

## Comprehensive Mitigations Actions for Roofs and Siding

The following table provides an overview of the mitigation actions that Administration will be taking in 2021 for roofs and siding.

<b>Building Components: Roof &amp; Siding</b>		
<b>Educate</b>		
<b>Action/Deliverable</b>	<b>Objectives</b>	<b>Timelines</b>
1. Checklist for hiring a residential roofer	Equip citizens with the information they need to make informed decisions to protect their home.	Q2 2021 Available for May education campaign.
2. Climate Resilient Home Handbook (PDF)	Help Calgarians understand and make improvements to enhance the resilience of their homes and properties to climate hazards. *Translation required	Q2 2021 Live: April 2021 (English)
3. Lunch & Learn for Calgary Real Estate Board (CREB)	Educate citizens on the value of impact resistant roofing and siding materials.	Q2 2021 Live: May 13, 2021
4. City Webinar for the public	Educate citizens on the value of impact resistant siding materials and third-party roofing inspections.	Q2 2021 Live: May 19, 2021
5. Builder Breakfast Presentation	Educate industry on mitigating against climate hazards.	Q2 2021
6. Hiring a licenced contractor campaign	Equip citizens with the information they need to make informed decisions about their home.	Q2 2021
7. Installation of hail monitoring network in Calgary (potential to extend this to areas west of the city as a possible early warning system)	Further inform the City's and insurance industry's direction on risk mitigation strategies for hail in Calgary through a real-time hail monitoring program.	Initial exploration: In progress  Completion scheduled for Q1 2023
<b>Incent</b>		
<b>Action/Deliverable</b>	<b>Objectives</b>	<b>Timelines</b>
8. Explore additional insurance incentives for resilient roofing and siding materials on homes	Incent the use of impact resistant roofing and siding materials.	Initial exploration underway.

9. Explore the merits of solar shingles (as by Tesla) to improve resilience and energy usage	Leverage existing incentive programs to promote use of resilient materials.	Initial exploration underway.
<b>Regulate</b>		
<b>Action/Deliverable</b>	<b>Objectives</b>	<b>Timelines</b>
10. Identify applicable hail zones, and draft code submission for Code change in consultation with Alberta Municipal Affairs, including cost impacts and potential alternative or complimentary methods of mitigation: <ul style="list-style-type: none"> <li>• continuous shingle underlayment,</li> <li>• continuous waterproofing membrane under shingles and taped sheathing joints</li> </ul>	Mandate impact resistant roofing and siding materials in high hail zones.  Mitigate the impacts of potential shingle failure through increased climate resiliency measures in Part 9 of the National Building Code – Alberta Edition.	Presentation to Safety Codes Council (Building Sub-Council) to outline proposed code changes regarding mandating Class 4 impact resistant shingles: March 14, 2021
11. Investigate the opportunity to change the height requirement for contextual developments within the City’s Land Use Bylaw to allow for steeper roof slopes.	Mitigate the risk of hail through design.	TBD
12. Revise the City’s Quality Management Plan (QMP) to enable building envelope inspections in lieu of, or in addition to either foundation or framing inspections.	Introduce building envelope inspections.	Initial exploration: Building Safety Services Committee – March 15, 2021