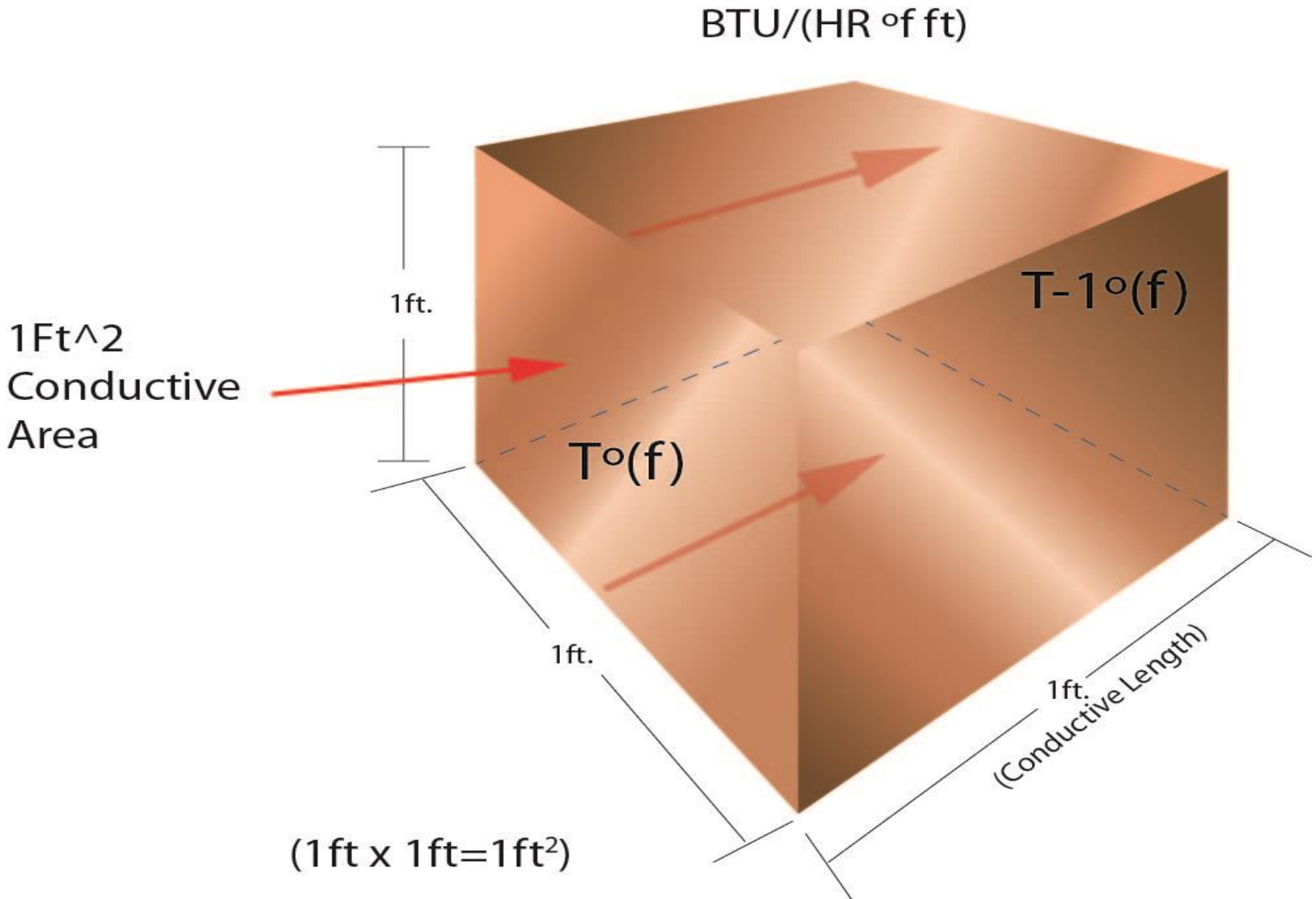
Core Materials and Design

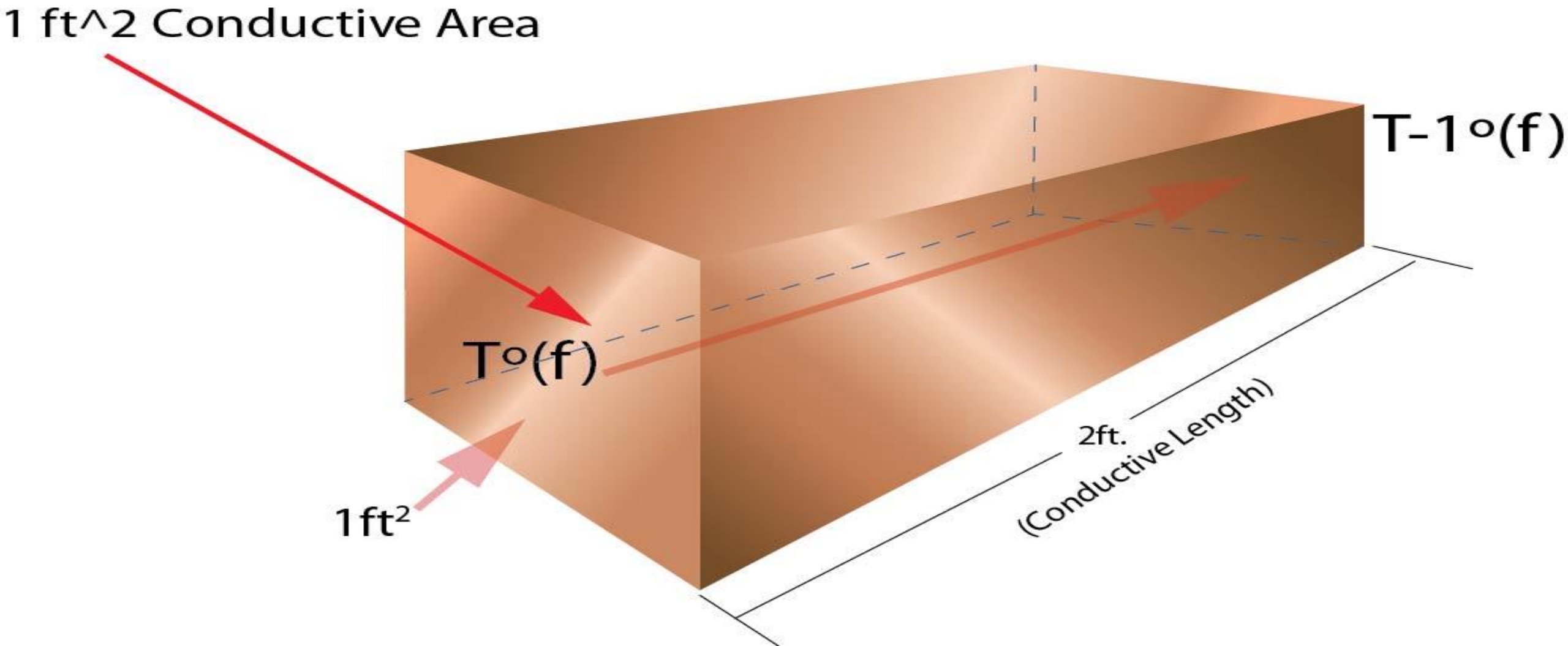
Thermal Conductivity

BTU/(HR*Deg F*Ft.) @ 68F	
Silver	235
Copper	223
Aluminum	118
Brass (70/30)	64
Sleel (Low Carbon)	31
