

CALGARY DECK CONTRACTORS

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## Climate & Weather

How Calgary's chinooks, extreme UV at elevation, hailstorms, frost depth, snow loads, and dry climate affect deck materials and construction

22 Expert Answers from Deck IQ

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## What is the snow load requirement for a covered deck in Calgary and how does it compare to Edmonton?

**Calgary requires a minimum snow load design of 1.9 kPa (40 psf) for covered decks, while Edmonton requires 2.4 kPa (50 psf) due to higher average snowfall and less frequent chinook melting events.**

The **Alberta Building Code sets regional snow load requirements** based on local climate data, and Calgary's covered deck structures must be engineered to handle 1.9 kPa of ground snow load. This translates to approximately 190 kilograms per square meter of roof surface. Edmonton, located further north with colder winters and less chinook activity, requires structures to handle 2.4 kPa or roughly 240 kg/m<sup>2</sup>. While Calgary's requirement is lower on paper, the reality of chinook weather patterns creates unique challenges that Edmonton doesn't face.

**Calgary's chinook cycles create heavier effective snow loads** than the building code minimum suggests. When chinook winds rapidly melt accumulated snow, then temperatures plummet again, the result is dense, wet, refrozen snow that can weigh up to 480 kg/m<sup>3</sup> — nearly double the weight of fresh powder snow. A covered deck that has accumulated 30 centimeters of this wet, dense snow during a chinook cycle can exceed design loads even though Calgary's average snowfall (128 cm annually) is less than Edmonton's (136 cm). This is why experienced Calgary deck builders often design covered structures with additional safety margin beyond the minimum code requirement.

**Pergolas, gazebos, and covered deck sections** must have their roof structures engineered for these snow loads, plus appropriate safety factors. A typical 12x16 foot pergola roof in Calgary must support approximately 3,650 kilograms of snow load (190 kg/m<sup>2</sup> x 19.2 m<sup>2</sup>), plus the weight of the structure itself and any wind loads. This requires properly sized beams, adequate post spacing, and footings that extend below Calgary's 1.2-meter frost line. Many homeowners underestimate these structural requirements and build decorative pergolas that aren't engineered for actual snow loads.

**Roof pitch affects snow accumulation significantly.** Steep roofs (8/12 pitch or greater) shed snow more readily, while flat or low-slope roofs accumulate the full design load. Calgary's chinook winds can also create uneven snow loading, with drifting on the leeward side of structures. Professional deck builders account for these factors when designing covered deck areas, often recommending steeper roof pitches and reinforced framing on the prevailing wind side.

**When to hire a structural engineer:** Any covered deck structure over 200 square feet, or any pergola intended to support significant snow loads, should have stamped structural drawings. The City of Calgary requires engineered drawings for most covered deck permits, and Safety Codes Officers will verify that the structure meets or exceeds the 1.9 kPa snow load requirement during inspections.

**Practical considerations for covered decks:** Budget an additional \$15-25 per square foot for proper structural framing to meet snow load requirements, compared to an uncovered deck. A 300-square-foot covered deck section typically adds \$4,500-\$7,500 to the project cost for the roof structure alone. However, a properly engineered covered deck provides year-round outdoor space and protects the deck surface from Calgary's intense UV and precipitation.

Find experienced deck contractors who understand Calgary's unique snow load challenges through the Calgary Construction Network directory at [calgaryconstructionnetwork.com/directory?trade=fencing-decks](http://calgaryconstructionnetwork.com/directory?trade=fencing-decks).

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Q2

## How does Calgary's frost depth of 1.2 metres affect the cost of deck footings compared to shallower frost zones?

**Calgary's 1.2-metre-plus frost depth significantly increases footing costs compared to milder climates — typically adding \$200-800 per footing depending on the installation method and site conditions.** In regions with shallow frost lines (like coastal BC at 0.3-0.6 metres), deck footings can be as simple as precast concrete pads or shallow sonotubes, but Calgary's extreme frost depth requires deep excavation, more materials, and specialized equipment.

**The cost breakdown shows why Calgary footings are expensive.** Hand-digging a 4-foot-deep footing hole costs \$150-300 in labour alone, and that assumes decent soil conditions. Rocky or clay soil common in Calgary communities like Tuscany, Arbour Lake, and the western suburbs requires power augers or mini-excavators, adding \$100-200 per hole. A standard 10-inch sonotube filled with concrete for a 4-foot-deep footing uses 3-4 bags of concrete (\$15-20) plus the tube (\$12-15), but the real cost is excavation and labour. Total installed cost per sonotube footing ranges from \$250-450 in Calgary versus \$100-200 for shallow footings in milder zones.

**Helical piles are increasingly popular in Calgary because they eliminate excavation but cost more upfront.** These steel screw piles are mechanically driven to below frost depth and provide immediate load-bearing capacity without waiting for concrete to cure. Helical piles cost \$300-600 per footing installed, depending on soil conditions and required depth. While more expensive than sonotubes, they work in any weather, don't require concrete trucks to access your backyard, and can support loads immediately. For difficult access sites or winter construction, helical piles often prove more cost-effective despite the higher material cost.

**Calgary's chinook freeze-thaw cycling makes proper footing depth non-negotiable.** Shallow footings that work fine in Toronto or Vancouver will heave and shift during Calgary's extreme freeze-thaw cycles, causing the entire deck to rack, pull away from the house, and potentially collapse. A typical 300-square-foot deck requires 6-8

footings, so the frost depth requirement adds \$1,200-3,200 to the total project cost compared to shallow-frost regions. This represents 15-25% of the total deck cost for a basic pressure-treated deck, making it one of the largest single cost factors in Calgary deck construction.

**The seasonal timing in Calgary also affects footing costs.** Footings can only be installed after the ground thaws (typically mid-April to early May) and before freeze-up (late October to November). This compressed season creates high demand for excavation contractors, driving up labour rates. Homeowners who can schedule footing work in shoulder seasons (late April/early May or September/October) may save 10-15% on labour costs compared to peak summer rates.

**When to Hire a Pro:** Footing installation always requires professional contractors in Calgary due to the excavation depth, concrete handling, and structural importance. DIY footing installation is not recommended — improper depth, inadequate concrete coverage, or poor drainage can lead to heaving, settling, and deck failure. Professional contractors have the equipment for 4-foot excavation, understand local soil conditions, and carry liability insurance for structural work. The cost savings from DIY footing work are minimal compared to the risk of structural failure from improper installation.

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Q3

## **What happens to deck joist hangers and metal connectors in Calgary winters — do they corrode faster from the salt air?**

**Calgary doesn't have salt air corrosion like coastal cities, but deck joist hangers and metal connectors face a different and arguably more challenging threat: chinook freeze-thaw cycling combined with road salt splash and extreme temperature swings.**

Unlike coastal environments where salt air creates steady corrosion, Calgary's metal connector challenges come from rapid temperature cycling and localized salt exposure. **Chinook winds can swing temperatures from -25°C to +10°C within hours, causing metal to expand and contract repeatedly throughout winter.** This cycling stresses the metal itself and works moisture into connection points where corrosion can start. When combined with Calgary's dry air, any moisture that does penetrate these connections tends to concentrate rather than evaporate, creating ideal conditions for localized corrosion.

**Road salt is the bigger corrosion threat for Calgary decks.** While there's no ocean salt in the air, Calgary uses significant amounts of road salt and ice-melting chemicals during winter. Decks near driveways, walkways, or streets can receive salt spray from vehicles, snow removal equipment, and wind-blown salt dust. This is particularly problematic for ground-level and low-elevation decks where salt-contaminated snow gets piled nearby. The salt concentrates as snow melts and refreezes during chinook cycles, creating a corrosive slush that can contact deck hardware.

**Galvanized joist hangers and connectors perform well in Calgary's climate when properly installed.** Hot-dip galvanized hardware (not just zinc-plated) provides excellent corrosion resistance for 20-30 years in Calgary conditions. The galvanized coating handles freeze-thaw cycling better than painted steel and resists the localized salt exposure from road treatments. **Stainless steel connectors are the premium choice** — 316 stainless steel is virtually immune to Calgary's winter conditions and worth the extra cost for elevated decks or areas with heavy salt exposure.

**The key failure point isn't the metal itself, but water infiltration around connections.** Improperly flashed ledger bolts, joist hangers without adequate drainage, and connections that trap moisture will corrode regardless of the metal type. In Calgary's climate, **proper flashing and drainage around metal connections is more important than the specific metal grade.** Water that freezes in bolt holes or behind joist hangers will expand and crack the connection, allowing more moisture infiltration and accelerating corrosion.

