



SIGN • LIGHTING • GRAPHICS • DISPLAY

Excellence in Distribution Since 1946

DP

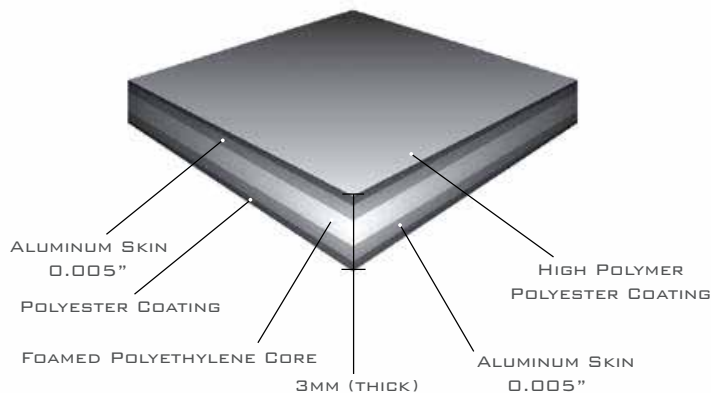


PROJECT: Twins Stadium, MN

- ARCHITECT: CITY OF MINNEAPOLIS
- FABRICATOR: ARCHETYPE, MN
- APPLICATION: OVER 200 SHEETS OF 8X4 WERE USED FOR PARKING RAMP IDENTIFIERS & DIRECTIONAL SIGNAGE
- 2 & 4 COLOR PRINTING USING VUTEK QS 2000
- CHOSEN FOR EXCELLENT ADHESION, EASE OF FABRICATION & CONSISTENCY OF SURFACE

GRAPHICAL™ DP

GRAPHIC-AL™ DP IS A SUPER-LIGHTWEIGHT ACM FOR SIGNAGE AND DISPLAYS. IT IS COMPOSED OF 0.005" THICK ALUMINUM AND A FOAMED POLYETHYLENE CORE. IT IS SUITABLE FOR FLATBED PRINTERS AND UV CURABLE INK. YOU'LL GET OUT-OF-THIS-WORLD RESULTS WITH GRAPHIC-AL™ DP





BENEFITS

- **DIRECT PRINTING WITH UV INK:** THE INK ADHESION IS STABLE AND PERFECT.
- **SUPER LIGHTWEIGHT:** GRAPHIC-AL™ DP 3MM THICK IS ONLY 0.51PSF.
- **HIGH RIGIDITY:** GRAPHIC-AL™ DP 3MM IS EQUIVALENT TO 1.8MM THICK ALUMINUM AND 5.0MM THICK ACRYLIC SHEETS IN RIGIDITY. AND ITS WEIGHT IS ONLY 60% AND 50% RESPECTIVELY.
- **EXCELLENT FLATNESS AND SMOOTHNESS:** GRAPHIC-AL™ DP HAS AN EXCELLENT FLATNESS DERIVED FROM THE CONTINUOUS LAMINATING PROCESS AND AN EXCELLENT SMOOTHNESS FROM THE COIL COATING PROCESS.

MATERIAL COMPOSITION

GRAPHIC-AL DP™ IS COMPOSED OF TWO SKINS OF 0.005" THICK ALUMINUM AND A FOAMED POLYETHYLENE CORE. THE TOPSIDE IS A PAINT COATING WITH HIGH POLYMER POLYESTER, AND COVERED WITH A TRANSPARENT PROTECTIVE FILM.

PANEL DIMENSION

THICKNESS: 3MM

SIZE: 48"x96"

NOTE: CUSTOM SIZES ARE AVAILABLE UPON REQUEST.

PRODUCT TOLERANCE

WIDTH: ± 0.08" (2MM)

LENGTH: ± 0.16" (4MM)

THICKNESS: ± 0.008" (0.2MM)

BOW: MAXIMUM 0.5% OF LENGTH AND/OR WIDTH

SQUARENESS: MAXIMUM 0.2" (5MM)

ALL GRAPHIC-AL™ DP IS SUPPLIED WITH CUT EDGES.

THERE IS NEITHER DISPLACEMENT OF THE ALUMINUM SHEET NOR PROTRUSION OF THE CORE.

CHARACTERISTICS

PROPERTIES

THE PANEL WEIGHT IS ALMOST EQUIVALENT TO 1.0MM THICK ALUMINUM AND 2MM THICK ACRYLIC SHEETS. THE THERMAL EXPANSION IS ALMOST EQUIVALENT TO ALUMINUM AND NEARLY ONE THIRD ACRYLIC SHEETS.

UNIT	THICKNESS MM	PANEL WEIGHT PSF	THERMAL EXPANSION x10 ⁻⁶ IN/IN/°F
GRAPHIC-AL™ DP	3MM	0.51	13
ALUMINUM SHEET	1.0MM	0.55	13
ACRYLIC SHEET	2MM	0.49	28-50

NOTE: THERMAL EXPANSION RATE 13x10⁻⁶IN/IN/°F MEANS THAT THE ELONGATION/CONTRACTION IS 0.06" PER 48" PER 100°F.

RIGIDITY (BENDING STRENGTH)

GRAPHIC-AL™ DP 3MM IS EQUIVALENT TO 1.8MM THICK ALUMINUM AND 5.0MM THICK ACRYLIC SHEETS IN RIGIDITY.

	THICKNESS OF EQUIVALENT RIGIDITY	PANEL WEIGHT KG/M ²	WEIGHT RATIO
GRAPHIC-AL™ DP	3MM	0.51	1
ALUMINUM SHEET	1.8MM	0.98	1.9
ACRYLIC SHEET	5.0MM	1.23	2.4

NOTE (HOW TO READ THE ABOVE TABLE): GRAPHIC-AL™ DP 3MM IS EQUIVALENT TO 1.8MM THICK ALUMINUM SHEET IN RIGIDITY. THIS ALUMINUM SHEET WEIGHS 1.9 TIMES GRAPHIC-AL™ DP.

