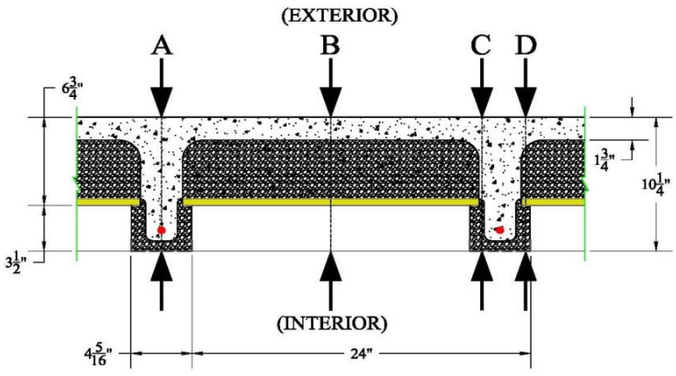
R-4.0/inch EPS Insulation.

R -VALUE FOR Xi PLUS SUPERIOR WALLS PANELS

(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 (2009 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:**	**Stud Side R-value:**
	(A)	(B)	(C)	(D)
Insulation: 4-$^1/_2$" EPS .	0	18	0	0
Insulation: 3.9" of EPS	0	0	15.6	15.6
Insulation: ½ Thermax®	0	3.3	0	3.3
Insulation: ¾" EPS	3	0	0	0
Insulation: 3 ½" of EPS	0	0	0	14
	3	**21.3**	15.6	32.9



Object Dimension as a Percentage of 24" Section

A. Stud Center width ratio	**0.094**
B. Cavity width ratio	**0.823**
C. Stud side insulation ratio	**0.034**
D. Stud side insulation ratio	**0.050**

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

Stud (A)	=	**3**	**x 0.094**	=	**0.28**
Cavity (B)	=	**21.3**	**x 0.823**	=	**17.50**
Stud Sides (C)	=	**15.6**	**x 0.034**	=	**0.53**
Stud Sides (D)	=	**32.9**	**x 0.050**	=	**1.65**

All EPS insulation used in this example is assumed to be 1.5 lb. density rated R-4 per inch.

R-VALUE (Total Systen 20.0

U-VALUE (Total Syster 0.05