**For maximum longevity, use hot-dip galvanized or stainless steel connectors, ensure proper drainage around all connections, and avoid aluminum hardware in contact with pressure-treated lumber** (the chemical treatment can cause galvanic corrosion). Inspect deck hardware annually for signs of corrosion, loose connections, or ice damage, particularly after severe chinook cycles.

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## How do Calgary's strong west winds affect the design and bracing requirements for a two-storey deck?

**Calgary's strong west winds, especially during chinook events, create significant lateral loads on two-storey decks that require specific structural bracing and design considerations beyond standard deck construction.** A two-storey deck essentially becomes a sail in Calgary's wind conditions, and inadequate bracing can lead to swaying, structural failure, or complete collapse.

### Wind Load Calculations and Structural Requirements

Two-storey decks in Calgary must be designed for wind loads specified in the Alberta Building Code, which accounts for the city's location and elevation. Calgary experiences sustained winds of 40-60 km/h during chinook events, with gusts reaching 80-120 km/h. A two-storey deck presents a large vertical surface area to these winds — typically 150-400 square feet of railing, posts, and under-deck area that catches wind like a billboard. The higher the deck, the greater the wind exposure and structural loads.

The deck's structural engineer must calculate lateral loads based on the deck's height, width, railing type, and exposure. Solid railing panels (glass, composite, or solid wood) create more wind load than open railings with balusters. Cable railings and open picket designs allow wind to pass through, reducing lateral loads on the structure. However, even open railings on a two-storey deck create substantial wind loads that require proper bracing.

### Critical Bracing Components

**Diagonal bracing between posts** is essential for two-storey deck stability. Without diagonal braces, the deck structure relies entirely on the post-to-beam connections to resist lateral forces, which is inadequate for Calgary's wind conditions. Diagonal braces should be installed in an X-pattern between posts, using 2x8 or 2x10 lumber or engineered steel bracing. The bracing must be properly connected with galvanized bolts or structural screws — not just nails.

**Proper post anchoring** becomes critical at two-storey heights. Posts must be anchored to concrete footings with galvanized post anchors rated for the calculated wind loads. Simple post-to-footing connections that work for single-storey decks are inadequate for the overturning forces on tall structures. Many two-storey decks require posts embedded directly in concrete footings or use engineered post-to-footing connections.

**Ledger board attachment** must be upgraded for two-storey applications. The ledger experiences much higher loads from wind-induced deck movement. Through-bolts are often required instead of lag bolts, and the house structure itself must be verified to handle the increased loads. Some two-storey decks require additional house

framing reinforcement or cannot be ledger-attached at all.

## Calgary-Specific Wind Considerations

**Chinook wind events** create the most dangerous conditions for tall deck structures. These winds can shift direction rapidly and create turbulence around buildings that increases loads beyond steady-wind calculations. The sudden temperature changes during chinooks also cause rapid expansion and contraction of materials, stressing connections when they're already under wind load.

**Seasonal wind patterns** in Calgary typically see the strongest winds from October through April, when chinooks are most frequent. However, summer thunderstorms can also generate damaging straight-line winds and microbursts. Two-storey decks must be designed for year-round wind exposure, not just seasonal conditions.

**Elevation effects** at Calgary's 1,045-metre elevation mean higher wind speeds than at sea level. Wind speed increases with elevation, and two-storey decks are effectively even higher above the surrounding terrain, increasing exposure.

## Professional Engineering Required

**Any two-storey deck in Calgary requires professional structural engineering** — this is not a DIY project or a job for a general contractor without specific tall-structure experience. The structural engineer will calculate wind loads, specify bracing requirements, design post connections, and provide stamped drawings for the building permit. Expect engineering costs of \$1,500-\$4,000 for a typical two-storey deck.

**Building permits are mandatory** for any deck over 600mm above grade, and two-storey decks require additional structural review. The City of Calgary Planning & Development department will require stamped engineering drawings, and Safety Codes Officers will conduct multiple inspections during construction.

**Construction costs** for properly braced two-storey decks run \$60-\$100 per square foot due to the additional structural requirements, engineering, and specialized construction techniques. Attempting to build a two-storey deck without proper wind bracing is extremely dangerous and will not pass inspection.

Need help finding a structural engineer or deck contractor experienced with two-storey construction? Calgary Deck Contractors can match you with professionals who understand Calgary's unique wind conditions and Alberta Building Code requirements for elevated structures.

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Q5

## Does the wind exposure in Calgary's open prairie neighbourhoods like Seton require heavier deck construction?

**Yes, Calgary's newer prairie neighbourhoods like Seton, Mahogany, and Auburn Bay require more robust deck construction due to extreme wind exposure.** These communities sit on open prairie with minimal mature tree cover, creating significantly higher wind loads than established inner-city neighbourhoods with natural windbreaks.

### **Wind exposure in prairie developments is dramatically different from mature Calgary communities.**

Neighbourhoods like Hillhurst, Mount Pleasant, or Inglewood benefit from decades of mature tree growth that breaks wind patterns and reduces sustained wind speeds. In contrast, Seton, Cranston, and similar new developments on Calgary's periphery face unobstructed chinook winds, prairie gusts, and storm systems with no natural barriers. Wind speeds can be 30-50% higher than in tree-lined established areas, creating proportionally higher structural loads on decks, pergolas, and shade structures.

**The Alberta Building Code requires higher wind load calculations for exposed locations.** Calgary sits in a high wind zone under the National Building Code, but specific sites require additional consideration. Open prairie locations typically fall into "Exposure C" or "Exposure D" categories, requiring structural designs for sustained winds of 120-140 km/h with gusts exceeding 180 km/h. This affects beam spans, joist spacing, post sizing, footing requirements, and connection details. A deck that meets code in a sheltered Kensington backyard may be under-designed for the same wind loads in Seton.

**Practical construction differences for high-wind exposure include larger structural members and closer spacing.** Deck joists may need to be 16 inches on centre instead of 24 inches, beams may require larger dimensions or engineered lumber, and posts need deeper footings or larger cross-sections. Pergola and shade structure construction is particularly affected — the large surface area acts like a sail in high winds. Many pergola designs suitable for sheltered locations require significant reinforcement or complete redesign for prairie exposure. Railing systems also need attention, as glass panels and solid privacy screens create additional wind load.

**Fastener and connection upgrades are critical in high-wind locations.** Standard deck screws and bolts may need to be upgraded to structural fasteners with higher withdrawal and shear ratings. Ledger board connections to the house require additional bolts or through-bolt connections instead of lag bolts. Hurricane ties, joist hangers, and post anchors should be rated for higher loads. These upgrades typically add 10-20% to material costs but prevent catastrophic failure during severe weather.

**Seasonal timing becomes even more important in exposed locations.** Prairie neighbourhoods experience the full force of chinook winds without moderation from mature landscaping. This accelerates the freeze-thaw cycling that stresses deck connections and finishes. Staining and sealing should be completed early in the season (May-June) to allow maximum curing time before winter weather. Regular inspection of fasteners and connections is more critical in high-wind locations.

**When to Hire a Pro:** Any deck in a high-wind exposure area should involve professional design, especially elevated decks, multi-level structures, or projects including pergolas and shade structures. A structural engineer may be required for complex designs or when local building officials determine standard prescriptive construction is inadequate for the exposure. The additional cost of proper engineering and construction is far less than rebuilding after wind damage or dealing with insurance claims for inadequate construction.

Calgary Deck Contractors can connect you with experienced builders familiar with high-wind construction requirements in Calgary's prairie developments.

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Q6

**Should I wait until June to build my deck in Calgary or can construction start safely in April?**

**You can typically start deck construction in Calgary by mid to late April, but June is the safer choice for consistent weather conditions.** The key factors are ground thaw for footing excavation and stable temperatures for concrete curing and finishing work.

**Ground conditions and footing installation** are the primary considerations for early season deck construction. Calgary's frost line extends over 1.2 metres deep, and the ground typically doesn't thaw to footing depth until mid-April at the earliest. Your contractor will need to excavate to 4 feet minimum for proper footings, and frozen ground makes this impossible. Even once the surface thaws, deeper soil layers may remain frozen into early May. Concrete footings also need adequate curing time — ideally 7-14 days before bearing structural loads — and temperatures should stay above 5°C during the curing period.

**Calgary's unpredictable spring weather** makes April construction risky from a scheduling perspective. Late snowstorms, chinook temperature swings, and wet conditions can delay construction for days or weeks. A project that starts in April might not finish until June anyway due to weather delays. Most experienced Calgary deck builders prefer to start construction in May when conditions are more predictable, even though the ground may be ready earlier.

