

Presented at the American Wine Society
Annual Convention in Rochester, NY

Building Your Own Wine Room

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The Ideal Wine Room

Temperature
a constant
55-60° F

Humidity
50-70%

Dark and
vibration-
free

Bottles near
horizontal,
cork damp



Considerations for Building

Where?

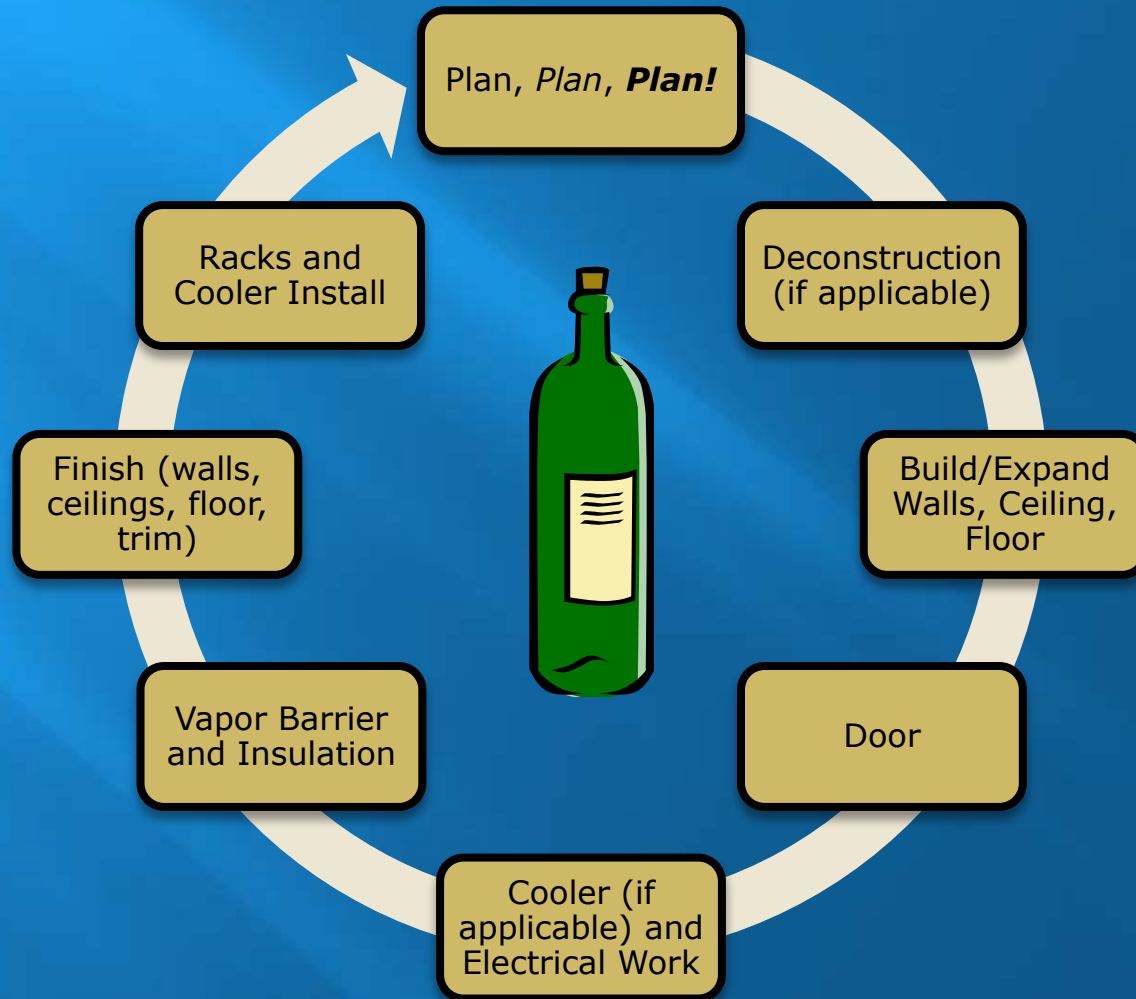
- Closet / Pantry
- Cellar / Open Space
- New Construction

Size?

