



Temperature Changes & Expansion/Contraction

June 13, 2023

It is important to remember that ChamClad® materials will expand and contract with regular temperature changes. ChamClad® trims allow for any variance in panel lengths due to expansion/contraction.

When placing fasteners in the center of the designated nail slots, always leave a 1/32" gap between the fastener head and nail flange to allow ChamClad® panels to expand/contract as needed.

The below guide provides recommended spacing based on temperature and Panel Length.

Expansion Guide (by temperature shift)

OUTSIDE TEMP.		GAP PER SIDE (Gap in inches)				
°F	°C	12	16	20	25	30
-40	-40	9/16	11/16	7/8	1	1
-22	-30	1/2	5/8	3/4	15/16	1
-4	-20	7/16	9/16	11/16	13/16	1
14	-10	3/8	1/2	5/8	3/4	7/8
32	0	3/8	7/16	1/2	5/8	3/4
50	10	5/16	3/8	7/16	1/2	5/8
68	20	1/4	5/16	3/8	7/16	1/2
86	30	3/16	1/4	1/4	5/16	3/8
104	40	1/8	3/16	3/16	3/16	1/4
122	50	1/16	1/16	1/16	1/16	1/16

The temperature chart is Based on a 90° Temperature change.

** For colder climate Installs or panels greater than 20ft (see red values in the chart) use larger face 2pc trims (J-Trim, Outside corner, etc.)



ChamClad® Universal Screw

** Always be mindful of your starting temperature and season you are installing in**