**Staining and sealing work requires consistent temperatures above 10°C** with no rain in the forecast for 24-48 hours. April in Calgary rarely provides these conditions reliably. Even if your deck framing and decking installation can proceed in April, the final staining step will likely need to wait until May or June anyway. This means your new wood deck sits unprotected through Calgary's intense UV exposure during the critical first months.

**The practical reality is that most reputable Calgary deck contractors are fully booked by March or April** for the prime construction season from May through September. If you're planning an April start, you should have contacted contractors in February or earlier. Contractors who have availability for immediate April starts may be less experienced or may not have steady work for good reasons.

**For the best results, plan your deck construction to begin in May or June.** This ensures reliable ground conditions, consistent weather for concrete curing, and suitable temperatures for staining and sealing. The trade-off is that you'll need to book your contractor months in advance — ideally by January or February for a May start. Calgary's short construction season means planning ahead is essential.

**If you must start in April** due to scheduling constraints, ensure your contractor has contingency plans for weather delays, verify that ground conditions allow proper footing excavation, and be prepared for potential delays that could push completion into summer. Never compromise on footing depth or concrete curing time to meet an aggressive timeline — structural shortcuts lead to expensive failures within 5-10 years.

Need help finding a deck builder for your project timeline? Calgary Deck Contractors can match you with experienced contractors who understand Calgary's seasonal construction requirements.

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## Does the low humidity in Calgary winters cause more cracking and splitting in wood decks than wetter climates?

**Yes, Calgary's extremely low winter humidity causes significantly more wood cracking and splitting than in wetter climates.** Indoor humidity drops to 15-20% during Calgary winters, and outdoor humidity remains low year-round compared to coastal and eastern Canadian cities, creating ideal conditions for wood movement and surface checking.

**Wood naturally expands and contracts with moisture changes, but Calgary's dry climate accelerates this process dramatically.** When wood loses moisture rapidly, the surface dries faster than the interior, creating internal stress that manifests as surface checks (small cracks along the grain) and end grain splitting. Pressure-treated lumber is particularly vulnerable because it starts with high moisture content from the treatment process — as it dries in Calgary's arid conditions, it can shrink significantly and develop checking within the first year. Cedar, while more dimensionally stable than pressure-treated lumber, still develops surface checks in Calgary's dry air, especially on board ends and areas with exposed end grain.

**The freeze-thaw cycling from chinook winds compounds the humidity problem.** When moisture does penetrate these surface checks during snow melt or rain, it can freeze and expand during the next cold snap, widening the cracks further. This cycle repeats throughout Calgary's winter, gradually enlarging what started as minor surface checking into significant splits that can compromise the structural integrity of deck boards and railings.

**Calgary deck boards also gap more than expected due to shrinkage.** Pressure-treated boards installed tight together in summer will often gap 3-5mm by the following winter as they dry and shrink. This is normal but catches many homeowners off-guard. Cedar shrinks less but still moves enough to create noticeable gaps. The key is planning for this movement during installation — pressure-treated boards should be installed with minimal gaps (they will open up), while cedar should be installed with standard 3mm gaps.

**Proper material selection and maintenance significantly reduce cracking and splitting.** For wood decks, applying a high-quality penetrating stain or sealer within 3-6 months of construction helps stabilize moisture content and reduce surface checking. The stain creates a barrier that slows moisture loss while still allowing the wood to breathe. Reapplying stain every 1-2 years maintains this protection. End grain sealing is particularly important — deck board ends should be sealed with extra coats of stain or a dedicated end grain sealer.

**Composite and PVC decking eliminate these moisture-related issues entirely.** These engineered materials are dimensionally stable and don't absorb or release moisture like wood, making them immune to Calgary's humidity extremes. While the upfront cost is higher (\$40-70 per square foot versus \$25-45 for wood), the elimination of

cracking, splitting, and shrinkage-related maintenance makes composite increasingly popular in Calgary's challenging climate.

**For existing wood decks showing significant checking or splitting, professional assessment is recommended.** Surface checking is mostly cosmetic, but deep splits that penetrate more than halfway through a board thickness can weaken the structure. Severely split boards should be replaced, and the deck should be properly stained to prevent further moisture cycling damage.

Need help finding a deck contractor experienced with Calgary's climate challenges? Calgary Deck Contractors can match you with professionals who understand proper material selection and installation techniques for our unique conditions.

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Q8

## How does Calgary's clay soil affect deck footing stability and should I use helical piles instead of sono tubes?

**Calgary's expansive clay soil creates significant challenges for deck footings, and helical piles are often the superior choice over sono tubes for long-term stability.** The clay-rich soils throughout much of Calgary expand dramatically when wet and shrink when dry, creating movement that can shift, crack, or heave concrete footings over time.

**Calgary's clay soil composition varies significantly across the city, but most areas contain bentonite and other expansive clays that can swell 15-20% when saturated.** During Calgary's wet spring months and heavy summer thunderstorms, clay soils absorb water and expand upward, potentially lifting concrete footings.

Conversely, during dry periods and Calgary's arid winters, the clay shrinks and can leave concrete footings unsupported. This expansion-contraction cycle is amplified by chinook temperature swings, where rapid snow melt saturates clay soils, followed by quick refreezing that locks in the expanded state.

**Sono tubes (concrete-filled cardboard forms) work adequately in stable soils but can fail in Calgary's clay conditions.** The concrete cures in the shape of the tube, creating a smooth-sided cylinder that clay can grip and lift during expansion cycles. If the excavation isn't perfectly clean or if clay backfill is used around the tube, the footing becomes vulnerable to frost heave despite reaching the required 4-foot depth. Additionally, sono tubes require perfect drainage — any water pooling around the concrete creates ideal conditions for clay expansion and frost action.

**Helical piles offer superior performance in Calgary's challenging soil conditions.** These galvanized steel shafts with helical plates are mechanically screwed into the ground until they reach stable bearing capacity, typically 6-10 feet deep in Calgary clay. The helical plates anchor below the active clay zone, and the narrow shaft profile minimizes the surface area that expanding clay can grip. Helical piles also provide immediate load-bearing capacity — no waiting for concrete to cure — and can be installed year-round, even in frozen ground.

**The cost difference between sono tubes and helical piles is significant but often justified.** Sono tube footings run \$200-350 per footing including excavation, concrete, and labour. Helical piles cost \$400-700 per footing but eliminate excavation, concrete, and curing time. For a typical 8-footing deck, the premium is \$1,600-2,800. However, helical piles virtually eliminate footing movement issues that can cost \$3,000-8,000 to repair later, including releveling the deck, replacing damaged framing, and addressing house attachment problems.

**Soil testing can help determine the best footing approach for your specific site.** A geotechnical assessment costs \$800-1,500 but identifies clay content, expansion potential, and bearing capacity. Properties in newer developments often have engineered fill that's more stable than natural clay. Areas like Tuscany, Arbour Lake, and communities built on former farmland typically have the most challenging clay conditions. Established inner-city areas may have more stable soils, though clay pockets exist throughout Calgary.

**If you choose sono tubes in clay soil, proper installation is critical.** Excavate to undisturbed soil (never backfill with clay), use a concrete mix designed for cold weather, install proper drainage around each footing, and consider flaring the bottom of the excavation to create a bell shape that resists uplift. The concrete should extend 6 inches above grade to prevent surface water infiltration. Even with perfect installation, sono tubes in clay require monitoring for movement over the first few years.

**For elevated decks, multi-level structures, or properties with known clay issues, helical piles are worth the investment.** They provide peace of mind, eliminate seasonal movement concerns, and often pay for themselves by avoiding future structural repairs. Calgary Deck Contractors can match you with contractors experienced in both

footing methods who can assess your specific soil conditions and recommend the best approach for your property and budget.

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Q9

## How much does wood deck shrinkage cause gaps between boards in Calgary's dry climate and can it be prevented?

**Wood deck boards in Calgary's extremely dry climate will shrink significantly more than in humid regions, creating gaps of 3-5mm between pressure-treated boards and 2-3mm between cedar boards by the first winter.** This shrinkage cannot be prevented but can be planned for during installation.

Calgary's indoor winter humidity drops to just 15-20%, and outdoor humidity remains low year-round compared to coastal cities. This extreme dryness causes lumber to shed moisture rapidly, and pressure-treated lumber arrives at the lumberyard with very high moisture content (often 19-25%) that must dry out. As the wood dries, it shrinks across the grain, opening gaps between boards that were installed tight together.

