Standard Chino versus Energy Star Chino

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	**CHINO**
Thermal emittance=	0.850
TSR=	0.385
Solar Absorbance=	0.615

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.622	0.611	0.601
SRI=	**39.77**	**41.20**	**42.47**

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)=	355	340	325
Surface Temperature (C)=	**82**	**67**	**52**
Surface Temperature (F)=	179	152	126

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing

Product	**ENERGY STAR**
Colour	**CHINO**
Thermal emittance=	0.900
TSR=	0.606
Solar Absorbance=	0.394

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.374	0.372	0.370
SRI=	**72.44**	**72.72**	**72.98**

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)=	337	328	319
Surface Temperature (C)=	**64**	**55**	**46**
Surface Temperature (F)=	147	131	115

ASTEC PAINTS

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