When installing pervious pavement, the following design criteria should be considered.

- An open-graded base of crushed stone, which has 35 to 45 percent pore space, is installed below the surface pavement. The recommended base thickness is 6 inches for pedestrian use and 10 inches for driveways to provide adequate structural strength.
- Slope is flat or nearly flat (not greater than 2 percent).
- Flow directed to pervious pavement is dispersed so as not to be concentrated at a small area of pavement.
- No erodible areas drain onto the pavement.
- The subgrade is uniform and compaction is the minimum required for structural stability.
- If a subdrain is provided, its outlet elevation is a minimum of 3 inches above the bottom of the base course.
- A rigid edge is provided to retain granular pavements and unit pavers.
- If paving is close to a building, a barrier or impermeable liner may be required to keep water away from the building foundation.
- Pavers have a minimum thickness of 80 mm (3 1/8 inches) and are set in sand or gravel with minimum 3/8-inch gaps between pavers.
- Proprietary products must be installed per the manufacturer's specifications.
- The project complies with applicable sections of the current municipal code, including disabled access requirements and site drainage requirements, if applicable.

Maintenance Considerations

Once pervious pavement is installed, the following maintenance criteria should be followed:

- The use of leaf blowers on permeable pavement can force dirt and debris into pavement void spaces. Avoid blowing leaves, grass trimmings and other debris across permeable pavement.
- Remove weeds from pavement and replace missing sand or gravel between pavers as needed.
- Inspect subdrain outlets (if applicable) yearly to verify they are not blocked.
- Inspect pavement after rains for ponding or other visible problems. If there are problems with standing water, vacuum sweeping with specialized equipment may be required. Concrete grid pavers do not require sweeping.

Is Pervious Pavement Feasible for My Project?

Pervious pavement is appropriate in locations with the following characteristics:

- The location is flat or nearly flat (a maximum 2% slope).
- The location is not in a seasonally wet area.
- The location is not close to a building foundation, unless measures are taken to prevent infiltration under the structure. (See Design Checklist.)
Typical Materials and Example Applications

Pervious Concrete

Optional geotextile on bottom and sides of open-graded base

No. 57 stone subbase – thickness varies with design

Soil subgrade

Pervious Concrete
Typ. 5 to 8 in. (125 to 200 mm) thick

Permeable Interlocking Concrete Pavers

4 in. (100 mm) thick No. 57 stone open-graded base

No. 2 stone subbase – thickness varies with design

Optional geotextile on bottom and sides of open-graded base

Note: ASTM No. 3 or 4 stone may be substituted for No. 2 stone.
ASTM No. 89 or 9 stone may be used in the paver openings.

Turf Block

Topsoil

Edge restraint

Existing compacted soil sub-grade

Base extends 12 in. (300 mm) beyond grid perimeter

Concrete grid

1/2 in. to 1 in. (13 to 25 mm) bedding sand

Grass

Geotextile (as required)

Soil subgrade

Compacted aggregate base

Porous Asphalt

3 to 6 in. stone for overflow drainage

Porous asphalt, Typ. 3 in. (75 mm) thick

Bedding course, Typ. 2 in. (50 mm) thick
(Typ. No. 57 stone)

No. 2 stone subbase – thickness varies with design

Geotextile on bottom and sides of open-graded base

Note: ASTM No. 3 or 4 stone may be substituted for No. 2 stone.
ASTM No. 89 or 9 stone may be used in the paver openings.