



# Specification Guide and Installation Overview

XERIPAVE LLC, 815 NE 172<sup>nd</sup> Ave, Vancouver, WA 98684



# Xeripave™

## Guide to Specification

### PART ONE – GENERAL

#### **1.1 SCOPE OF WORK**

Supply materials, labor, transportation, services and equipment necessary to supply and install Xeripave® as indicated on drawings and specified herein.

#### **1.2 PERFORMANCE REQUIREMENTS**

1. Permeability to be not less than 25 gallons per minute per square foot.
2. Water absorption into paver to be zero in accordance with ASTM C-293
3. Static coefficient of friction ASTM C-1028
  - (a) Wet: 0.50 -0.60
  - (b) Dry: 0.60 - 0.70
4. Bulk density of paver to be the amount specified for the paver type and size selected (bulk density of pavers varies with type and size of stone selected).

#### **1.3 QUALITY ASSURANCE**

- A. Manufacturer must be a company licensed to manufacture Xeripave®, utilizing approved manufacturing equipment, materials, and processes.
- B. Installation must be by a contractor with more than 1 year of experience or considered certified in placing permeable pavers on projects of similar nature or dollar cost.
- C. Installation contractor shall conform to all local, state/provincial licensing and bonding requirements.

#### **1.4 SUBMITTALS**

- A. Submit installation instructions as recommended by manufacturer.
- B. If required, submit full size sample sets of Xeripave® units to indicate color, shape, stone type and size selected. Stone type and paver color will be selected by Architect / Engineer / Landscape Architect / Owner from available product range.
- C. Indicate layout pattern, and relationship of paving joints to fixtures and project formed details.
- D. Submit two copies of written instructions for recommended maintenance.



## **1.5 PROJECT CONDITIONS**

- A. Do not install pavers in heavy rain or snowfall
- B. Do not install pavers over frozen subgrade or base materials

## **1.6 PRODUCT DELIVERY, STORAGE AND HANDLING**

A. Packaging and Shipping: Xeripave® Pavers to be stretch wrapped in layers, banded on pallets and delivered in original unopened packaging with legible manufacturer identification, including size, quantity.

## **1.7 WARRANTY**

A. Manufacturer / installer shall warrant the installed system against failure of workmanship and materials.

## **1.8 MAINTENANCE**

A. Extra Materials: Deliver supply of maintenance materials to owner. Furnish maintenance materials from the same lot of materials installed, and enclosed in protective packaging with appropriate identifying labels.

1. If requested, supply not less than 1 percent of total product installed as maintenance stock.

## **PART TWO – PRODUCTS**

### **2.1 PERMEABLE PAVERS**

A. Manufacturers

1. Acceptable Manufacturer

Manufacturer Licensed to manufacture permeable pavers using the Xeripave® technology.

2. Drawings and installation specifications are based on propriety literature from the owners of the Xeripave® technology.

### **2.2 MANUFACTURED UNITS**

A. Pavers

Sizes: 300mm x 300mm x 50mm (actual)

300mm x 300mm x 100mm (actual)

400mm x 400mm x 50mm (actual)

Face: With radius edges

Finish: Natural stone surface

Color: Color selected from manufacturer's available stone colors.



## **2.3 FABRICATION**

A. Manufactured according to methodology related to the Xeripave® technology.

## **2.4 SUB-BASE, BASE, AND BEDDING LAYERS**

A. All sub-base, base, and bedding material shall be fines free, and will, wherever practical, be washed to remove dust and foreign material.

## **PART THREE - EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that sub grade preparation including compacted density conform to the specifications.
- B. Verify that aggregate base materials, thickness, compaction, and elevations conform to specifications.
- C. Verify location, type, installation and elevation of edge restraints required for the installation.
- D. Verify that base is dry, uniform, even and ready to support pavers and imposed or anticipated vehicular loads.

### **3.2 INSTALLATION (see also Xeripave® Installation Guide for more information)**

- A. Sub-base, base, and bedding layers should be composed of free drainage material. Sand is not acceptable. Use minimum 100mm (4 inch) layer of (37.5mm) 1 ½ in. to (2.36mm) No. 8 clean crushed aggregates (ASTM No. 57). Compact base layer in lifts.
- B. Spread a bedding layer of 25 mm thick (1 in) of material (no dust or undersize particles) ½ in. to No. 16 (12.5mm to 1.16mm), or ASTM No. 8 stone over the base layer. Once spread and screeded, the bedding should not be disturbed. Do not use bedding mix to fill depressions in base surface. (Use compactor to achieve minimum 95% compaction in vehicular and grouted applications only, unless instructed to do so by the design professional.)
- C. Ensure that pavers are free of foreign materials before installation.
- D. Lay pavers from permanent edge restraint in the pattern as shown on the drawings. Use string lines to keep paving joints straight.
- E. Use masonry saw fitted with a continuous rim diamond blade, with continuous water feed to cut pavers.
- F. Lay pavers on prepared surface. If applicable, make gaps between pavers (grout strips) uniform by inserting spacers between the pavers.
- G. Set pavers hand tight but do not use hammer to adjust pavers. Secure and level pavers using appropriate plate vibrator (cover plate



with rubber or like to avoid damage to pavers). Trafficable areas should receive 4 passes with the plate compactor.

H. If applicable, insert polyfoam spacer specified by design professional, and apply specified grouting mixture with trowel, grout bag, or mortar bag, ensuring exposed surfaces are protected from spillage. Overfill joints and strike in mixture with pointing tool.

**Again, see Xeripave Installation Guidelines, or contact manufacturer for more information.**