

# Safe, visible road signs, now and in the future.

Like you, we aspire to a world free of roadway fatalities and serious injuries. It's why we have partnered with the U.N Internationally and are a National Partner of Yellow Ribbon National Safety Awareness week.



The Safer Australian Roads and Highways Group (SARAH)

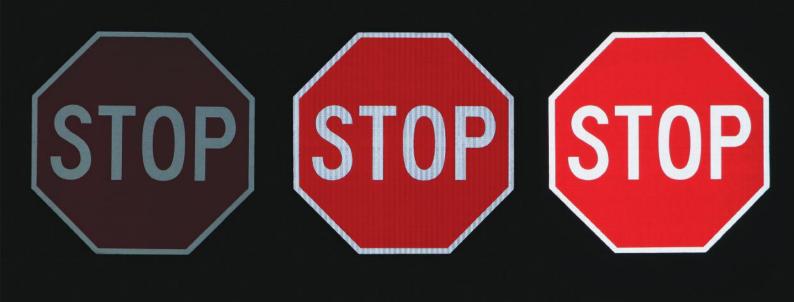


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# Retroreflective Sign Sheeting

3M pioneered the development of retroreflective sign sheeting over 75 years ago and continues to meet today's requirements with long-lasting and effective signs that help get drivers safely where they're going. Explore our full range of visibility performance levels to meet the needs of your specific application:



# **Engineer Grade Sheeting**

# Ideal for non-critical traffic signing and devices

- ► An affordable choice for noncritical traffic signs.
- Best Usage: Parking and recreation signs

# High Intensity Prismatic Sheeting

#### Intermediate reflectivity

- Traffic signs, work zone devices and delineators
- Best Usage: General traffic control signs in non-disadvantaged positions and street name blades.

# 3M<sup>™</sup> Diamond Grade<sup>™</sup> DG<sup>3</sup> Sheeting

# Maximum total reflected light

- Higher luminance for larger angle, long-distance visibility
- ➤ 3M<sup>™</sup> Diamond Grade<sup>™</sup> DG<sup>3</sup> Reflective Sheeting returns almost 60% of the available light to vehicle drivers—about double that of our high intensity prismatic reflective sheeting.
- ► Best Usage: Ideal for high truck traffic,multi-lane roads or for disadvantaged signs or where there is high sign clutter/ interference.

# Standards:

#### Standards:

#### Standards:

- Class AS/NZS 1906.1 Class 100
- ► Class AS/NZS 1906.1 Class 400
- ► Class AS/NZS 1906.1 Class 1100



# 3M™ Diamond Grade ™ DG3 Sheeting

#### **Best applications:**

1. Ideal for critical regulatory signs such as Stop, Give Way, Roundabout and Keep Left.

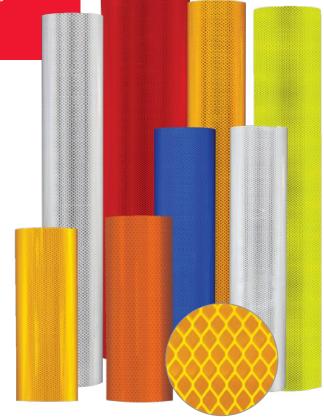
2. High truck traffic routes, multi-lane roads, disadvantaged signs or where there is high sign clutter/interference.

3. Signs on sharp bends that require excellent retroreflective performance such as directional, hazard signs and chevrons.

# Maximum total reflected light.

# 3M™ Diamond Grade™ DG3 Reflective **Sheeting Series 4000**

- · Exceptional performance in short, medium and long viewing distances with 3M Innovative full cube technology.
- · Meets the highest overall retroreflectivity requirements in AS/NZ 1906.1 Class 1100.
- · Optimal performance in the most challenging environments, where and when drivers need
- · Performance warranted for up to 12 years.\*













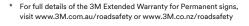














## 3M Full Cube Technology

When you can almost double the average effective brightness of road signs, visibility and safety are a natural result. Of the three technologies used on roadways today, only fully reflective micro prismatic cube-corners-or 3M full cube technology are the most efficient.



