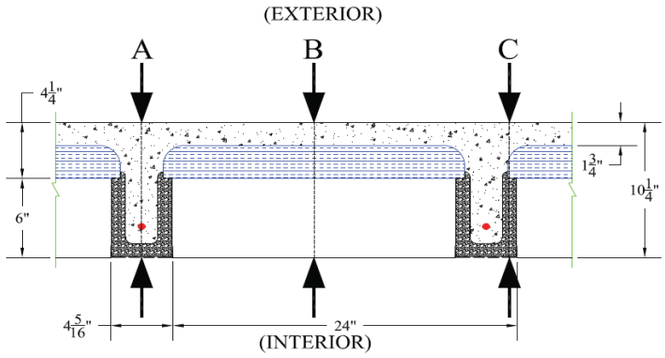
R -VALUE FOR Xi SUPERIOR WALLS

(The R-Value Computation Method)

This calculation for the R-value for the Superior Wall system is calculated using an area weighted R-Value computation method (2012 IRC Section N1102.1.1 and IECC 402.1.2). Results are based on percent of actual wall area for a 24 inch section of the wall area (See section detail below). This R-value computation method uses insulation materials only and does not include any R-value for other building materials or air films.

	Stud Center R-value:	**Cavity Space R-value:**	**Stud Side R-value**
	(A)	(B)	(C)
Insulation: 2-$^1/_2$" XPS	0	12.5	0
Insulation: EPS	3.8	0	22.8
Total R-values	3.8	12.5	22.8



Object Dimension as a Percentage of 24" Section

Concrete stud width ratio	**0.094**
Cavity width ratio	**0.823**
Stud side insulation ratio	**0.083**

R-Value of Object as it Contributes to 24" Section

Stud (A)	=	**3.8**	**x 0.094**	=	**0.357**
Cavity (B)	=	**12.5**	**x 0.823**	=	**10.3**
Stud Sides (C)	=	**22.8**	**x 0.083**	=	**1.89**

R-VALUE (Total System) = 12.5

U-VALUE (Total System) = 0.080