaker can then be reset by turning it to the "off" position and then to the "on" position. If the breaker continually trips, contact an electrician.

G.F.C.I. Circuits

A ground fault circuit interrupter (G.F.C.I.) is an additional electrical safety device installed in the electrical system. This device is a breaker that can be located in the main electrical panel or within specialty outlet receptacles and is designed to provide protection from ground faults. The G.F.C.I. is extremely sensitive and will trip if grounding of the electrical current is detected. Ground faults usually occur in older appliances and electrical equipment or inexpensive extension cords. A poorly insulated extension cord lying on wet ground will often cause a ground fault. Because water and electricity are a poor combination, protection is installed to the outlets in the bathroom and outdoors. If this breaker trips, unplug the source of the ground fault and reset the breaker either at the panel or at the outlet itself.

G.F.C.I. outlets should be tested monthly to ensure their proper operation.

Smoke / Fire Detectors and Carbon Monoxide Detectors

Smoke detectors have been installed in accordance with the requirements of the Building Code. They should be tested monthly to ensure their proper operation and should be cleaned twice a year with a vacuum.

Carbon Monoxide Detectors are required in a home when a combustion appliance is present. These devices should also be tested to ensure proper operation and should be cleaned twice a year with a vacuum.

Please note that these devices are connected directly to the electrical system and do not require batteries. However, they will not operate in a power outage unless the unit has a backup battery.

HEATING AND VENTILATION

Heating

Regardless of type, the heating system is designed to maintain a minimum temperature of 21°C at the outside design temperature. The indoor temperature is measured in the center of the room. This calculation is a health and safety issue defined by the Building Code/Bylaw and is not directly related to comfort. Temperature variations from room to room can be expected. The heating system may temporarily not be able to meet comfortable temperatures in specific regions where the temperatures fall below the outdoor design temperature.

There are numerous types of thermostatic controls for any given heating system. The accuracy of these controls can vary due to internal heat gains within the thermostat caused by a continued demand for heat. At times, it may be necessary to ignore the numerical temperature settings and set the thermostat for a temperature that is comfortable. Adjusting a thermostat to a setting higher than the temperature desired will not speed the rise in temperature.

The various heating systems available all have specific requirements for maintenance in order to operate at maximum efficiency. The operation of the specific system is best determined by reviewing the instructions provided by the builder or the manufacturer.

Heating systems can be noisy at times due to the expansion and contraction of the pipes and other metal components of the distribution system. These noises are particularly noticeable when starting up or cooling down, or at night (when it is quieter) and do not affect the performance of the system.

Systems that rely on burning fuel to generate heat require makeup air for combustion. This air supply must not be blocked as potentially fatal back drafting conditions can occur.

Heating systems will not operate unless the thermostat setting is higher than the room temperature. Solar heat gains can warm a room or area to the extent that the thermostat is warm enough not to be calling for more heat. The heating system will then remain turned off and other rooms not positively affected by the heat of the sun can become cool.

With forced air systems, the heat outlets and cold air returns must be kept free of any furniture or floor coverings that could block the free flow of air. In addition, the filters must be cleaned or replaced at least twice a year to allow the unobstructed flow of air through the furnace. The quality of the replacement filter used dramatically affects the air quality within the home.

Ventilation, Condensation and Relative Humidity

The optimum year round humidity level to be maintained within the residences is approximately 50%. Due to seasonal variations of the relative humidity outdoors, this level of humidity can be impossible to maintain without the use of specialized mechanical equipment. Mechanical means of maintaining a constant humidity within the home are available.

Furnace humidifiers, which add moisture to the indoor environment, are available, but they must be checked frequently when in use to ensure that the proper water level is maintained within the unit. Dehumidifiers are also available to remove moisture but they must be checked frequently when in use to ensure collected moisture is drained properly.

Due to Building Code/Bylaw requirements pertaining to energy conservation, current standards for house construction require that the exterior envelope of the building be sealed against incidental air leakage. This sealing of the exterior walls prohibits the leakage of warm air to the outdoors from within the residence.

Warm air has the ability to hold more moisture than cold air; therefore, daily activities within your new home such as showering, boiling water, and even respiration create moisture in the form of water vapour. Surprisingly, this can total 7 - 9 litres (1½ to 2 gallons) of moisture per day with four occupants. The warm air holds this water in suspension and as this moisture-laden air comes in contact with cold surfaces it will condense and water will form. Condensation will fuel the creation of mold and mildew.

The failure of an owner to properly ventilate and maintain proper heating levels can seriously affect a new home and the health of the occupants. Any resultant damage due to an owner's actions would not be covered under the warranty.

The key to controlling humidity levels within the home and avoiding condensation is to properly heat and adequately ventilate. Ventilation allows the warm moist air to be exhausted from the home and replaced with dry cool air from the outdoors. This will marginally increase the cost of heating as this cold air is brought up to room temperature; however, this added cost is necessary to offset the harm the high humidity levels will cause.

As the outdoor temperature drops, the surface temperature of the exterior walls will also drop. The air inside the house will not be able to sustain as high a level of relative humidity. This will cause condensation to occur on cold surfaces.

The chart below provides a rough guideline as to the relative humidity levels that can be sustained within the house as the temperature drops.

Celsius	Outside air temperature Fahrenheit	Desirable maximum inside relative humidity (%) at an indoor temperature of 21°C (70°F)
-29	-20	20%
-24	-10	25%
-18	0	30%
-12	10	35%
- 7	20	40%

Windows or the toilet tank of the toilet used most frequently can be used as a guide to determine whether or not the proper relative humidity is being maintained. As soon as condensation occurs on inside window surfaces or on the tank of the toilet, steps should be taken to reduce the relative humidity by controlling the moisture sources and/or by increasing ventilation.

As previously stated, ventilation is often the only effective means for removing moisture. Dehumidifiers are only practical in limited areas. If vented outdoors, exhaust fans in the kitchen and bathroom will remove moisture created from cooking and bathing before the vapour can circulate through the house. These fans should not exhaust into the attic space as this will only exhaust the

moisture into the attic causing problems. These fans need to be run often enough to remove the air borne moisture. The length of time required will depend on the number of occupants, the activities undertaken and outdoor climatic conditions. Many new homes are now provided with intermittent timer controls that regulate the operation of these fans. These controls should never be tampered with or turned off. Exhaust fans can become ineffective due to lint build-up on the vent cover. These covers should be kept clean.