14%

**Encapsulated glass** bead sheeting: Reflects 14% of light back to source

32% Truncated cube corner sheeting (most common): Reflects about 32% of light back to source

58%

3M™ Diamond Grade™ DG³ Reflective Sheeting with 3M full cube technology:

Reflects 58% of light back to source

# Why upgrade to 3M™ Diamond Grade™ DG³ Sheeting?

Brighter signs, safer roads. You can make a difference during the day, and especially at night, by using 3M Diamond Grade DG3 Reflective Sheeting to make signage brighter and more visible, giving drivers more time to react. Let's compare.

3M<sup>™</sup> High Intensity Prismatic Luminance Intermediate Luminance Maximum luminance Returns nearly twice the amount of light as Type IX with 100% efficiency Specification Mid to High Highest performance standards and standards performance standards AS/NZS 1906.1 Class 1100 AS/NZS 1906.1 Class 400 Sight distance Performs best at Short distances Optimized for all distances Retro reflective efficiency Intermediate Retroreflection **Highest Retroreflection** 32% Retroreflection efficiency 58% Retroreflection efficiency optimized for large and small vehicles Retro reflective Truncated cube technology Full cube technology technology Reflects more light than glass-bead Reflects more light than technology found in some engineer truncated cube corner and grade sheeting glass-bead technology found in

3M™ Diamond Grade™ DG³

lower-grade sheeting

use Class 1100



# Don't get "accidentally downgraded"

Many traffic sign manufacturers already use Class 1100 sheeting, even when road authorities' specifications might only call for Class 400 or 900. That's why those who are committed to achieving the highest possible traffic safety outcomes know that the technology in 3M™ Diamond Grade™ Sheeting provides solutions to help make roadways safer.



# Make bright the standard

Upgrade your specifications to Class 1100 by using 3M™ Diamond Grade™ Sheeting to deliver bright visible signs that will help provide the best driving experience for all drivers on the road. Signs will remain bright with lasting durability, in both urban and rural areas.



# 3M™ Diamond Grade™ VIP Reflective Sheeting

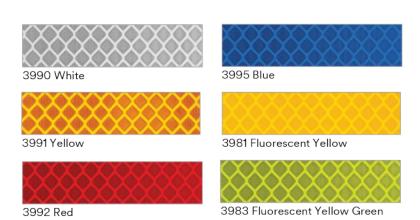
#### **Best applications:**

Signs that feature around a bend and require excellent short distance retro reflective performance such as directional, hazard signs and chevrons.

# Superior reflectivity at short distances.

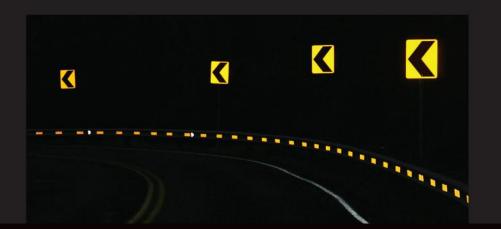
# 3M<sup>™</sup> Diamond Grade<sup>™</sup> VIP Reflective Sheeting Series 3990

- Reflects light to drivers of all vehicle types, even at difficult angles.
  - · Meets AS/NZS 1906.1 Class 900.
  - · Premium short distance sign brightness.
  - · Performance Warranted for up to 10 years\*.





<sup>\*</sup> For full details of the 3M Extended Warranty for Permanent signs, visit www.3M.com.au/roadsafety or www.3M.co.nz/roadsafety



# Visibility matters.

Studies have found that where more-visible signs are installed, crash numbers have fallen

25% to 46%

in three to six years.

Ripley, D.A, Howard R. Green Company, ITE AB04H313, Quantifying the Safety Benefits of Traffic Control Devices—Benefit-Cost Analysis of Traffic Sign Upgrades, 2005 Mid-Continent Transportation Research Symposium Proceedings.

# 3M™ High Intensity Prisimatic Reflective Sheeting

#### **Best applications:**

General traffic control signs in non-disadvantaged positions, such as left handed signs and street name blades.

Intermediate reflectivity for regulated applications.

# 3M<sup>™</sup> High Intensity Prismatic Reflective Sheeting Series 3930

The reflective sheeting you need to meet most common middle grade performance standards.

