

FACTS ABOUT INSULATION...

28 Years ago we selected R-Control Expanded Polystyrene (EPS) as our insulation of choice. The reasons were many and the best choice was clear:

- EPS has never contained CFC's, HCFC's or HFC's, which are harmful to the earth's ozone layer. Urethane has recently ended their use of ozone depleting chemicals because of strict governmental regulations.
- EPS is 100% recyclable, and can be recycled in many ways. Urethane has limited options for recycling its waste. We are very proud of the "green" nature of our operation.
- EPS is inert, strong, dimensionally stable, lightweight, non-corrosive and has excellent insulating properties. Urethane is also a good insulation, but degrades with age, and will quickly lose some of its initial insulating value.

EPS's unique properties allow SRC to build panels with 100% solid insulation. Our modern facility with the latest production machinery provides PPC[®] (Premium Panel Construction). Our process bonds the EPS foam to heavy gauge white baked enamel metal skins. This method provides all the necessary and required strength to eliminate "old style" wood perimeter framing still used by competitors.

Things to know concerning the urethane process...

Urethane starts as a liquid which is injected in a cavity formed by "rails" and metal skins. To save on costs, most manufacturers use untreated pine lumber to form their perimeter.

- 1) Wood adds unnecessary weight, which makes transportation more costly and handling more difficult to both the manufacturer as well as the installer.
- 2) Wood is a very poor insulator. A 2x4 is only R 4.3 through its thickness. Even a small cooler with 14 individual panels will have a total of 42" of vertical 2x4 framing! This is an extreme liability to the overall efficiency of the structure. EPS makes a superior insulated panel when compared to a wood framed urethane panel.
- 3) In a cooler or freezer application, a dew point will occur within the wood, which will eventually become saturated with moisture. This is a breeding ground for mold. It is common with wood framed freezers to see condensation on the outside of the panel perimeters. This demonstrates the poor insulating properties of the wood rails.
- 4) Wood will twist and warp over time. Stress is put on the locking mechanisms, seals can break down, and doors can lose their tight fit. EPS structures remain dimensionally stable through time, and with proper use will outlast the buildings which house them.
- 5) Injecting wood framed panels with expanding liquid urethane foam continually runs the risk of voids. The effectiveness of the finished product cannot be judged because it is hidden behind metal and wood. Cavities in the internal foam can occur, and can only be found by destroying the panel.

SRC EPS panels are 4" thick solid foam so no voids can exist. They are not dependant on the skill of the fabricator. Choosing SRC EPS panels is a WIN-WIN investment for you and the environment.



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