Solder (lead/tin)	20 - 37

Block of Copper Will Conduct 223btu/hr

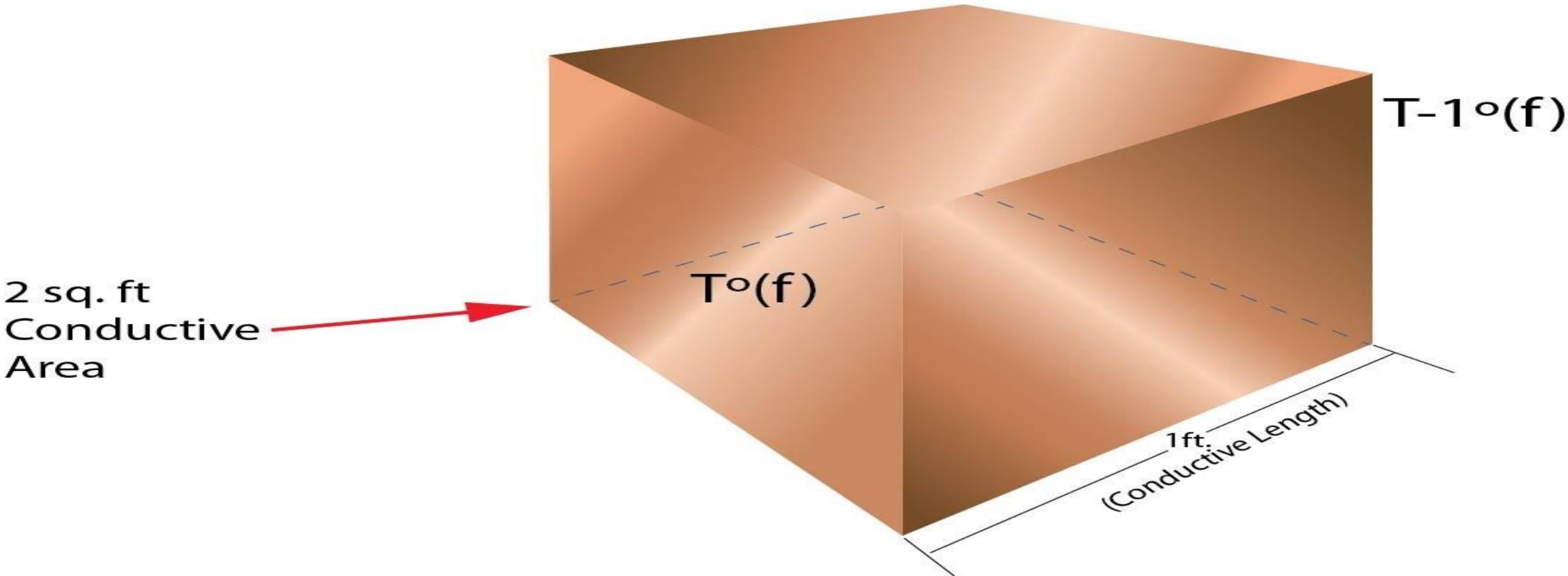


Block of Copper Will Conduct 111.5 BTU/Hr



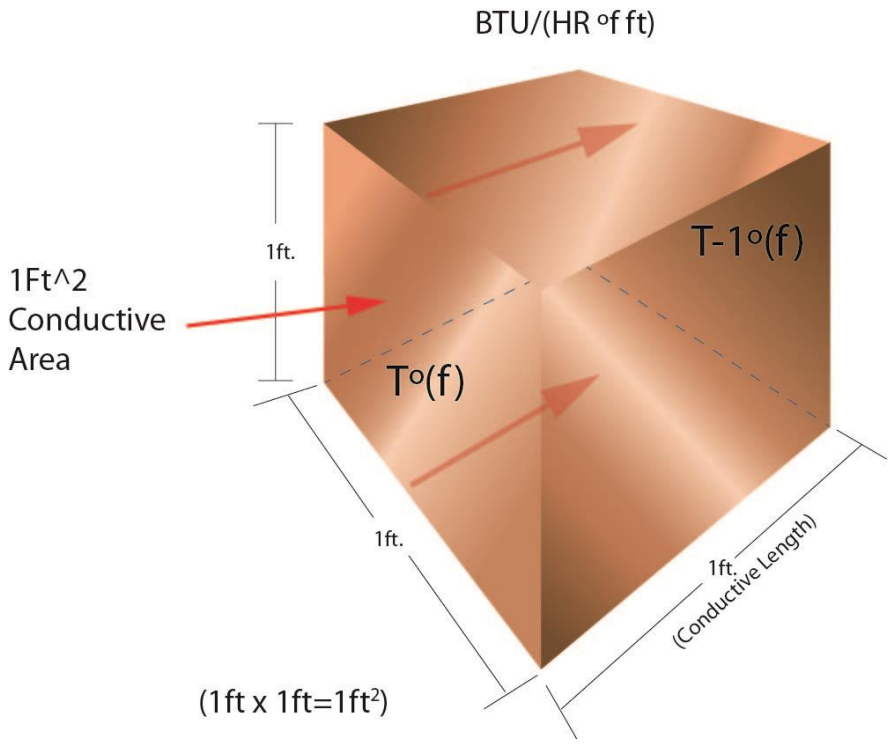
A Block of Copper as Described Would Conduct 446 BTU/Hr