Cost?

Your Skills?

Process



Planning

Bottle Capacity

Expandability

Electrical Work & Backup Power

Vapor Barrier & Insulation

Door & Windows

Racking & Cooler Layout

Your Skills

Deconstruction

Remove Drywall
(and insulation,
if applicable)



Build

Construct / Move Walls

Drop Ceiling (if applicable)

Raise Floor (if applicable)

Consider Depth for Insulation →

Consider Need for Boxing Joists →

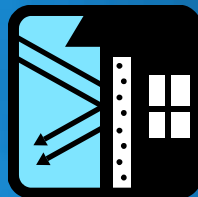


Build: Depth for Insulation

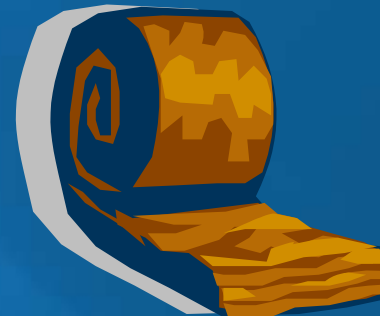
Interior



Exterior



R-Value	Thickness
R11	3-1/2"
R13	3-1/2"
R15	3-1/2"
R19	6-1/4"
R21	5-1/2"
R30	9-1/2"
R38	12"



R-Value is a measure of thermal resistance

Build: Boxing Joists

Boxing a Joist Stops Airflow

Use Above and Below as Necessary



The Door

Ideal: Insulated “Outside” Door

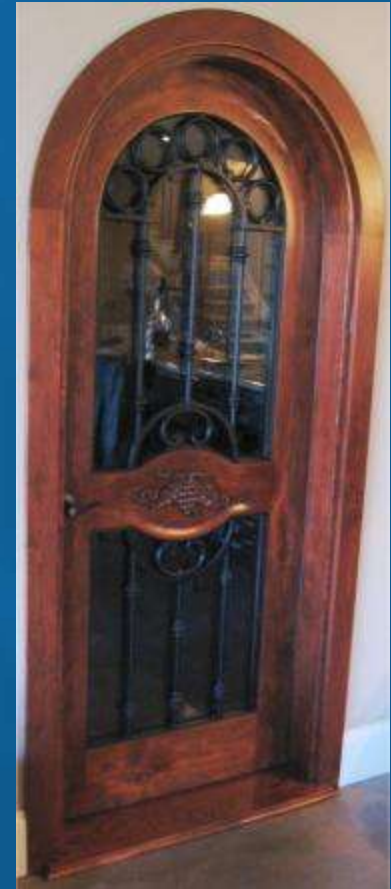
No Uninsulated Fiberglass or Hollow Doors

Premounted in a Frame is Easiest

The Window Dilemma

Direction of Door Opening

Weather-Stripping



Cooling Your Room

\$\$\$

- Ducted Vents (\$3500 up*)

\$\$

- Split System (\$1100-\$1550*)

\$

- Through-the-Wall (\$650-\$1600)

0

- Passive (no mechanical cooler)

* Plus Installation

Cooler and Electrical

Frame for Cooler (if thru-the-wall);
Location is important;
Later a Shelf



Recommend: Separate
Circuit with Backup Power
and Surge Protection

Recommend: Outside
Light Switch, Low Voltage
Lights; Avoid "Can" Lights



Vapor Barrier

Problem

Moisture hits cold wall, condenses, forms mold and mildew!



Solution

Stop moisture *before cold* with a vapor barrier *on the warm side*.

