Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

Building Science

Sour Grapes

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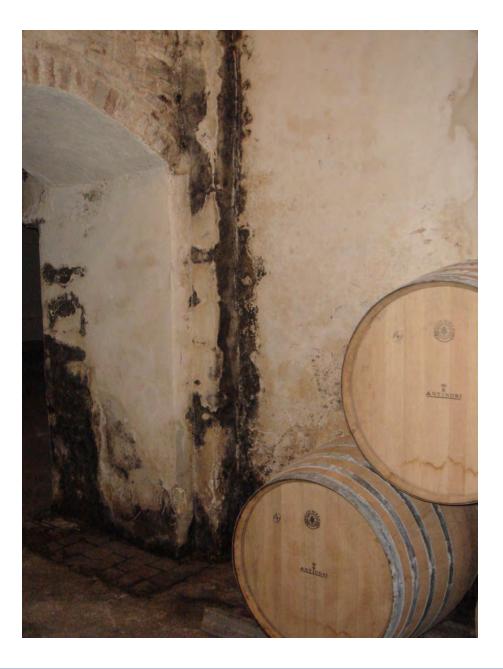
Wine Cellars

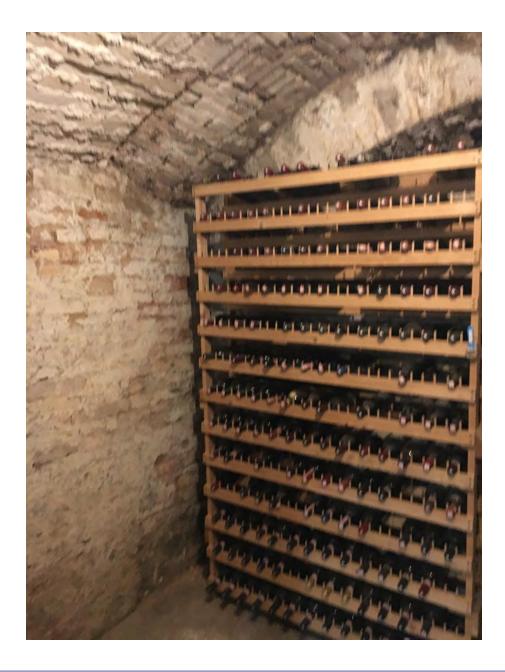




