

Flexural Strength (CSA A231.1-14)

PRODUCT	TEST DATE	WIDTH AND DEPTH AT FAILURE (mm)	STRENGTH (Mpa)
50mm Slabs	26/08/2020	330 and 49.6	6.85
45mm Slabs	08/05/2019	600 and 44.9	5.30
Solar Reflective Slabs	09/08/2017	600 and 43.9	5.50

Compressive Strength (CSA A231.3-14, ASTM C140-09)

PRODUCT	TEST DATE	CUBE SIZE (mm)	STRENGTH (Mpa)
Pavers	30/04/2019	78.6	66.8
50mm Slabs	26/08/2020	49.6	61.5
Retaining Walls	23/05/2019	10424	34.6

*cross sectional area (mm2)

Water Absorption (CAN/CSA-23.2-11C, A231.1-14, ASTM C140)

PRODUCT	TEST DATE	SSD DENSITY (kg/m3)	ABSORPTION %
Pavers	30/04/2019	2205	3.9
50mm Slabs	26/08/2020	2313	2.3
45mm Slabs	13/05/2019	2264	3.6
Solar Reflective Slabs	09/08/2017	2304	3.8
Retaining Walls	23/05/2019	2196	3.7

Solar Reflectance Index

Colour	SRI
Beige Mix	27
Buff Brown	21
Carrara	30
Driftwood*	29
Glacier Creek*	34
Golden Meadow	20
Grey*	35
Grey Mix	24
Kashmir Blend*	33
Red	27
Red Mix	22
Sahara Blend*	31
Salmon	26
Salmon Mix	21
Pearl	44
White (Basketweave)*	51
White (SR Paver)**	82

Freeze-Thaw Durability (CSA A231.1-14, ASTM C1262, ASTM C1645-06)

PRODUCT	ACCUMULATIVE LOSS IN MASS (g/m2)	
	7 CYCLES	28 CYCLES
Pavers	3.7	21.4
50mm Slabs	2.2	29.4
45mm Slabs	12	90.9
Solar Reflective Slabs	3.6	9.9
	20 CYCLES	60 CYCLES
Retaining Walls	0.08	0.9

Permeable Paver Infiltration (ASTM C170, ASTM C1701 M-09)

MODERNA	JOINT WIDTH (mm)	WATER WEIGHT (G)	M INFIL RATE (mm/h)
Herringbone	5.7	18	64,212
Running Bond	11.5	18	78,825

*Meet LEED (29) non-roof

**Meet LEED (80) rooftop