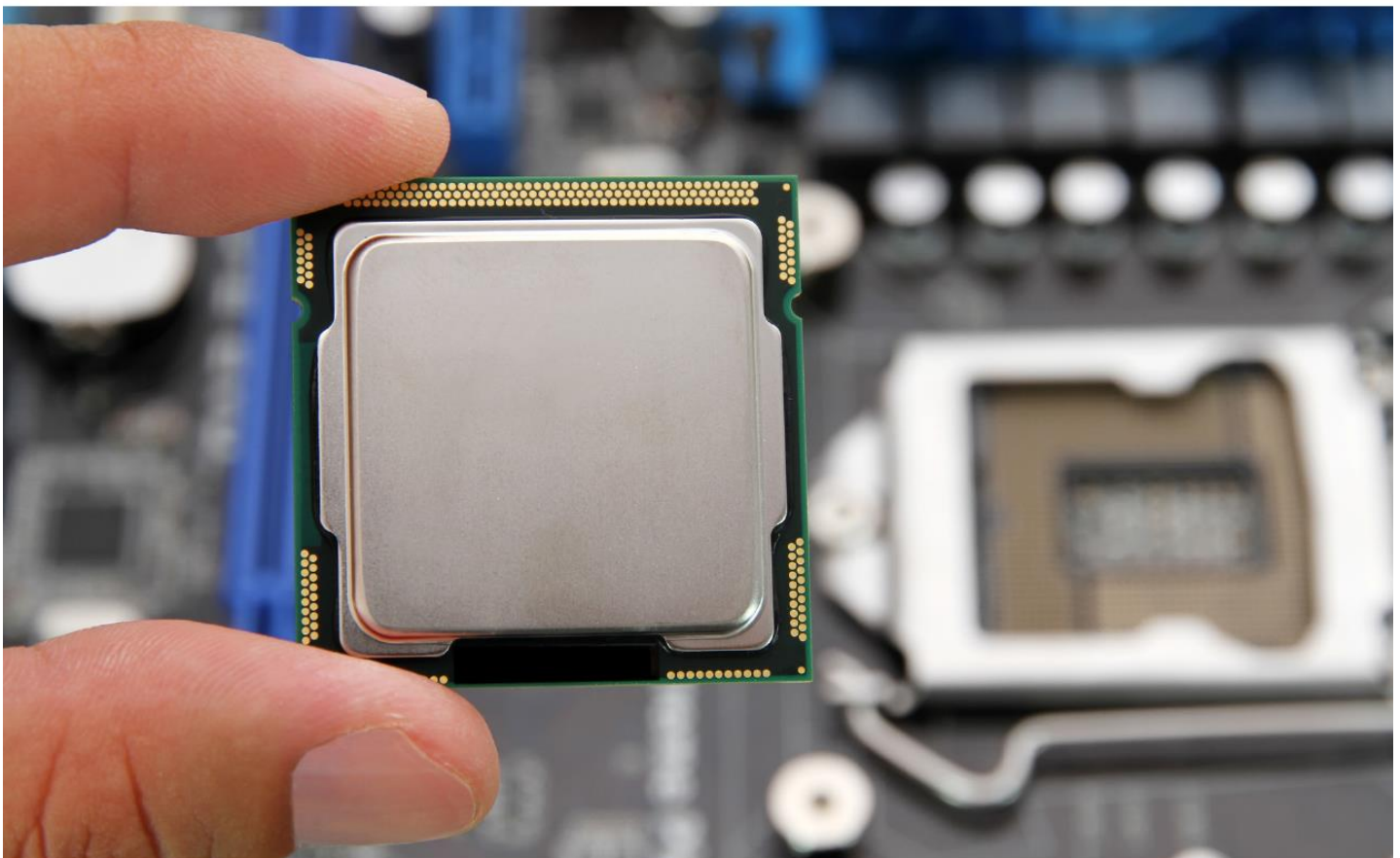


SHIELDING DESIGN FLOW CHART

Mike Oliver, VP Electrical Engineering
MAJR Products Corp.



