

Standard Carriage Green versus Energy Star Carriage Green

The reported information below is done in accordance with ASTM E 1980-01. The comparative data is based upon an ambient air temperature of 37° C. The highlighted numbers represent the Solar Reflectance Index and product surface temperatures.

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	STANDARD CARRIAGE GREEN		
Thermal emittance=	0.850		
TSR=	0.063		
Solar Absorbance=	0.937		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.961	0.944	0.929
SRI=	-3.01	-0.91	0.96
Standard solar conditions Solar Flux=1000 W/m2 Ambient Air Temp=310K (37C) Ambient Sky Temp=300K (27C) No conductive heat transfer			
Low Slope Roofing Temperatures for above standard solar conditions			
Surface Temperature (K)=	378	356	334
Surface Temperature (C)=	105	83	61
Surface Temperature (F)=	221	181	142

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR CARRIAGE GREEN		
Thermal emittance=	0.900		
TSR=	0.246		
Solar Absorbance=	0.754		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.740	0.736	0.732
SRI=	24.63	25.17	25.65
Standard solar conditions Solar Flux=1000 W/m2 Ambient Air Temp=310K (37C) Ambient Sky Temp=300K (27C) No conductive heat transfer			
Low Slope Roofing Temperatures for above standard solar conditions			
Surface Temperature (K)=	363	346	329
Surface Temperature (C)=	90	73	56
Surface Temperature (F)=	194	163	133