While a Block of Aluminum as Described Would Conduct 236 BTU/Hr



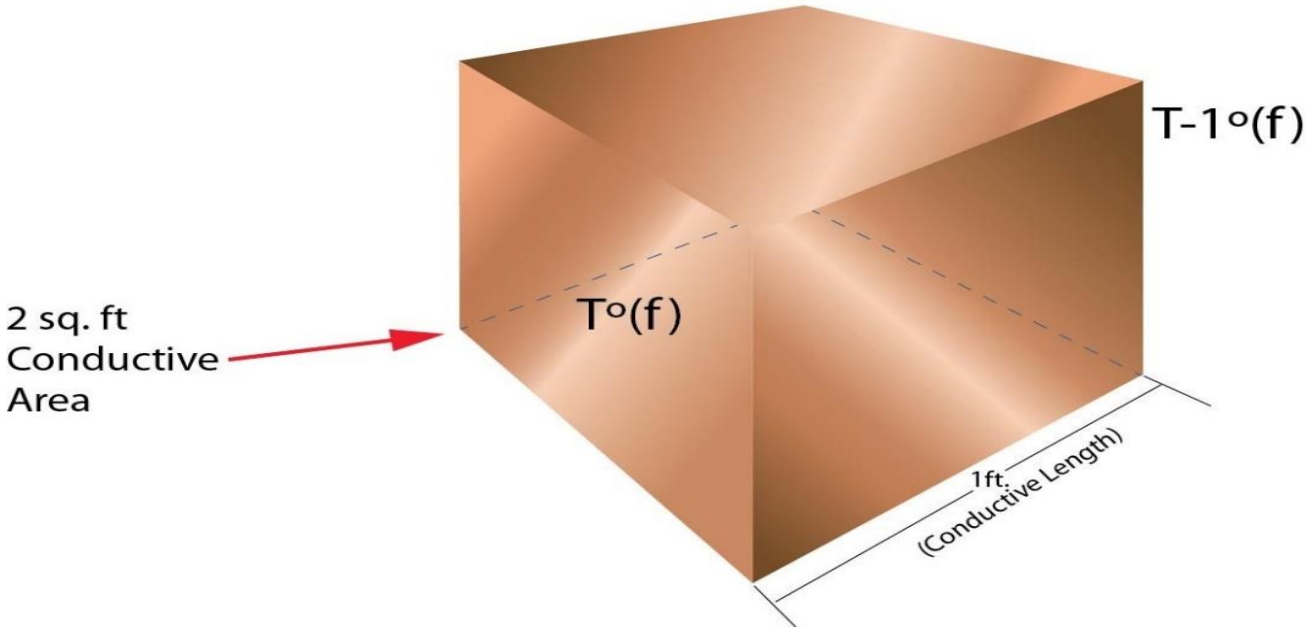
Effect of doubling the area we conduct through (conductive area)

