TURFSTONE LINIA 100 PAVER

PEDESTRIANS & BICYCLES
CARS
MID-SIZE VEHICLES



TURFSTONE LINIA 100 PAVER

	HEIGHT X WIDTH X LENGTH CM / IN		
	10 x 30 x 45	$3^{15/16}$ x $11^{13/16}$ x $17^{3/4}$	
Units/Surface	7,4 / m^2	0,69 / ft^2	
Qty/row	1,08 m^2	11,63 ft^2	
Qty/cube	7,56 m^2	81,38 ft^2	7 rows
Weight/unit	17,6 kg	38,80 lb	
Weight/cube	1015 kg	2238 lb	

55% opening area
ASTM C1319 standard

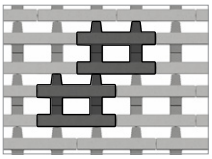
COLOUR
Grey (2)
Avenue (1)

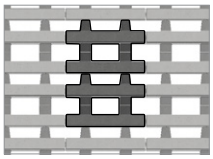
FINISH
Regular

Note 1: Prices for Avenue colours and finishes are available upon request.

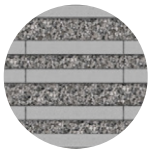
Note 2: Products available from inventory.

PATTERNS


Half paver runner pattern


Checker pattern

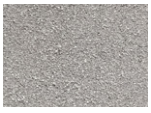

Half paver runner pattern with turfstone


Checker patter with stones

AVENUE SERIES COLOURS


Granite grey


Light grey


Silver grey


Smoke grey

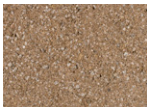

Anthracite


Opal white


Ivory

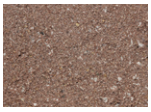

Light beige

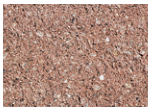

Sahara beige

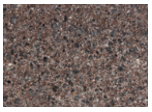

Burned Beige

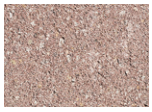

Sandhill beige

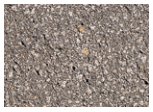

Salmon


Clay red


Red


Burgundy


Caledonia pink


Brown


Bistre

Avenue Series colours and finishes are available upon request, minimum quantity required.

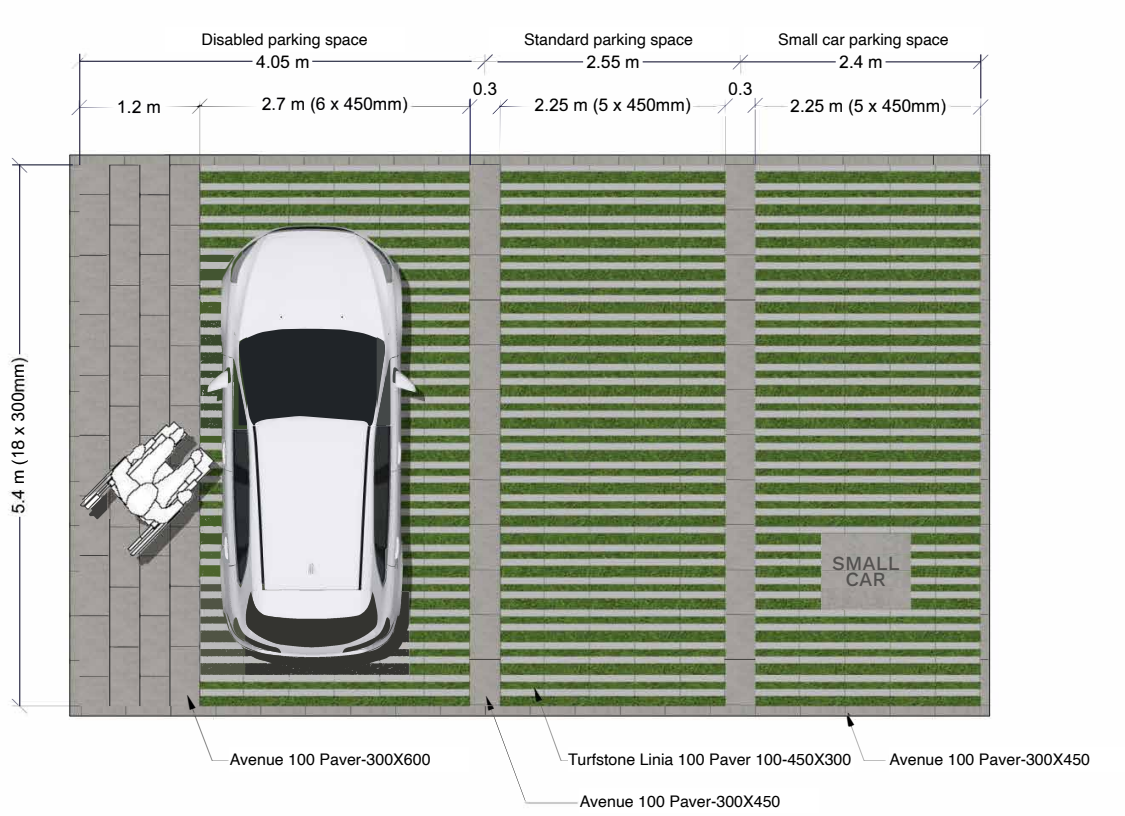
Colours contributing to LEED program solar reflective indices can help reduce the heat island effect in urban settings.

