Standard Light Latte versus Energy Star Light Latte

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	**LIGHT LATTE**
Thermal emittance=	0.850
TSR=	0.550
Solar Absorbance=	0.450

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.448	0.440	0.433
SRI=	**62.55**	**63.61**	**64.55**

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)=	342	331	321
Surface Temperature (C)=	**69**	**58**	**48**
Surface Temperature (F)=	157	137	118

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

Product	**ENERGY STAR**
Colour	**LIGHT LATTE**
Thermal emittance=	0.900
TSR=	0.709
Solar Absorbance=	0.291

	Wind Condition		
	Low	Medium	High
Convective coefficient=	5	12	30
X=	0.269	0.268	0.266
SRI=	**86.60**	**86.80**	**86.99**

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)=	329	323	316
Surface Temperature (C)=	**56**	**50**	**43**
Surface Temperature (F)=	133	121	110

ASTEC PAINTS

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