Windows can be an effective means of ventilation. Opening a window near the source of moisture while the exhaust fan is in operation will allow for cross ventilation and more effective moisture and odour removal.

Range Hoods and Exhaust Fans

Range hoods and exhaust fans are provided to reduce or eliminate cooking odours and excess moisture. Not all range hoods vent directly outdoors. For efficient operation and to reduce potential fire hazards created by grease accumulation, filters should be washed in mild detergent. They can also be run through a dishwasher.

Range hoods that do not vent outdoors are usually provided with a charcoal filter that helps remove grease and odours. These filters should be replaced in accordance with the manufacturer's recommendations.

Dryer Vents

The exterior louvers or grilles for the unit dryers must be cleaned annually. In addition, the Strata Corporation must advise all homeowners of the importance to clean the dryer lint traps after every use. Failure to do so may create a fire hazard.

Heat Recovery Ventilators and Energy Recovery Ventilators

Heat Recovery Ventilators (HRV's) and Energy Recovery Ventilators (ERV's) provide a solution to the challenges created by building and venting airtight houses with an energy efficient pressure balanced system. HRV's and ERV's are similar as both supply an intake of exterior air to the home and exhaust interior air from the home while recovering heat energy from the exhaust air, but ERV's can also transfer moisture between the exhaust air and the intake air. The exhaust air heat energy transfer in both systems takes heat from the exhaust air in the winter and transfers some of it to the intake air, so the heating system has warmer air coming in, reducing the amount of energy required to heat the air coming into the home. The same principle applies in the summer, where colder exhaust air will cool the incoming air. ERV's are generally used in climates where excessive dryness is a concern in the winter (drier exterior air), and in climates where higher humidity is a concern in the summer (warm, humid exterior air). HRV's are more commonly used in climates where high humidity is a concern in the winter (more humid exterior air). Maintaining proper interior humidity increases occupant comfort, reduces condensation and helps to maintain the integrity of building components. They can also assist in controlling attic rain where air barrier breaches exist between the attic and the home.

Some homes will be equipped with a heat recovery ventilator (HRV) for ventilation purposes. The heat recovery aspect of this unit consists of a heat exchanger inside the unit that warms the fresh outside supply air with the latent heat of the stale warm air that is being exhausted. This is done via a series of plastic baffles that allows the heat transfer without mixing the two air sources.

HRVs run continuously and are a superior means of controlling humidity and air quality within the home. They are not required by the Building Code/Bylaw and at an additional cost are generally only installed if requested.

Freezing weather can affect the operation of the HRV due to ice buildup within the unit. Precautions should be taken in severe weather to prevent this from occurring. Refer to the manufacturer's recommendations in this regard.

HRV's are engineered systems that have been designed and balanced for their specific installation. Annual maintenance by a qualified technician is recommended.

PLUMBING

General

Your plumbing system will likely consist of plastic or copper piping for the supply of potable water throughout your home and ABS plastic, copper, or cast-iron piping for the waste disposal. Other products are available but are less common.

A main water supply shut off will have been provided to shut off the water supply to each building and possibly each unit as well. This can be used in the event of an emergency and should be located upon occupancy for future reference. Additional shutoffs will have been provided to the sink and toilets to allow for routine maintenance.

The waste lines have been provided with clean outs throughout the building(s) and units. These may be located within cabinets, inside closets, in service chases, or clearly visible on a wall surface. These clean outs must remain accessible as they are the means of access to the piping should a blockage occur.

P-traps are present at the outflow of all waste piping. These traps are designed to provide a barrier of water that prevents the entry of sewer gases into the residences. Sinks or drains that are used infrequently may lose this water barrier due to evaporation. If sewer gases are detected, running water down the waste pipe will re-prime the trap and likely stop the odour.

Any waste materials, including grease, fat and petroleum products, should not be disposed of down the plumbing system. These materials will accumulate in the piping, especially in the P-traps, and can significantly reduce the flow of water through the waste system. These substances are also very detrimental to the municipal sewage treatment systems and private septic systems.

Fixtures

The surfaces of the plumbing fixtures are susceptible to damage from abrasive cleaners. Use of abrasive products and steel wool pads should be avoided, as these products will cause the finish of the fixture to become dull and porous. Refer to the manufacturer's recommended maintenance procedures for specific information relating to your products.

Plumbing fixtures are intended for normal household use only. Caustic products should not be disposed of in the household fixtures.

Hot Water Tank / Boiler

The water temperature of a domestic hot water tank can be adjusted on the thermostat located on the tank. This may require the use of a screwdriver. An average setting for the water temperature is 140°F, adequate for dishwashers. This temperature is hot enough for most uses but will not cause scalding or burns. If hotter water is needed for a special purpose, the thermostat on the tank can be set to a higher temperature; however, the thermostat must be reset to a normal setting when finished. If the residence is to remain unoccupied for a substantial period of time, the water temperature should be turned down or switched off at the tank or breaker panel. Some hot water tanks have a "vacation" setting on the thermostat for this purpose.

Hot water tanks are equipped with a pressure relief valve at the top of the tank. This is a safety feature that will open and relieve water pressure if the tank exceeds its rated working pressure. If water or water stains are evident at the discharge pipe leading from the relief valve, contact a plumber, as this is an indication that the normal operating pressure of the tank has been exceeded.

A typical hot water tank has a life expectancy of 8 to 12 years. Periodic draining of the tank will remove sediment from the base of the tank and prolong its life. The sediment has an insulating effect, especially with immersion type elements, which causes the heating elements to operate longer than necessary with a consequent increase in cost and energy consumption.

Prior to draining water from the tank, the power supply or fuel source must be turned off. Do not restore power to the tank until it has been refilled as it may explode due to excessive pressure caused by the heating of air instead of water.

The tank can be drained by attaching a garden hose to the outflow drain at the base of the tank and routing the hose to a nearby floor drain. Draining can only be accomplished by gravity feed; therefore, the outflow of the drain used must be lower than the base of the tank. Alternatively, the hose can be run outside as long as the outflow is lower than the tank.

Commercial grade boilers require specialized maintenance. Operating and maintenance manuals must be obtained from the builder or plumbing contractor and be kept for future reference.

Hose Bibs

Hose bibs (garden hose connections) often have a valve inside the building that can be shut off. This allows the hose connection to be drained from the inside before winter to prevent freezing and possible bursting of the exterior section of the piping. These shut-off valves should be identified and shut-off in the winter months. Once the water supply has been shut off, the exterior valve should be opened to allow the exterior portion of the piping to drain. This process is reversed in the spring once the threat of freezing is gone.

