 Maintenance and Renovation

Books and Research Reports

Canada Mortgage and Housing Corporation

*Moisture and Air: Householder’s Guide, Problems and Remedies*
Ottawa: Canada Mortgage and Housing Corporation
1989
“This document is intended to help you find some of the typical signs of moisture and air quality problems in your house, to identify the probable causes and to propose practical solutions. Many household problems can be solved if a householder does one or more of the following: change practices, perform maintenance or minor repairs, have a professional contractor make major repairs.”
Available at: VPL, CMHC

Canada Mortgage and Housing Corporation

*About Your House*
Ottawa: Canada Mortgage and Housing Corporation
1995, 1996
“Instead of guessing whether or not you have a humidity problem inside your house, why not find out for sure? If you live in a damp house, or if you have ever experienced flooding, your home may be breeding an often-invisible and always unwelcome intruder - mold. Mold can cause allergies and respiratory disease. The toxins it produces can wear down the immune system — leaving people, especially children, vulnerable to many illnesses. If you discover mold, it is important to destroy it quickly. It is equally as important that you take precautions before you begin. Whether you do the job yourself or hire a contractor, the following steps should be taken to destroy molds and prevent them from re-infecting your home.”
Available at: VPL, CMHC

Canada Mortgage and Housing Corporation

*Building Solutions: A Problem Solving Guide for Builders and Renovators*
Ottawa: Canada Housing and Mortgage Corporation
1998

Available at: BCIT, VPL, CMHC

Canada Mortgage and Housing Corporation

*Building Envelope Rehabilitation: Consultant Guide Second Edition*
Ottawa: Canada Housing and Mortgage Corporation
2001
“One of three publications addressing the rehabilitation of wood frame buildings in coastal BC, this document is more focused on the consultants’ role in rehabilitation. The guide is intended to provide a better understanding of the technical concepts, issues and rehabilitation process.”
Canada Mortgage and Housing Corporation

*Building Envelope Rehabilitation Owner/Property Manager Guide*
Ottawa: Canada Mortgage and Housing Corporation
2001

“One of three publications addressing the rehabilitation of wood frame buildings in coastal B.C., this document is directed towards owners and property managers. The guide is intended to provide a better understanding of the technical concepts, issues and rehabilitation process.”
Available at: VPL, CMHC

Condominium Home Owners Association

*“Get to Know” and “How to Care” for your Balcony*
: New Westminster: CHOA Journal
2004

“Most problems associated with water infiltration and premature deterioration of balcony components can be related to the design of the balcony, construction deficiencies, durability or compatibility of the materials used, lack of maintenance and renewal of balcony components, improper maintenance of balcony components, or some combination of these factors”.
Available at: CHOA, HPO

Homeowner Protection Office

*Building Envelope Maintenance Bulletin, Maintenance Matters #1, Paints, Stains and Coatings*
Vancouver: Homeowner Protection Office
2006

“This bulletin helps to identify the different paints, stains and coatings that are commonly applied on the exterior of your building, identifying the maintenance that must performed, how often maintenance must be performed, who should be called for service, and importance of preparation before painting.”
Available at: CHOA, HPO

Homeowner Protection Office

*Building Envelope Maintenance Bulletin, Maintenance Matters #2, Maintaining Your Roofing*
Vancouver: Homeowner Protection Office
2006

“This bulletin provides a description of roof types, the importance of developing a roofing maintenance plan, how often roofs should be maintained and who should be called for service. Also included is a checklist of common roof inspection and maintenance items and suggested actions.”
Available at: CHOA, HPO

Homeowner Protection Office

*Building Envelope Maintenance Bulletin, Maintenance Matters #3, Avoiding Condensation*
Vancouver: Homeowner Protection Office
2006
“This bulletin provides information on condensation, sources of moisture in the home, how to avoid condensation problems, and dealing with persistent condensation problems.”
Available at: HPO

