EPDM: Energy Efficient in Every Climate

Real Energy Efficiency Coast-to-Coast

Carlisle EPDM roof systems offer energy-efficient solutions no matter where your building is located. EPDM is a durable material that has nearly 50 years of proven, in-field performance. With Carlisle EPDM, you can get:

- Dark-colored EPDM for northern climates where heating costs are generally five times greater than cooling costs
- White EPDM membrane for warm, southern climates, which can reduce air conditioning costs
- · Ballasted EPDM for all regions
- Unrivaled resistance to UV, weathering, and ozone
- · Lowest lifecycle costs of any commercial roofing material*
- · Lowest global warming, smog, and acid rain impact







Proper Design Equals Optimal Savings

In ASHRAE Zones 1–3, reflective roofs require less insulation than dark-colored materials to maintain equivalent energy performance. However, the opposite is true in ASHRAE Zones 4 and above, where dark-colored materials require less insulation to provide equivalent energy savings.

By adjusting the ballast coverage, ballasted EPDM roofs can deliver the energy savings of cool roofs in ASHRAE Zones 1-3 or black roofs in Zones 4-8. For optimal energy savings, ballast coverage should be 17 lb/ft² in Zones 1-3 to achieve cool roof savings, and can be reduced to 10 lb/ft² in Zones 4-8.

Insulation Levels with Equivalent Load Values				
ASHRAE Zone	R-Value Addendum F	White EPDM	Black EPDM	Ballasted EPDM
1	R-20	R-20	R-33	R-20 *
2	R-25	R-25	R-31	R-25 *
3	R-25	R-25	R-29	R-25 *
4	R-30	R-31	R-30	R-30 **
5	R-30	R-32	R-30	R-30 **
6	R-30	R-32	R-30	R-30 **
7	R-35	R-38	R-35	R-35 **
8	R-35	R-38	R-35	R-35 **
* = 17 #/SF Ballast			** = 10 #/SF Ballast	

Recommended R-values based on ASHRAE Zones in order to achieve optimal energy savings for reflective, dark-colored and ballasted roofs. Represents an Energy efficiency advantage



