

Energy Saver System – Specifications

GENERAL DESCRIPTION:

The Energy Saver System is an economical high R value insulation system consisting of a white support fabric, painted steel banding, and fiberglass insulation. The Energy Saver system is designed primarily for use in metal buildings, but can be used in various types of roof construction in new buildings. The fabric is fastened to the inside of the roof framing and is supported by the banding. Fiberglass insulation is installed above the fabric in varying thicknesses to obtain desired insulating values.

PRODUCT SPECIFICATIONS:

DESCRIPTION: Acceptable system shall be the Energy Saver System manufactured by GBP Silvercote, in Solon, Ohio, with an insulation R-value of _____ and an installed thickness of _____ inches. Roof system shall be a single or a double (*select one*) layer system depending on the specified thickness, however, care should be taken to completely fill the purlin cavity to avoid condensation. In the event that there is no insulation positioned between the roof sheet and the purlin, a foam tape thermal break (1/8" x 3") tape, or a thermal block (1" x 3" Extruded Polystyrene) shall be applied.

System components shall meet the following minimum specifications:

STEEL STRAP: 80 KSI tempered, high-tensile-strength steel, galvanized, primed and painted white. Minimum size shall be a minimum thickness of .015" x 3/4" wide x continuous length.

FASTENERS: #12 x 3/4" plated Tek 2 screws, for up to 1/4" thick, painted white for light gauge steel (typically purlins). #12 x 1-1/4" plated Tek 4 screws painted white for heavier gauge steel (typically primary framing), up to 3/8" thick.

ENERGY SAVER FABRIC: Shall be woven reinforced high-density polyethylene yarns coated on both sides with a continuous white or colored polyethylene film. The fabric shall have a flame spread index of 25 or less and smoke density index of 50 or less based on ASTM E-84 and CAN/ULC test standards. This material shall be manufactured in large custom pieces by extrusion welding from roll goods. Pieces shall be fabricated to substantially fit the large defined building areas with minimum practical sealing to be done on job site. Fabric shall be folded to allow for rapid pullout on the strap support system. Energy Saver fabric perm rating shall be .02 grains/hr/sf/in. Hg) – based on ASTM E 96 Procedure A, desiccant method.

SEALANTS: Shall be fast-tack solvent-based vapor barrier sealant, synthetic rubber adhesive for sealing vapor barrier laps and/or pressure sensitive 3/4" wide by 1/32" thick extruded vapor barrier tape sealant by GBP Silvercote, Inc.

INSULATION: Shall be fiberglass blanket insulation meeting ASTM C 991, Type 1 (unfaced) and ASTM E 136, or other insulation form as may be recommended and submitted by the system manufacturer and approved by the architect during submittals.

INSULATION HANGERS: Shall be Insul Hold Coils for supporting insulation between wall girts at frequency specified in GBP Silvercote's installation instructions.