



PRESCRIPTIVE COOL ROOF and ADDITIONAL INSULATION REQUIREMENTS for NON-RESIDENTIAL, HIGH-RISE RESIDENTIAL and HOTEL/MOTEL REROOF

When more than 50% or 2000 ft² (whichever is less) of an existing roof is being replaced, cool roofing and added insulation are required. Cool roof products must meet or exceed the values specified in Table A and be tested and labeled by the Cool Roof Rating Council (CRRC). The CRRC's Rated Product Directory can be found at www.coolroofs.org. Based on the information in Tables A&B, please provide the following information for the proposed roof covering.

CRRC Product ID Number	Roof Slope	Aged Solar Reflectance	Thermal Emittance	SRI

TABLE A

Roof Slope	Minimum 3-year aged solar reflectance	Minimum Thermal Emittance	SRI
Nonresidential			
≤2:12	0.63 ¹	0.75	75
>2:12	0.20	0.75	16
High-rise residential, hotels & motels			
≤2:12	N/A	N/A	N/A
>2:12	0.20	0.75	16

¹ Aged solar reflectance less than 0.63 is allowed provided the minimum roof/ceiling insulation specified in Table B is installed.

TABLE B

Roof/ceiling insulation tradeoff for aged solar reflectance Nonresidential buildings

Aged Solar Reflectance	Metal building Climate Zone 1-16 U-Factor	Wood Framed and other. All Climate Zones other than 6-8
0.62-0.56	0.038(R-30)	0.032(R-32)
0.55-0.46	0.035(R-30)	0.030(R-34)
0.45-0.36	0.033(R-30)	0.029(R-35)
0.35-0.25	0.031(R-33)	0.028(R-36)

Cool roofing is not required if any of the following applies. Please select any that apply:

- ☐ Cool roofing is not required if the roof area is covered by integrated photovoltaic panels or integrated solar thermal panels; **or**
- ☐ The roof construction has a thermal mass of at least 25 lb/ft² installed over the roof membrane

Applicant's Signature _____ Date _____