Homeowner Protection Office
Building Envelope Maintenance Bulletin, Maintenance Matters # 4, Residential Windows and Exterior Doors
Vancouver: Homeowner Protection Office
2006
“Provides information on inspection and maintenance to ensure good long-term performance of windows and exterior doors and aids in recognizing when professional assistance is required. Also included is a checklist of common window and door maintenance items and suggested actions.”
Available at: CHOA, HPO

Homeowner Protection Office
Exposed Wood Structures
Vancouver BC: Homeowner Protection Office
2011
There is a long tradition of wood construction of residential buildings in British Columbia. Wood is valued for its strength, cost effectiveness and natural visual qualities. In addition to its use in structural framing, wood is used as a finishing and cladding material. Much of the wood used in buildings is concealed in walls and building interiors. However, in many buildings, wood elements are also used on the building exterior and are exposed to the environment. Examples of exposed wood elements include siding and trim, posts, decks, walkways, stairs, balcony guards and fences.

Homeowner Protection Office
Creating and Implementing a Building Envelope Maintenance and Renewals Program
Vancouver, BC: Homeowner Protection Office
2013
In this bulletin we will look at how to create and implement a maintenance and renewals program that will protect your building’s assets and the owners' investment.

Homeowner Protection Office
Building Envelope Maintenance Bulletin, Maintenance Matters # 5, Sealants
Vancouver: Homeowner Protection Office
2009
“This bulletin provides information on inspection and maintenance of sealants to ensure the integrity of building envelopes to prevent water and air leakage and aids in recognizing when professional assistance is required. Also included is a checklist of common sealant maintenance items and suggested actions.”
Available at: CHOA, HPO
Maintenance and Renovation

*Building Envelope Maintenance Bulletin, Maintenance Matters # 6, Decks and Balconies*
Vancouver: Homeowner Protection Office
2009
“This bulletin provides information on inspection and maintenance of decks and balconies to prevent water leakage and damages and aids in recognizing when professional assistance is required. Also included is a checklist of common decks and balconies maintenance items and suggested actions.”
Available at: CHOA, HPO

Homeowner Protection Office
*Building Envelope Maintenance Bulletin, Maintenance Matters # 7, Building Envelope Maintenance and Renewals Planning*
Vancouver: Homeowner Protection Office
2009
“This bulletin provides information on the importance of maintaining the building envelopes, and the key documents owners need to keep to support effective maintenance and renewal planning. Also included is the tips in recognizing when professional assistance is required and suggested actions.”
Available at: CHOA, HPO

Simmons, H.L
*Repairing and Extending Weather Barriers*
New York: Van Nostrand Reinhold
1989
This is the “first of eight volumes in Van Nostrand Reinhold’s Building Renovation and Restoration Series. The data includes a description of each weather barrier, recommendations about how they are supposed to be installed and maintained, the reasons they fail, and the industry’s recommendations for repairing and extending them and for installing them over existing materials.”
Available at: BCIT, VPL, CMHC

**Articles**

Available at: UBC


Available at: Public Libraries of B.C., ASHRAE

Bin, Guoshu; Parker, Paul. 2012. Measuring buildings for sustainability: Comparing the initial and
Maintenance and Renovation

retrofit ecological footprint of a century home - The REEP House. *Applied Energy* 0: 24-32
Available at: UBC


Byrne, Aimee; Byrne, Gerard; Davies, Anna; Robinson, Anthony James. 2013. Transient and quasi-steady thermal behaviour of a building envelope due to retrofitted cavity wall and ceiling insulation. *Energy and Buildings* 0: 356-365
Available at: BCIT, UBC

Available at: BCIT, CMHC, HPO

Available at: UBC

Available at: HPO, BCIT

Available at: BCIT, UBC

Available at: BCIT, CMHC, HPO

Available at: UBC

Available at: BCIT, UBC
Deurinck, Mieke; Saelens, Dirk; Roels, Staf. 2012. Assessment of the physical part of the temperature takeback for residential retrofits. *Energy and Buildings* 0: 112-121
Available at: BCIT, UBC

