

Standard Mocca versus Energy Star Mocca

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 MOCCA		
Thermal emittance=	0.850		
TSR=	0.345		
Solar Absorbance=	0.655		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.664	0.652	0.642
SRI=	34.33	35.85	37.20
Standard solar conditions Solar Flux=1000 W/m ² 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)=	358	342	327
Surface Temperature (C)=	85	69	54
Surface Temperature (F)=	185	156	128

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR MOCCA		
Thermal emittance=	0.900		
TSR=	0.576		
Solar Absorbance=	0.424		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.405	0.402	0.400
SRI=	68.36	68.66	68.94
Standard solar conditions Solar Flux=1000 W/m ² 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)=	339	329	320
Surface Temperature (C)=	66	56	47
Surface Temperature (F)=	151	134	117