

Standard Yallara Brown versus Energy Star Yallara Brown

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>YALLARA BROWN</b>		
Thermal emittance=	0.850		
TSR=	0.086		
Solar Absorbance=	0.914		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.937	0.921	0.906
SRI=	<b>-0.03</b>	<b>2.03</b>	<b>3.85</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)=	376	355	334
Surface Temperature (C)=	<b>103</b>	<b>82</b>	<b>61</b>
Surface Temperature (F)=	218	179	141

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product	<b>ENERGY STAR</b>		
Colour	<b>YALLARA BROWN</b>		
Thermal emittance=	0.900		
TSR=	0.371		
Solar Absorbance=	0.629		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.613	0.610	0.606
SRI=	<b>40.94</b>	<b>41.39</b>	<b>41.79</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)=	354	340	326
Surface Temperature (C)=	<b>81</b>	<b>67</b>	<b>53</b>
Surface Temperature (F)=	178	152	127