Some hose bibs are "frost free" which means that the exterior valve is connected to a long stem that causes the water supply to be shut off inside the wall in the warm environment. The outer portion of the piping then drains freely.

Garden hoses should not be left connected to the hose bib during freezing weather as neither can drain. Ice forming in the hose due to un-drained water can break the hose, or the hose bib and cause the supply pipe to freeze.

Toilets

Toilets generally refill as follows: a flush causes water in the tank to rise, which in turn lifts a ball float to a preset water level. Once the ball float reaches this level, the water flow valve is shut off. If set too high, the water level will rise in the tank and run down the overflow pipe into the toilet bowl without shutting off the water. To rectify this, simply adjust the height of the ball float so that the water is shut off before it reaches the height of the overflow outlet.

If water continuously runs into the toilet bowl from the tank, there may be a poor seal at the flapper valve at the base of the tank. This seal can be cleaned with a stiff brush or steel wool. A worn flapper valve would require replacement.

Water dripping from the base of the toilet tank is likely due to condensation on the tank versus a leak of any connections. High interior humidity levels will result in condensation on the cold surface of the toilet tank as the tank is refilled with cold water.

Some toilets and some basins are made of glazed and kiln-fired vitreous china, while some basins and bathtubs are made of enameled steel. Both are very durable and attractive. To clean these fixtures, use mild powdered or liquid cleaners. Avoid abrasive cleansers or pads, as they will damage the finish.

Faucet Repairs

Noisy or leaking faucets are frequently due to loose or damaged washers. Turning the fixture off with too much force can damage washers. Faucet handles should be turned no further than the point at which they stop the flow of water.

Faucets can generally be easily repaired by either replacing the damaged washer or the faucet cartridge itself. Basic home repair books describe how to repair typical faucets; however, due to variations in the methods of manufacture, specific instructions may be required. Prior to beginning the repair, the water supply must be shut off at the shut off valves provided. If such valves are not present, the entire water supply system will need to be shut off at the main shut off valve.

Contact a plumber if you are uncomfortable attempting this repair.

Green staining of fixtures is usually a water related issue due to the chemical compositions in the water and is not a builder defect. This staining is most prevalent in large multi-storey buildings with copper piping as this piping will initially react with chlorinated water. The residents should be advised to run several loads of water through clothes washing machines prior to use to eliminate concentrations of the chemicals that cause staining.

Plugged Toilets and Drains

Toilets are very susceptible to blockage. New toilet designs use very little water per flush. This results in a lower volume of water carrying away the waste. Repeated flushing may be required in some instances to remove solid waste. Dense tissue paper and some thick toilet papers are unsuitable for these toilets. Never dispose of hair, grease, lint, diapers, sanitary products, "Q-tips" or plastic in the toilet.

Hair, grease, large food particles or other solid forms of waste can plug drains. Should they become plugged, try removing the debris from the trap beneath the fixture. Alternatively, a plunger can be used. Once partially cleared, very hot water may complete the job. A more severe blockage may require a plumber. As commercial drain cleaners are very corrosive they are not recommended.

Tub and Shower Enclosures

A shower curtain will prevent water from running onto the bathroom floor while the shower is in use. To prevent damage to the flooring or walls, any spills or puddles of water should be cleaned up immediately.

Caulking is used to seal seams and prevent water from entering behind the enclosure. If a separation occurs around a bathtub between the tub and the wall tiles or between the wall and the enclosure itself, it should be filled immediately with a tub sealer or caulking compound available at any home supply centre. Leaving the gap unsealed may cause serious water damage to adjacent materials.

A clear liquid silicone sealer should be applied to the grout joints of tub or shower enclosures that are finished with ceramic tile. This should be done every six months. This sealer is used to prevent the porous grout from allowing water to seep through to the substrate material behind the tile. This sealing cannot be done until the grout has cured for approximately six to eight weeks. Please note, this is a liquid product and should not be confused with silicon-based caulking products. Follow the manufacturer's recommendations for application.

Some tub enclosures have specific cleaning requirements. Generally, abrasive cleaners are not recommended and harsh chemical cleaners should be avoided entirely. Follow the manufacturer's recommendations for maintenance. Also, you should never step into a bathtub with shoes on as trapped grit and dirt can damage the tub surface.

Floor Drains

Many municipalities require a floor drain primer that automatically provides water for the P-trap located below the floor surface. This P-trap is similar to those used under sinks and when full of water, it will form a seal against gases entering from the sewer system. As this water will evaporate with time, the seal must be maintained by pouring a litre of water down the drain every two to three months if an automatic primer is not present.

Exterior floor drains on balconies or patios must be kept clear and free from debris.

Sprinkler Systems (Fire Suppression)

As required by the local building authority, your building(s) may have been constructed with a sprinkler system. These systems are installed as both wet and dry and annual testing of the system may be required. The trade contractor responsible for the installation should have provided a maintenance manual. The Strata / Condominium Corporation should educate all owners on what type of system the building(s) contain and how it functions.

ELEVATORS (Refer also to Maintenance Manual provided by the elevator contractor)

The BC Elevating Devices Safety Branch has a regulation on compulsory maintenance. The regulation states that all Elevating Devices in public use must have a maintenance program in place with a registered elevator contractor under a contract for a minimum duration of one year, with a minimum frequency of quarterly inspections.

G. INTERIOR COMMON AREA FINISHES

FLOOR FINISHES

Hardwood

Kiln dried material is used for the construction of hardwood floors. However, these materials are susceptible to movement caused by variations in humidity levels in the living space. Low humidity levels will cause the wood to separate slightly at the seams of the flooring. High humidity levels will cause the wood to expand. If excessive, this expansion may lead to cupping or swelling in the center of the board. These movements vary seasonally and can be somewhat controlled by monitoring the indoor moisture levels. The movement of the flooring may also create noises as it expands and contracts.

The appearance of hardwood flooring is easy to maintain and a damp mop is all that is required for cleaning. However, caution must be taken to ensure that the mop is only damp. Damage may occur if excess moisture is spread on the floor from the mop. The need for wax on hardwood floors is rare and many types of flooring are now factory finished and have specific maintenance requirements. Refer to your Builder or flooring supplier for specific instructions.

Hardwood floors should be protected when furniture is moved across the surface. Likewise, with the increase in the use of laminate flooring, care must be taken to protect these finishes to ensure their durability.

