

Standard Gull Grey versus Energy Star Gull Grey

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 Colour	STANDARD GULL GREY		
Thermal emittance=	0.850		
TSR=	0.478		
Solar Absorbance=	0.522		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.524	0.515	0.507
SRI=	52.54	53.76	54.85
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)=	348	335	323
Surface Temperature (C)=	75	62	50
Surface Temperature (F)=	167	144	122

ASTM E1980-01 Solar Reflectance Index Calculator for Low-Slope Roofing			
Product Colour	ENERGY STAR GULL GREY		
Thermal emittance=	0.900		
TSR=	0.683		
Solar Absorbance=	0.317		
Convective coefficient=	Wind Condition		
	Low	Medium	High
	5	12	30
X=	0.296	0.294	0.293
SRI=	83.00	83.23	83.43
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)=	331	324	317
Surface Temperature (C)=	58	51	44
Surface Temperature (F)=	137	124	111