PART 1  GENERAL

1.1  Summary

.1 Unless otherwise indicated, follow the standards below when specifying prefabricated unit paving. These standards are not intended to restrict or replace professional judgment.

1.2  References

.1 Products and execution must meet or exceed the most recent version of the following standards.

.2 Canadian Standards Association (CSA)

.1 CAN/CSA A23.1 Concrete materials and methods of concrete construction.
.2 CAN/CSA A23.2 Test methods and standard practices for concrete.
.3 CAN/CSA A231.2 Precast Concrete Pavers.
.4 CAN/CSA A283 Qualification Code for Concrete Testing Laboratories

.3 American Society for Testing and Materials (ASTM)

.2 ASTM C979/C979M Standard Specification for Pigments for Integrally Colored Concrete.

.4 Government of Quebec

.1 Bureau de normalisation du Québec (BNQ)

.1 NQ 2624-120 Pavé de béton préfabriqué.

PART 2  PRODUCTS

2.1  General

.1 Cleaning Products and Sealant.

.1 Cleaning products and sealants for prefabricated units paving are not desirable.

.2 Dimension tolerances

.1 ± 3 mm in thickness, max.
.2 ± 2 mm in length or width, max.

2.2  Prefabricated Concrete Units

.1 Concrete Properties

.1 Precast concrete units must comply with the requirements of the CSA-A231.1 and the CSA-A231.2 standards, including:

.1 Compression resistance: 50 MPa min.
.2 Absorption: 5% max.

.3 Freeze/Thaw:
   .1 225g/m² after 28 cycles, max.
   .2 500g/m² after 49 cycles, max.

.2 Pigments used to colour concrete pavers: conforming to the ASTM C 979/C979M standard.

.2 Vehicular areas
   .1 In areas where vehicular traffic (regular or occasional) will occur:
      .1 Pavers must respect a 3:1 ratio (length vs. width).
      .2 Pavers shall never have dimensions greater than 300 mm x 300 mm
      .3 Pavers shall have a minimum thickness of 100 mm.

.3 McGill Standard Collection
   .1 Type 1
      .1 Thickness: 100mm.
      .2 Nominal dimensions:
         .1 300mm x 300mm.
         .2 150mm x 300mm.
      .3 Shall be either of the following, or equivalent:
         .1 « Avenue Autoblocking RL » as manufactured by Bolduc.
            .1 Colours:
               .1 Light Gray.
                  .1 This colour contributes to a reduction of heat island effect.
               .2 Smoke Gray.
                  .2 Finish: Regular.
         .2 « Boulevard TLI 100mm » as manufactured by Permacon.
            .1 Colours:
               .1 Cinder Grey.
                  .1 This colour contributes to a reduction of heat island effect.
               .2 Charcoal.
                  .2 Finish: Standard.

2.3 Prefabricated Lattice Concrete Units
   .1 Prefabricated lattice concrete units are not desirable as a prefabricated paving unit material.
2.4 Granite Units

.1 Granite Properties

.1 Refer to section 31 35 00 Natural Stone.

.2 McGill Standard Collection

.1 Nominal dimensions

.1 300mm x 300mm.

.2 150mm x 300mm.

.3 A number of oversized pieces (such as 600mm x 300mm) should be planned, to avoid small pieces in awkward locations during installation.

.2 Thickness : 100mm.

.3 A 5mm chamfer is required on the edges of the top surface.

2.5 Limestone Units

.1 Limestone is not desirable as a prefabricated paving unit material in high traffic areas.

2.6 Bedding material

.1 Shall be stone screening, granitic in composition.

2.7 Joint sand

.1 Shall be Nextgel HP from Techniseal, or approved equivalent:

.1 Colour: Urban Grey for prefabricated concrete units.

2.8 Material Requirements:

.1 Do not request to the general contractor the surplus for replacement.

PART 3 EXECUTION

.1 General

.1 Prefabricated unit pavings should be installed according to industry standards, on ±20mm of bedding material atop a concrete slab.

.1 Nominal dimensions should be respected during installation. Contractor should not abut paving units one against each other.

.2 Top edge of cut pavers must have a new 5mm chamfer created. Contractor must provide execution sample to ensure chamfer appearance is acceptable.

.3 Joint sand must be installed without delay following paver installation, to avoid debris within the joints.

END OF SECTION