Engineered Hardwood and Laminate Flooring

These types of flooring have become more common due to their durability and ease of installation. These flooring types are more practical for an active household but they are not impervious to normal wear and tear.

There are three ways that the flooring can be installed – floating, nailed or glued in place – and the form of installation is usually dictated by the manufacturer. With floating being the most common for laminate flooring, it is very normal for there to be some movement. Regardless of the flooring type, there is always going to be some expansion and contraction.

The appearance of these types of flooring are easy to maintain and a damp mop is all that is required for cleaning. However, similar to hardwood caution must be taken to ensure that the mop is only damp. Damage may occur if excess moisture is spread on the floor from the mop.

Ensure that you are aware of the manufacturers' maintenance specifications - refer to your builder or flooring supplier for specific instructions.

Resilient Flooring

Whether it is a tile or sheet product, resilient flooring is susceptible to damage from indentations or scratches, particularly those caused by furniture. The floor should be protected from such damage by using furniture pads beneath heavy furniture legs. The ability of a given flooring product to withstand abuse varies greatly from product to product and related damage is not a warranty issue.

Resilient flooring may be cleaned with lukewarm water and vinegar. Harsh cleaners can cause fading or affect the composition of the flooring material making it hard and brittle. Consult with the supplier of the specific flooring product for their recommendations, as specialty products are available for different floorings to both clean and restore the sheen. Detergents often cause adjoining carpeted areas to mat down as the soaps are carried onto the carpet from the resilient floor areas.

Resilient flooring is prone to permanent discolouration when rubber backed floor mats are placed on them. This is a chemical reaction between the vinyl surface and the mat backing. Should such discolouration occur it is not a warrantable defect.

Once construction is complete, movement of the floor structure due to shrinkage can also affect the floor. While flooring installers apply filler at the seams of the wood underlay materials, it is not always possible to achieve and retain a perfectly level subfloor. This can result in minor ridges becoming visible beneath the flooring under certain light. Generally, these are only cosmetic and do not require any action.

Carpet

Carpet care basically consists of avoiding spills, cleaning high traffic areas regularly to remove surface dirt and vacuuming the entire carpeted area weekly to remove dirt. Consult your flooring supplier for the specific cleaning and maintenance requirements of the flooring products used in your home.

Carpets and rugs should be professionally cleaned every year or two depending on the use and appearance.

Less expensive carpeting is more susceptible to matting. This is primarily noticeable in high traffic areas and cannot be prevented other than by the use of carpet runners. Warranties from the carpet manufacturer generally pertain to fiber loss only and do not cover "appearance retention".

Ceramic Tile

Ceramic tile is very durable. For routine cleaning use a mild detergent; do not use waxes or sealers. As the grout is porous and will absorb water which will lead to staining, annual sealing of the grout joints with a clear liquid silicone sealer should be carried out.

Natural Flooring Products such as Marble, Granite and Slate

Although strong and attractive, spills can permanently stain natural flooring. All spills should be cleaned up immediately. Cleaning of these materials should be done with a clean, soft cloth and warm water. Also, care should be taken to prevent scratching of the surface.

COUNTERTOPS AND CABINETS

Plastic Laminates

Laminated countertops will burn or de-laminate if hot pots or pans are placed directly on the surface. Protective potholders should be used if the hot items are to be placed on the countertop. Electrical appliances may also require protection when in use. The damage caused by hot items is generally not repairable so it is best to err on the side of caution.

Abrasive cleaners or steel wool should not be used as the surface of the laminate will scratch. The ability to withstand scratching does vary with the laminate material used. If allowed to remain on the surface, household bleach or solvents can stain or discolour the laminate.

Water must not be allowed to remain on joints in the countertop as this will result in the substrate of the countertop swelling due to the excess moisture. This damage is irreversible.

Clean the surface of plastic laminates with a damp, soapy cloth or sponge. For stubborn stains, use a mild household cleaner and rinse thoroughly with clear water. Be aware that some liquid cleaners contain abrasives and/or solidify at the mouth of the container. These hard solid pieces can scratch

the surface if they inadvertently get on the cleaning cloth or sponge used to clean the laminate surface.

Manufactured Marble / Quartz

Sinks and countertops made of manufactured marble or other man-made compounds often have specific cleaning requirements. The manufacturer of the product should be contacted for these instructions. Generally, they can be cared for in a manner similar to plastic laminates, abrasive cleaners should not be used. These surfaces are also heat sensitive.

Cabinets

Vinyl surfaced cabinets are very susceptible to heat damage. If the kitchen is equipped with a self-cleaning oven, the cabinet drawers and cabinet doors adjoining the range should be kept open when the range is in self-clean mode to allow excess heat to dissipate. If heat is allowed to build up, the surface may delaminate. This precaution should also be taken when the oven is used for a prolonged period at a high temperature.

Most cabinet surfaces can be cleaned using a damp cloth and a mild detergent. Abrasive cleaners should not be used. Grease splattered on the surfaces should be removed immediately as it becomes more difficult to remove as it solidifies.

PAINT

The majority of the interior drywall surfaces will be finished with a latex (water-based) paint. Maintenance can quite easily be carried out by gently washing the painted surfaces with a mild soap or detergent solution. Abrasive solutions or over scrubbing should be avoided, as this will remove the paint and possibly damage the wall surface beneath.

APPLIANCES

Any appliances included with the purchase of your new home, which have been installed by the builder or his agents, will have been checked to ensure their proper operation. Appliances generally come with instructions, which detail the operating procedures for the specific appliance. These instructions must be followed in order to maintain the manufacturer's warranty. Any warranty cards provided with the equipment should be completed and sent to the manufacturer to ensure your warranty obligations are met.

Check and clean the exterior dryer vents on a monthly basis as they commonly become plugged with lint that reduces the efficiency of the dryer. Lack of maintenance in this area could result in a fire hazard, or this could lead to water ingress into wall or ceiling spaces.

H. EMERGENCY SITUATIONS

In emergency situations, please contact your Property Management Company. If the Property Management Company cannot respond then you may attempt to contact your Builder for assistance. Please keep in mind the warranty conditions and time periods for responsibility. If neither party can be reached, then contact your warranty provider, Travelers Insurance Company of Canada, for information on the appropriate actions to be taken. All Strata Council/ Condominium Board members should be advised of the situation and which units have been affected.

