

Standard C/B Smooth Cream versus Energy C/B Smooth Cream

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 SMOOTH CREAM		
Thermal emittance=	0.850		
TSR=	0.668		
Solar Absorbance=	0.332		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.324	0.318	0.313
SRI=	79.20	79.98	80.67
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)=	141	126	112

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR C/B SMOOTH CRAEM		
Thermal emittance=	0.900		
TSR=	0.785		
Solar Absorbance=	0.215		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.192	0.191	0.190
SRI=	97.18	97.32	97.46
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)=	323	319	314
Surface Temperature (C)=	50	46	41
Surface Temperature (F)=	123	114	106