- Excellent for general traffic control signs in non-disadvantaged positions.
- · Meets AS/NZ 1906.1 Class 400.
- · Warranted for up to 10 years\*.



3930 White



3931 Yellow



3932 Red



3935 Blue





\* For full details of the 3M Extended Warranty for Permanent signs, visit www.3M.com.au/roadsafety or www.3M.co.nz/roadsafety

# On the road to the future. The transportation industry is dramatically changing and autonomous vehicles will soon be on our roads. That's why we're already innovating smart sign technology and more robust pavement markings to help guide the vehicles of the future.

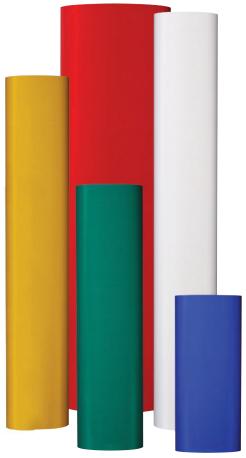
Parking signs and commercial applications.

# Excellent visibility and uniformityday and night.

# 3M™ Engineer Grade Series 3200

- · Glass bead reflective technology.
- High quality, durable material designed for traffic, safety and commercial applications.
- · Meets AS/NZ 1906.1 Class 100.
- · Upgrade to retroreflectivity for improved visibility\*.





\* For full details of the 3M Extended Warranty for Permanent signs, visit www.3M.com.au/roadsafety or www.3M.co.nz/roadsafety



Protect and enhance your traffic signs.

# 3M™ ElectroCut™ 1170 Series

Get reliable compliance to daytime and nighttime color specifications on 3M prismatic sheetings.

- Protects surface from environmental contaminants and UV degradation.
- · Transparent, acrylic, coloured film used for application over 3M Reflective Sheeting to produce durable sign backgrounds, copy, and logos.
- · Warranted to match sheeting performance.



1170 Clear











prevents water and dew build-up.



Science.
Applied to Life.™

# **Bright** white, day or night.

3M™ Advanced Flexible Engineer **Grade Reflective** Sheeting Series 7600.

Make your class 100 and other non-critical signs stand out day and night with this bright white and durable reflective sheeting. Your images and graphics will shine against its crisp white surface.



# Seeing is believing.

Why not upgrade your non reflective signs to 3M Advanced Engineer Grade 7610 series class 100. You will be delivering enhanced visibility, greater signage recognition and compliance from pedestrians to road users.

- Bright white for visibility and eye-catching graphics
- Meets AS/NZ 1906.1 Class 100 for non critical street and road signs
- Flexible for simple curve applications
- Signs made from 3M Diamond Certified Manufacturers on 7600 series are backed by a 7 year warranty

# 3M™ Engineer Grade Reflective 3M™ Advanced Flexible **Sheeting Series 3200 Engineer Grade Reflective Sheeting Series 7600** Day Night\*

\*The images shown are taken by a professional photographer using an SLR camera of only one sample sign from each sheeting, and may not represent alone, or in comparison, how drivers will actually see these signs at night time.

# **Visibility Park**

Enjoy our parks responsibly. Your safety and that of other park users is important to us. Your help by observing park rules and warnings provided is appreciated.













































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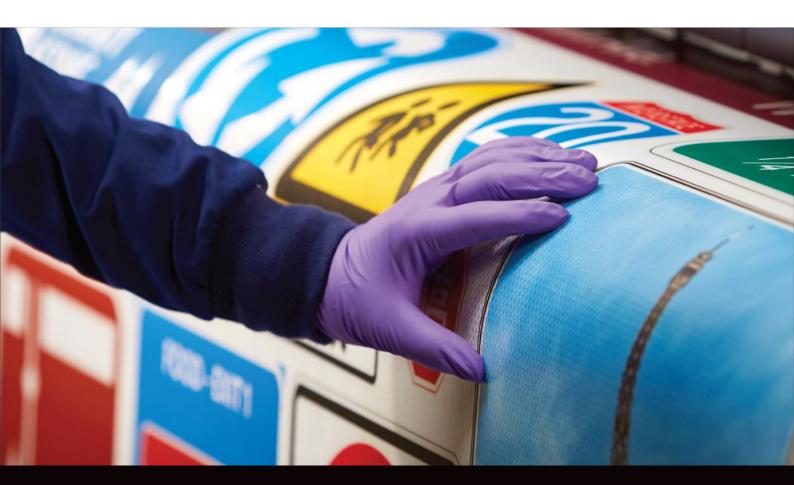
Signs made from 3M Diamond Certified Manufacturers on 7600 series are backed 3M<sup>™</sup> Diamond by a 7 year warranty. Certified Manufacturer

# Digital by design.

Create traffic signs with digital printing for any level of production. 3M™ Digital Printing Solutions give you quick, on-demand prints for regulated and non-regulated signs backed by the 3M™ Warranty.