Block of Copper Will Conduct 223btu/hr

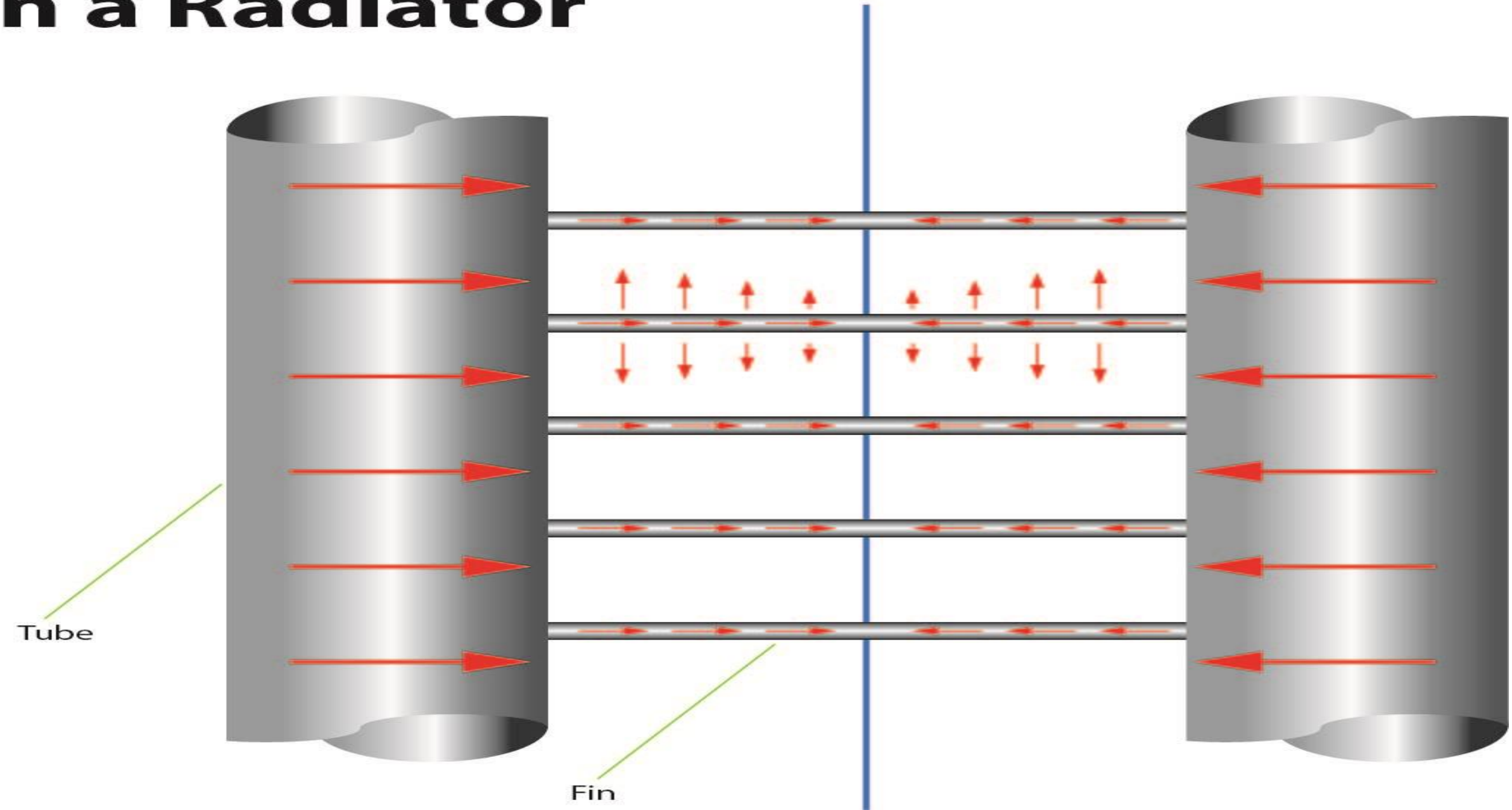


A Block of Copper as Described Would Conduct 446 BTU/Hr

While a Block of Aluminum as