

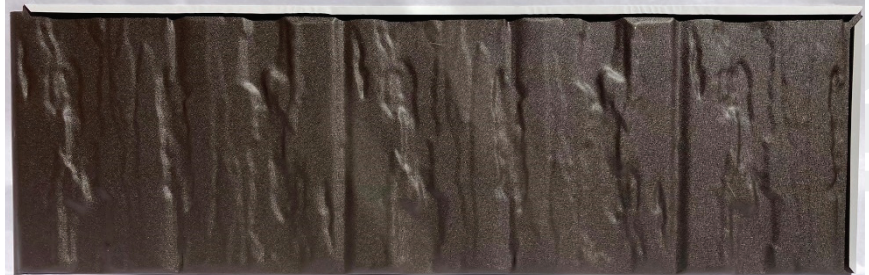
# TECHNICAL SHEET

## NORTHERN SLATE METAL SHINGLES



### DESCRIPTION

Textured metal shingle roofing system with a relief imitating the profile of slate tiles. The embossed relief is made by an industrial press, creating two slate tile patterns arranged to form a metal shingle with five slate tiles per shingle.



The shingles are shaped with stapled joints on all four sides and individual fasteners for a system with no visible fasteners.

This lightweight metal shingle system is extremely resistant to wind and snow loads. The product's rigidity and embossed relief configuration ensure that the cladding performs well against impact damage and roof traffic.

### APPLICATION

Ardoise Nordic metal shingles are designed for use as metal cladding for pitched roofs. This cladding offers a superior aesthetic result to traditional asphalt shingles, and a lightweight alternative to claddings such as slate or clay (terracotta) tiles.

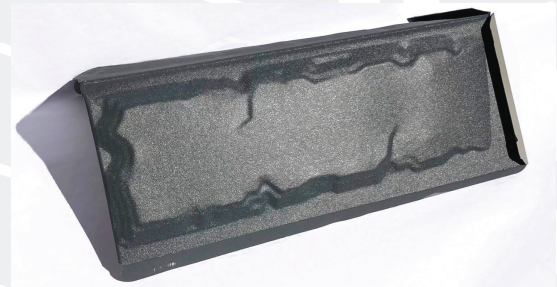
The lower part and left side of the shingle are folded with the male section of the staple, while the upper part and right side of the shingle are folded with the female section, all to form a complete staple during installation.

The shingles are cut (trenched) and the staple folds are made at the factory, ready for installation.

### ACCESSORIES

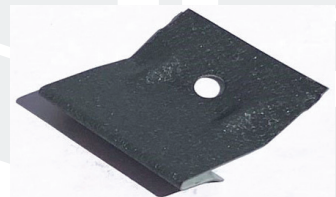
#### ◆ Ridge

The Ardoise Nordic metal shingle system has been developed with embossed ridge caps that reproduce the same relief as the shingle sections, imitating the profile of a slate tile. Individual ridge sections are embossed by an industrial press and shaped in the factory with staples, male and female sections at the ends.



