

**Mechanical Mandatory Measures**

**Equipment and Systems Efficiency**

Any appliance for which there is a California standard established in the applicable efficiency regulations with the appliance efficiency regulation as specified in these plans.

Fan type central furnaces shall not have pilot lights.

Piping, except that conveying fluids at temperatures between 50 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 12.3.

Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.

Controls

Each space conditioning system shall be installed with one of the following:

Each space conditioning system serving building types such as offices and not explicitly exempt from the requirements of section 122(d) shall be installed with an automatic manual switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "Shut off" feature that turns off all loads for at least 24 hours.

Operation: and has program backup capabilities that prevent the loss of the device's program and time settings for at least 10 hours if power is interrupted; or

An occupancy sensor to control the operating period of the systems; or

A 4-hour timer that can be manually operated to control the operating period of the system.

Each space conditioning system shall be installed with controls that operate the system as required to temporarily restart and temporarily maintain a setback heating and/or a setup cooling thermostat setback.

Each space conditioning system serving multiple zones with combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

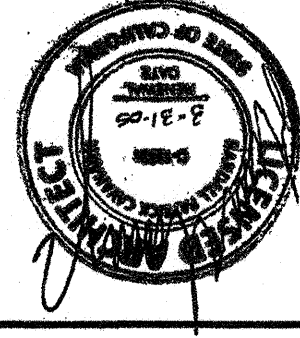
Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

2:12 PITCHED ROOF EXPOSED STEEL

RELOCATABLE

CLASSROOMS

24 X 40 THRU 120 X 40



787 Spruceville Ave., Martinez, CA 94530  
(209)825-1921 Fax (209)825-7018  
americanmodular.com

CUSTOMER:

ENERGY MANDATORY MEASURES

DATE: 06-12-03

SCALE: NONE

DRAWN BY: Y.A.

CHECKED BY:

SERIAL NO.:

REVISIONS

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

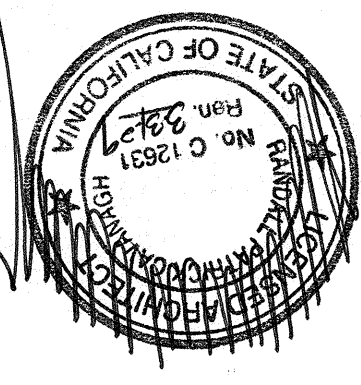
PROJECT NO.

SHEET NO.

M 2

DATE: OCT 15 2003

FILE NO. PC



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
PC 02-104921  
DATE: APR 29 2003  
AC FLS SS 34

**Mechanical Mandatory Measures - Cont.**

**Service Water Heating Systems**

§113(b) If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.

§113(b) Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110°F.

§113(b) Lavatories in restrooms of public facilities shall be equipped with the following:

§113(b) Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute

Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.

§119(h) All automatic devices specified shall be certified and installed as directed by the manufacturer.

§113(b) Fluorescent Ballast and Luminaires Certified

§113(b) All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.

§132 Tandem Wiring for One and Three Lamp Fluorescent Fixtures: All one and three lamp fluorescent fixtures are tandem wired with two lamp ballasts were required by Standards Section 132; or all three lamp fluorescent fixtures are specified with electronic high-frequency ballasts and are exempt from tandem wiring requirements.

§131(c) Individual Room/Area Controls:

§131(c) Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.

§131(b) Uniform Reduction for Individual Rooms

§131(b) All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting shall be controlled with Bi-level switching for uniform reduction of lighting within the room.

§131(c) Daylight Area Control

§131(c) All rooms with windows and skylights, that are greater than 250 square feet, and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch, or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of year is included on plans.

§131(f) Control of Exterior Lights

§131(f) Exterior mounted fixtures and served from the electrical panel inside the building are controlled with a directional photo cell control on the roof and a corresponding relay in the electrical panel.

§131(e) Display Lighting: Display lighting

§131(e) Exterior mounted fixtures and served from the electrical panel inside the building are controlled with a directional photo cell control on the roof and a corresponding relay in the electrical panel.

§117(g) Skylights shall be controlled between the zone, and shall be weatherstripped (except for unframed glass doors and fire doors).

§116(b) The control shall be adjustable up to 55 degf or higher. Where used to control both heating and cooling, the control shall be capable of providing a dead band of at least 5°F within which the supply of heating and cooling is shut-off or reduced to a minimum.

§116(a) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.

§118(e) Heat Pumps shall be installed with supplementary heater operation when controls to prevent electric resistance heat pump alone.

§122(b) Any appliance for which there is a California standard established in the applicable efficiency regulations with the appliance efficiency regulation as specified in these plans.

§122(e) Application Efficiency Regulations with the appliance efficiency regulation as specified in these plans.

§122(f) Fan type central furnaces shall not have pilot lights.

§122(f) Piping, except that conveying fluids at temperatures between 50 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 12.3.

§122(f) Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.

§122(f) Controls

§122(f) Each space conditioning system shall be installed with one of the following:

§122(f) Each space conditioning system serving building types such as offices and not explicitly exempt from the requirements of section 122(d) shall be installed with an automatic manual switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "Shut off" feature that turns off all loads for at least 24 hours.

§122(f) Operation: and has program backup capabilities that prevent the loss of the device's program and time settings for at least 10 hours if power is interrupted; or

§122(f) An occupancy sensor to control the operating period of the systems; or

§122(f) A 4-hour timer that can be manually operated to control the operating period of the system.

§118(g) Installed Insulating Material shall have been certified by the manufacturer to maintain a setback heating and/or a setup cooling thermostat setback.

§118(g) Each space conditioning system serving multiple zones with combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

§118(g) Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

§118(g) Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

§118(g) Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

§118(g) Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.

§118(g) Each space conditioning system shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation zones.