SECTION 10 73 46 – LOUVERED ROOFS

 GENERAL

 ADMINISTRATIVE REQUIREMENTS

 Pre-Installation Conference:

 Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder,] installer, and related trades.

 Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes.

 Samples: [Selection samples.] [Verification samples.]

 Informational Submittals:

 Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications:

 Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 Approved by louvered roof manufacturer.

 SYSTEM DESCRIPTION

 Employ qualified professional engineer licensed in State of [\_\_\_\_] to perform system design.

 Design Requirements:

 Design system to withstand:

* + - * 1. Live and dead loads in accordance with Building Code.
				2. Movement caused by an ambient temperature range of [120] [\_\_] degrees F and a surface temperature range of [160] [\_\_] degrees F.

 Design system in accordance with AA Aluminum Design Manual.

 WARRANTY

 Finish: Manufacturer’s [20] [\_\_] year warranty against peeling, chipping, and blistering.

 Electrical Components: Manufacturer’s [3] [\_\_] year warranty against defects in materials and workmanship.

 PRODUCTS

 MANUFACTURERS

 Contract documents are based on Equinox. [www.equinoxroof.com](http://www.equinoxroof.com/)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MATERIALS

 Aluminum Extrusions: ASTM B221.

 Aluminum Sheet: ASTM B209/B209M.

 COMPONENTS

 Louvered Roof System:

 Structural system: Extruded aluminum columns and beams, sized to loading requirements.

 Louvers: Extruded aluminum, interlocking, drainable louvers mounted in pivot system, minimum 150-degree rotation.

 Motor operators: Concealed, 12 VDC controlled by [wall switch,] handheld remote.

 Solar Screens: Motor operated with motor concealed in head tube, controlled by [[wireless] wall switch.] [handheld remote.] [smart device app.]

 Lighting: LED type, [white,] [[variable] [\_\_\_\_] color], controlled by [[wireless] wall switch.] [handheld remote.] [smart device app.]

 Ceiling Fans: [\_\_] inch diameter, controlled by [[wireless] wall switch.] [handheld remote.] [smart device app.]

 Weather Sensors:

* + - 1. Wind sensors: Automatically open louvers when wind speed reaches 60 MPH.
			2. Rain sensors: Automatically close louvers precipitation is detected and open louvers when sunshine is detected.

 Heaters: [Gas, \_\_\_\_\_\_\_BTU] [Electric, \_\_\_\_\_Watts] type, controlled by [[wireless] wall switch.] [handheld remote.] [smart device app.]

 Smart Control: Control following operations by means of smart phone or other wireless smart app:

* + - 1. Louvers open or closed.

 ACCESSORIES

 Anchors: [Hot-dip galvanized steel.] [Fluoropolymer coated steel.] [Manufacturers recommended fastener.]

 FINISHES

 Aluminum: TGIC-free polyester meeting performance requirements of AAMA 2604, color to be selected from manufacturer's full color range.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions and approved Shop Drawings.

 CLOSEOUT ACTIVITIES

 Demonstration: Demonstrate system operation and maintenance to Owner.

END OF SECTION