- · Produce signs with a wider range of colourful reflective graphics and images.
- · Customise your signs by branding with your councils logo.
- Turn your tourist signs into visual high graphic images of popular local landmarks.





# Lighting up a safe path of travel.

# **Delineator Markings**

3M delineator markings are designed to provide the highest prismatic reflectivity alerting drivers to the direction of the road and obstructions earlier.

- 3M Delineators made from Series 983 are a cost-effective road safety improvement.
- Enhance driver safety where there is a need to call attention to changing road conditions, such as an abrupt roadway narrowing or curvature.



3932 Red



3931 Yellow

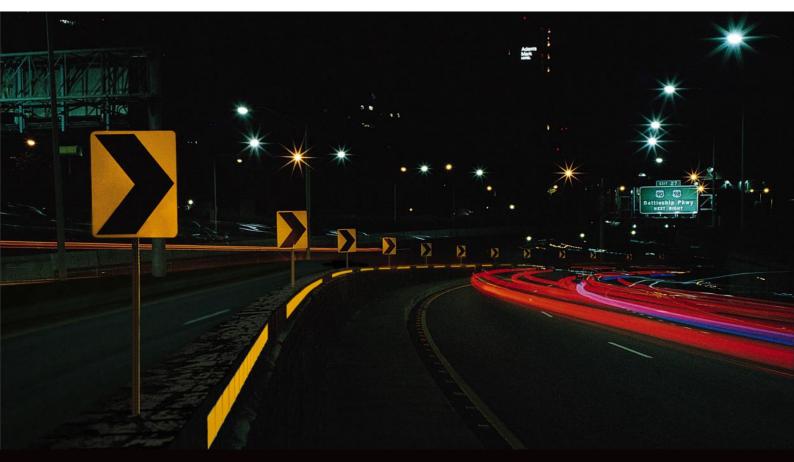


3930 White

# **Linear Delineation Panels**

Linear Delineation Panels combine high performance 3M Diamond Grade™ Reflective Sheeting with a unique crimped design for optimal visibility, flexibility and angularity. Panels are available in flurescent yellow colour that provide increased visibility from dawn to dusk, as well as at night.









3M™ MCS™ Warranty for Traffic Signs on HP Latex 360/365/1500 Printers

You need great looking signs that perform to the highest specifications and we've got you covered with warranties that put your mind at ease. 3M™ MCS™ Warranties provide you a system of matched components to meet your needs for producing regulated and non-regulated signage. Whichever imaging method you use, you can be confident your signs will perform as expected.



As a world leader in weathering test standards, we use science, technology and innovation to help ensure your finished sign will perform for its intended life.

SAi's FlexiPRINT Authorized 3M™ Traffic Edition is the required software to produce warranted permanent signage. This is a complete design application that makes traffic sign design and print easy and accurate.



Our premier warranty provides you with top of the line coverage for regulated, finished signs. When you use 3M traffic sign materials, you get all the benefits of the 3M™ MCS™ Warranty, plus guaranteed traffic colors and retroreflectivity retention.

# 3M™ MCS™ Warranty

Get protection for almost any application with a comprehensive non-regulated, finished sign warranty. We've got you covered beyond regulated signs, to cover almost all finished signs you might create.

# Software to produce Traffic signs HP Latex 360/365/1500 Printers

SAi's FlexiPRINT is the required software to produce warranted permanent traffic signage. This is a complete design application that makes traffic sign design and print easy and accurate.



# Warranty Coverage Comparison\*



#### 3M™ MCS™ Warranty

For non-regulated, finished signs using all 3M durable traffic sign products.

