

DESIGN CRITERIA

1. Related Sections: See Division 05 Section Cold-Formed Metal Framing for secondary support framing, including roof rafters, purlins, and ceiling joists. See Division 07 Section Sheet Metal Flashing and Trim for flashing and other sheet metal work that is not part of metal roof or wall panel assemblies.
2. This Section specifies factory-formed and field-assembled standing-seam metal roof panels, glass-mat gypsum sheathing panels, concealed-fastener, metal wall panels, and concealed-fastener, metal soffit panels.
3. UFC 3-600-01 does not allow the use of fire retardant treated plywood as part of a roof or roofing system. Guide specification Division 07 Section Metal Panels requires the use of glass-mat gypsum sheathing panels for metal panel assemblies.
4. Contract Drawings should graphically indicate locations of specified underlayment materials.
5. UFC 3-110-03: Snow and ice issues are to be addressed early in design process. Issues to be addressed are contained in the Cold Regions Research & Engineering Laboratory (CRREL) report MP-01-5663, *Minimizing the Adverse Effects of Snow and Ice on Roofs*. In ASHREA climate zones 4 and above, all metal roofs shall include continuous snow retention devices at all eaves. Select snow retention devices to resist all in-service loads considering roof slope and design load. Prove adequacy on a site-specific basis by calculation and lab-tested holding strengths of devices. Snow retention devices that glue to panel surfaces or use attachments that penetrate roof panels are prohibited. Avoid using any device that voids material and coating warranties.

END OF SECTION