**Pressure-treated lumber experiences the most dramatic shrinkage** because it's kiln-dried after treatment, then absorbs moisture during the pressure treatment process. When installed fresh from the yard, PT boards may have 20%+ moisture content. As Calgary's dry air pulls this moisture out over 6-12 months, boards can shrink 3-5mm in width. If you install PT boards with no gaps in summer, you'll have significant gaps by winter. The solution is to install pressure-treated boards with minimal gaps (1-2mm) knowing they will open up to 4-6mm spacing.

**Cedar shrinks less but still moves significantly in Calgary's climate.** Cedar typically arrives at lower moisture content than pressure-treated lumber, so it shrinks 2-3mm per board. Install cedar with standard 3mm gaps using a

nail or spacer, and expect final gaps of 5-6mm after the first year. Cedar also develops surface checking (small cracks along the grain) in Calgary's dry air, which is normal and doesn't affect structural integrity.

**The timing of installation affects shrinkage patterns.** Decks built in spring with lumber that's been stored outdoors through winter will shrink less than decks built with fresh, wet lumber in summer. However, you can't completely avoid shrinkage - even kiln-dried lumber will adjust to Calgary's specific humidity levels. Most experienced Calgary deck builders plan for maximum shrinkage and space boards accordingly during installation.

**Composite and PVC decking eliminate shrinkage issues entirely.** These engineered materials are dimensionally stable and won't shrink, swell, or gap over time. While the upfront cost is higher (\$10-18/sqft for composite vs \$3-6/sqft for pressure-treated), you avoid the gapping, checking, and maintenance issues that plague wood decks in Calgary's climate. For homeowners concerned about appearance consistency, composite decking maintains uniform gaps year-round.

**Proper installation technique minimizes problems.** Use a consistent spacing method - either a nail for minimal gaps on pressure-treated lumber or a 3mm spacer for cedar. Ensure boards are straight and properly fastened to prevent cupping and warping as they dry. Pre-drilling end grain prevents splitting, and using corrosion-resistant fasteners prevents staining as the wood weathers.

**When to Hire a Pro:** Experienced Calgary deck builders understand local shrinkage patterns and install boards with appropriate spacing for the lumber type and season. They also know which lumber suppliers provide the most consistent moisture content, reducing unpredictable shrinkage. For DIY builders, the key is planning for shrinkage rather than trying to prevent it - Calgary's climate will win every time.

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## How do Calgary deck builders protect a new deck stain from sudden chinook temperature drops overnight?

Calgary deck builders typically avoid staining within 48-72 hours of a forecasted chinook event, and when caught by surprise overnight temperature drops, they may cover the deck with tarps or plastic sheeting to slow the cooling process and prevent moisture condensation on the fresh stain.

The key challenge with chinook weather and deck staining is that **most deck stains require 6-24 hours of stable temperatures above 10°C to properly penetrate and cure**. When temperatures plummet overnight from +15°C to -10°C (a common chinook reversal), the stain can freeze before it has fully absorbed into the wood fibers, leading to poor adhesion, uneven coverage, and premature peeling.

**Experienced Calgary deck contractors plan staining projects around weather forecasts** rather than trying to protect against sudden temperature drops after the fact. They monitor Environment Canada's chinook warnings and avoid starting stain applications when rapid temperature swings are predicted within the next 72 hours. The ideal staining window in Calgary is during stable high-pressure systems in late spring (May-June) or early fall (September), when temperatures remain consistently above 10°C for several consecutive days and nights.

**When contractors are caught by an unexpected overnight temperature drop**, emergency protection methods include covering the freshly stained deck with clear plastic sheeting or tarps to create a microclimate that slows cooling and prevents frost formation on the surface. Some contractors use portable propane heaters under the covering to maintain temperature, though this requires careful ventilation and fire safety precautions. However, these are emergency measures with limited effectiveness - **the best protection is proper timing and weather planning**.

**Calgary's chinook cycles also affect stain selection**. Professional deck builders in Calgary typically recommend **oil-based penetrating stains over film-forming stains** because penetrating stains are more flexible and better handle the expansion-contraction cycling that chinooks create. Semi-transparent stains generally perform better than solid-color stains in Calgary's climate because they allow the wood to breathe and move naturally. Products specifically rated for extreme temperature cycling, such as Sikkens Cetol DEK Finish or Benjamin Moore Arborcoat, are preferred over standard deck stains.

**The timing of stain application within the day also matters**. Many Calgary contractors start staining early morning (7-8 AM) to maximize cure time before potential overnight temperature drops. They avoid starting late in the day when there's insufficient time for initial penetration before evening cooling begins. **Spring staining (May-June) is generally preferred over fall staining** because overnight temperatures are rising rather than falling, and there's less risk of sudden winter weather.

**For DIY homeowners**, the same principles apply - monitor weather forecasts closely, avoid staining before predicted chinooks, and if caught by surprise, light covering with plastic sheeting may help but isn't guaranteed protection. **The most important factor is patience** - waiting for a stable weather window rather than rushing to complete the project before winter.

Need help finding a deck contractor experienced with Calgary's challenging climate conditions? Calgary Deck Contractors can match you with professionals who understand proper staining timing and weather protection techniques.

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Q11

## Is it true that pressure-treated wood lasts fewer years in Calgary than in milder Canadian climates?

**Yes, pressure-treated lumber typically has a shorter lifespan in Calgary compared to milder Canadian climates, primarily due to chinook wind cycles and extreme UV exposure at elevation.**

Pressure-treated lumber in Calgary faces unique stresses that accelerate deterioration beyond what the same material experiences in cities like Toronto, Halifax, or Vancouver. **Chinook winds are the primary culprit** — these rapid temperature swings from -25°C to +10°C within hours create extreme freeze-thaw cycling that splits end grain, pops fasteners, and opens cracks where moisture can penetrate. A Calgary deck endures more freeze-thaw cycles in one winter than most Canadian decks see in five years. Each cycle forces water into the wood grain, and when it refreezes, the expansion creates micro-fractures that compromise the wood's structural integrity over time.

**Calgary's elevation of 1,045 metres means significantly higher UV exposure** than cities at lower elevations.

This intense UV radiation breaks down the lignin that holds wood fibres together, causing surface checking, splitting, and accelerated weathering. Untreated pressure-treated lumber will begin showing surface cracks within 18-24 months in Calgary, compared to 3-4 years in milder climates. The combination of extreme UV and Calgary's dry climate (often 15-20% humidity) causes rapid moisture loss, leading to more severe checking and board warping than in humid coastal climates.

**In milder Canadian climates, properly maintained pressure-treated decking can last 15-20 years.** In Calgary's extreme conditions, expect 10-15 years with diligent maintenance, or as little as 6-8 years if left unstained. The key difference is maintenance frequency — Calgary pressure-treated decks need staining every 2-3 years versus 3-5 years in milder climates. The dry air also causes significant shrinkage as the lumber dries from its initial high moisture content, creating wider gaps between boards than expected and potentially loosening fasteners.

**To maximize pressure-treated lumber lifespan in Calgary,** apply a high-quality UV-blocking stain within 3-6 months of installation, before the wood has fully dried and begun checking. Use stainless steel or galvanized fasteners rated for extreme cycling, and plan for re-staining every 2-3 years. Consider upgrading to composite decking if you want 25+ year performance with minimal maintenance — the higher upfront cost often pays for itself through reduced maintenance and longer lifespan in Calgary's challenging climate.

**When building with pressure-treated lumber in Calgary,** account for shrinkage by installing boards with minimal gaps (they'll open to 3-5mm as they dry), ensure all cut ends are sealed with end-grain sealer, and use proper flashing at every ledger connection to prevent moisture infiltration during chinook melt cycles.

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Q12

## Is ipe hardwood decking a good choice for Calgary or does it crack in our dry cold winters?

**Ipe hardwood decking is actually one of the most durable options for Calgary's extreme climate, but it comes with significant trade-offs in cost, installation complexity, and maintenance requirements.**

Ipe (pronounced "EE-pay") is an incredibly dense Brazilian hardwood that handles Calgary's harsh conditions better than most natural wood products. Its extreme density — about 3.5 times harder than cedar — makes it naturally resistant to moisture absorption, which means it experiences minimal expansion and contraction during Calgary's notorious chinook cycles. While softer woods like cedar and pressure-treated lumber crack and split from rapid freeze-thaw cycling, ipe's tight grain structure and natural oils provide excellent dimensional stability.