Described Would Conduct 236 BTU/Hr



Heat Flow Path in a Radiator



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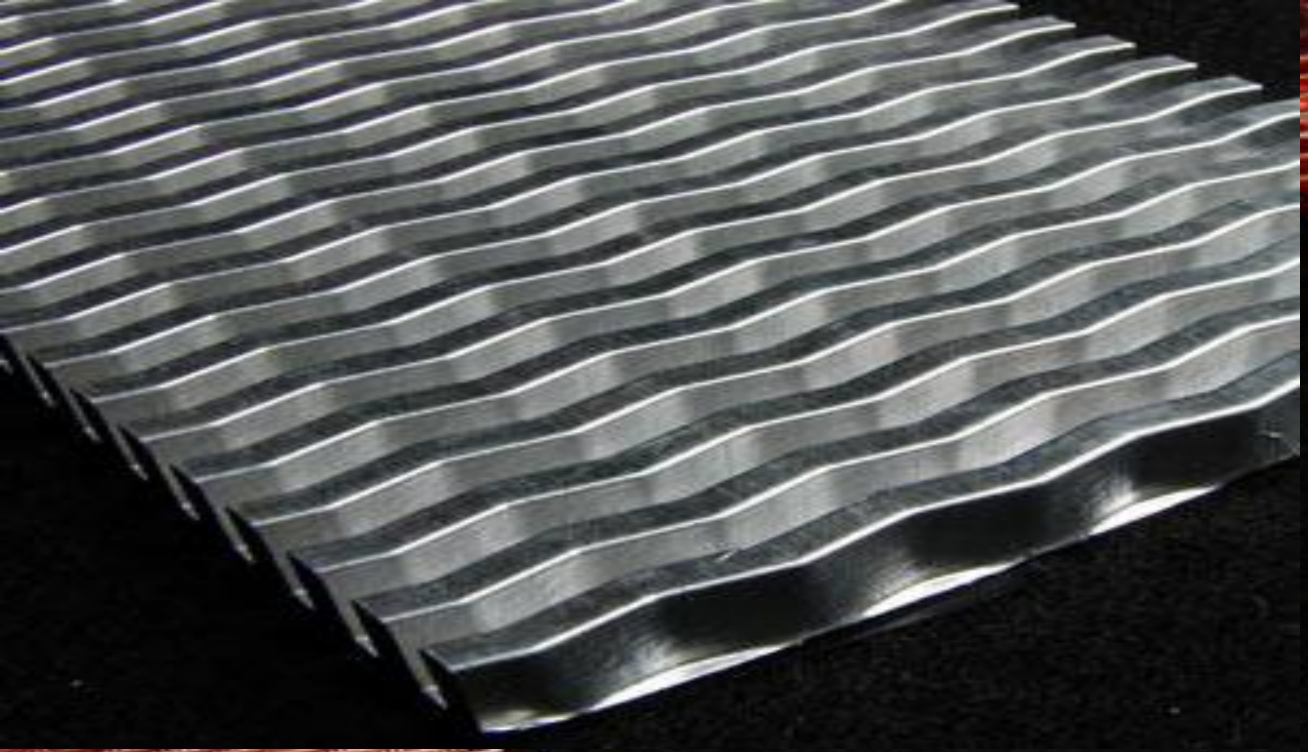