#### 3M™ MCS™ Warranty for Traffic

For regulated, finished signs using all 3M durable traffic sign products.

Physical Defects in 3M Product	Obvious Damage for any reason	<b>✓</b>	<b>✓</b>
	Visual Defects	<b>✓</b>	<b>✓</b>
Manufacturing Defects	Adhesive Defects	<b>✓</b>	<b>✓</b>
	Adhesion Failure on Recommended Substrates	<b>✓</b>	<b>✓</b>
	Image Defects When Printing	<b>✓</b>	<b>✓</b>
Printing Defects and Ink Performance	Excessive Image Fading	<b>✓</b>	<b>~</b>
	Image Cracking, Crazing or Peeling	<b>~</b>	~
	Blistering	<b>✓</b>	<b>✓</b>
	Excessive Dimensional Change	<b>✓</b>	<b>✓</b>
Cutting Defects	Clean Cutting and Weeding	<b>✓</b>	<b>✓</b>
Traffic Colors	Daytime and Nighttime	<b>~</b>	
Retroreflection	Retention	<b>✓</b>	



Visit 3M.com.au/roadsafety for full warranty information.



Reflective Film Color Card Reference Guide

# Reflect your brand - day and night

Let your cars, trucks and vans deliver your brand messaging brilliantly around the clock for years to come. 3M™ Scotchlite™ Reflective Graphic Films for vehicle graphics are dazzling by day and bright by night.

# 3M Scotchlite™ Removable Reflective Graphic Film with Comply™ Adhesive Series 680CR

- > Printable, enclosed lens reflective vinyl with a clear, removable Comply adhesive and PE coated kraft liner
- > For vertical, flat, curved or corrugated surfaces, with or without rivets
- > Up to 8 years unprinted vertical durability
- > Suitable for solvent, eco-solvent, UV-curable and latex
- > Comply adhesive for easy and fast bubble-free installations
- > Similar daytime and nighttime appearance that retains most of its reflectivity when wet
- > For use with overlaminate 8518, 8519, 8993, 85489 & 8549L

# 3M Scotchlite™ Removable Reflective Graphic Film with Comply™ Adhesive Series 780mC

- > 6.6-mil, flexible, enclosed lens, retroreflective available in white only
- > Excellent retroreflectivity at wider viewing angles
- > Pressure-activated adhesive for easy sliding and tacking, snap-up and repositioning
- > Suitable for solvent, eco-solvent, UV-curable and latex
- > Flexible, conforms to compound curves, corrugations, and rivets
- > Includes Comply Adhesive for fast, easy bubble-free installations
- > Expected Performance Life of 9 years (unwarranted period for unprinted film with no graphic protection, applied to a flat, vertical, outdoor surface)
- > For use with 3M overlaminates 8548G & 8549L



# Dazzling by day and bright by night.

Get the speed of application you need with this versatile reflective film that features pressure-activated Comply™ Adhesive with air release. It's available in a wide variety of colors for both digital and screen printing. Removable adhesive.









3M provides safety solutions that are a vital component of emergency response. We supply a wide variety of products such as respirators, high visibility material, communications equipment, hearing protection, head, eye and face protection, sorbents and identity management solutions.

To help protect emergency personnel, it is essential that their clothing and vehicles remain highly visible in all types of weather, 24 hours a day.

High visibility markings on emergency vehicles save lives. Whether at the scene of an emergency, or manoeuvring through the traffic to get there, its essential that emergency vehicles are quickly recognised and readily identified.

3M offers a comprehensive range of reflective products to improve visibility of fire, ambulance, police and other emergency trucks, vans and cars.



# Road trauma is a big issue

ROAD TRAFFIC
INJURIES PLACE AN
IMMENSE BURDEN
ON HOSPITALS &
HEALTH SYSTEMS



Unless action to curb the road toll is effective, road traffic injuries are predicted to become the fifth leading cause of death in the world by 2030.1

We're working on the science of safer roads to get everyone home safe.

# 3M Signs help save lives. Make it count.

Your community, family and friends are relying on your decisions to be the safest ones.

Signs are one of the most cost-effective treatments to reduce incidents in your community.