Typically 6mm Polyethylene Film

Goes on *Warm Side* of All Six Surfaces

Wrap Film Snugly from Inside if Necessary

Patch and Seal all Holes and Breaks

Exception: Basement w/No Cooler (consult R. Gold book)

Vapor Barrier: Examples



↑ Wrapping from the inside;
note form-hugging, no gaps

← The easy way, from outside

Insulation

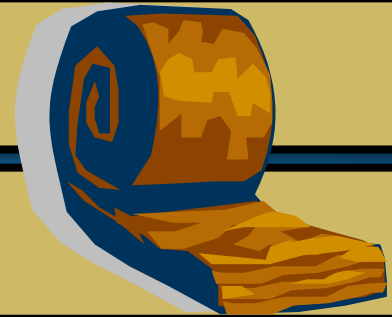
Use “Unfaced” Insulation

Be Thorough, Cut-and-Stuff

Don't Compress

If Using Injected Foam, Use “Closed Cell”

Seal Concrete Floor – Thermal Mass OK



Finishing Walls, Ceiling, Floor

Wall Options

- Drywall
- Finished Wood
- Underlayment (OSB or Plywood) w/Paneling

No Need for “Green Board” or Baseboard

Consider Rack Mounting Requirements

Seal Joints

Floor: Avoid Carpet; Consider Tile, Wood, Cork

Final Trim

Walls (OSB)



OSB (Oriented Strand Board), caulked after mounting

Racking

Dimensions: Planning Pays Off!

Options

- Wood or Metal Honeycomb Style Kits, or Bulk Storage Kits (typically \$1/btl and up)
- **Bracksco's VintageView®** Label-Forward Metal Wall-Mounted Racks (from \$2.22/btl)
- Custom Made Wood (\$6 to \$20/bottle)

Corner Considerations

Integrating Cabinetry, Pictures, Tables

Racking: Kits

Racking Kits from Wine Enthusiast
(pricing approximate for general style, not incl shipping)



Metal Grid
Kit - \$.70/btl



Redwood Bulk
Kit - \$1-\$4/btl



Redwood Individual
Kit - \$2-\$6/btl

Racking: VintageView



VintageView Wine Racks from \$2.22/btl

Three depths available

Racking: VintageView in Cabinetry



Coolers

Three Varieties

- Through-the-Wall (from \$650)
- Split System (from \$1100 plus installation)
- Ducted (from \$3500 plus installation)

Consider Noise and Venting Options

Mount High, Support Well

Drain Line and Electrical

Wine Room 1A



Framing and Vapor Barrier ... to Insulation ... to Wall and Floor

Wine Room 1B



Finished Wall and Door Frame ... to Racking, Cooler, Accessories

Wine Room 2



From Basement Space With Ceiling Obstructions ... to Wine Room!
Note interlaced bottle necks, increasing storage capacity by 20%.

