Standard Mist Green versus Energy Star Mist Green

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	**MIST GREEN**
Thermal emittance=	0.850
TSR=	0.245
Solar Absorbance=	0.755

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.770	0.756	0.744
SRI=	**20.90**	**22.63**	**24.17**

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)=	365	347	329
Surface Temperature (C)=	**92**	**74**	**56**
Surface Temperature (F)=	198	165	133

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

Product	**ENERGY STAR**
Colour	**MIST GREEN**
Thermal emittance=	0.900
TSR=	0.440
Solar Absorbance=	0.560

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.543	0.540	0.537
SRI=	**50.08**	**50.48**	**50.84**

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)=	169	146	123

ASTEC PAINTS

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