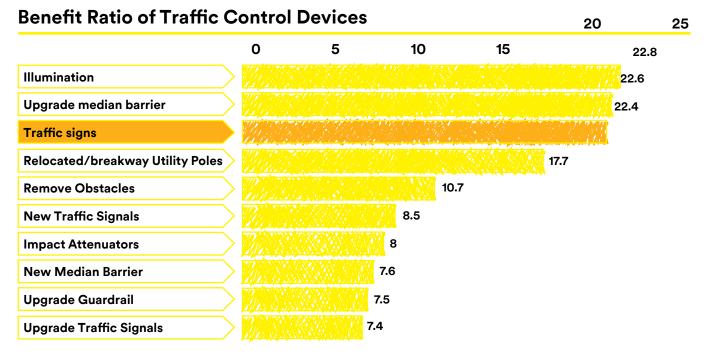
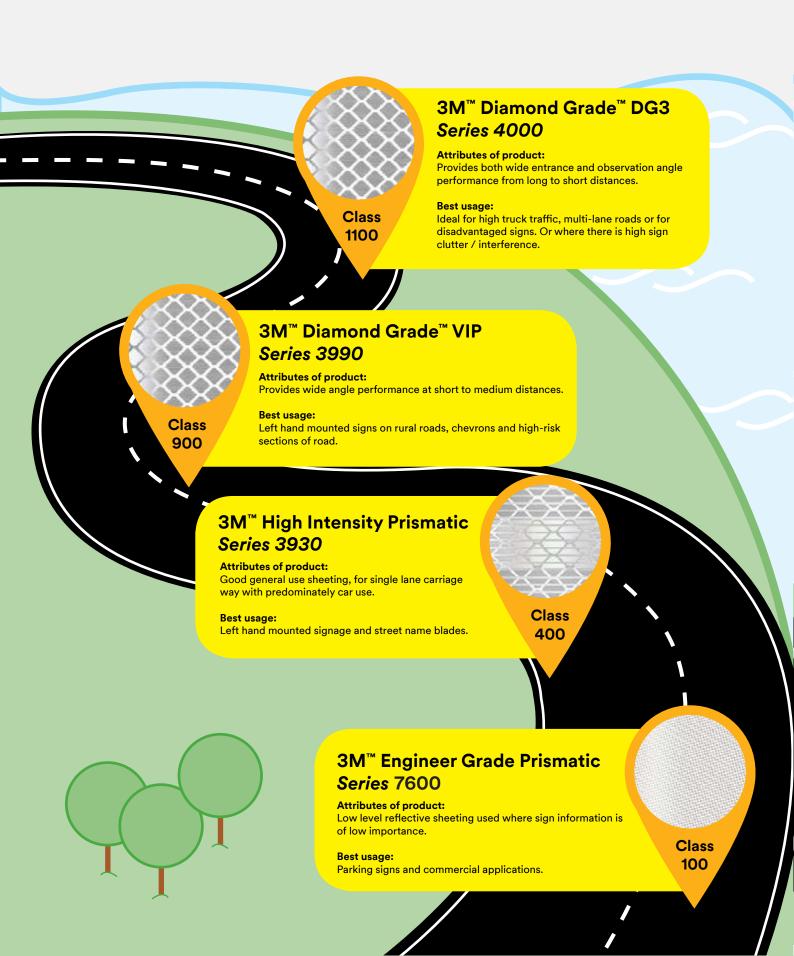


TABLE IV-7, Highway Safety Improvements With The Highest Benefit-Cost Ratios 1974-1995, United States FHWA

# Do your signs comply?

# AS/NZS1906.1-2017 Quick Overview

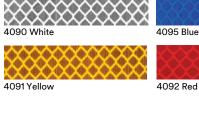


# Driving road safety in the right direction.

# 3M™ Reference guide

#### 3M™ Diamond Grade™ DG³ Reflective Sheeting Series 4000

- Maximum total reflected light with exceptional performance in short, medium and long viewing distances with 3M Innovative full cube technology.
- > Meets the highest overall retroreflectivity requirements in AS/NZS 1906.1 Class 1100.









