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Estimating For The Stand-Off MPV Bracket

The Stand-Off MPV Bracket was engineered for a spacing of 1'-4" x 4'-0" for cladding systems up to 10lbs / sf. Cladding systems that weigh more than 10 lbs/sf the spacing of the brackets will need to be tighter. Please refer to our loading chart on our website for spacing based on cladding system weights. In order to estimate the number of brackets that you will need for your project, divide the square foot of rainscreen panel veneer by 5.32 (1'-4" x 4'-0"). Other spacings can be used such as 4'-0" x 1'-4" or 2'-0" x 2'-8". You will need to factor in additional brackets for the top of the wall if the spacing does not lay out to 4'-0" increments. You will also need additional brackets at external and internal corners that do not lay out to 1'-4", 2'-0", 2'-8" or 4'-0" increments. as well as door and window jambs. This will range from between 5% and 15% based on the building. Flat stock can be used if you need additional attachment rails due to smaller size panels.

Once you know the number of brackets needed, you can determine the linear feet of attachment rail (typically hat furring) by multiplying the number of brackets by 4'-0". If you are using hat furring as the attachment rail, it should be 18 ga G90 galvanized or stainless steel. This was calculated by our Engineer for the worse wind load conditions in this country. If you use flat stock or mini-z-furring, the gage of the metal will have to be calculated by your engineer.

To attach the Stand-Off MPV Bracket to the back-up wall you will need two screws / bracket. For light gage metal framing, the screws should be # 10 x 2" hex head Tek® 1 screws with a neoprene washer and corrosion protecting coating or stainless steel.

To attach the attachment rail to the top plate of the Stand-Off MPV Bracket, you will need two screws per attachment point. The two screws will keep the top plate from rotating once they are installed. These screws need to be at least Tek® 3 pointed to self-tap through the attachment rail and 12 ga. top plate. They should be # 10 x ¾" hex head with a corrosion resistant coating or stainless steel.

Example: 30,000 sf of rainscreen panel veneer

30,000 sf / 5.32 = 5,639 brackets x 1.10 = 6,203 brackets

6,203 brackets x 4'-0" = 24,812 lf of hat-furring

Bracket attachment screws: 6,203 x 2 = 12,406

Attachment rail screws: 6,203 x 2 = 12,406