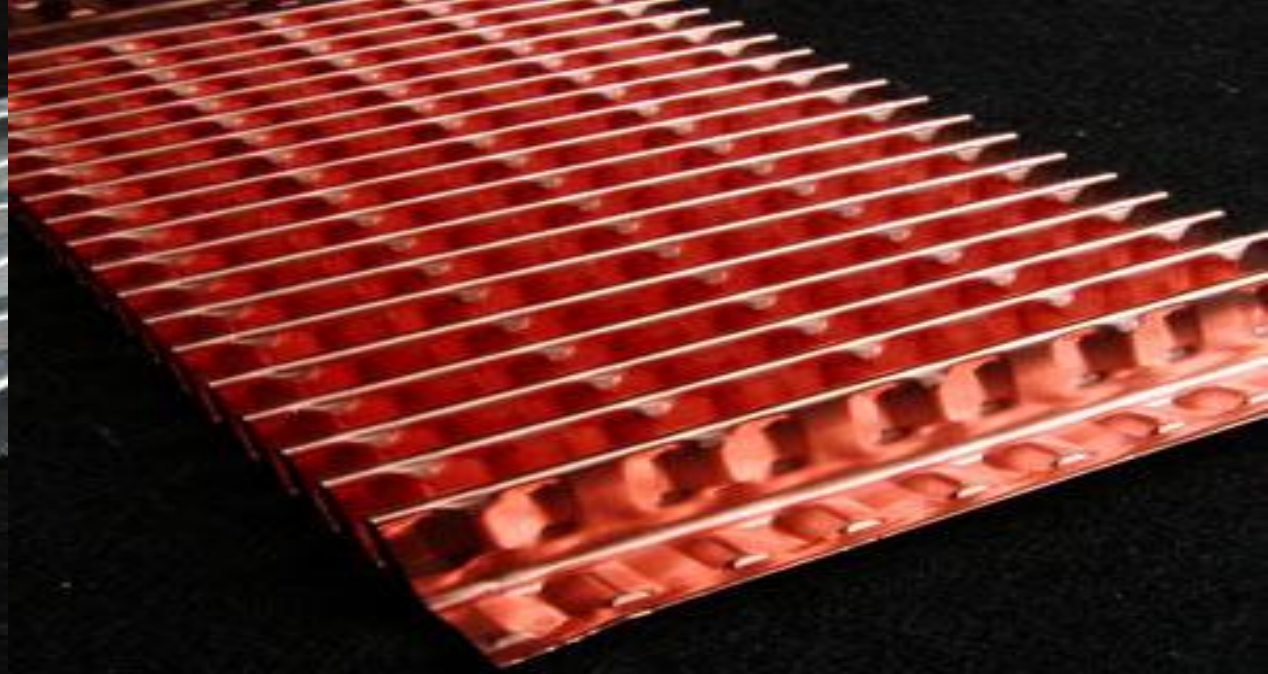
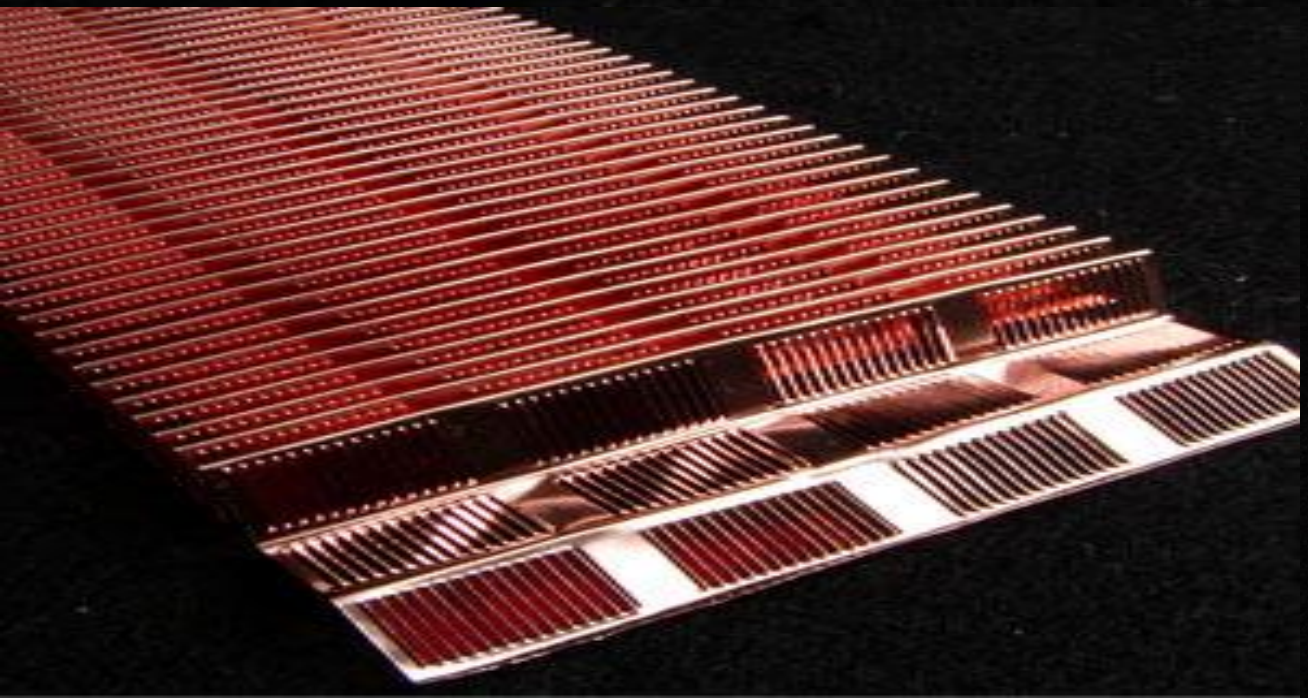
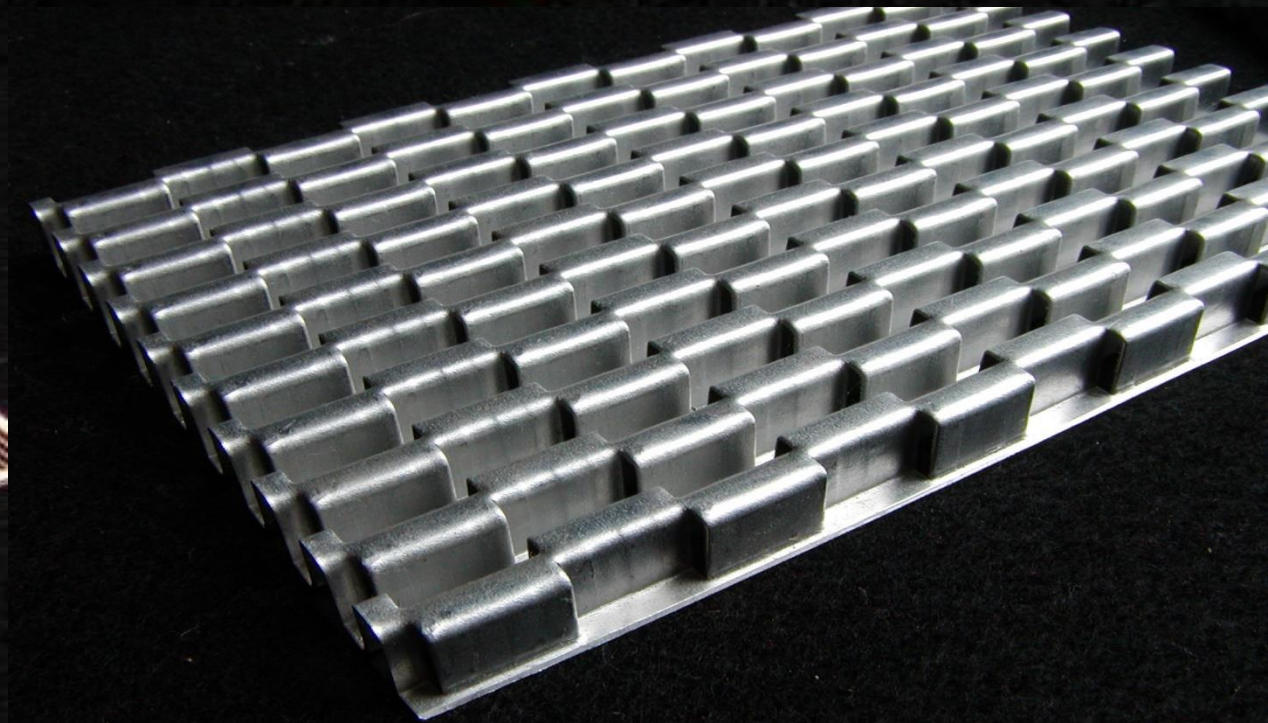
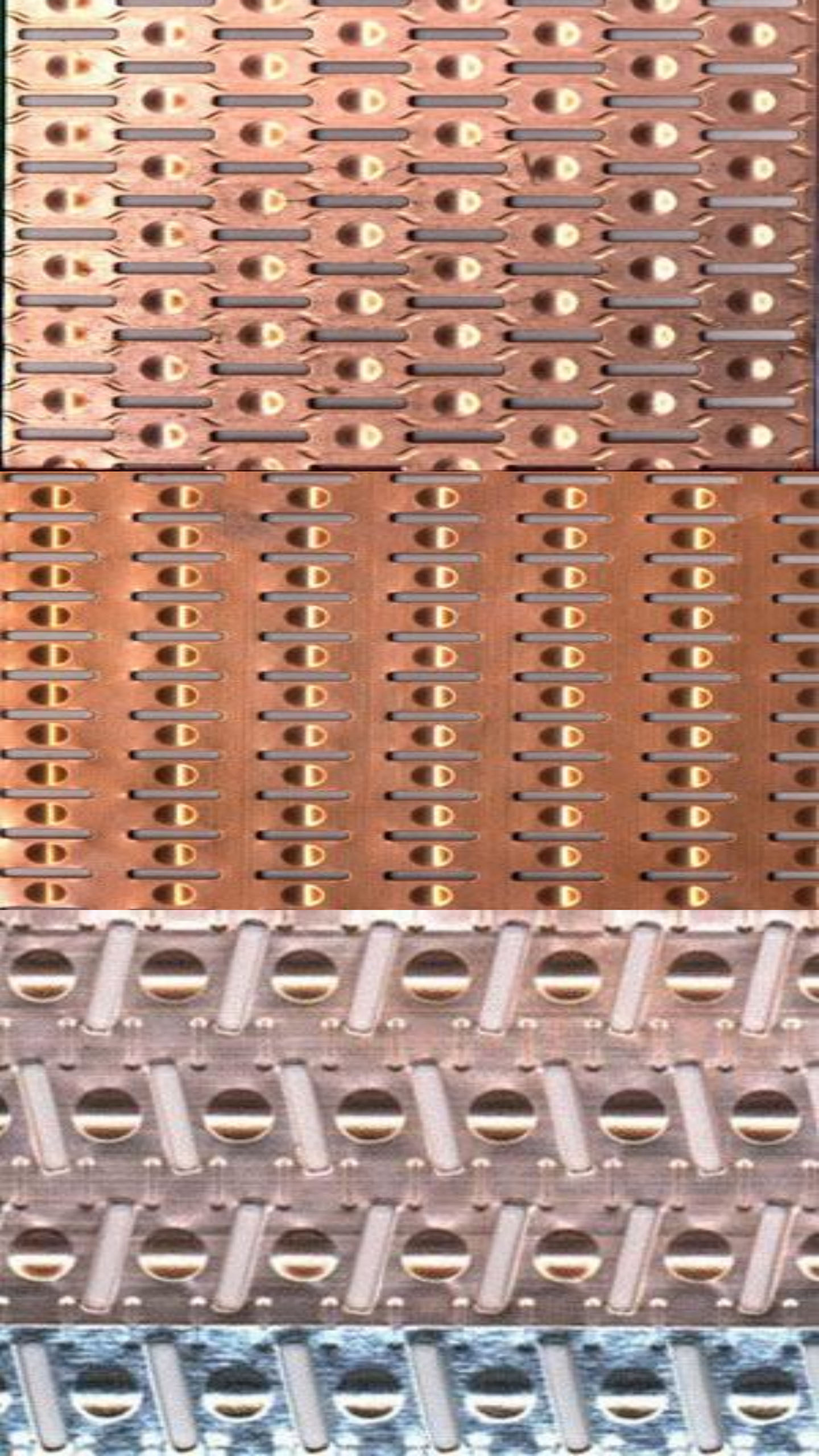










