MONARCH METAL INC.

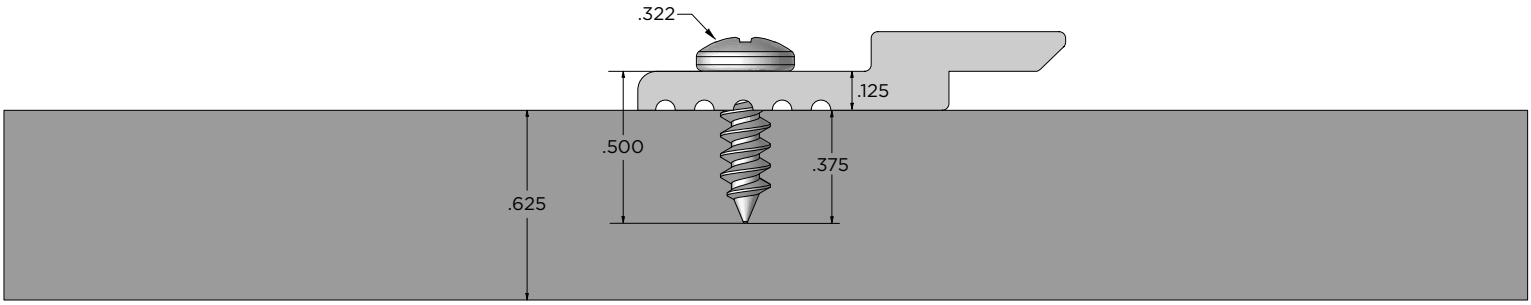
#8 FASTENERS

GENERAL SCREW GUIDE

PANEL THICKNESS RECOMMENDATION

Use the reference table below to identify the optimal fastener length based on specified panel thickness and Z Clip product.

Monarch Product	Flange Thickness	Screw Size	Panel Min.	Panel Max.
MF250/MF375/MFTH625	0.125”	#8x1/2	0.625”	0.875”
		#8x5/8	0.75”	1.25”
		#8x3/4	1.00”	1.375”
MF625	0.075	#8x1/2	0.625”	1.00”
		#8x5/8	0.75”	1.375”
		#8x3/4	1.00”	1.50”



SCREW EMBEDMENT DEPTH

Screw embedment depth refers to the total distance the threaded portion of a fastener penetrates the panel material. To ensure a secure, high-withdrawal-resistance connection, the typical range of depth is between 40-70%.

Panel Thickness	MF250/MF375/MFTH625						MF625					
	#8x1/2		#8x5/8		#8x3/4		#8x1/2		#8x5/8		#8x3/4	
0.625”	0.375”	60%	.50”	-	.625”	-	0.425”	68%	0.55”	-	.675”	-
0.75”	0.375”	50%	.50”	66.7%	.625”	-	0.425”	56.7%	0.55”	73.3%	.675”	-
0.875”	0.375”	42.9%	.50”	57.1%	.625”	71.4%	0.425”	48.6%	0.55”	62.9%	.675”	77.1%
1.00”	0.375”	37.5%	.50”	37.5%	.625”	62.5%	0.425”	42.5%	0.55”	55%	.675”	67.5%
1.25”	0.375”	30%	.50”	40%	.625”	50%	0.425”	34%	0.55”	44%	.675”	54%
1.375”	0.375”	27.3%	.50”	36.4%	.625”	45.5%	0.425”	30.9%	0.55”	40%	.675”	49.1%
1.50”	0.375”	25%	.50”	33.3%	.625”	41.7%	0.425”	28.3%	0.55”	36.7%	.675”	45%

Typical Range is 40-70%