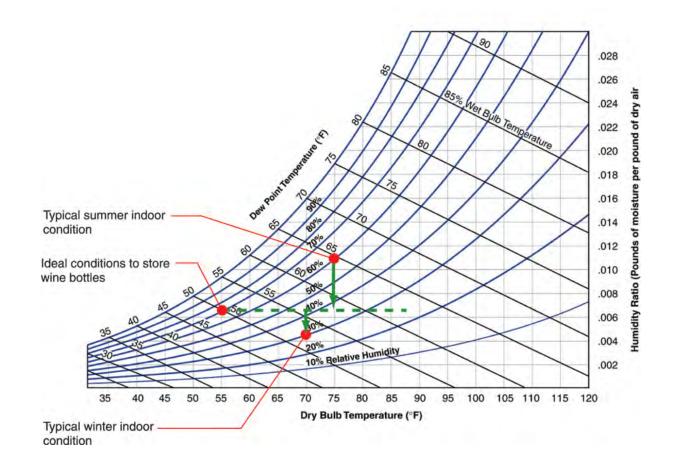


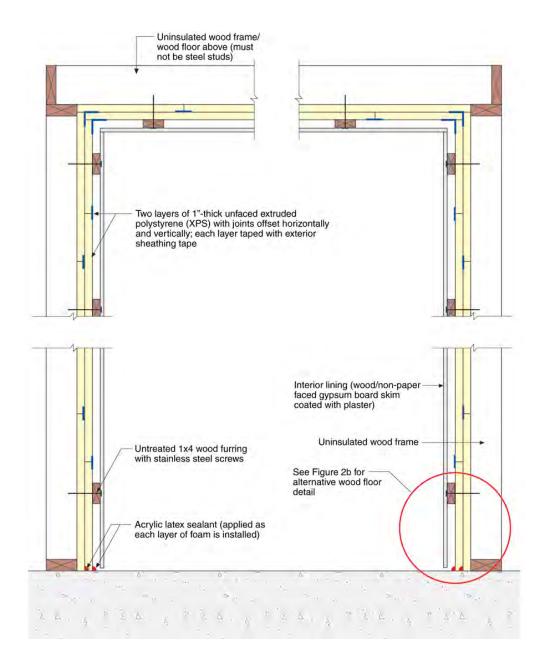


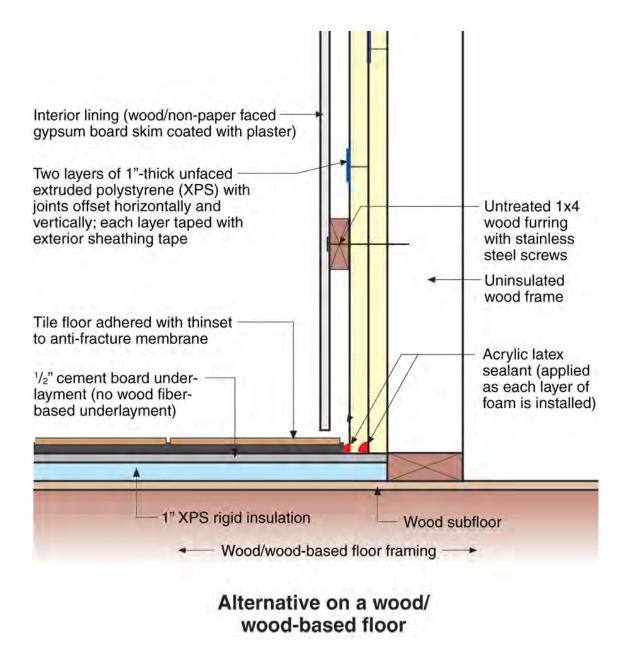


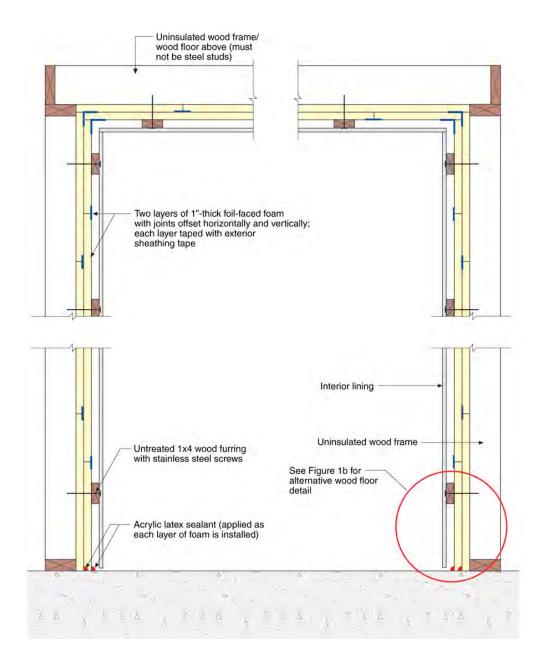


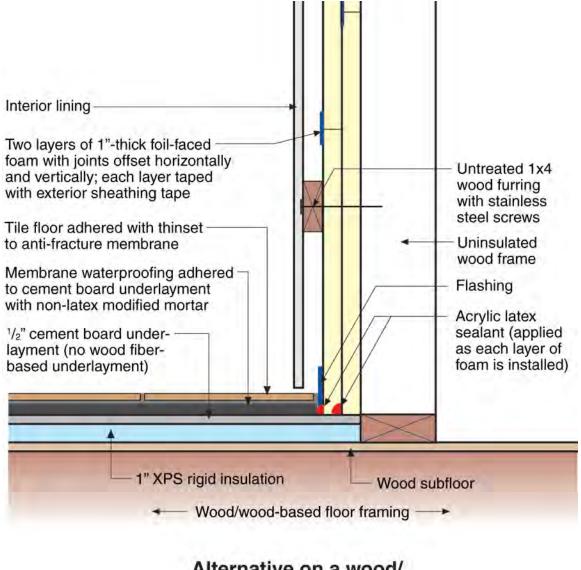




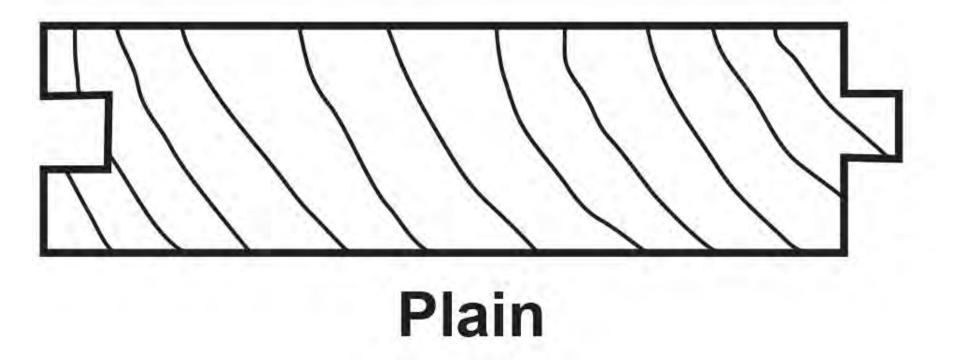