Many items pertaining to maintenance and emergency situations are not covered by warranty insurance since they are beyond the control of the builder. However, for your information we provide the following synopsis of a few emergency situations and what actions should be taken.

Please note that consequential damages arising from a Defect are not covered under the warranty. These damages may be covered under a property damage claim to the appropriate insurer.

PLUMBING

Fire Sprinkler Accidental Activation

If a fire sprinkler is accidentally activated the fire department is automatically signaled and they respond accordingly. The Strata/Condominium Corporation should be prepared in the event that activation occurs by having several representatives that understand what the fire department has to do when they receive this signal to alleviate owner concerns.

Water Line Burst

A water line can burst due to a number of reasons, such as a loose joint, freezing, excessive soil compaction etc. and should be dealt with immediately. If the burst occurs between a fixture and a main or unit shut-off valve, close the shut-off immediately. If no shut-off exists, locate the main water shut-off (usually located in a service chase in the hallway or outside in a common roadway), and turn it off until the problem can be repaired. It is also advisable to turn off any hot water tanks affected to prevent overheating while the water supply is shut off.

Minor Plumbing Leak in the Line , Hot Water Tank or Boiler

Put a container under the leak and contact your Property Manager. If major leakage occurs at the hot water tank, immediately shut off the water supply as well as the gas valve or electrical breaker. For all leaks within your unit, you will need to contact a plumber to rectify.

Plugged Fixture or Sewer Line

This generally occurs because of inappropriate materials being flushed down a toilet or drain by users of the facility. **Do not continue use of toilets or sinks once a major blockage has occurred.** Attempt to unclog the line using a plunger. If a larger blockage occurs, the services of a plumber may be required. If the blockage is due to a proven builder defect within the appropriate phase of warranty coverage then the builder would be responsible for the repair. Consequential damages are not within the scope of warranty coverage.

Frozen Water Line

If garden hoses are left attached to hose bibs during the winter, freezing of the water line can occur. This is problematic as once the pipes thaw they may leak. Individual owners should be notified in the fall to disconnect any hoses from the hose bibs. A Strata Corporation representative should confirm compliance with this notice. If a major leak occurs, follow the steps described above regarding "Water Line Burst". If accessible, heating the pipe with a hair dryer may thaw it out. If the frozen pipe is due to a proven builder defect, the builder will take responsibility for the repair.

ELECTRICAL

Circuit Overload (Breaker Tripping)

For the Common Property, this may occur in a recreation facility or meeting room. If this occurs, ensure that the circuit is not overloaded with too many appliances, or that the appliance itself is not faulty. Appliances such as space heaters, microwaves, toasters and kettles that generate heat tend to draw a lot of electrical current. More than one of these types of appliances in use at the same time on the same circuit can cause circuit overload. Should circuit overload occur, unplug one or more of the appliances and reset the breaker. If tripping reoccurs, contact your Property Manager. A certified electrician should immediately review continued tripping of the main electrical distribution system.

Ground fault circuit interrupters (G.F.C.I.s) protect the exterior plugs and those in bathrooms. These devices will either be located in the actual plug itself, or in another bathroom, or be a dedicated breaker in the electrical panel. It is sensitive and designed to trip when grounding occurs due to damp conditions, or when extension cords are excessively long and/or in poor condition, or if appliances are faulty/old. Ensure that no unsafe situations exist and that appliances and extension cords are unplugged then reset the G.F.C.I.

Plugs and Outlets

If a plug or receptacle sparks excessively, immediately turn off the breaker contact the electrical contractor retained to service the electrical components for the building(s). A small spark when an appliance is unplugged is not uncommon.

All Power to the Common Property is Out

If, for any reason, all the power to the building(s) goes out, check to see if there is a power blackout in the neighborhood. If not, contact the electrical contractor retained to service the electrical components for the building(s) and allow them to determine the next course of action.

HEATING

If the heating system does not appear to be operating, ensure that the breaker has not tripped and refer to the operation manual to check lighting procedures. Check the service switch, switching the service off for approximately 30 seconds may reset the computer controls. Also, check the thermostat setting to ensure it has not been turned down.

GAS

If at any time you smell gas contact the gas utility supplier immediately. They will check the building system and advise the Strata/Condominium Corporation of any problems.
The British Columbia Gas Emergency telephone number is 1-800-663-9911.
The Alberta Gas Emergency telephone number is 1-800-511-3447.

ROOF LEAKS (Response will vary depending on the type of buildings)

If a roof leak occurs in a Strata/Condominium Corporation of detached or row dwellings with pitched roof area, check for the following:

- a) plugged gutters or downspouts;
- b) debris on the roof;
- c) ice damming; or
- d) missing roof components

Until the leak is repaired, place a bucket under the leak to protect the affected areas and contact your builder if a builder defect appears to be the cause. If possible, place a tarpaulin over the affected area to prevent further water ingress.

For buildings with flat roof areas, similar actions are necessary to prevent further water ingress and only qualified persons should be inspecting these types of roofs to determine repair requirements.

SNOW

Snow build-up can cause excessive stress on the structure or cause flooding as the water is not allowed to reach the drains. It is important that a Strata/Condominium Corporation have a snow removal plan for all roof locations in the event of heavy accumulations.

I. COMMON PROPERTY MAINTENANCE MANUAL SIGN-OFF

Your Builder has provided you with a maintenance manual outlining the requirements for the building and its components. Checked off below are the specific component manuals that have been provided in addition to this **maintenance manual**.

PRODUCT SPECIFIC MAINTENANCE/OPERATING MANUALS

1. ☐ Concrete
2. ☐ Siding: Type _____
3. ☐ Other Cladding: Type _____
4. ☐ Windows
5. ☐ Skylights
6. ☐ Doors, Exterior and Interior
7. ☐ Door Hardware
8. ☐ Garage Doors
9. ☐ Garage Door Opener(s)
10. ☐ Deck Membranes: Type: _____
11. ☐ Exterior Railings
12. ☐ Roofing: Type _____
13. ☐ Gutters & Downspouts
14. ☐ Flooring: ☐ Hardwood ☐ Tile
☐ Marble ☐ Carpet
☐ Resilient Flooring

Mechanical

15. ☐ Boiler
16. ☐ Plumbing Fixtures/Faucets
17. ☐ Hot Water Tank
18. ☐ Sprinkler System Exterior/Interior
19. ☐ Pressure Reducing Valve
20. ☐ Sump Pump/Pits
21. ☐ Irrigation/Sprinkler System
22. ☐ Septic System
23. ☐ GFCI Breaker/Outlet