4083 Fluorescent Yellow/Green

4084 Fluorescent Orange



#### **Best Applications**

- Ideal for critical regulatory signs such as Stop, Give Way, Roundabout and Keep Left.
- High truck traffic routes, multilane roads, disadvantaged signs or where there is high sign clutter/ interference.
- Signs on sharp bends that require excellent retroreflective performance such as directional, hazard signs and chevrons.

# 3M™ Diamond Grade™ VIP Reflective Sheeting Series 3990

- > Ideal for short to medium distance sign brightness
- > Meets AS/NZS 1906.1 Class 900



#### **Best Applications**

Signs that feature around a bend and require excellent short distance retro reflective performance such as directional, hazard signs and chevrons.

# 3M™ High Intensity Prisimatic Reflective Sheeting Series 3900

- > Intermediate reflectivity for traffic signs, work zone devices and delineators
- > Meets AS/NZS 1906.1 Class 400





# **Best Applications**

General traffic control signs in nondisadvantaged positions, such as left handed signs and street name blades.

## 3M™ High Intensity Prismatic Sheeting Series 3800

- > Medium to high performance and visibility to alert drivers of upcoming road work zones.
- For best performance use 3M Diamond Grade DG³ Fluorescent colours for extra visibility in daylight and twilight hours giving 24/7 visibility.







3831 - Yellow

3824 - Orange



#### 3M™ Engineer Grade Reflective Sheeting Series 3200

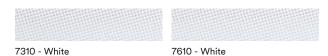
- > An affordable choice for non-critical traffic signs.
- > Meets AS/NZS 1906.1 Class 100.





#### 3M™ Advanced Flexible Engineer Grade Reflective Sheeting Series 7600

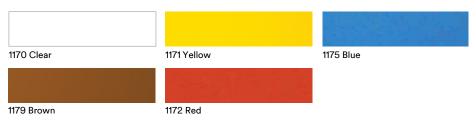
- > Bright white for visibility and eye-catching graphics
- > Meets AS/NZ 1906.1 Class 100 for non critical street and road signs
- > Flexible for simple curve applications
- > Signs made from 3M Diamond Certified Manufacturers on 7600 series are backed by a 7 year warranty





#### 3M™ ElectroCut™ Films

- > Protect and enhance your traffic signs.
- > Protects surface from environmental contaminants and UV degradation.
- > Transparent, acrylic, coloured film used for application over 3M Reflective Sheeting to produce durable sign backgrounds, copy, and logos.





# Drive down replacement costs while protecting public safety.



# Protect and enhance traffic sign images.

- ► 3M<sup>™</sup> Protective Overlay Film Series 1160 Graffiti-Resistant Easily remove paint and ink from this durable overlaminate
- ► 3M™ ElectroCut™ Film Series 1170C UV
  - Premium UV protection defends against fading, finishing retroreflectivity after digital printing.
  - Restore brightness and legibility of your signs after graffiti.
  - Resists graffiti penetration by commonly used sprays, paints, markers, crayons and stickers.

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# Safety you can see.

# 3M<sup>™</sup> Vehicle Visibility Reference guide.

When trucks, trailers and other large commercial vehicles are more reflective, they're easier for other drivers to see at a distance. Help increase the visibility and safety of your vehicles and minimise down time with 3M™ Diamond Grade™ Reflective Tape. In doing so you will be reducing the chance of an accident by up to 30 times¹.

# ECE104 regulation explained

ECE104 is a regulation that establishes guidelines for the use of retro-reflective safety markings on heavy goods vehicles operating throughout Australia and New Zealand.

Australia: Retro Reflective markings are recommended by Australian Design Rule 13/00 for Vehicle Standards and under the ATA Industry Technical Advisory Procedure for Heavy Vehicle Visibility.

**New Zealand:** Retro Reflective markings recommended by NZTA under "Land Transport Rule: Vehicle Lighting".





#### **Required Vehicles:**

- ► Trailers with Gross Vehicle Weight over 3,500 kg.
- ► Goods vehicles and trailers over 6 m long and over 2.1 m wide.



# 983 Series

#### 3M Diamond Grade™ Reflective Tape

For applications on rigid-sided vehicles.

► Eight years expected lifetime





# 957S Series

# 3M Diamond Grade™ Reflective Tape Segmented

For applications on soft-sided vehicles such as curtain-sides.