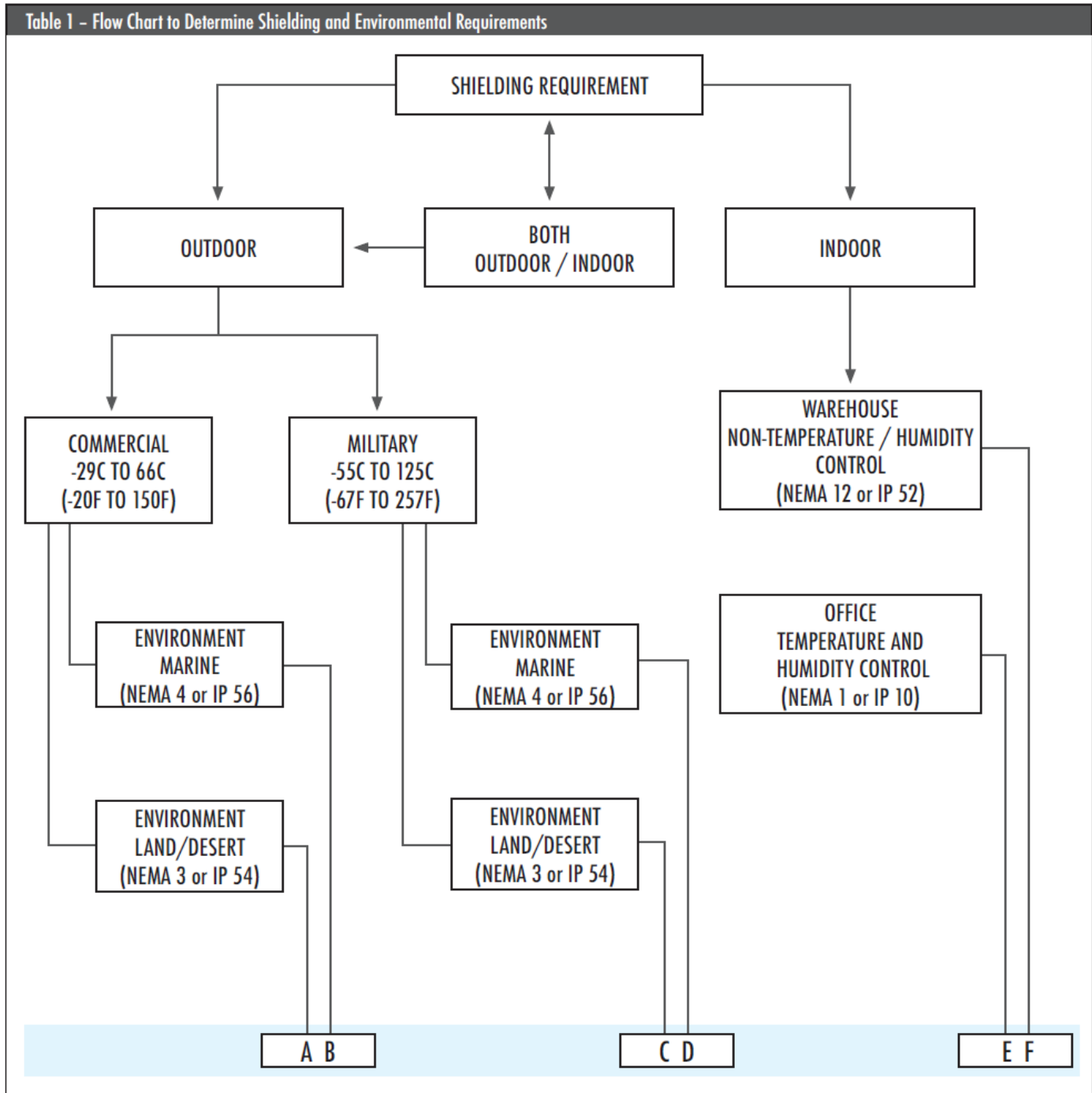
SHIELDING DESIGN FLOW CHART

This flow chart in *Table 1* will assist the designer in selecting the appropriate shielding options necessary to meet their shielding and environmental requirements.



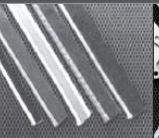


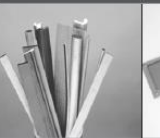
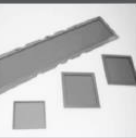

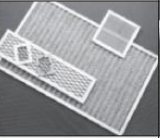




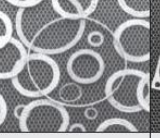



The shielding requirement flow chart begins by identifying the type of NEMA or IP enclosure based on the intended environment (indoor/outdoor, military/commercial, marine or land/desert). Then, using the resulting letter

designation A-F and continuing on to the second shielding flow chart (*Table 2*), the engineer can then evaluate the available shielding product options for the particular NEMA/IP enclosure.

In addition, all shielding products shown in the table, depending on profile, configuration, compression, galvanic compatibility, required attenuation, etc., will enable an electronic product to meet MIL-STD-461 and other military or commercial specifications.



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Table 2 – Shield Selection Chart							
ENCLOSURE DOOR / COVER							
PRODUCT NAME	CONDUCTIVE ELASTOMER	FINGERSTOCK GASKET	SHIELD SEAL STRIP GASKET	MULTICON GASKET	KNITTED WIRE GASKET	CONDUCTIVE FABRIC	CONDUCTIVE WINDOW
NEMA / IP (DEPENDENT ON CONFIGURATION)	A, B, C, D, E, F	E, F	A, B, E, F	A, B, C, D, E, F	E, F	E, F	A, B, C, D, E, F
MIL-STD-461 (DEPENDENT ON CONFIGURATION)	YES	YES	YES	YES	YES	YES	YES
ENCLOSURE INTAKE / EXHAUST							
PRODUCT NAME	VENT PANEL	AIR FILTER	FRAME GASKET				
NEMA / IP (ANGLED HONEYCOMB)	E, F	E, F	E, F				
MIL-STD-461 (DEPENDENT ON CONFIGURATION)	YES	YES	YES				
ENCLOSURE CONNECTOR / CABLE							
PRODUCT NAME	WIRE MESH TAPE	METAL FOIL TAPE	FERRITE MATERIAL	WIRE MESH WASHER	CONNECTOR GASKET		
NEMA / IP (DEPENDENT ON CONFIGURATION)	N/A	N/A	N/A	E, F	A, B, C, D, E, F		
MIL-STD-461 (DEPENDENT ON CONFIGURATION)	YES	YES	YES	YES	YES		
ENCLOSURE ELECTRONICS							
PRODUCT NAME	BOARD LEVEL SHIELD	ABSORBER MATERIAL					
NEMA / IP (DEPENDENT ON CONFIGURATION)	N/A	N/A					
MIL-STD-461 (DEPENDENT ON CONFIGURATION)	YES	YES					

Please Contact the Author at: emi@majr.com
 For Guidance on the Best Shielding Products to Meet or Exceed
 Specific Shielding Requirements for Your Application