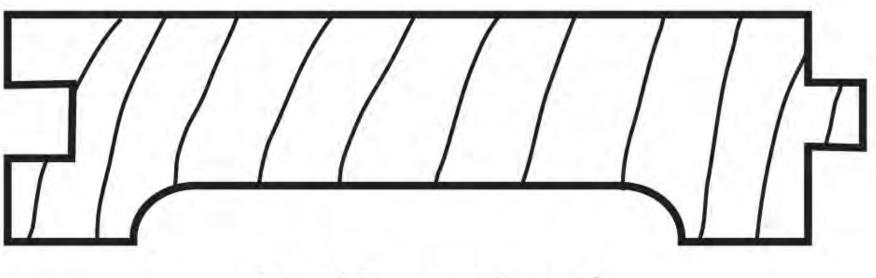






Alternative on a wood/ wood-based floor

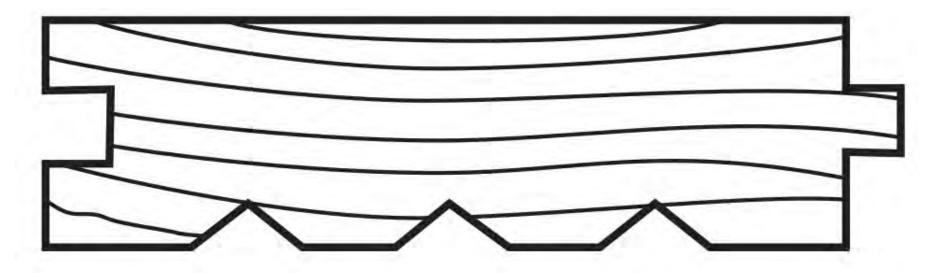




Hollow Back

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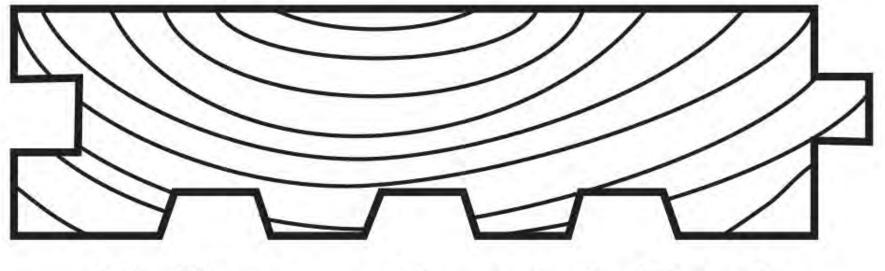
Joseph Lstiburek 16



