

Standard Tuscany versus Energy Star Tuscany

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 TUSCANY		
Thermal emittance=	0.850		
TSR=	0.542		
Solar Absorbance=	0.458		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.457	0.449	0.441
SRI=	61.43	62.51	63.46
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)=	343	332	321
Surface Temperature (C)=	70	59	48
Surface Temperature (F)=	158	138	119

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR TUSCANY		
Thermal emittance=	0.900		
TSR=	0.660		
Solar Absorbance=	0.340		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.319	0.317	0.316
SRI=	79.84	80.08	80.30
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)=	333	325	318
Surface Temperature (C)=	60	52	45
Surface Temperature (F)=	140	126	113