

Standard C/B Rivergum versus Energy Star C/B Rivergum

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	C/B RIVERGUM		
Thermal emittance=	0.850		
TSR=	0.153		
Solar Absorbance=	0.847		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.867	0.851	0.838
SRI=	8.72	10.65	12.35
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)=	372	351	332
Surface Temperature (C)=	99	78	59
Surface Temperature (F)=	209	173	138

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product	ENERGY STAR		
Colour	C/B RIVERGUM		
Thermal emittance=	0.900		
TSR=	0.445		
Solar Absorbance=	0.555		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.538	0.535	0.532
SRI=	50.74	51.14	51.50
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)=	349	336	324
Surface Temperature (C)=	76	63	51
Surface Temperature (F)=	168	145	123