

R_s Specification for Type IX Sheeting

Obs./Ent. Angles	White	Yellow	Red	Blue	Green	R _s Yellow	R _s Yellow-Green	R _s Orange
0.1/4	660	500	100	30	66	490	630	300
0.1/30	370	280	74	17	37	230	300	110
0.2/4	380	285	76	17	38	230	300	118
0.2/30	215	162	40	10	22	130	170	65
0.5/4	240	180	46	11	24	146	190	72
0.5/30	135	100	27	6	14	81	110	40
1/4	60	40	16	3.6	6	48	64	24
1/30	45	34	9	2	4.5	27	36	14

R_s Specification for Proposed Type XI Sheeting

Obs./Ent. Angles	White	Yellow	Red	Blue	Green	R _s Yellow	R _s Yellow-Green	R _s Orange
1/4	660	546	172	39	66	516	660	300
1/30	326	246	66	16	32	196	240	116
2/4	670	426	114	26	67	340	426	200
2/30	216	160	40	10	21	130	170	76
5/4	400	300	80	18	40	240	300	140
5/30	190	112	30	6.8	19	90	120	62
10/4	120	90	34	8.4	12	72	90	42
10/30	48	34	9	2	4.8	27	36	16

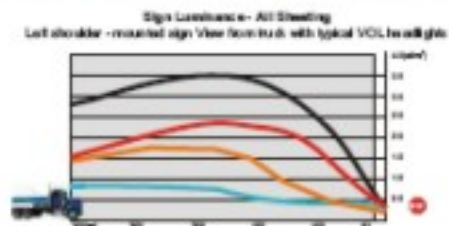
The above sheeting meets Type IX and proposal Type XI specifications. The sheeting is designed as replacement for all types of reflective sign sheeting in use today.

Performance at all sight distances

3M™ Diamond Grade™ Reflective Sheeting incorporates "full cube" technology for optimal performance. Its optical elements are 100% efficient, returning almost 60% of available light - nearly double that of traditional prisms.

It performs at all sight distances - including short and medium sight distances, and where signs are positioned in disadvantaged locations.

Sign Luminance curves (Dg3 v/s Others)



Available in standard and fluorescent colours for highly visible signs during day and night

4090
White DG¹

4091
Yellow DG¹

4092
Red DG¹

4095
Blue DG²

4097
Green DG¹

4081
Fluorescent
Yellow DG¹

4083
Fluorescent
Yellow Green
DG¹

4084
Fluorescent
Orange DG¹

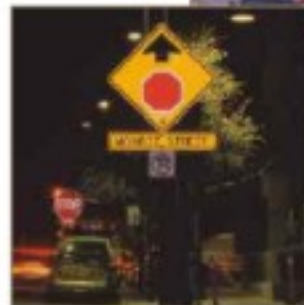
DG¹ sign - As seen during day



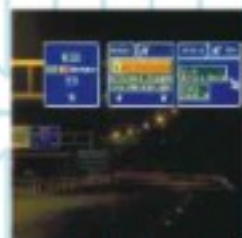
DG¹ sign -
As seen during dusk



DG¹ sign - As seen during night



Suitable for use in City and Highway driving conditions



Ladwa Traffic Safety Systems



Designed to meet
the needs of drivers
- now and years from now

Diamond Grade™
DG³ Reflective Sheeting

- State-of-the-art "full-cube" technology
- 100% efficient optical elements
- Delivers optimal performance where and when drivers need it most
- Better for today's changing driving environment

LADWA™
Making the World Safer

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LADWA™
Making the World Safer



Tourism



Corporate

One product for several applications

3M™ High Intensity Prismatic Reflective Sheeting Series 3930 with Pressure Sensitive Adhesive is designed for use on durable traffic control signs, work zone signs and delineators.

- Meets and exceeds MoRT&H D & ASTM D4956 Type III & IV specifications.
- Vivid daytime colors provide 24-hour performance with increased daytime visibility.
- The improved optical performance increases nighttime visibility.



Defense

In the work zone...



Ladwa Traffic Safety Systems



3M™ High Intensity Grade

Reflective Sheeting Series 3930

One product for several applications

- Meets & exceeds MoRT&H and ASTM D4956 Type III & IV specifications
- Better durability
- Vivid daytime colors
- Improved reflective performance
- 8 year warranty



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LADWA™
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Ladwa High Intensity Grade Reflective Sheeting

HIP WHITE

HIP BLUE

HIP YELLOW

HIP GREEN

HIP RED

HIP Orange

Highway Roads



Railways



City Development Authority



MoRT&H specifications

Minimum Coefficient of Retroreflection R_s for new sheeting (cd/lux/m²)

Observation Angle	Entrance Angle	White	Yellow	Red	Blue	Green	Orange
0.2	-4	250	170	45	20	45	100
0.2	+30	150	100	25	11	25	60
0.5	-4	95	60	15	7.5	15	30
0.5	+30	65	45	10	5	10	25

3M specifications

Minimum Coefficient of Retroreflection R_s for new sheeting (cd/lux/m²)

Observation Angle	Entrance Angle	White	Yellow	Red	Blue	Green	Orange
0.2	-4	300	270	65	30	50	145
0.2	+30	170	135	30	14	25	65
0.5	-4	150	110	27	13	21	60
0.5	+30	72	54	13	6	10	28

Meets & exceeds
MoRT&H and
ASTM D4956
Type III & IV
specifications

Airports

