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## Construction Specifications

### **1. Insulation** (minimum R-Value as listed below, higher is always better)

Interior walls = R-13

Exterior walls = R-13

Ceiling = R-30

Fiberglass is acceptable, Icynene is best (with Icynene you can skip the vapor barrier)

### **2. Vapor Barrier**

Minimum 6 mil poly. On the warm side of all walls and ceiling.

Vapor barriers on warm side (the outside of the wine cellar).

### **3. Door**

Exterior grade insulated door w/ weather-stripping

Glass doors must have insulated glass. Low-E coating if exposed to direct light.

### **4. Framing**

2 by 6 cats centered at racking height (accounting for flooring) so there is a 5.5" screwing surface

### **5. Flooring**

Concrete is acceptable, however it should have a sealer applied

Tile is best; Ceramic, Slate, Marble, etc. (do not use Terra Cotta as it is high maintenance and chips and stains easily). Grout to the walls (as there is no base molding behind racking). Wood is acceptable but must have a vapor barrier underneath.

### **6. Drywall & Walls**

All Densshield or type "MR" moisture resistant / greenboard. Down to within 1/4" of the floor.

Do not sheetrock until refrigerant lines have been roughed in (for split systems)

Wood is attractive, T&G or sheet goods should not be finished.

### **7. Electrical & Lighting**

Light switch to be a 60-minute timer located outside of the cellar. Preferably with a dimmer.

No outlets in room unless specified.

I recommend track lighting or recessed lighting make sure to use type "IC" so the insulation can be wrapped around the fixture. We really like the Lightolier 4" low voltage cans.

### **8. Temperature control**

If using a split system or air handler the duct work or linesets & electrical must be roughed in first.

If using a "Through Wall" system the framework must be in place (inquire for dimensions).

### **9. Fit & finish**

Paint should have an anti-mildew additive. I recommend Zinzer Kitchen & Bath

Room should not have base molding. Caulk any gaps around perimeter.

### **10. Inspections**

I want to see all the mechanicals, framing, cats, electrical, etc BEFORE SHEETROCKING.

**It is extremely important that all the specs are followed. Failure to do so may cause the environmental controls to not function properly and could possibly cause damage to the room.**