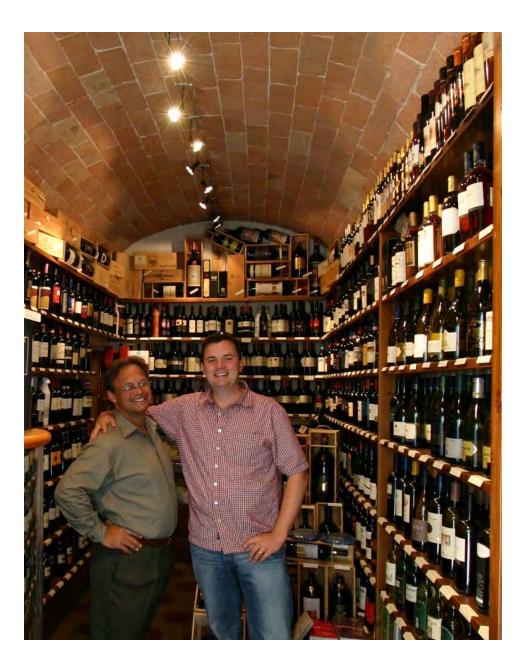
Scratch Back

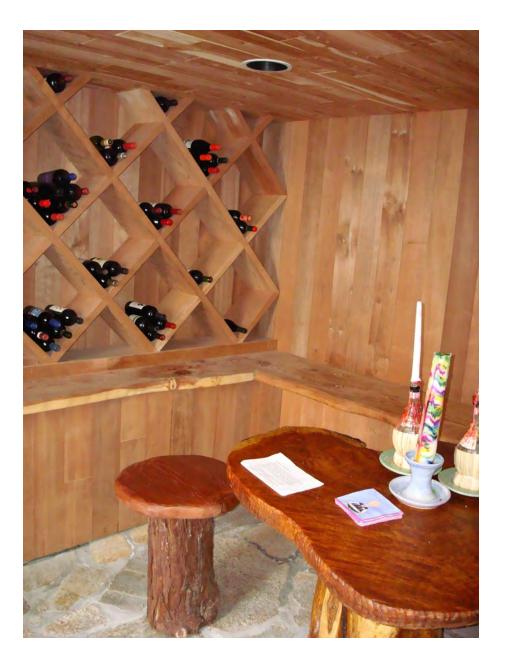
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Hollow or Scratch Back





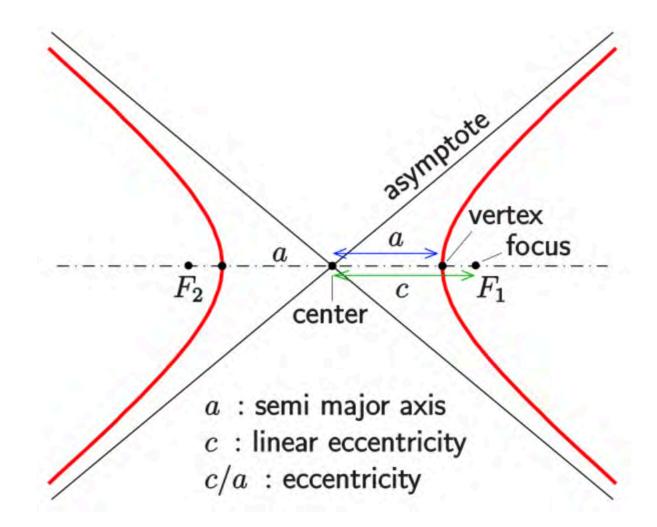
What is the function of these holes?