#### ◆ Fastener

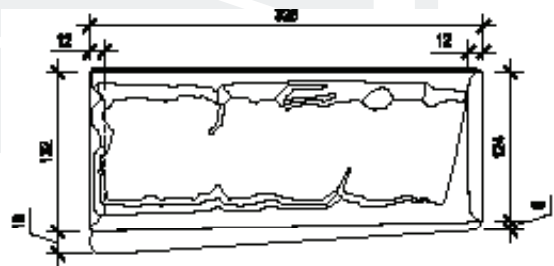
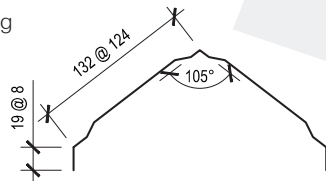
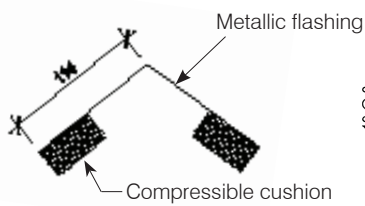
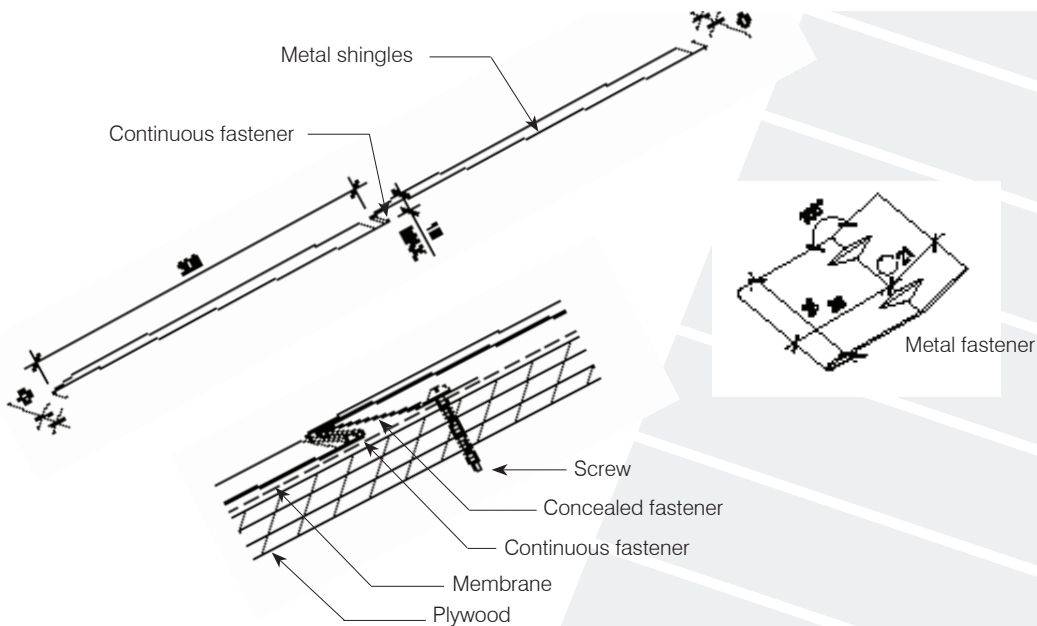
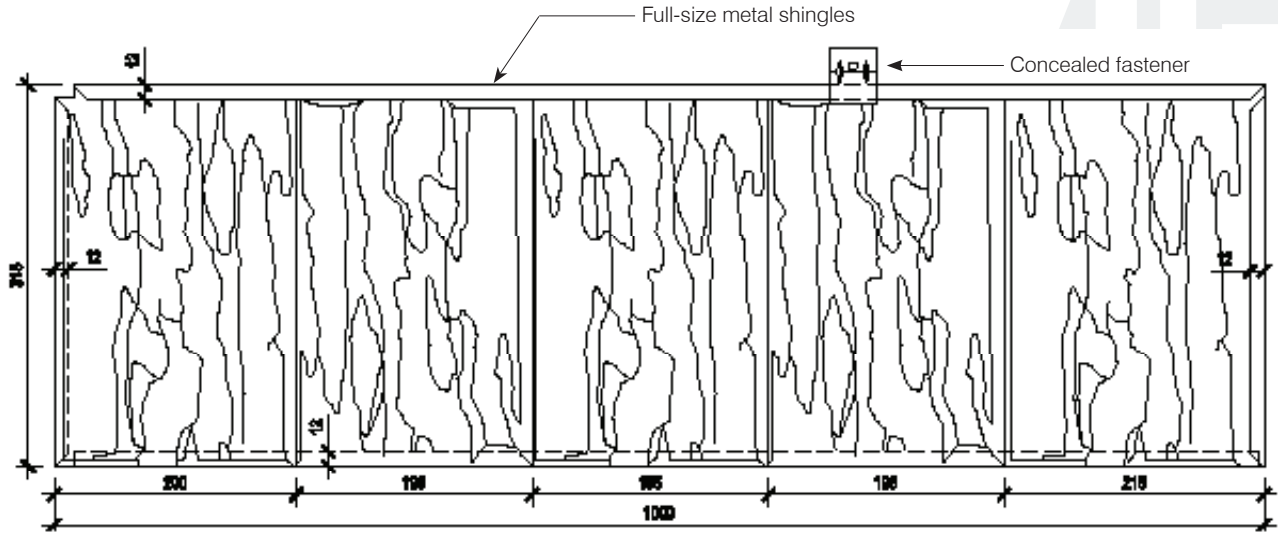
Fasteners are prefabricated and delivered ready for installation. The fasteners are bent at an angle to ensure a «spring» effect, creating a force to keep the metal shingle perfectly pressed against its substrate. In addition, the fasteners are pre-drilled and double-embossed for reinforcement on both sides of the opening. The fasteners are designed to be concealed during installation and to allow thermal movement of the metal cladding.



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## MATERIALS

Metal shingle

- ◆ Pre-painted textured steel: 26 gauge.

## FASTENING

- ◆ Concealed fastener design.
- ◆ Screw recommended by Vaillancourt for this type of application: 25 mm (1 in.) length in #10 galvanized steel (4.72 mm or 0.186 in.) with low-profile pancake head, 11 mm (0.435 in.) in diameter.

## SLOPE

This cladding system can be installed on all roofs with a minimum slope of 3 in 12.

