

Standard Olive Green versus Energy Star Olive 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 OLIVE GREEN		
Thermal emittance=	0.850		
TSR=	0.086		
Solar Absorbance=	0.914		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.937	0.921	0.906
SRI=	-0.03	2.03	3.85
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)=	376	355	334
Surface Temperature (C)=	103	82	61
Surface Temperature (F)=	218	179	141

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR OLIVE GREEN		
Thermal emittance=	0.900		
TSR=	0.394		
Solar Absorbance=	0.606		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.590	0.586	0.583
SRI=	43.98	44.41	44.80
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)=	352	339	325
Surface Temperature (C)=	79	66	52
Surface Temperature (F)=	175	150	126