24. ☐ Electrical Fixtures
25. ☐ Alarm System
26. ☐ Elevator
27. ☐ Smoke Detector
28. ☐ Furnace
29. ☐ Heat Pump
30. ☐ Heat Recovery Ventilators
31. ☐ Energy Recovery Ventilators
32. ☐ Air-Conditioning
33. ☐ Gas Fireplaces
34. ☐ Common Property Maintenance
Manuals

Other Project Specific Manuals

35. ☐ _____
36. ☐ _____
37. ☐ _____
38. ☐ _____
39. ☐ _____
40. ☐ _____
41. ☐ _____
42. ☐ _____
43. ☐ _____
44. ☐ _____
45. ☐ _____

I/We, _____, on this _____ day of _____, 20____
confirm that I/we have received the Multi-Family Maintenance Manual and the above-noted manuals for
the residential project located at:

from my/our Builder:

I/We also acknowledge it is my/our responsibility to familiarize myself/ourselves with the contents of
these manuals and undertake any maintenance requirements explained therein.

Homeowner (signature)

Builder (signature)

J. COMMON PROPERTY - DEFECTS LIST

The following list has been prepared and submitted to the property Manager by:

Owner: _____

Unit #/Address: _____

[illegible]

K. COMMON PROPERTY SUB-TRADE AND SUPPLIER LIST

The following sub-trade contractors and product manufacturers or suppliers were used in your new home and if prompt service is not provided contact your builder directly.

TRADE/SUPPLIER	COMPANY NAME	CONTACT	TELEPHONE
Excavation/Grading	_____		
Concrete Supply	_____		
Concrete Finishing	_____		
Drain Tile	_____		
Landscaping	_____		
Foundation Forming/ Framing	_____		
Paving Stones	_____		
Siding	_____		
Stucco	_____		
Masonry	_____		
Soffits	_____		
Windows	_____		
Skylight	_____		
Doors	_____		
Garage Doors	_____		
Deck Finishing	_____		
Deck Railings	_____		
Roofing	_____		
Gutters and Downspouts	_____		
Flooring	_____		
Hardwood	_____		
Resilient Flooring	_____		
Carpet	_____		

PAGE TWO
SUB-TRADE AND SUPPLIER LIST

TRADE/SUPPLIER	COMPANY NAME	CONTACT	TELEPHONE
Tile	_____		
Marble	_____		
Counter Tops	_____		
Cabinets	_____		
Ceramic Tile	_____		
Insulation	_____		
Drywall	_____		
Painting - Interior	_____		
Painting - Exterior	_____		
Interior Finishing (Wood Work)	_____		
Mirrors	_____		
Plumbing	_____		
Plumbing Fixtures	_____		
Septic System	_____		
Elevator	_____		
Electrical	_____		
Electrical Fixtures	_____		
Heating	_____		
Fireplaces	_____		
Appliances	_____		
Range Hood	_____		
Alarm System	_____		
Central Vacuum	_____		
Warranty Company	Travelers Insurance Company of Canada		(604) 682-3095 or 1-800-555-3914

L. PROJECT PROFESSIONAL CONSULTANT LIST

CONSULTANT	COMPANY NAME	CONTACT	TELEPHONE
Building Envelope			
Architect			
Structural			
Mechanical			
Electrical			
Geotechnical			
Environmental			
Civil			
Landscape Architect			

N. HOME WARRANTY COVERAGE

British Columbia: 2/5/10 Legislated Warranty Coverage:

1.0 Materials and Labour Warranty – 2 Years

- 1.1 This Warranty provides coverage for Materials and Labour for up to two years as set out below:
- (a) in the first 12 months of the Warranty, for other than the Common Property, common facilities and other assets of a Strata Corporation, coverage for any Defect in Materials and Labour.
 - (b) in the first 15 months of the Warranty, for the Common Property, common facilities and other assets of a Strata Corporation, coverage for any Defect in Materials and Labour.
 - (c) in the first 24 months of the Warranty,
 - (i) coverage for any Defect in Materials and Labour supplied for the gas, electrical, plumbing, heating, ventilation, and air conditioning Delivery and Distribution Systems,
 - (ii) coverage for any Defect in Materials and Labour supplied for the exterior cladding, caulking, windows, and doors that may lead to detachment or material damage to the New Home or Common Property,
 - (iii) coverage for any Defect in Materials and Labour which renders the New Home unfit to live in, and
 - (iv) subject to Subsection A.1.2, coverage for non-compliance or a violation of the Building Code.
- 1.2 Non-compliance with, or a violation of the Building Code is considered a Defect covered by *Travelers Insurance Company of Canada* only if the non-compliance or violation:
- (a) constitutes an unreasonable health or safety risk, or
 - (b) has resulted in, or is likely to result in, Material Damage to the New Home.

2.0 Building Envelope Warranty – 5 Years

- 2.1 This Warranty provides coverage for the Building Envelope for up to five years for Defects in the Building Envelope of a New Home, including a Defect which permits unintended water penetration such that it causes, or is likely to cause, Material Damage to the New Home.

3.0 Structural Defects Warranty – 10 Years

- 3.1 This Warranty provides coverage for Structural Defects for up to ten years for:
- (a) any Defect in Materials and Labour that results in the failure of a Load Bearing part of the New Home, and
 - (b) any Defect which causes Structural Damage that materially and adversely affects the use of the New Home for residential occupancy.

Alberta: 1/2/5/10 Legislated Warranty Coverage:

1.0 Materials and Labour Warranty – 1 Year

- 1.1 This home warranty insurance policy provides coverage for any Defect in Materials and Labour used in the New Home for a period of 1 Year from and including the Commencement Date.

2.0 Materials and Labour Warranty (Delivery and Distribution Systems) – 2 Years

- 2.1 This home warranty insurance policy provides coverage for any Defect in Materials and Labour relating to the Delivery and Distribution Systems of the New Home for a period of 2 years from and including the Commencement Date.

3.0 Building Envelope Warranty – 5 Years

- 3.1 This home warranty insurance policy provides coverage for any Defect in the Building Envelope of the New Home that results in the failure of the Building Envelope to perform its intended function for a period of 5 years from and including the Commencement Date.
- 3.2 This home warranty insurance policy may provide optional coverage for any Defect in the Building Envelope of the New Home that results in the failure of the Building Envelope to perform its intended function for an additional 2 years to that home warranty insurance coverage provided under Subsection A.3.1.

