

Standard C/B Saltbush          versus          Energy Star C/B Saltbush

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	<b>STANDARD</b>		
Colour	<b>C/B SALT BUSH</b>		
Thermal emittance=	0.850		
TSR=	0.287		
Solar Absorbance=	0.713		
	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.725	0.712	0.701
SRI=	<b>26.51</b>	<b>28.16</b>	<b>29.62</b>
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)=	362	345	328
Surface Temperature (C)=	<b>89</b>	<b>72</b>	<b>55</b>
Surface Temperature (F)=	192	161	131

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product	<b>ENERGY STAR</b>		
Colour	<b>C/B SALT BUSH</b>		
Thermal emittance=	0.900		
TSR=	0.558		
Solar Absorbance=	0.442		
	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.423	0.421	0.418
SRI=	<b>65.92</b>	<b>66.24</b>	<b>66.52</b>
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)=	341	330	321
Surface Temperature (C)=	<b>68</b>	<b>57</b>	<b>48</b>
Surface Temperature (F)=	154	135	118