Wine Room 3A



Second Floor, Custom Wood Cabinets, VintageView Racks

Wine Room 3B

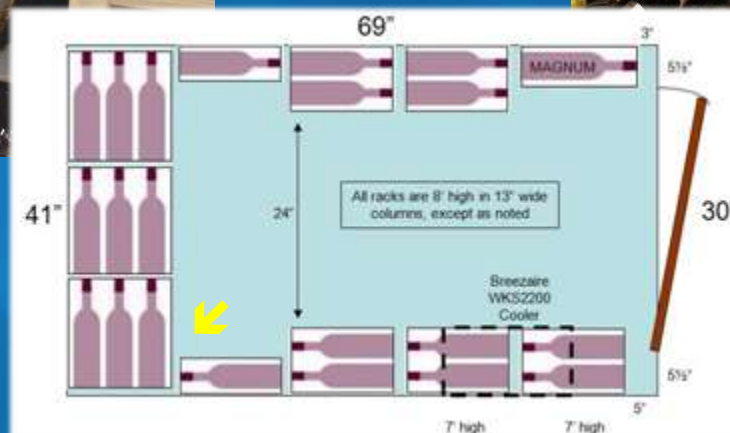
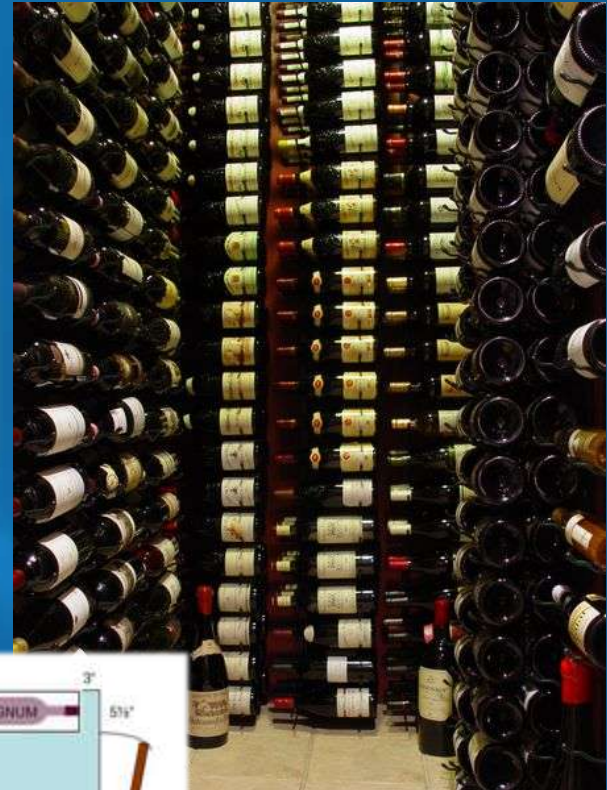


Racking Tends to "Disappear," Leaving Bottles "Floating" with Labels Showing

Wine Room 4



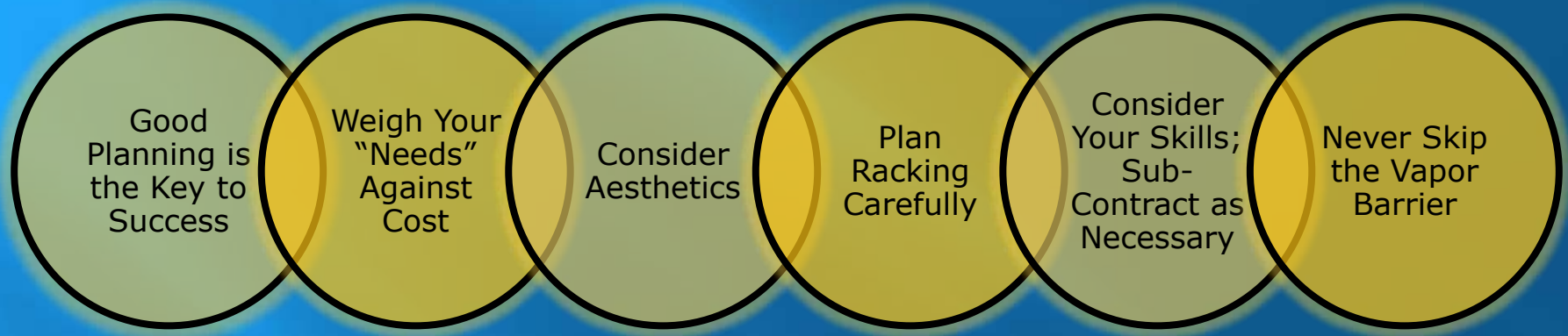
**Over
500
bottles
in 20
square
feet!**



**Taking advantage
of 1-, 2-, 3-deep
plus magnum rack**

Note Cornering →

Summary



The End

Building Your Own Wine Room

This presentation was given by Fred Brack of Bracksco Wine Nook at the annual convention of the American Wine Society in Rochester, NY, on November 12, 2011.

A copy of this presentation can be found online at:

www.bracksco.com/buildwr

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