**Calgary's dry climate actually works in ipe's favour.** The low humidity that causes cedar to check and pressure-treated lumber to shrink dramatically has minimal effect on ipe due to its density and low moisture content. However, like all natural wood, ipe will weather to a silver-grey colour within 6-12 months if left untreated in Calgary's intense UV exposure at 1,045 metres elevation. To maintain its rich chocolate-brown colour, you'll need to apply a penetrating oil annually — typically teak or ipe oil designed for exotic hardwoods.

**The challenges with ipe in Calgary are substantial.** Material costs run \$15-25 per square foot — double or triple the cost of cedar. Installation is extremely labour-intensive because ipe's hardness requires pre-drilling every single fastener hole to prevent splitting. Standard deck screws will snap or strip, so you need stainless steel screws and carbide-tipped drill bits. Many Calgary deck contractors won't work with ipe due to the specialized tools and techniques required, which limits your contractor options and increases labour costs. A typical 300-square-foot ipe deck can cost \$18,000-\$30,000 installed.

**Ipe's performance in Calgary winters is exceptional** — it can last 40-75 years with proper maintenance, compared to 15-25 years for cedar. It's also highly resistant to hail damage, which is a significant advantage given Calgary's reputation as Canada's hailstorm capital. The wood won't rot, warp, or support insect activity, and it handles snow loads without issue.

**For most Calgary homeowners, capped composite decking offers better value** — similar longevity and weather resistance at \$40-70 per square foot installed, with virtually no maintenance required. However, if you want the ultimate in natural wood durability and are willing to invest in premium materials and specialized installation, ipe performs exceptionally well in Calgary's climate. Just budget for the higher upfront cost and annual oiling maintenance.

Need help finding a deck contractor experienced with exotic hardwoods? Calgary Deck Contractors can match you with professionals who have the tools and expertise for ipe installation.

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## How do I protect my deck from the salt and gravel that blows onto it from Calgary streets in winter?

**Winter road salt and gravel are major threats to Calgary deck finishes and materials, but proper protection and seasonal maintenance can prevent most damage.** The key is creating barriers during winter months and thoroughly cleaning salt residue before it penetrates wood or corrodes metal components.

**Road salt is particularly destructive** because it accelerates the freeze-thaw cycling that already stresses Calgary decks during chinook weather. Salt lowers the freezing point of water, meaning your deck experiences more frequent wet-freeze cycles rather than staying consistently frozen. This enhanced cycling drives salt water deeper into wood grain, corrodes galvanized fasteners faster, and can cause premature failure of deck stains and sealers. Gravel creates surface abrasion that opens pathways for salt penetration and can chip or scratch composite decking surfaces.

**For wood decks, the most effective protection is a high-quality penetrating sealer applied annually.** Choose a sealer specifically rated for extreme weather and salt exposure — marine-grade sealers designed for boat docks perform excellently on Calgary decks. The sealer creates a barrier that prevents salt water from penetrating the wood grain while still allowing the wood to breathe. Apply the sealer in late fall (October) when temperatures are consistently above 10 degrees but before the first snowfall. This timing gives the sealer maximum cure time before winter exposure.

**Physical barriers work well for decks close to busy streets.** Temporary plexiglass or tarp screens on the street-facing side of your deck can deflect most salt spray and gravel during winter months. These barriers should be removed in spring to prevent moisture trapping and mould growth. Some homeowners install permanent glass or aluminum privacy screens that serve double duty as wind barriers and salt protection.

**Spring cleaning is absolutely critical** — salt damage occurs gradually over months, not immediately. As soon as temperatures consistently stay above freezing (typically March in Calgary), thoroughly rinse your entire deck with fresh water to remove salt residue. Use a deck cleaning solution specifically designed to neutralize salt, not just plain water. Pay special attention to horizontal surfaces where salt accumulates, joist tops, and any metal hardware. For stubborn salt stains on wood, use a mild oxalic acid deck brightener followed by thorough rinsing.

**Composite and PVC decking handle salt exposure much better than wood** because they don't absorb moisture that carries salt into the material. However, salt can still cause surface staining and may corrode the fasteners underneath. Rinse composite decks in spring and check that all fasteners are stainless steel or properly coated to resist corrosion. Avoid using metal shovels or ice chippers on composite surfaces, as these can scratch the protective cap layer.

**Railing protection requires special attention** because horizontal railing caps collect salt and water. Aluminum railings should be rinsed and dried thoroughly each spring, and any scratches should be touched up with matching paint to prevent corrosion. Glass railing panels are highly salt-resistant but may develop water spots that require cleaning with a mild acid solution. Cable railings need the most maintenance — inspect all cable connections for corrosion and re-tension as needed, since salt accelerates cable stretch and hardware corrosion.

**Consider your deck's microclimate** when planning protection strategies. Decks facing busy arterial roads like Crowchild Trail, Deerfoot Trail, or major community roads receive much more salt exposure than those facing quiet residential streets. Elevated decks catch more airborne salt than ground-level decks. North-facing decks stay wet longer during chinook cycles, giving salt more time to penetrate materials.

**Professional deck restoration may be needed** if salt damage has already occurred. Signs include white salt staining on wood, premature graying of cedar, loose or corroded fasteners, and peeling or bubbling stain. A deck professional can assess whether the damage requires board replacement, fastener replacement, or just aggressive cleaning and re-staining. Expect to pay \$3-6 per square foot for professional salt damage restoration, depending on severity.

**For severe salt exposure situations**, some Calgary homeowners invest in seasonal deck covers or retractable awning systems. While expensive (\$2,000-\$8,000), these provide complete protection from both salt and snow load, extending deck life significantly in harsh exposure conditions.

Need help finding a deck professional to assess salt damage or apply protective treatments? Calgary Deck Contractors can match you with experienced contractors who understand Calgary's unique winter challenges.

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Q14

# How do I prevent ice dams from forming on my elevated deck stairs in Calgary during winter?

**Ice dams on elevated deck stairs are a serious safety hazard in Calgary, caused by snow melt refreezing on cold stair surfaces.** The key is preventing water accumulation through proper drainage, using ice-melting products safely, and maintaining clear pathways throughout winter.

## Understanding Calgary's Ice Dam Conditions

Calgary's chinook winds create the perfect conditions for stair ice dams. When temperatures swing from -25°C to +5°C in hours, accumulated snow melts rapidly, then refreezes when temperatures drop again overnight. This creates thick ice layers on stair treads and landings that can persist for weeks. Unlike roof ice dams, deck stair ice dams form from surface water that has nowhere to drain, creating a skating rink where you need secure footing most.

The problem is worse on north-facing stairs that receive little direct sunlight, and on stairs with solid risers that trap meltwater instead of allowing it to drain through. Stairs with inadequate slope (less than 1/4 inch per foot) or damaged surfaces that pond water become ice traps during chinook cycles.

## Immediate Prevention Strategies

**Apply ice melt products specifically rated for deck materials.** Standard rock salt damages wood finishes and corrodes metal fasteners and railings. Use calcium chloride or magnesium chloride ice melts instead — they're less corrosive and work at lower temperatures than salt. For composite or PVC stairs, check the manufacturer's recommendations, as some products can stain or damage certain materials. Apply ice melt before storms when possible, creating a barrier that prevents ice bonding to the surface.

**Install temporary drainage solutions** during winter months. Small channels cut into accumulated snow along stair edges help direct meltwater away from treads. For persistent problem areas, consider temporary rubber mats with drainage channels that can be removed and cleaned regularly. These provide both traction and water management.

**Maintain aggressive snow removal** from stairs and landings. Don't let snow accumulate more than 2-3 inches before clearing it. The longer snow sits, the more it compacts and creates an insulating layer that promotes melting and refreezing cycles. Use a plastic shovel to avoid damaging deck surfaces, and clear snow completely rather than just creating a path.

## Design Solutions for Long-Term Prevention

**Improve stair drainage** by ensuring proper slope and water runoff. Stair treads should slope 1/4 inch per foot away from the house to shed water quickly. If your stairs pond water in summer, they'll create ice in winter. This may require rebuilding stairs with better slope or installing drainage gaps between treads and risers.

**Consider open-riser stair design** for new construction or major renovations. Stairs with gaps between treads allow meltwater and snow to fall through rather than accumulating on surfaces. This is particularly effective in Calgary's climate where rapid temperature swings create frequent melt-refreeze cycles.

**Install heating elements** for high-traffic stairs where safety is critical. Electric heating cables designed for outdoor use can be installed under stair treads during construction. These systems activate automatically when temperatures approach freezing, preventing ice formation entirely. Expect installation costs of \$50-100 per linear foot of stair, plus electrical work by a licensed electrician.