## INSTALLATION

Metal shingles must be installed on a solid, continuous and uniform substrate.

**Substrate recommended by Vaillancourt :** plywood minimum thickness 15.5 mm (5/8«).

**Sealing membrane :** a full-surface waterproofing membrane must be installed on the substrate before the metal cladding is applied.

**Membrane recommended by Vaillancourt :**

- ◆ 1 mm (40 mils) thick, self-adhesive, self-sealing SBS polymer-modified bitumen-based membrane. A high-temperature membrane with a high softening point is suggested under dark-colored coatings..
- ◆ Triple-layer vapour-permeable synthetic membrane in spun-bonded polypropylene, thickness 0.6 mm, with high water vapor transmission coefficient.

Membranes must be specified by the project professional (architect or consultant) based on the roofing system and roof configuration, all in accordance with applicable code requirements.

### Installation :

Each shingle is anchored with concealed fasteners. Concealed fasteners are installed in the female section of the top clip at a rate of three (3) fasteners per section of solid metal shingle. Fasteners are anchored to the substrate with screws (fastening recommended). All sections of cut metal shingles (reduced length) must be secured with a minimum of two (2) fasteners..

The first starter course, at the bottom of the roof, the metal shingles are stapled to a starter moulding..

For aesthetic uniformity, install metal shingles from left to right, in the following order :

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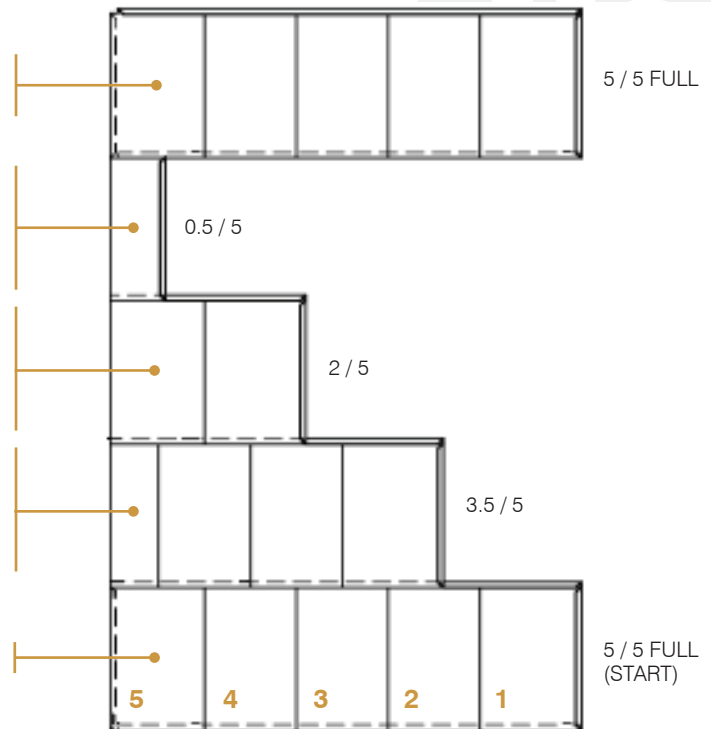
**Fifth row :** Install a full shingle and repeat the previous steps.

**Fourth row :** Cut the shingle at the center of the fifth slate tile pattern, keeping only 0.5/5 of the full shingle. Shape a male staple on the left end of the cut metal shingle.

**Third row :** Cut the shingle in the fold between the third and fourth slate tile pattern, keeping only 2/5 of the full shingle. Shape a male staple on the left end of the metal shingle.

**Second row :** Cut the shingle at the center of the second slate tile pattern, leaving only 3.5/5 of the full shingle. Shape a male staple on the left end of the metal shingle.

**First row :** Start with full shingles.



Suggested laying patterns (number indicates slate tile pattern)

### ADVANTAGES

- ◆ System with no visible fasteners.
- ◆ Durable
- ◆ Light
- ◆ No maintenance required \*
- ◆ High wind resistance
- ◆ Anti-warping

\* With the exception of sealants around projections and others to be specified according to building configuration.

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## COLORS

The coating is offered in the Vaillancourt textured color chart specific to corrugated coating and selected from the «Wrinkle SMP textured» color line from Baycoat. :

- ◆ QC 9798 : Sepia brown



- ◆ QC 9822 : Ebony



- ◆ QC 9821 : Graphite



- ◆ QC 9999 : Deep gray



**Note :** The colors shown above are for information and comparison purposes only and cannot be used as is. Please contact your Vaillancourt representative for any sample request or additional technical information.

## WARRANTY

**Installation :** 10 years (when installed by Vaillancourt).

**Materials :** 40 years.