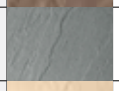
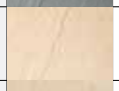
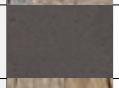
SOLAR REFLECTANCE Index

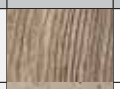
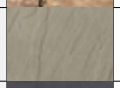
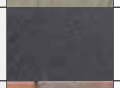
Solar Reflectance Index (SRI) is a composite measure that combines surface's solar reflectance and emittance. Essentially, the SRI is an indicator of how well a surface reflects (reflectance) and release absorbed solar radiation (emittance). The lower the SRI, the hotter a material is likely to become in the sunlight. High SRI surfaces can help reduce the urban heat island that causes cities to stay warmer which contributes to increase energy consumption for air conditioning systems and air pollution.

Summary of LEED® criterion for credits on heat island reduction applicable to paving products for non-roof and parking cover applications (minimum values):

			INITIAL	3-YEAR AGED
NON-ROOF APPLICATIONS	LEED 2009	Solar Reflectance Index (SRI)	29	-
	LEED v4	Solar reflectance	0.33	0.28
PARKING COVER APPLICATIONS	LEED 2009	Solar Reflectance Index (SRI)	29	-
	LEED v4	Solar Reflectance Index (SRI)	39	32

Solar reflectance and SRI values for Techo-Bloc landscaping products, as tested by independent testing laboratory:

COLOR	SWATCH	SOLAR REFLECTANCE	SOLAR REFLECTANCE INDEX (SRI)
Autumn red		0.15	14
Azzurro		0.15	12
Baja Beige		0.38	42
Beige Cream		0.30	32
Brazilian sand		See note below	
Brushed pewter		See note below	
Champlain grey		0.23	25
Charcoal		See note below	
Chestnut brown		0.23	25
Chocolate brown		See note below	
Coral Sands		0.40	45
Grey		0.30	34
Greyed Nickel		0.32	35
Harvest gold		0.18	18

COLOR	SWATCH	SOLAR REFLECTANCE	SOLAR REFLECTANCE INDEX (SRI)
Hazelnut Brandy		0.23	23
Ivory		0.46	53
Mojave beige		0.26	29
Olive		0.17	15
Onyx black		See note below	
Red & black		See note below	
Riviera		0.20	19
Rock Garden Brown		0.21	20
Sandlewood		0.21	23
Sauvignon Oak		0.35	38
Shale grey		0.24	26
Smoked Pine		0.12	9
Victoria		0.36	40

Note: Since the overall objective of the SRI is to encourage light colored surfaces, these colors were not tested either because of their darkness or they were not applicable to paving products.