



Technical Sheet

M-Lite RW300 Promotional Prismatic Material

M-Lite RW300 is a High Intensity Prismatic Sheeting intended for use in temporary traffic signage, suitable for screen and digitally printing. This product is non-tear able offering a 3 year life span with vivid daytime colours and high reflectivity at night.

M-Lite RW300 unique micro prismatic component provided extremely high levels of reflectivity in excess of 800 candelas.

M-Lite RW300 meets and exceeds the Chromaticity and Luminance requirements of BS EN 12899-1:2001 for class R1 and R2 retro reflective signs.

Product Type:	Micro Prismatic
Adhesive:	Permanent Pressure Sensitive Adhesive
Substrate:	Acrylic
Roll Size:	1220mm wide x 45.7m
Application:	Temporary Traffic Signs
Available Colours:	White, Yellow, Red, Orange, Blue

Adhesive Sheet Base Material

M-Lite RW300 is suitable for use on steel, aluminium, aluminium composite and rigid PVC base boards. For best results treated aluminium base boards are recommended. When using a plastic base board it is suggested that a small area is tested before application.

Cutting

M-Lite RW300 is suitable for cutting with a manual or automatic guillotine. It is recommended that after cutting the sheets should be stacked and left for 8 hours with an appropriate weight to remove any curling prior to printing or application.

Printing

M-Lite RW300 is suitable for printing with digital printer and screen printer. Digital printing inks should be tested on a sample of the material to confirm compatibility. M-Lite solvent screen printable ink is recommended. For screen printable.

Application method

M-Lite RW300 should be applied in a clean environment. For large surface areas machine application is recommended. Smaller areas can be applied by hand. After fixing in position use a squeegee to remove bubbles and wrinkles from sheeting.

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Storage

M-Lite RW300 sheeting should be stored in a clean, well ventilated environment. The optimum temperature for storage is 15°-30°C with a humidity of 30-60%. Unused rolls should be tightened and re-wrapped. All rolls should be stored horizontally to avoid compression and stored out of direct sunlight. Cut sheets should be stored horizontally.

Adhesion temperature

The temperature of both the base board and the M sheeting should be synchronised to 18° C or above. The optimum adhesion temperature is 20°-25°C.

Usage of the product

M-Lite RW300 sheeting has a wide variety of applications. These include road, aviation and railway signage.

RW300 Orange			
Angle	+5°	+30°	+40°
12'	(25/100) 378	(18/60) 132	(6/29) 50.1
20'	(20/65) 267	(8/40) 79	(2.2/20) 37.1
2°	(1.5/1.5) 2.6	(0.5/1) 1.2	(#/#) 1.7
RW300 White			
12'	(70/250) 894	(30/150) 377	(10/110) 234
20'	(50/180) 714	(24/100) 248	(9/95) 188
2°	(5/5) 7.1	(2.5/2.5) 3.4	(1.5/1.5) 3.7
RW300 Yellow			
12'	(50/170) 882	(22/100) 232	(7/70) 100
20'	(35/120) 666	(16/70) 139	(6/60) 74.7
2°	(3/3) 5.2	(1.5/1.5) 1.8	(1.0/1.0) 1.6

(The figures in square brackets are the minimum coefficient of retro reflection R': Class Ref1 and Class Ref 2 (cd.lx.m²) for relevant colours of sign face materials for EN12899-1:2001

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