07 00 00 General Information

Architects, in the design of project specific building enclosure systems, shall consider the unique characteristics of the generally hot-humid environment of Conway, SC. Attention to high wind risks and corrosion potential should also be considered.

Architects and Engineers are responsible for proper selection of materials in each building system for specific projects; these standards do not relieve the designer from that responsibility.


07 31 13 Asphalt Shingles

For Steep Slope Roofs: Asphalt Shingles with proper underlayment and fastening for high wind areas.

Products: GAF Timberline HD “Charcoal” Lifetime High Definition Shingle.

07 31 50 Slate Shingles

Slate Shingles are not preferred for installation on campus. Should the aesthetic of slate shingle be desired, it is recommended that the Architect investigate synthetic slate roofing in a color and aesthetic to generally match other buildings on campus.

07 41 13 Metal Roof Panels

For Steep Slope Roofs: Standing-seam metal roof panels. Metal soffit panels.

Products:

Standing Seam Metal Roof: Standard 24 Gauge, 2” rib, mechanically fastened, 16” wide striated Galvalume (Aluminum Zinc Alloy Coated steel roof) with high performance fluoropolymer (Kynar 500 PVDF) two coat system. Use two piece low floating clip. Humidity and salt spray resistance of 1000 hours. 20 year warranty on finish. 10 year warranty on weathertightness. Solar Reflectance Index not less than 29. Color: match Ash Grey from McElroy Metal (Maxima Panel)

Flat panel profiles are not preferred due to potential of oil canning. Use either a striated, pencil or double pencil profile.

If using aluminum panels, use .040” aluminum.

Metal Soffit Panel: Same material as standing seam roof (McElroy Metal, Marquee-Lock). 24 gauge, 12” wide flush, 1” deep (Architect to verify maximum lengths of design with product limitations).

07 52 00 SBS-Modified Bituminous Membrane Roofing
For Low Slope Roofs: 2-ply SBS-modified bituminous membrane roofing. Roof insulation. Minimum roof slope of 1/4 inch per foot. Special material warranty of 20 years. Special project warranty of 2 years.

Products:

SBS-Modified Bituminous Membrane Roofing; CertainTeed Corp; Ecology Commercial and Industrial Roofing Systems; GAF Materials Corporation; Soprema Roofing and Waterproofing Inc.

Base Sheet Thickness: 60 mils minimum. Membrane Sheet Thickness: 150 mils minimum. Granule Color: White, unless otherwise indicated.

Insulation. Polyisocyanurate Board Insulation, minimum aged R-value 20.0.

Cover board: ½” Glass-Mat Gypsum Sheathing Board, Perlite Aggregate Board.

Tapered Insulation: Provide factory-tapered insulation boards fabricated to minimum slope of 1/4 inch per 12 inches, unless otherwise indicated.

07 62 00 Sheet Metal Flashing and Trim

Copings. Gutters and downspouts. Flashing and trim.

Products:


Copings: SPRI Wind Design Standard: Manufacture and install copings and roof-edge Flashings tested according to SPRI ES-1. Standing seam joint with 12” wide backup plate. Shop mitered corners.

Gutters and Downspouts: Seamless gutter as produced by Spann Roofing, Conway, SC, rectangular downspouts.

All roof edge sheet metal flashing must be fabricated to ANSI/SPRI ES-1 requirements. Rain chains are not a preferred option for use in lieu of traditional downspout designs.