4.0 Structural Defects Warranty – 10 Years

- 4.1 This home warranty insurance policy provides coverage for Structural Defects in the New Home for a period of 10 years from and including the Commencement Date.

- ***For complete Warranty Coverage information, refer to your Travelers Insurance Company of Canada Home Warranty Certificate.***

O. WARRANTY EXCLUSIONS

The Warranty does not cover the following:

- a) weathering, normal wear and tear, deterioration or deflection consistent with normal industry standards;
- b) normal shrinkage of materials caused by drying after construction;
- c) any loss or damage which arises while the new home is being used primarily or substantially for non-residential purposes;
- d) materials, labour, or design supplied by an owner;
- e) any damage to the extent that it is caused or made worse by an owner or Third Party, including:
 - (i) negligent or improper maintenance or improper operation by anyone other than the builder or its employees, agents, or sub-contractors,
 - (ii) failure of anyone, other than the builder or its employees, agents, or sub-contractors, to comply with the Warranty requirements of the manufacturers of appliances, equipment, or fixtures,
 - (iii) alterations to the new home, including the conversion of the non-living space into living space or the conversion of the new home into two (2) or more units, by anyone other than the builder or its employees, agents, or sub-contractors while undertaking their obligations under the sales contract, and,
 - (iv) changes to the grading of the ground by anyone other than the builder or its employees, agents, or sub-contractors;
- f) failure of an owner to take timely action to prevent or minimize loss or damage, including the failure to give prompt notice to Travelers Insurance Company of Canada of a Defect or discovered loss or a potential Defect or loss;
- g) any damage caused by insects or rodents and other animals, unless the damage results from non-compliance with the Building Code by the builder or its employees, agents, or sub-contractors;
- h) accidental loss or damage from acts of nature including, but not limited to, fire, explosion, smoke, water escape, glass breakage, windstorm, hail, lightning, falling trees, aircraft, vehicles, flood, earthquake, avalanche, landslide, and changes in the level in the underground water table which are not reasonably foreseeable by the builder;
- i) bodily injury or damage to personal property or real property which is not part of the new home;
- j) any Defect in, or caused by, materials or work supplied by anyone other than the builder or its employees, agents, or sub-contractors;
- k) changes, alterations, or additions made to the new home by anyone after initial occupancy, except those performed by the builder or its employees, agents, or sub-contractors under the construction contract or sales agreement, or as required by *Travelers Insurance Company of Canada*;
- l) contaminated soil;
- m) subsidence of the land around the new home or along utility lines, other than subsidence beneath footings of the new home or under driveways or walkways;
- n) diminution in the value of the new home;
- o) landscaping, both hard and soft, including plants, fencing, detached patios, gazebos and similar structures;
- p) non-residential detached structures including sheds, garages, carports or outbuildings, or any structure or construction not attached to or forming an integral part of a multi-unit building or the new home;
- q) any commercial use area and any construction associated with a commercial use area;
- r) roads, curbs, and lanes;
- s) site grading and surface drainage, except as required by the Building Code;
- t) the operation of municipal services, including sanitary and storm sewer;
- u) septic tanks or septic fields;
- v) the quality or quantity of water, either from a piped municipal water supply or from a well;
- w) a water well, but excluding equipment installed for the operation of a water well used exclusively for the new home, which equipment is considered to be part of the plumbing system for the new home;
- x) damage caused or made worse by the failure of an owner to take reasonable steps to mitigate any damage.

P. Sound Transmission

Travelers Insurance Company of Canada's position with regard to airborne or flanking sound transmission is that typical wall/floor assemblies must be constructed to meet the minimum standards established by the British Columbia Building Code, or the City of Vancouver's Building Bylaw.

For sound transmission complaints to be considered a warrantable defect, the owner is required to provide evidence that a wall/floor assembly was not constructed in a manner that meets the minimum Building Code/Bylaw requirements. The fact that some noise or vibrations can be heard through adjacent wall/floor assemblies in itself is not evidence that a defect exists. It should be noted that the British Columbia Building Code/Vancouver Building Bylaw currently have no requirements for the control of impact noise transmission.

The Building Code has established the minimum measurable sound transmission standards that must be met; these minimum performance standards are known as Sound Transmission Class ratings (STC). The wall/floor assemblies listed in the Building Code have been laboratory tested to produce their typical STC ratings. Generally, Builders construct standard wall/floor assemblies from details tested to meet or exceed the minimum required STC ratings.

Field-testing is one method of evaluating a wall/floor assembly. Conducting a field test, however, may not demonstrate a valid Defect in Materials and Labour, because laboratory test results of a standard wall/floor assembly take precedence over field test results.

In order for Travelers Insurance Company of Canada to consider sound transmission as a Defect in Materials and Labour, one of the following criteria must be met:

- The owner must provide evidence to show that a violation of the Building Code/Bylaw is present in an assembly that has been constructed using typical building practices and that the STC rating of this assembly does not meet code.
- The owner must demonstrate that the type of assembly constructed is not listed as one of the standard assemblies in the Building Code/Bylaw. Further, a field test must then show that this assembly does not meet the minimum required STC rating.

Q. MAINTENANCE LOG PREPARATION

A detailed maintenance log is one of the most important elements of an effective building maintenance program. Your building's maintenance log should document every aspect of your building's systems, keeping track of what work has been done and what needs to be done on a regular basis. A well-kept maintenance log helps prevent vital information from being lost or overlooked. This is especially important because Strata/Condominium Corporations and committees change from year to year. Here are a few basic steps to establishing an effective maintenance log:

1. Obtain and retain as many of the mechanical system operating manuals as possible.
2. Obtain and retain an original set of design drawings for your building.
3. Document maintenance requirements and create a replacement schedule for all major components and systems affecting your building.
4. Document all work done on your building(s).
5. Review all components regularly.
6. Monitor building modifications.

The Maintenance Log that has been provided (see attached) is your framework within which to start. Utilize this format or one similar that clearly sets out the time frames and descriptions of when and what work/investigations are undertaken. Alter this document to reflect the Building Envelope detailing and the interior Common Area finishes of your building(s).

R. PROFESSIONAL CONSULTANT INSPECTION LOG PREPARATION

The Professional Inspection Log that has been provided (see attached) should be utilized separately to keep track of the companies and individuals who specifically carry out the inspections at your building(s). This allows for easy follow-up and questions if the need arises.