BOLDUC
CONCRETE PRODUCT MANUFACTURER

CANADA : 1 800 463-8966
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TURFSTONE LINIA 100 PAVER

EXAMPLES OF A PARKING AREA



TURFSTONE LINIA 100 PAVER

SUMMARY - CONCRETE TURFSTONE PAVERS

CONTEXT

Urban development promotes urban heat and rainwater runoff. Urban heat islands, caused by impermeable pavements and buildings, increase pollution and energy consumption. Runoff erodes waterways and contaminates drinking water sources while reducing groundwater recharge. Concrete turfstone pavers, designed to mitigate these effects, allow for water infiltration and cool surfaces. Introduced in Germany in 1961 for parking lots, these pavers have since been used in Europe and North America to limit erosion and support infrastructure such as parking areas, boat ramps, and emergency access routes.

PROPERTIES

Defined by ASTM C1319 standards, concrete turfstone pavers measure up to 610 x 610 mm (24 in x 24 in) with a minimum thickness of 80 mm (3 1/8 in). They have an average compressive strength of 35 MPa and a water absorption rate of less than 6%, making them resistant to freeze/thaw cycles. These pavers can be grid or scalloped in shape, and their solid surface area ranges from 45% to 75%.

DESIGN AND CONSTRUCTION

Concrete turfstone pavers are installed on a compact granular foundation with a sand or stone screening bedding layer. The openings can be filled with topsoil and turf or aggregate depending on use. The choice between turf or aggregate in the openings depends on the intended usage intensity. Most turfs require at least five hours of sunlight per day to thrive. Foundations must be thick enough to support loads; typically, the thickness required under asphalt surfaces is adequate for concrete turfstone pavers. For foundations on poorly drained soils, it is advisable to use a perforated plastic drainage pipe wrapped in geotextile to remove water accumulation.

DESIGN FOR REDUCING RUNOFF

Concrete turfstone pavers effectively reduce rainwater runoff by promoting infiltration into the soil, unlike traditional impermeable surfaces. They have a runoff coefficient between 0.2 and 0.4, much lower than surfaces like asphalt. This simulates conditions close to natural spaces, thereby reducing flood risks and alleviating pressure on drainage systems. Filling the openings with aggregate further enhances this capability. These pavers represent a sustainable solution for rainwater management while contributing to groundwater recharge and ecosystem protection.

MAINTENANCE AND USAGE

Pavers require normal turf maintenance, such as watering, mowing, weeding, and occasional fertilization. Openings in the pavers can be filled with aggregate in case of intensive use or if the owner prefers not to maintain the turf.

COMBATING URBAN HEAT ISLANDS

Turfstone paver surfaces help reduce heat islands by lowering local temperatures, thereby creating more comfortable urban microclimates. Concrete turfstone paver pavements are a proven solution for cooling urban climates and reducing air pollution.

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