Available at: BCIT, CMHC, HPO

Fatiguso, Fabio ; Giambattista De Tommasi . 2008. Technological Features and Decay Processes of A "New" Building Type at The Beginning of XX Century. *11DBMC International Conference on Durability of Building Materials and Components Istanbul, Turkey*

Available at: BCIT, UBC

Available at: UBC

Available at: BCIT, UBC

Available at: UBC

Available at: BCIT, UBC

Hallberg, Daniel ; Jan Akander ; Bojan Stojanovic;Mikael Kedb. 2008. Life Cycle Management System - A Planning Tool Supporting Long-Term Based Design and Maintenance Planning. *11DBMC International Conference on Durability of Building Materials and Components Istanbul, Turkey*

Available at: UBC

Available at: BCIT, UBC

Available at: Public Libraries of B.C., ASHRAE

Available at: UBC, Public Libraries of B.C.

Available at: UBC

Ma, Zhenjun; Cooper, Paul; Daly, Daniel; Ledo, Laia, 2012. Existing building retrofits: Methodology and state-of-the-art. *Energy and Buildings* 0: 889-902
Available at: BCIT, UBC

Available at: Public Libraries of B.C., ASHRAE

Available at: Public Libraries of B.C., ASHRAE

Available at: BCIT, UBC

Available at: UBC

Available at: Public Libraries of B.C., ASHRAE


Available at: UBC

Available at: UBC

Moropoulou, Antonia; Kyriaki Polikreti; Petros Moundoulas; Eleni Aggelakopoulou. 2008. Classification of Restoration Mortars by Principal Component Analysis and Correlation Between Their Properties and Synthesis. *11DBMC International Conference on Durability of Building Materials and Components Istanbul, Turkey*

Available at: UBC

Available at: BCIT, UBC

Available at: BCIT, UBC

Available at: BCIT, UBC

Osmancikli, Gokhan; Ucak, Senay; Turan, Fatma Nur; Turker, Temel; Bayraktar, Alemdar. 2012. Investigation of restoration effects on the dynamic characteristics of the Hagia Sophia bell-tower
by ambient vibration test. *Construction and Building Materials* 0: 564-572
Available at: UBC

Pashina, Keith A.; Talafous, Steven M.. 2010. Common Sense and Masonry Repair. *Journal of ASTM International*
Available at: UBC, Public Libraries of B.C.


Available at: UBC

Pinard, Sebastien; Fraisse, Gilles; Menezco, Christophe; Renzi, Virginie. 2012. Experimental study of a chimney enhanced heat emitter designed for internal renovation of buildings. *Energy and Buildings* 0: 169-178
Available at: BCIT, UBC


Available at: Public Libraries of B.C., ASHRAE

Available at: UBC

Available at: HPO, BCIT

Available at: BCIT, UBC

Available at: UBC

Maintenance and Renovation

Available at: UBC

Available at: BCIT, UBC

Available at: UBC

Available at: UBC

Stazi, Francesca; Veglio, Ambra; Di Perna, Costanzo; Munafo, Placido. 2013. Experimental comparison between 3 different traditional wall constructions and dynamic simulations to identify optimal thermal insulation strategies. *Energy and Buildings* 0: 429-441
Available at: BCIT, UBC

Available at: UBC


Tupenaite, Laura; Zavadskas, Edmundas Kazimieras; Kaklauskas, Arturas; Turskis, Zenonas; Seniut, Mark. 2010. Multiple criteria assessment of alternatives for built and human environment renovation. *Journal of Civil Engineering & Management* 2: 257-266


Wido Quist ; Rob van Hees ; Silvia Naldin ; Timo Nijland . 2008. The Perception of Small Scale Damage and Repairs of Natural Stone. *11DBMC International Conference on Durability of Building Materials and Components Istanbul, Turkey*
Available at: BCIT, UBC