MEADOWLARK BUILDERS

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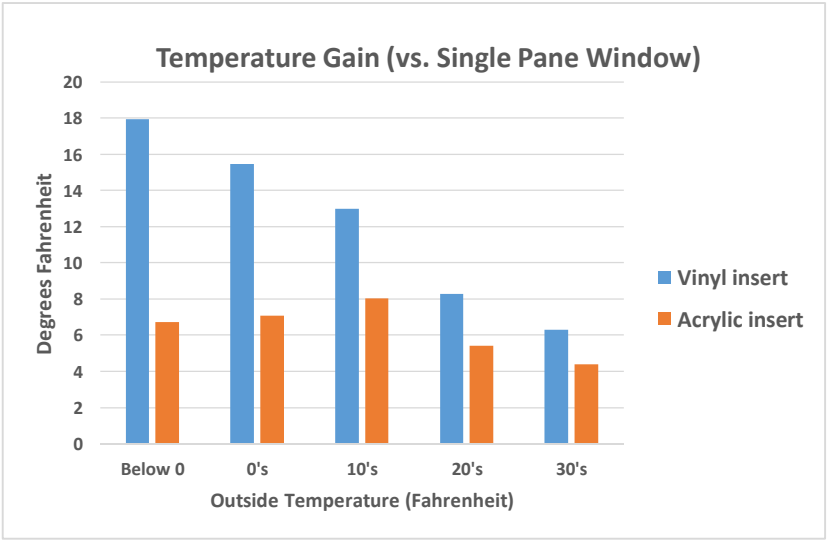
Independent Energy Study, Winter 2014, performed on behalf of EZ Storm Panels of St. Clair Shores, MI.

During the severe winter months of 2014, we took separate surface temperature readings on each a vinyl pane and an acrylic pane and recorded a 30 point data study between Dec. 23, '13 & Feb 10, '14. To our surprise we found that in every category of degrees F; below 0, 0-10, 10-20, 20-30, 30-40, the vinyl pane had higher temperature recording than did the acrylic pane and the colder it was the higher the difference between the two materials. In fact, the difference became exponential; as the temperature dropped to below zero, the percentage difference was as much as 167%.

***Conclusion** : 16 gage vinyl outperformed 1/8 acrylic as a insulator against colder temperature and the colder the temperature, the greater was the difference in surface temperature of the vinyl to acrylic material.*

Temp. F	Vinyl insert	Acrylic insert	% Diff
Below 0	17.9	6.7	167%
0's	15.5	7.1	119%
10's	13.0	8.0	61%
20's	8.3	5.4	53%
30's	6.3	4.4	43%



Outdoor Temp	Vinyl	Control	Vinyl-Outdoor	Control-Outdoor	Vinyl-Control	Acrylic	Control	Acrylic-Outdoor	Control-Outdoor	Acrylic-Control
-12	55	32.2	67	44.2	22.8	46.4	40.6	58.4	52.6	5.8
-4	65.3	49.7	69.3	53.7	15.6	56.8	51	60.8	55	5.8
-3	61.7	43.2	64.7	46.2	18.5	57.6	48.8	60.6	51.8	8.8
-2	63	45.4	65	47.4	17.6	53.8	49.2	55.8	51.2	4.6
-2	61.8	42.3	63.8	44.3	19.5	53.8	44.8	55.8	46.8	9
-2	63.8	50.2	65.8	52.2	13.6	58.7	52.4	60.7	54.4	6.3
					17.9					**6.7**
0	65.4	47.6	65.4	47.6	17.8	55.9	48.2	55.9	48.2	7.7
2	63.9	46.9	61.9	44.9	17	57.4	50.3	55.4	48.3	7.1
3	63.7	47.2	60.7	44.2	16.5	58.3	47.9	55.3	44.9	10.4
6	65.7	48.2	59.7	42.2	17.5	59.5	52.5	53.5	46.5	7
7	64.5	45.8	57.5	38.8	18.7	56.5	49.8	49.5	42.8	6.7
2	57.9	41.7	55.9	39.7	16.2	49.3	44.6	47.3	42.6	4.7
8	65.4	55.3	57.4	47.3	10.1	60.4	53.4	52.4	45.4	7
6	69.3	57.6	63.3	51.6	11.7	61.4	56	55.4	50	5.4
7	65.4	51.8	58.4	44.8	13.6	60.6	53	53.6	46	7.6
					15.5					**7.1**
13.1	67.6	51.7	54.5	38.6	15.9	64.7	54	51.6	40.9	10.7
13.4	67.7	56.1	54.3	42.7	11.6	56.8	51.8	43.4	38.4	5
16.1	67.3	54	51.2	37.9	13.3	65.4	53.8	49.3	37.7	11.6
16.1	66.9	52.1	50.8	36	14.8	56.8	51.8	40.7	35.7	5
19	71.4	62.1	52.4	43.1	9.3	66.2	58.3	47.2	39.3	7.9
					13.0					**8.0**
21	64.8	59.1	43.8	38.1	5.7	62.1	57.1	41.1	36.1	5
23	69.1	60.3	46.1	37.3	8.8	63.1	57.2	40.1	34.2	5.9
23	69.4	61.6	46.4	38.6	7.8	64.3	60.5	41.3	37.5	3.8
24	66.5	60	42.5	36	6.5	66.4	59.9	42.4	35.9	6.5
25	68.4	60.7	43.4	35.7	7.7	64	59.8	39	34.8	4.2
28	68.5	56.9	40.5	28.9	11.6	64.5	58.3	36.5	30.3	6.2
28	67.5	57.6	39.5	29.6	9.9	64.5	58.1	36.5	30.1	6.4
					8.3					**5.4**
30.9	66	60	35.1	29.1	6	65.6	60	34.7	29.1	5.6
38	67.2	60.6	29.2	22.6	6.6	64.8	61.6	26.8	23.6	3.2
					6.3					**4.4**