Selecting skilled, qualified and responsible consultants and contractors is vital to the success of your maintenance program. Your property manager typically handles this task and he/she should be able to identify the characteristics of a good contractor. Do not base your selection of contractor on cost alone. Developing good relationships with reputable contractors can be invaluable for all owners and prevent serious problems in the future. **This is not an area where the lowest price should be the determining factor.**

Some considerations in choosing a consultant or contractor are:

1. Provide a detailed list of the scope of work to be done which reflects the expectations of the owners.
2. There is no one professional contractor who can do all the tasks that are required.
3. Insist on references and be sure to contact them. If possible, visit the other locations to see first hand the work being done by the contractor.
4. Check contractors' ratings with the Better Business Bureau.
5. Check contractors' standing with the Credit Bureau.
6. Confirm that all workers on site will be covered by "Workers Compensation".
7. Most professions have certification requirements by government and/or professional associations. Request to see these credentials, and if possible retain a photocopy for your records. Make sure to call the issuer of the credentials to ensure they are still a member in good standing. If it is thought necessary, research the association/certifying body as well.
8. Contractors should have a municipal license to do business in your area. Request to see it and retain a photocopy if possible. Typically, these licenses are renewed annually so be sure to request the most current one each year.
9. What is the status of their liability and Errors and Omissions (E&O) insurance, including the dollar limit per claim, the aggregate annual amount and any major claims that could affect their limits? With **MUTI-FAMILY** projects some Architects and Envelope Consultants have exclusions in their E&O policies that only allows them to work on projects with a 10-year water penetration warranty, or their policies have total exclusions for water penetration coverage. Travelers Insurance Company of Canada provides a 5-year water penetration warranty. To prevent any delays in processing your multi-family applications please contact our office prior to selecting your Architect or Envelope Consultant, to ensure that they have proper E & O coverage in place.
10. Ensure the contractor you choose is absolutely clear about the scope of work that is expected and has the tools and equipment to do the work.
11. Establish a procedure with the contractor in case of an emergency. All contact names and telephone numbers for the contractor should be known by the Property Manager and all members of the Strata Corporation.

Once a consultant is chosen for the specified work, a letter of understanding or a written contract should be used to detail the agreed upon terms. Most importantly, ensure that you and others can rely upon the consultant's recommendations and reports, and that limiting legal disclaimers do not exist. Remember, they are your consultants and you must be able to rely on the information that they provide.

COMMON PROPERTY MAINTENANCE LOG

A fundamental part of a good maintenance plan is the qualifications of the party(s) monitoring the condition and performance of the building components. The maintenance items should be "signed off" by a qualified inspector/professional as they are inspected. The qualifications of this inspector(s) should be attached to the maintenance log as an Appendix for easy reference.

Year: _____

Maintenance Requirement	Req'd Review	Description of Work Completed	Date Completed	Contractor Name	Cost and Invoice #	Next Scheduled Review
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EXTERIOR BUILDING ENVELOPE

Check weather-stripping to exterior doors and repair/replace as necessary.	Annually					
Exterior flashing - clean and inspect for reverse drainage or corrosion.	2 years					
Check exterior caulking for cracking, bulging, discontinuities and re-caulk as necessary.	Annually					
Stucco and EIFS Stucco - inspect for cracks, staining and delamination of acrylic finish.	Annually					
Flat roof - inspect for wear, cracks, debonding and water leakage.	2 years					
Sloped roof - inspect for wear and shingle failure.	2 years					
Flat and sloped roof - inspect around all protrusions/vents and chimneys, parapet and edge flashings.	2 years					
Vinyl membranes on balconies and walkways - inspect for wear, open seams, debonding, damage and signs of leakage.	Annually					

Year: _____			Date Completed	Contractor Name	Cost and Invoice #	Next Scheduled Review
Maintenance Requirement	Req'd Review	Description of Work Completed				
Balcony railings guards and flashings - inspect all connections.	Annually					
Residential Windows - inspect for deteriorated finishes, gaskets and seals. Check for broken glass, failure of sealed units; or as required by window manufacturer.	2 years					

EXTERIOR GENERAL

Check foundation and concrete slabs for cracks, spalling and signs of leakage.	2 years					
Stucco and EIFS Stucco - recoat acrylic finish.						
Flat and sloped roofs - clean all drains and scuppers.	6 month					
Clean gutters and downspouts.	6 month					
Deck railings and guards – repaint.	2 years					
Check and clean sumps.	Annually					
Exhaust vents - check for debris and for damage and corrosion.	Annually					

UNDERGROUND PARKADES

Check parkade drains and sumps.	Annually					
Adjust and test entry gates and security doors as required.	Annually					

Year: _____

Maintenance Requirement	Req'd Review	Description of Work Completed	Date Completed	Contractor Name	Cost and Invoice #	Next Scheduled Review
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LANDSCAPING

Check grades around the perimeter of building(s) and fill low areas.	Annually					
Seasonally maintain automatic sprinkler system.	Annually					
Clean and check drains at patios and courtyards.	Annually					

PLUMBING

Disconnect hoses and drain hose bibs.	Annually					
Blow out sprinkler lines.	Annually					
Drain and refill hot water tank.	Annually					
Check boilers and pumps for wear and corrosion.	Annually					

ELECTRICAL

Check GFI circuits.	Annually					
Check smoke/carbon monoxide detectors.	Annually					

Year: _____

Maintenance Requirement	Req'd Review	Description of Work Completed	Date Completed	Contractor Name	Cost and Invoice #	
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HEATING AND VENTING

Clean fireplace.	Annually					
Service heating system and replace filters.	Annually					
Clean dryer ducts completely to the exterior.	2 years					
Service air handling system for the underground parking area.	Annually					

INTERIOR FINISHES

Re-caulk showers and countertops as necessary.	Annually					
Seal grout.	Annually					
Lubricate all hinges on main entry and emergency exit doors.	Annually					
Wash range hood filter.	Annually					

COMMON PROPERTY PROFESSIONAL INSPECTION LOG

Year: _____

Inspection Requirement	Req'd Review	Consultant Company Name and Inspector	Date of Inspection	Report Date and Major Findings	Cost and Invoice #	Next Scheduled Review
Building Envelope	Annually					
Roof	2 years					
Mechanical Systems:						
Air handling system	Annually					
Water supply system	Annually					
Elevator	Annually					
Main electrical supply	2 years					
Main gas supply	2 years					
Sprinkler system	Annually					