

Standard Sandalwood versus Energy Star Sandalwood

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	STANDARD		
Colour	SANDALWOOD		
Thermal emittance=	0.850		
TSR=	0.661		
Solar Absorbance=	0.339		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.331	0.325	0.320
SRI=	78.20	79.00	79.70
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)=	334	326	318
Surface Temperature (C)=	61	53	45
Surface Temperature (F)=	142	127	113

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product	ENERGY STAR		
Colour	SANDALWOOD		
Thermal emittance=	0.900		
TSR=	0.767		
Solar Absorbance=	0.233		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.210	0.209	0.208
SRI=	94.66	94.82	94.97
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)=	325	320	315
Surface Temperature (C)=	52	47	42
Surface Temperature (F)=	125	116	107