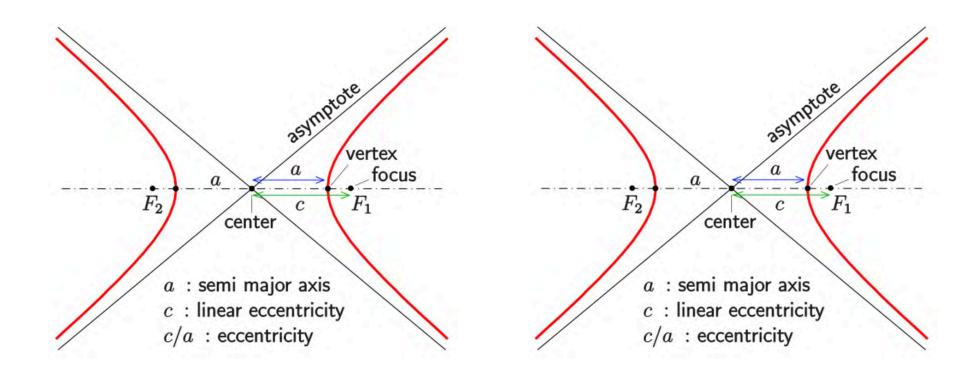
Hyperbolic Curves

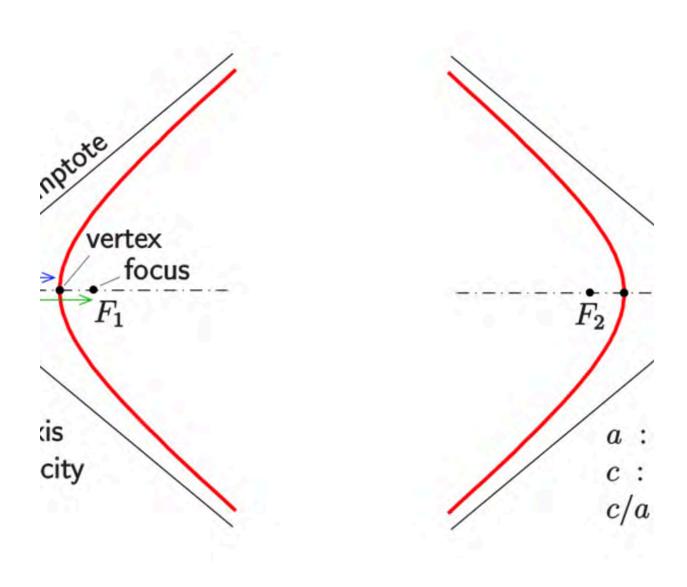
Hyperbolic Curves – two curves Eccentricity greater than one Parabolic Curve – single curve Eccentricity of one Hyperbolic Curves – two curves Eccentricity greater than one X2/a2 - y2/b2 = 1