### **Calgary-Specific Winter Maintenance**

During chinook events, **check stairs twice daily** — once when temperatures rise above freezing (to clear slush and standing water) and again after temperatures drop (to apply ice melt before refreezing occurs). Calgary's rapid temperature swings mean conditions change faster than in cities with more stable winter weather.

**Use traction aids** like outdoor carpet runners or rubber stair treads during the worst winter months. These can be installed temporarily from December through March and removed for summer. Choose products with drainage holes or channels to prevent water trapping underneath.

### **When to Call Professionals**

If your stairs consistently ice over despite preventive measures, the problem is likely structural — inadequate slope, poor drainage, or design issues that require reconstruction. Stair safety is critical, and persistent ice problems indicate the need for professional assessment and repair.

Need help finding a deck contractor to address drainage or structural issues? Calgary Deck Contractors can match you with professionals experienced in Calgary's winter conditions and stair safety requirements.

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## What is the best deck material for surviving Calgary's extreme temperature swings from minus 30 to plus 30 Celsius?

**For Calgary's extreme temperature swings and chinook cycles, capped composite decking is the best performing material, followed closely by PVC decking.** These engineered materials are specifically designed to handle rapid freeze-thaw cycling without the warping, splitting, and fastener failure that plague wood decks in Calgary's unique climate.

**Composite decking excels in Calgary's conditions** because it's dimensionally stable through temperature extremes. While wood expands and contracts significantly with temperature and moisture changes, composite maintains consistent dimensions. During a typical Calgary chinook — when temperatures can swing from -25°C to +10°C in hours — wood deck boards are expanding, contracting, and stressing every fastener connection. Composite decking moves minimally, reducing stress on the substructure and eliminating the board cupping, crowning, and splitting that's common with wood decks after several chinook cycles.

**The rapid freeze-thaw cycling from chinooks is particularly destructive to wood.** When snow melts rapidly during a warm chinook, water penetrates wood grain and end cuts. When temperatures plummet again (often within 24-48 hours), this trapped moisture freezes and expands, creating internal pressure that splits boards and pops fasteners. Capped composite decking has a protective polymer shell that prevents moisture penetration entirely, eliminating freeze-thaw damage. Premium brands like Trex Transcend, TimberTech Legacy, and Fiberon Paramount offer 25-year to lifetime warranties specifically because they're engineered for extreme climate cycling.

**PVC decking performs even better in temperature extremes** but at a higher cost (\$12-20 per square foot versus \$10-18 for composite). PVC is completely impervious to moisture, making it immune to freeze-thaw damage. It's also lighter in colour options, which matters in Calgary's intense UV at 1,045 metres elevation. However, most homeowners find composite offers the best balance of performance, appearance, and cost for Calgary conditions.

**If you prefer natural wood, pressure-treated lumber with proper maintenance outperforms cedar** in Calgary's climate. While cedar is naturally rot-resistant, it's a soft wood that splits and checks readily in Calgary's dry air and temperature cycling. Pressure-treated lumber, while requiring 3-6 months drying time before staining, is harder and more dimensionally stable once seasoned. The key is applying a high-quality, UV-blocking stain within six months of installation and re-staining every 2-3 years.

**Critical installation details for any material:** Use stainless steel or hot-dipped galvanized fasteners rated for extreme temperature cycling. Standard zinc-coated screws will fail within 3-5 years in Calgary's conditions. For composite, use manufacturer-specified hidden fastener systems that allow for thermal movement. Ensure proper ventilation under the deck — trapped moisture from chinook melt-refreeze cycles accelerates deterioration of any

organic materials in the substructure.

**Expect to pay \$40-70 per square foot installed for composite decking** versus \$25-45 for pressure-treated wood. While composite costs 50-75% more upfront, it eliminates the \$3-8 per square foot re-staining costs every 2-3 years that wood requires. Over a 20-year period, composite typically costs less than wood when maintenance is factored in.

Calgary Deck Contractors can match you with experienced contractors who understand material performance in Calgary's extreme climate and can recommend the best options for your specific project and budget.

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## How much UV damage should I expect on my deck in Calgary at 1,045 metres elevation compared to lower altitude cities?

**Calgary's elevation of 1,045 metres above sea level exposes your deck to significantly more UV radiation than decks in lower-altitude cities — approximately 10-15% more intense UV than at sea level, which accelerates wood degradation and composite fading by 20-30% compared to coastal cities like Vancouver or Halifax.**

The thinner atmosphere at Calgary's elevation provides less natural UV filtering, meaning your deck receives more damaging ultraviolet radiation throughout the year. This is compounded by Calgary's high number of sunny days (333 annually) and the reflective effect of snow during winter months, which bounces additional UV onto your deck surfaces from below. The combination makes Calgary one of the highest UV-exposure environments for outdoor wood structures in Canada.

**For untreated cedar decking, expect visible silvering within one growing season** — often by late summer if the deck was built in spring without immediate stain protection. Pressure-treated lumber will begin surface checking and splitting by the second season, and any unstained wood will turn grey and begin losing structural integrity in the surface fibres within 18-24 months. Compare this to sea-level cities where the same degradation typically takes 2-3 years for cedar and 3-4 years for pressure-treated lumber.

**Composite decking also shows accelerated fading at Calgary's elevation**, particularly darker colours like chocolate brown, mahogany, and charcoal grey. While composite manufacturers design their products for UV resistance, the intense high-altitude exposure can cause noticeable colour shift within 3-5 years on south and west-facing deck surfaces. Lighter composite colours — greys, tans, and weathered wood tones — show less visible fading and are recommended for Calgary installations.

**The key to protecting your deck investment is immediate UV protection.** For wood decks, apply a high-quality UV-blocking stain or sealer within 30-60 days of construction, before the wood begins to grey. Look for products specifically rated for extreme UV conditions and high-altitude applications. Semi-transparent stains with UV inhibitors provide the best protection while maintaining wood grain visibility. For composite decking, choose lighter colours from manufacturers like Trex, TimberTech, or Fiberon that specifically warranty their products against UV fading.

**Calgary's dry climate amplifies UV damage** because low humidity causes wood to become more porous and UV-susceptible. The combination of intense UV and dry air creates ideal conditions for rapid surface degradation, making regular maintenance even more critical than in humid coastal climates.

**Professional deck builders in Calgary should be applying UV protection as part of their standard construction process** — not leaving it as an optional add-on. If you're building a new wood deck, insist that UV-blocking stain or sealer be included in the contract and applied before project completion.

Need help finding a deck builder who understands Calgary's unique UV challenges? Calgary Deck Contractors can match you with experienced professionals who factor high-altitude UV exposure into their material recommendations and finishing schedules.

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**Q17**

## **How much shorter is the deck building season in Calgary compared to Vancouver and does that affect labour costs?**

**Calgary's deck building season is roughly 40% shorter than Vancouver's, running from May through October compared to Vancouver's March through November window, and this compressed timeline does drive up labour costs by 15-25% during peak season.**

The **fundamental difference is Calgary's hard winter freeze versus Vancouver's mild, wet winters.** Vancouver contractors can pour footings, frame decks, and install materials almost year-round, with only the wettest December and January weeks being problematic. Calgary's ground freezes solid from November through March, making excavation impossible and concrete curing unreliable below 5 degrees Celsius. More critically, Calgary's chinook wind cycles create unpredictable freeze-thaw conditions that can damage fresh concrete and uncured finishes, forcing contractors to be more selective about working days.

**This compressed season creates a supply-and-demand imbalance that affects pricing in several ways.** First, Calgary deck contractors must generate their entire annual revenue in roughly six months instead of eight or nine, leading to higher hourly rates during peak season. Second, the limited window creates booking bottlenecks — most reputable Calgary deck builders are fully booked by March or April for the entire summer, allowing them to command premium rates. Third, material delivery and availability becomes more constrained when every contractor in the city is building simultaneously from May through September.

**Calgary's extreme weather also requires more weather-resistant construction methods, adding to costs.**

Footings must reach 4 feet deep instead of Vancouver's typical 18-24 inches, requiring more excavation, concrete, and labour. All fasteners, flashing, and finishes must be rated for extreme freeze-thaw cycling, often costing 20-30% more than standard coastal products. Staining and sealing work requires perfect weather windows — three consecutive days above 10 degrees with no precipitation — which are less predictable in Calgary's variable spring and fall climate.

**The seasonal crunch also affects project scheduling and completion times.** Vancouver contractors can spread complex projects across multiple months, working around weather as needed. Calgary contractors often rush to complete projects before the first hard freeze, sometimes working longer days or weekends to beat the weather. This urgency can drive up labour costs, particularly for late-season projects started in August or September.