► Three years expected lifetime





# 983S Series

#### 3M Diamond Grade™ Reflective Oval Tape

For applications on tanker vehicles.

► Five years expected lifetimee



# **3M Reflective Tape Selector Guide**

In addition to helping save lives, conspicuity markings can help save money too.

While the safety benefits of conspicuity markings on heavy vehicles are easy to see, it is also worth noting how those crash reductions translate into economic value. While most studies rightly focus and report primarily on the number of injuries and fatalities prevented, the associated reduction in costs for healthcare and the replacement of damaged property can further justify the investment in retroreflective marking solutions and ultimately improve the bottom line.

3M Code	Product Code	Colour	Size	UN/ECE 104 identification markings	Edge Sealed	Suitable for curtain sides	Suitable for rear of tankers	Suitable for mining and site construction vehicles
XA010030600	983-10	White	53.5mm x 50m	1	1			
XA010012616	983-10	White	50.8mm x 45.7m		1			
AR010596575	983-10	White	50.8mm x 15m		1			
AR010613594	983-10	White	50.8mm x 3m		1			
XA010030618	983-71	Yellow	53.5mm x 50m	<b>✓</b>	1			
XA010007269	983-71	Yellow	50.8mm x 45.7m		1			
AR010613602	983-71	Yellow	50.8mm x 3m		1			
75030287355	983-21	Fluorescent Yellow	53.5mm x 50m	1	1			
XA010013911	983-23	Fluoro Yellow/Green	101mm x 45.7m		1			1
XA010017680	983-23	Fluoro Yellow/Green	76mm x 45.7m		1			1
XA010013309	983-23	Fluoro Yellow/Green	50.8mm x 45.7m		1			1
AR010602308	983-23	Flouro Yellow/Green	76mm x 15m		1			1
AR010602290	983-23	Flouro Yellow/Green	50.8mm x 15m		1			1
AR010613628	983-23	Fluoro Yellow/Green	50.8mm x 3m		1			1
XA010030626	983-72	Red	53.5mm x 50m	<b>✓</b>	1			
XA010012632	983-72	Red	50.8mm x 45.7m		1			
AR010596591	983-72	Red	50.8mm x 15m		1			
AR010613610	983-72	Red	50.8mm x 3m		1			
DR123047216	957S-10 segmented	White	51mm x 50m	1	1	1		
DR123047224	957S-71 segmented	Yellow	51mm x 50m	1	1	1		
DR123047232	957S-72 segmented	Red	51mm x 50m	1	1	1		
DR995032494	983-10S tanker oval	White	52mm x 45.7m	1	1		<b>√</b>	
DR995032502	983-72S tanker oval	Red	52mm x 45.7m	1	1		1	



White Product Code: 983-10



Yellow Product Code: 983-71



Red Product Code: 983-72



Fluorescent Yellow/Green Product Code: 983-23

## **Colour Guide for Heavy Vehicles**

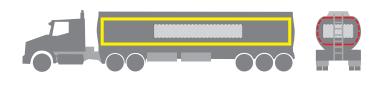
Location on vehicle	Colour(s) Permitted
Front	White
Sides	Yellow, White or Fluorescent Yellow
Rear	Red or Yellow



# Reflective Tape Application Guide

# **Recommended Layout - Full Contour**

Reflective tape is applied as close as possible to the edge of the vehicle to form a continuous line, depicting the outline of the vehicle. This provides maximum visibility to other road users and is best practice.





# **Partial Contour**

A single strip of retroreflective tape is applied along each side and the rear of the body or trailer, with 'L' shape sections 0.5m long in each corner.



Colour guide for heavy vehicles		
Location on Vehicle	Colour(s) Permitted	
Front	White	
Sides	Yellow, White or Fluorescent Yellow	
Rear	Red or Yellow	

# **Concrete Mixer**

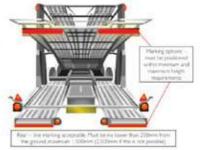






# **Car Carrier**





# Skip Loader



# **Rubbish Truck**



# Rigid with tray









For enquiries please contact your local Spicers representative.

# 1300 132 644 spicers.com.au

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#### NT

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