Parabolic Curve – single curve Eccentricity of one Y = ax2, a not equal to 0









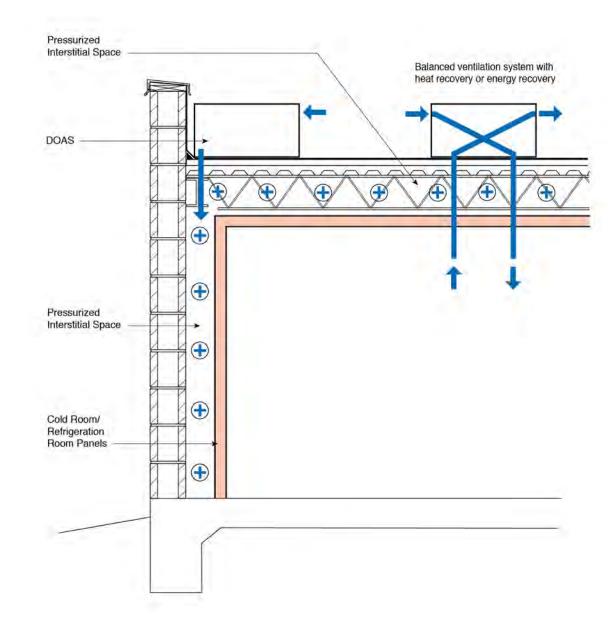




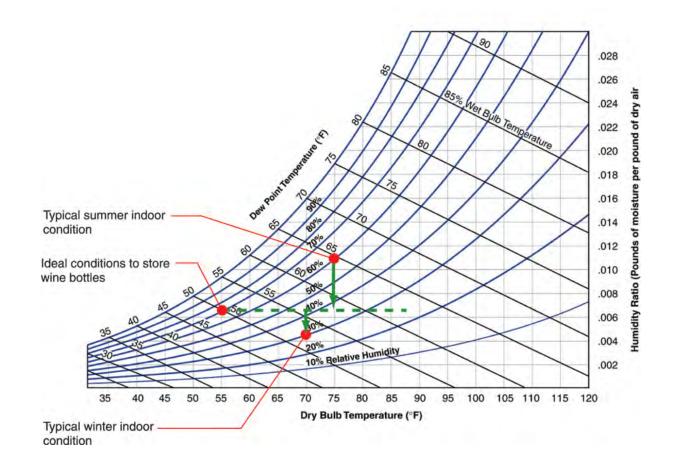
Grow Rooms

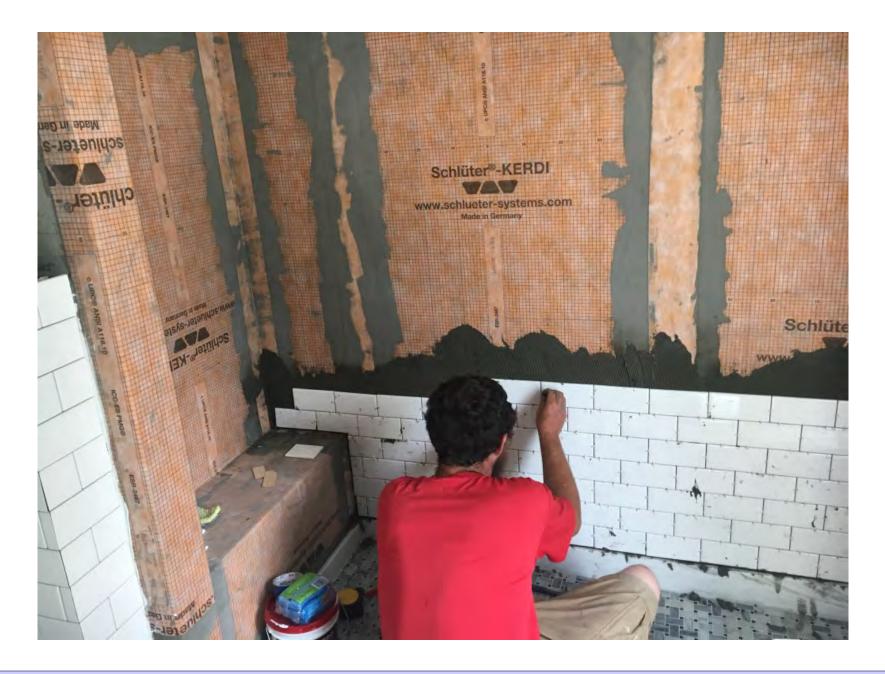






Steam Showers



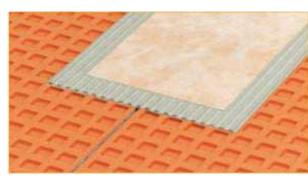














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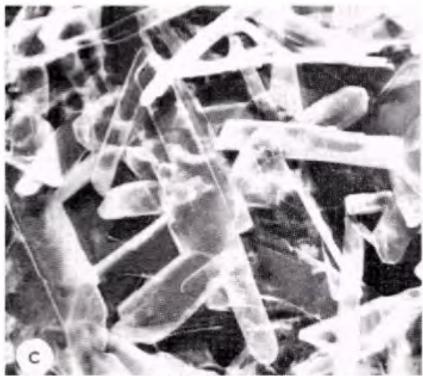


Figure 1c. Gypsum, hydrated from plaster of paris and water, porosity 30 per cent.

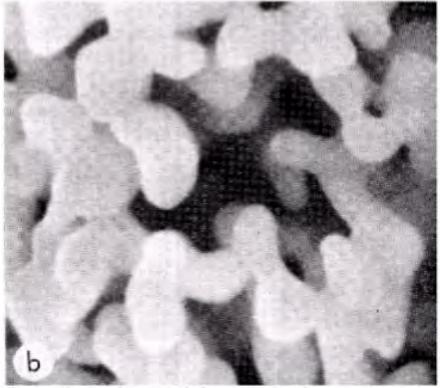


Figure 1b. Brick, sintered clay, porosity 40 per cent.