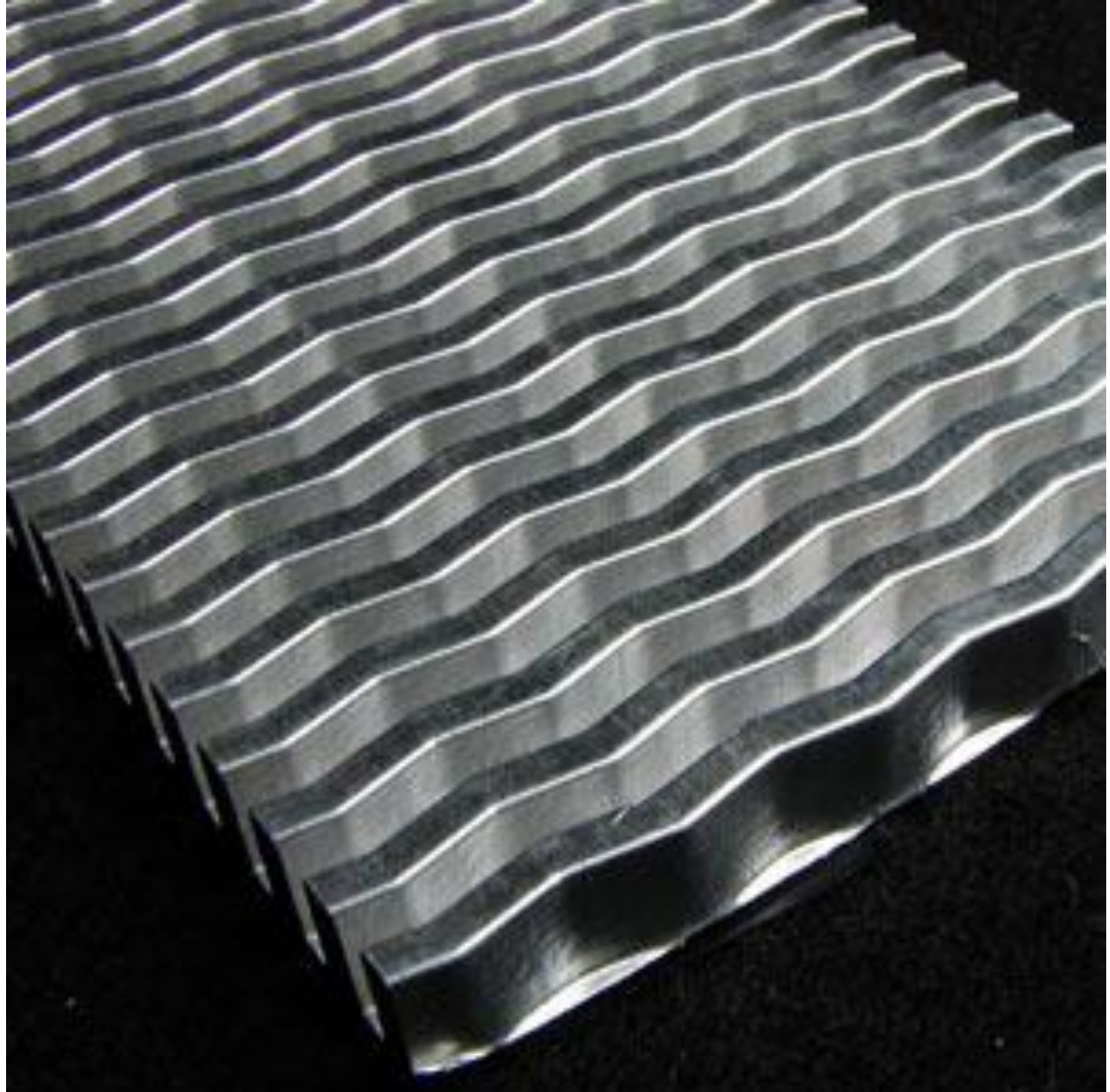
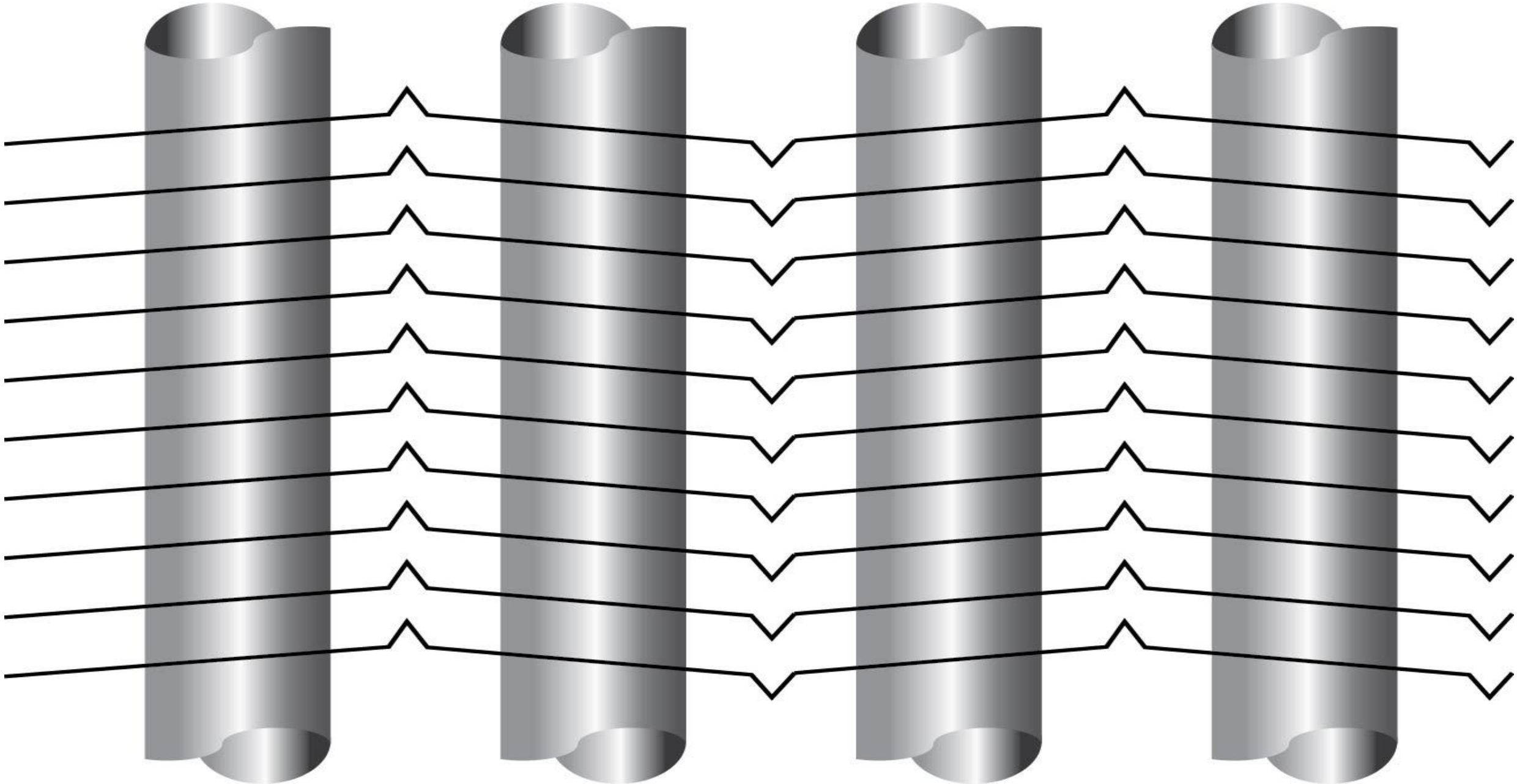
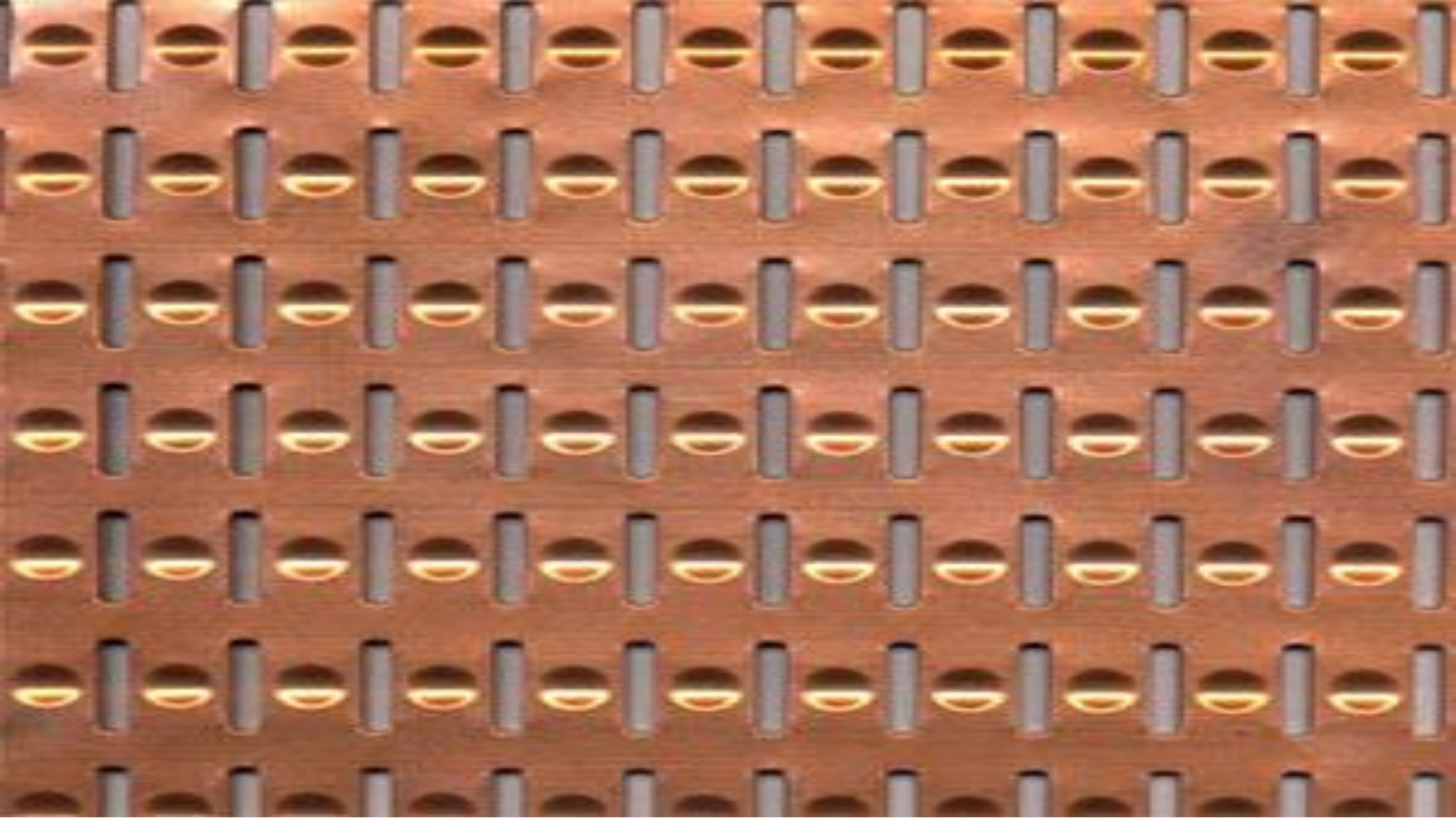