**However, Calgary's dry climate does offer some construction advantages that partially offset the shorter season.** Concrete cures faster and more predictably in low humidity, stains and sealers dry more consistently without coastal moisture, and there are fewer rain delays during the core building months of June through August. Vancouver contractors often lose weeks to persistent drizzle that makes outdoor finishing work impossible.

**For homeowners, this seasonal reality means planning ahead is crucial.** Permits should be applied for in February or March, contractors should be selected and booked by April, and material orders should be placed early to avoid summer shortages. Waiting until May or June to start planning often means either paying premium rush rates or waiting until the following year. The compressed season also makes Calgary one of the few Canadian markets where getting multiple quotes becomes challenging — busy contractors may not have time to bid on projects during peak season.

**Need help finding a deck builder who can work within Calgary's seasonal constraints?** Calgary Deck Contractors can match you with experienced contractors from the Calgary Construction Network who understand the local climate challenges and plan their schedules accordingly.

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Q18

## Should I use stainless steel screws on my Calgary deck to prevent rust from the freeze-thaw moisture cycles?

**Yes, stainless steel screws are an excellent investment for Calgary decks, especially given our extreme chinook freeze-thaw cycles that accelerate corrosion of standard fasteners.** While they cost 2-3 times more than galvanised screws upfront, stainless steel fasteners will outlast your deck boards and eliminate the rust staining that plagues Calgary decks within 2-3 years.

Calgary's chinook winds create the most aggressive corrosion environment in Canada for deck fasteners. When temperatures swing from -25°C to +10°C in a single afternoon, snow melts rapidly, saturates deck boards, then refreezes overnight. This constant wet-dry-freeze cycling, combined with road salt carried on chinook winds, attacks galvanised coatings aggressively. Standard galvanised deck screws start showing rust stains on cedar and pressure-treated lumber within 18-24 months in Calgary, and the coating fails completely within 5-7 years.

**Stainless steel grade 316 is the gold standard for Calgary deck construction** — it's marine-grade and handles our moisture cycling, UV exposure at elevation, and temperature extremes without any coating degradation. Grade 304 stainless is acceptable for most deck applications and costs slightly less, but 316 is worth the premium for ledger board connections, joist hangers, and any fasteners in direct contact with pressure-treated lumber (which contains corrosive chemicals). Expect to pay \$0.25-\$0.50 per stainless screw versus \$0.08-\$0.15 for galvanised.

**For composite decking, stainless steel is almost mandatory.** Composite manufacturers like Trex and TimberTech specify stainless steel or their proprietary coated screws to maintain warranty coverage. Standard galvanised screws will rust and stain composite boards, and the rust cannot be removed without damaging the protective cap layer. Most composite decking uses hidden fastener systems anyway, so you're only buying

stainless screws for the substructure framing.

**The math works in stainless steel's favour over a deck's lifetime.** A typical 300-square-foot deck uses roughly 400-600 screws for decking plus another 200-300 for framing connections. The premium for stainless steel runs \$150-\$300 total — less than the cost of one day's labour to replace rusted fasteners in 5-7 years. Factor in the time saved not dealing with rust stains, and stainless steel pays for itself.

**Use stainless steel for these critical applications:** ledger board lag bolts (the most important connection on your deck), joist hanger nails and screws, all decking screws, railing post bolts, and any fasteners penetrating pressure-treated lumber. You can use galvanised for temporary bracing and non-critical connections if budget is tight, but don't compromise on structural fasteners.

**One important note about installation:** Pre-drill pilot holes for stainless steel screws, especially in hardwoods and dense composites. Stainless steel is softer than hardened galvanised screws and can strip or snap if over-torqued. Use a quality impact driver with adjustable torque settings rather than a standard drill.

Need help finding a deck builder who understands Calgary's fastener requirements? Calgary Deck Contractors can match you with experienced professionals who know which materials and techniques work best in our extreme climate.

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## How much snow load does a deck in Calgary need to support and should I reinforce the joists for heavy snowfalls?

**Calgary decks must be designed for a minimum snow load of 1.9 kPa (40 pounds per square foot) under the Alberta Building Code, but the real challenge comes from heavy, wet snow during chinook cycles that can exceed these design loads.**

Standard residential deck construction with 2x8 joists at 16-inch centers can typically handle the code-required snow load, but Calgary's unique weather patterns create conditions that push these limits. During chinook events, snow melts rapidly and then refreezes, creating dense, wet snow that can weigh 400-500 kilograms per cubic metre — nearly three times heavier than fresh powder snow. A 20-centimetre accumulation of this wet snow approaches the maximum design load for a typical deck.

**The biggest risk comes from snow accumulation patterns specific to Calgary's geography.** Wind-driven snow from the prairies can create significant drifting against deck railings, stairs, and under roof overhangs. These drift loads can be 2-3 times the uniform snow load the deck was designed for. Additionally, snow sliding off metal roofing during chinook warming can dump massive concentrated loads onto deck sections below — far exceeding what the structure was designed to handle.

**For most standard attached decks, the existing joist structure is adequate if properly built to code.**

However, you should consider reinforcement in these situations: decks under metal roofing or steep-pitched roofs where snow slides off, large open deck areas over 400 square feet where snow can accumulate uniformly, pergolas and shade structures that catch and hold snow, and any deck section that will support a hot tub (which requires engineering regardless of snow load).

**Reinforcement typically involves reducing joist spacing from 16 inches to 12 inches on center, upgrading from 2x8 to 2x10 joists for longer spans, or adding a center beam to reduce the span length.** For pergolas and overhead structures, this might mean upgrading from 2x8 to 2x10 or 2x12 rafters, adding intermediate posts to reduce beam spans, or installing engineered lumber (LVL or glulam beams) rated for the additional load.

**Practical snow management is equally important as structural design.** Remove snow accumulation over 30 centimetres, especially wet, heavy snow after chinook events. Pay special attention to areas where snow drifts against railings or accumulates under roof edges. Install snow guards on metal roofing above deck areas to prevent sudden snow slides. Consider the orientation of your deck — north-facing sections hold snow longer and accumulate more freeze-thaw cycling.

**When to consult a structural engineer:** If you're planning a large elevated deck over 200 square feet, adding a pergola or shade structure, building in an area prone to heavy snow drifting, or if your deck will be under a steep roof or metal roofing system. An engineer can calculate the specific loads for your situation and design appropriate reinforcement. This typically costs \$800-1,500 but ensures your deck can handle Calgary's worst-case snow conditions safely.

The short building season means any structural modifications should be planned well in advance. Most deck contractors are booked by March for summer construction, and structural work requires permits and inspections that add time to the project timeline.

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Q20

## **When is the best month to start building a deck in Calgary to avoid weather delays and get the best pricing?**

**The best time to start deck construction in Calgary is mid-May through early June, but you should book your contractor and pull permits by February or March to secure optimal timing and pricing.**

Calgary's deck building season is compressed into roughly six months (May through October), which creates a predictable cycle of demand, pricing, and availability. Understanding this seasonal pattern can save you thousands of dollars and months of waiting.

**Early season construction (mid-May to early July) offers the best weather conditions and contractor availability.** The ground has thawed sufficiently for footing excavation, temperatures are consistently above 10 degrees Celsius for concrete curing, and you'll avoid the late-summer rush when everyone realizes they want their

deck finished before Labour Day. May and June also have the most daylight hours and typically the most stable weather patterns before Calgary's peak thunderstorm season in July and August.

**Pricing is most competitive in the off-season (November through March) when contractors are booking for the following year.** Many Calgary deck builders offer 5-15% discounts for projects booked during winter months, as they're eager to fill their spring schedule. Material costs also tend to be lower in winter and early spring, before the seasonal surge in lumber demand. However, be aware that lumber prices can fluctuate significantly based on market conditions and supply chain factors beyond seasonal patterns.

**The worst time to start a deck project is July through September** — peak demand season when contractors are fully booked, rushing between jobs, and charging premium rates. Weather delays from afternoon thunderstorms and hailstorms are most common during Calgary's summer storm season. If you wait until summer to start planning, you'll likely be pushed to late fall construction or the following year entirely.

**Calgary's climate creates specific timing considerations that don't apply in other cities.** Chinook winds can bring sudden warm spells even in winter, but they can also create rapid freeze-thaw cycles that affect concrete curing and material handling. The ground typically thaws by mid-April, but it's wise to wait until early May to ensure stable soil conditions for footing excavation. Staining and sealing must be completed when temperatures will stay above 10 degrees for 48 hours — typically possible from May through September, but watch for early fall cold snaps.

