

Standard C/B Heritage Red versus Energy Star C/B Heritage Red

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 HERITAGE RED		
Thermal emittance=	0.850		
TSR=	0.142		
Solar Absorbance=	0.858		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.878	0.863	0.849
SRI=	7.28	9.23	10.95
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)=	372	352	332
Surface Temperature (C)=	99	79	59
Surface Temperature (F)=	211	174	138

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR C/B HERITAGE RED		
Thermal emittance=	0.900		
TSR=	0.375		
Solar Absorbance=	0.625		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.609	0.606	0.602
SRI=	41.47	41.91	42.32
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)=	354	340	326
Surface Temperature (C)=	81	67	53
Surface Temperature (F)=	178	152	127