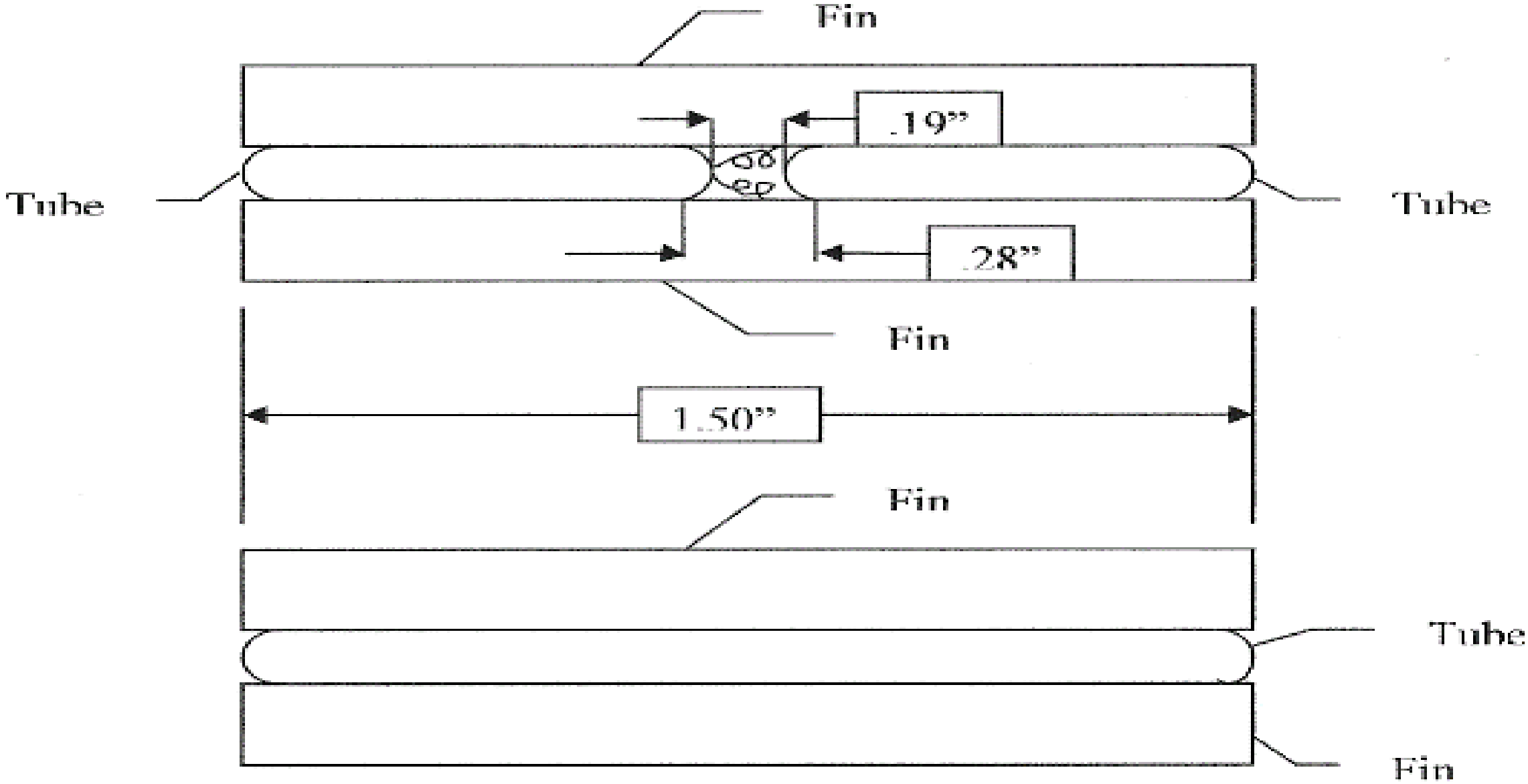


Plate Wave Fin







DEEP TUBE ONE ROW CORE VERSUS TWO ROW CORE