

Standard C/B Beige versus Energy Star C/B Beige

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 C/B BEIGE		
Thermal emittance=	0.850		
TSR=	0.304		
Solar Absorbance=	0.696		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.707	0.695	0.684
SRI=	28.80	30.41	31.83
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)=	361	344	328
Surface Temperature (C)=	88	71	55
Surface Temperature (F)=	190	160	131

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR C/B BEIGE		
Thermal emittance=	0.900		
TSR=	0.543		
Solar Absorbance=	0.457		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.438	0.436	0.433
SRI=	63.89	64.22	64.51
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)=	342	331	321
Surface Temperature (C)=	69	58	48
Surface Temperature (F)=	156	137	118