**For the best results, follow this timeline:** Contact contractors in February to get quotes and secure your preferred builder. Pull permits in March (City of Calgary processing takes 2-4 weeks). Schedule construction start for mid-May when ground conditions are optimal. Plan completion by early September to allow time for staining if you're building with wood, and to avoid the risk of early snow affecting final details.

**Material delivery timing matters too.** Composite decking manufacturers often have longer lead times in spring as demand peaks, so ordering materials by March ensures they'll arrive when your contractor is ready to start. Cedar and pressure-treated lumber are generally available year-round, but premium grades may have limited availability during peak season.

Need help finding a deck builder who can work with your preferred timeline? Calgary Deck Contractors can match you with experienced contractors from the Calgary Construction Network who understand the importance of seasonal planning and can provide accurate scheduling for your project.

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**Looking for experienced contractors?** The Calgary Construction Network connects homeowners with qualified professionals:

- Eshine Cleaning Services
- Royland Stucco
- New Earth Waste Services Ltd
- Jk Stucco
- Keystone Exteriors

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## Will Calgary hailstorms damage composite decking and should I choose a harder material if I live in a hail-prone area?

**Composite decking is significantly more hail-resistant than wood decking and will withstand most Calgary hailstorms without damage.** While no outdoor material is completely hail-proof in severe storms, composite's density and flexibility make it much more durable than cedar or pressure-treated lumber during Calgary's frequent hail events.

**Why composite performs better in hailstorms:** Modern capped composite decking (Trex, TimberTech, Fiberon) has a dense core wrapped in a protective polymer shell that absorbs impact energy rather than cracking or splintering like wood. The material's slight flexibility allows it to flex under impact and return to its original shape, while wood — particularly soft cedar — dents permanently or splits when struck by large hail. Pressure-treated lumber is harder than cedar but still more vulnerable than composite due to its fibrous structure and tendency to check and split along the grain.

**Calgary's hailstorm reality:** Calgary experiences some of Canada's most severe hailstorms, with stones reaching golf ball size (4+ centimetres) in major events. The 2020 and 2021 hailstorms caused hundreds of millions in property damage across the Calgary region. While these extreme events can damage any outdoor material, composite decking typically shows only minor surface scuffing where wood decking would show deep gouges, splits, or punctures. Most composite manufacturers include hail damage in their warranty coverage, recognizing the material's superior impact resistance.

**Material recommendations for hail-prone areas:** If you live in a particularly hail-prone area of Calgary (typically the southern and western communities that see the most severe storms), composite decking is your best choice for durability. PVC decking (Azek, TimberTech Advanced PVC) is even more impact-resistant than standard composite due to its solid polymer construction, though at a higher cost (\$12-20 per square foot versus \$10-18 for composite).

Avoid cedar entirely in high-hail areas — its soft grain structure makes it the most vulnerable decking material to impact damage.

**Railing considerations are equally important:** Aluminum railings handle hail much better than wood railings and won't show the dents and dings that plague wood systems after storms. However, glass railing panels are vulnerable to hail damage and should be avoided in hail-prone areas despite their aesthetic appeal. Cable railings offer good hail resistance and maintain clean sight lines. If you choose glass, ensure it's tempered safety glass and consider the replacement cost — glass panels can run \$200-400 each to replace after hail damage.

**Beyond material choice:** No decking material is maintenance-free after severe hail, but composite requires only cleaning to remove debris and checking for any loose fasteners. Wood decking hit by large hail often needs board replacement, re-staining of damaged areas, and structural inspection if the impact was severe enough to split boards or damage the substructure.

**When to hire a pro:** After any major hailstorm, have a deck contractor inspect your deck's structural components, even if the surface appears undamaged. Hail can loosen fasteners, damage flashing around ledger boards, and stress connection points that aren't immediately visible but could lead to safety issues over time.

Need help finding a deck contractor experienced with Calgary's climate challenges? Calgary Deck Contractors can match you with professionals who understand hail-resistant materials and proper installation techniques for our unique weather conditions.

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**Looking for experienced contractors?** The Calgary Construction Network connects homeowners with qualified professionals:

- Jk Stucco
- PLATINUM Pool & Spa Services Ltd
- Wise Abatement
- Calgary Garage Builders Ltd
- Upper Cut Landscaping LTD

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## How do Calgary's chinook freeze-thaw cycles affect deck materials and what can I do to minimize the damage?

**Calgary's chinook winds create the most extreme freeze-thaw cycling of any major Canadian city, causing rapid temperature swings that can damage deck materials faster than normal seasonal changes.** When temperatures jump from -25°C to +10°C in a single afternoon, every material on your deck expands and contracts violently, leading to fastener failure, finish cracking, board warping, and accelerated structural wear.

### Understanding Chinook Damage Patterns

The rapid temperature swings cause several specific problems. Wood deck boards expand and contract at different rates than their fasteners, causing screws and nails to work loose or "pop" above the surface. This creates trip hazards and allows moisture penetration. Stains and sealers crack and peel when they can't flex with the rapid dimensional changes, leaving wood exposed to moisture infiltration. End grain on cut boards is particularly vulnerable — chinook moisture from rapid snow melt penetrates deeply, then refreezes and expands, splitting the wood from the inside out.

Composite decking handles chinook cycling much better than wood due to its consistent density and engineered flexibility, but even composite can experience fastener loosening if not properly installed with manufacturer-specified hidden fastener systems. The thermal expansion coefficient of composite is different from wood substructure, so the decking and framing move at different rates during temperature swings.

### Material Choices for Chinook Resistance

**Composite decking (\$40-70 per square foot installed) is your best defense against chinook damage.** Modern capped composites like Trex Transcend or TimberTech Legacy are engineered to handle extreme temperature cycling without the warping, splitting, and checking that plague wood decks. They maintain dimensional stability through chinook swings and don't require the annual maintenance that wood demands.

If you prefer natural wood, **cedar with proper end-grain sealing and annual maintenance** performs better than pressure-treated lumber in Calgary's cycling. However, you must commit to re-staining every 1-2 years and immediately sealing any new cuts or drill holes to prevent moisture penetration. Pressure-treated lumber is the most vulnerable to chinook damage due to its high initial moisture content and tendency to warp as it dries.

### Critical Construction Details

**Fastener selection is crucial for chinook resistance.** Use only galvanized or stainless steel fasteners rated for exterior use and extreme cycling. For wood decking, choose screws over nails — screws maintain their hold better

through expansion and contraction cycles. Pre-drill holes for deck screws to prevent splitting, especially near board ends. For composite decking, use only manufacturer-specified hidden fastener systems or color-matched composite screws.

**End-grain sealing is non-negotiable in Calgary.** Every cut end of every deck board must be sealed with end-grain sealer or extra coats of stain within 24 hours of cutting. This prevents chinook moisture from penetrating the vulnerable end grain and causing splits. Pay special attention to stair stringers, railing posts, and anywhere boards are cut to fit.

**Proper flashing and drainage** become even more critical with chinook cycling. Install galvanized or stainless steel flashing at all ledger board connections, and ensure it extends well beyond the connection point. Chinook melt-water can be driven horizontally by wind, so standard flashing may not be adequate. Consider adding a drip edge below the flashing to direct water away from the structure.

### **Maintenance Timing for Calgary's Climate**

**Inspect your deck after every major chinook event** — particularly in late winter when the cycling is most severe. Look for popped fasteners, new cracks in wood, and any signs of moisture penetration. Tighten loose screws immediately and seal any new cracks or splits.

**Annual staining should be done in late spring (May-June) after the worst chinook activity has passed** but before Calgary's intense summer UV begins its damage. Choose a high-quality exterior stain with UV blockers and flexibility additives designed for extreme climate cycling. Semi-transparent stains generally perform better than solid stains in Calgary's conditions because they allow wood movement without cracking.

### **When to Call a Professional**

While you can handle annual maintenance and minor repairs yourself, **structural issues from chinook damage require professional assessment.** If you notice the deck pulling away from the house, significant warping in joists or beams, or multiple fastener failures, have a qualified deck contractor evaluate the structural integrity. Chinook damage can compromise the safety of elevated decks, and repairs often require temporary shoring and specialized knowledge of load paths and connections.

Find experienced deck contractors who understand Calgary's unique climate challenges through the Calgary Construction Network directory — they'll know the proper construction details and materials to minimize future chinook damage.

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**Looking for experienced contractors?** The Calgary Construction Network connects homeowners with qualified professionals:

- New Earth Waste Services Ltd
- Mike's Restoration Service
- Venkor Group Inc
- Amar Homes Inc
- Upper Cut Landscaping LTD

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